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FLOOD STUDY
TECHNICAL DATA NOTEBOOK

for

WHITE TANKS/AGUA FRIA
AREA DRAINAGE MASTER STUDY

APPENDIX F
VOLUME 7 OF 15

MCUHP2 INPUT DATA

Prepared for:
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Prepared by:
THE WLB GROUP, INC.
333 East Osborn Road, Suite 380
Phoenix, Arizona 85012
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May 28, 1992

20.	974.	90.	56.
25.	1186.	95.	56.
30.	1502.	100.	56.
[illegible]	2185.	105.	56.
40.	1957.	110.	0.
45.	1537.	115.	0.
50.	1243.		
55.	989.		
60.	751.		
65.	417.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 1

Area= 1.94, Point rainfall depth= 4.0, Reduction coefficient= 1.00
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.21 XKSAT= 1.14RTIMP= 9.9
Phoenix Valley S-graph was selected.
Lag Time = 35.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	442.	90.	405.	160.	0.
25.	556.	95.	268.	165.	0.
30.	642.	100.	202.		
[illegible]	727.	105.	189.		
40.	849.	110.	144.		
45.	1013.	115.	115.		
50.	1346.	120.	103.		
55.	1419.	125.	35.		
60.	1145.	130.	35.		
65.	985.	135.	35.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 2

Area= 1.82
Rainfall distribution is 24-hour, SCS Type II
IA= .18 DTHETA= .33 PSIF= 3.91 XKSAT= .70RTIMP= 11.7
Phoenix Valley S-graph was selected.
Lag Time = 53.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	554.	90.	0.
[illegible]	725.	95.	0.
30.	1088.		
35.	908.		
40.	700.		
45.	535.		
50.	396.		
55.	205.		
60.	152.		
65.	95.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 3

Area= .81
Rainfall distribution is 24-hour, SCS Type II
IA= .15 DTHETA= .33 PSIF= 4.08 XKSAT= .54RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 30.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

[illegible]	444.
25.	512.
30.	346.
35.	236.
40.	115.
45.	67.
50.	35.
55.	14.
60.	14.
65.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN 4

Area= .30
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .30 PSIF= 3.87 XKSAT= .77RTIMP= 1.0
Phoenix Valley S-graph was selected.
Lag Time = 21.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	992.
25.	1242.
30.	849.
35.	591.
40.	315.
45.	174.
50.	101.
55.	34.
60.	34.
65.	34.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 5

Area= .72
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.27 XKSAT= 1.11RTIMP= 9.2
Phoenix Valley S-graph was selected.
Lag Time = 22.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

5.	204.
10.	622.
15.	1139.
20.	837.
25.	427.
30.	155.
35.	54.
40.	33.
45.	0.
50.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 6

Area= .45, Point rainfall depth= 4.0, Reduction coefficient= 1.00
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.21 XKSAT= 1.14RTIMP= 10.0
Phoenix Valley S-graph was selected.
Lag Time = 14.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

5.	126.
10.	387.
15.	716.
20.	606.
25.	343.
30.	129.
35.	52.
40.	22.
45.	0.
50.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN 7

Area= .31
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.21 XKSAT= 1.14RTIMP= 10.0
Phoenix Valley S-graph was selected.
Lag Time = 14.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

EN 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	703.
25.	1054.
30.	1140.
35.	822.
40.	608.
45.	421.
50.	208.
55.	147.
60.	96.
65.	31.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 8

Area= .81
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.21 XKSAT= 1.14RTIMP= 10.0
Phoenix Valley S-graph was selected.
Lag Time = 26.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

EN 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	935.	90.	47.
25.	1216.	95.	0.
30.	1832.	100.	0.
35.	1591.		
40.	1224.		
45.	938.		
50.	705.		
55.	386.		
60.	261.		
65.	177.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 9

Area= 1.40
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.24 XKSAT= 1.12RTIMP= 9.7
Phoenix Valley S-graph was selected.
Lag Time = 30.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	427.	90.	577.	160.	36.
25.	546.	95.	475.	165.	36.
30.	632.	100.	325.	170.	36.
35.	708.	105.	210.	175.	0.
40.	812.	110.	201.	180.	0.
45.	929.	115.	193.		
50.	1148.	120.	119.		
55.	1499.	125.	119.		
60.	1393.	130.	86.		
65.	1156.	135.	36.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 10

Area= 2.02
Rainfall distribution is 24-hour, SCS Type II
IA= .16 DTHETA= .33 PSIF= 3.90 XKSAT= .66RTIMP= 3.3
Phoenix Valley S-graph was selected.
Lag Time = 57.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	755.	90.	44.
25.	913.	95.	44.
30.	1142.	100.	44.
35.	1648.	105.	44.
40.	1623.	110.	0.
45.	1254.	115.	0.
50.	1026.		
55.	821.		
60.	643.		
65.	394.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 11

Area= 1.56
Rainfall distribution is 24-hour, SCS Type II
IA= .18 DTHETA= .32 PSIF= 3.98 XKSAT= .67RTIMP= 6.8
Phoenix Valley S-graph was selected.
Lag Time = 36.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	535.	90.	111.
25.	636.	95.	92.
30.	758.	100.	34.
35.	930.	105.	34.
40.	1311.	110.	34.
45.	1277.	115.	34.
50.	1008.	120.	34.
55.	850.	125.	34.
60.	697.	130.	0.
65.	574.	135.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 12

Area= 1.38
Rainfall distribution is 24-hour, SCS Type II
IA= .16 DTHETA= .32 PSIF= 4.18 XKSAT= .50RTIMP= 3.0
Phoenix Valley S-graph was selected.
Lag Time = 41.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	835.
25.	1279.
30.	973.
35.	707.
40.	488.
45.	232.
50.	153.
55.	90.
60.	33.
65.	33.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: WT4

Area= .77
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.17 XKSAT= .38RTIMP= .4
Phoenix Valley S-graph was selected.
Lag Time = 24.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4C

E[illegible]1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	164.	90.	10.
25.	197.	95.	10.
[illegible].	244.	100.	10.
35.	345.	105.	10.
40.	374.	110.	10.
45.	285.	115.	0.
50.	235.	120.	0.
55.	189.		
60.	151.		
65.	103.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 213

Area= .35
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 3.50 XKSAT= .28RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 37.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	176.
25.	267.
[illegible].	201.
35.	146.
40.	100.
45.	47.
50.	31.
55.	18.
60.	7.
65.	7.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 214

Area= .16
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.16 XKSAT= .38RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 24.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	6.				
220.	6.				
225.	6.				
230.	6.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 211

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.69 XKSAT= .52RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 78.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	6.	300.	0.
235.	6.	305.	0.
[illegible]	6.		
245.	6.		
250.	6.		
255.	6.		
260.	6.		
265.	6.		
270.	6.		
275.	6.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 212

Area= .54
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.59 XKSAT= .49RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 100.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	7.				
230.	7.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 209A

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.27 XKSAT= .41RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 78.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	6.				
220.	6.				
225.	6.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 210

Area= .46
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.84 XKSAT= .52RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 76.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	12.
215.	12.
220.	12.
225.	12.
230.	12.
235.	12.
240.	12.
245.	12.
250.	0.
255.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 208

Area= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.18 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 83.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 209

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 209

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.85 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 74.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

225.	12.
230.	12.
[illegible].	12.
240.	12.
245.	12.
250.	12.
255.	12.
260.	12.
265.	0.
270.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 207

Area= 1.00, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.99 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 87.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	314.	90.	16.
25.	400.	95.	0.
[illegible].	593.	100.	0.
35.	595.		
40.	448.		
45.	350.		
50.	270.		
55.	176.		
60.	93.		
65.	76.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 207A

Area= .50
Rainfall distribution is 6-hour
IA= .35 DTHETA= .34 PSIF= 4.03 XKSAT= .55RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 31.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
   15.          159.
   20.          252.
   25.          175.
   30.          112.
   35.           49.
   40.           27.
   45.           10.
   50.            7.
   55.            0.
   60.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=   .99
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 206
-----------------------------------------------------------------------
Area=    .12
Rainfall distribution is 6-hour
IA= .35  DTHETA= .35  PSIF= 4.05  XKSAT=  .36RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  18.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
   20.          396.
   25.          462.
   30.          312.
   35.          214.
   40.          105.
   45.           61.
   50.           33.
   55.           13.
   60.           13.
   65.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=   .99
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 204
-----------------------------------------------------------------------
Area=    .27
Rainfall distribution is 6-hour
IA= .35  DTHETA= .37  PSIF= 3.85  XKSAT=  .34RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  21.6 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


    0.            0.
    5.           40.
   10.          117.
   15.          176.
   20.           90.
   25.           28.
   30.            9.
   35.            5.
   40.            0.
   45.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 205
-----------------------------------------------------------------------
Area=    .06
Rainfall distribution is 6-hour
IA= .35  DTHETA= .36  PSIF= 3.50  XKSAT=  .28RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  11.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  230.            9.      300.            5.
  235.            5.      305.            0.
  240.            5.      310.            0.
  245.            5.
  250.            5.
  255.            5.
  260.            5.
  265.            5.
  270.            5.
  275.            5.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 202
-----------------------------------------------------------------------
Area=    .48
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.99  XKSAT=  .40RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time = 101.5 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


   20.          131.
   25.          189.
   30.          135.
   35.           96.
   40.           62.
   45.           29.
   50.           19.
   55.            9.
   60.            5.
   65.            5.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=   .99
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 203
-----------------------------------------------------------------------
Area=    .11
Rainfall distribution is 6-hour
IA= .35  DTHETA= .38  PSIF= 5.29  XKSAT=  .21RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  23.2 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  20.          74.       90.          59.      160.          0.
  25.          92.       95.          36.      165.          0.
  30.         105.      100.          32.
  35.         121.      105.          30.
  40.         140.      110.          19.
  45.         172.      115.          19.
  50.         230.      120.          11.
  55.         220.      125.           6.
  60.         179.      130.           6.
  65.         155.      135.           6.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 200
-----------------------------------------------------------------------
Area=    .29
Rainfall distribution is 6-hour
IA= .43  DTHETA= .18  PSIF= 3.70  XKSAT=  .41RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  52.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  20.         233.       90.           0.
  25.         304.       95.           0.
  30.         457.
  35.         381.
  40.         294.
  45.         225.
  50.         166.
  55.          86.
  60.          64.
  65.          40.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 201
-----------------------------------------------------------------------
Area=    .34
Rainfall distribution is 6-hour
IA= .35  DTHETA= .35  PSIF= 3.56  XKSAT=  .29RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  30.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

230.	18.	300.	9.
235.	9.	305.	0.
240.	9.	310.	0.
245.	9.		
250.	9.		
255.	9.		
260.	9.		
265.	9.		
270.	9.		
275.	9.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 198

Area= .91
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.97 XKSAT= .38RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 101.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 199

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	2.				
215.	2.				
220.	2.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 199

Area= .11
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.67 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 75.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 196

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 196

Area= .47
Rainfall distribution is 6-hour
IA= .46 DTHETA= .03 PSIF= 3.74 XKSAT= .45RTIMP= 2.0
Phoenix Valley S-graph was selected.
Lag Time = 74.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	32.	300.	10.
235.	27.	305.	10.
240.	10.	310.	10.
245.	10.	315.	0.
250.	10.	320.	0.
255.	10.		
260.	10.		
265.	10.		
270.	10.		
275.	10.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 197

Area= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.58 XKSAT= .41RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 104.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  230.          10.      300.          0.
  235.          10.
  240.          10.
  245.          10.
  250.          10.
  255.          10.
  260.          10.
  265.          10.
  270.          10.
  275.          10.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 194
-----------------------------------------------------------------------
Area=    .99
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.75  XKSAT=  .46RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  97.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  230.          13.      300.          5.
  235.           5.      305.          5.
  240.           5.      310.          0.
  245.           5.      315.          0.
  250.           5.
  255.           5.
  260.           5.
  265.           5.
  270.           5.
  275.           5.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 195
-----------------------------------------------------------------------
Area=    .49
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.51  XKSAT=  .44RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time = 102.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

UNIT HYDROGRAPH FOR BASIN: 192

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 192

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.18 XKSAT= .41RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 75.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

220.	11.				
225.	11.				
230.	11.				
235.	11.				
240.	11.				
245.	11.				
250.	11.				
255.	11.				
260.	0.				
265.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 193

Area= .91
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.76 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 86.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  220.          12.
  225.          12.
  230.          12.
  235.          12.
  240.          12.
  245.          12.
  250.          12.
  255.          12.
  260.           0.
  265.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 191
-----------------------------------------------------------------------
Area=    .99
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.59  XKSAT=  .41RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  86.5 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


 UNIT HYDROGRAPH FOR BASIN:  192A

  TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
  (min.)     (cfs)       (min.)     (cfs)       (min.)     (cfs)

  210.          7.
  215.          7.
  220.          7.
  225.          0.
  230.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 192A
-----------------------------------------------------------------------
Area=    .50
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.18  XKSAT=  .41RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  75.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	298.	90.	16.
25.	372.	95.	16.
30.	516.	100.	0.
35.	631.	105.	0.
40.	471.		
45.	376.		
50.	293.		
55.	219.		
60.	118.		
65.	88.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 189

Area= .51
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.17 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 33.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	141.	90.	297.	160.	13.
25.	176.	95.	264.	165.	13.
30.	209.	100.	232.	170.	13.
35.	238.	105.	207.	175.	13.
40.	261.	110.	167.	180.	13.
45.	292.	115.	124.	185.	13.
50.	331.	120.	77.	190.	13.
55.	381.	125.	76.	195.	13.
60.	482.	130.	72.	200.	0.
65.	570.	135.	59.	205.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 190

Area= .86
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.18 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 66.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
0.	0.				
53.	66.				
106.	147.				
159.	37.				
212.	5.				
265.	0.				
318.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 187

Area= .35
Rainfall distribution is 6-hour
IA= .46 DTHETA= .10 PSIF= 4.02 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 71.4 min., Hydrograph Time Step= 53min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	274.				
25.	326.				
30.	221.				
35.	152.				
40.	76.				
45.	44.				
50.	24.				
55.	9.				
60.	9.				
65.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 188

Area= .19
Rainfall distribution is 6-hour
IA= .35 DTHETA= .33 PSIF= 4.11 XKSAT= .51RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 21.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	9.				
215.	9.				
220.	9.				
225.	9.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 185

Area= .69
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.10 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 77.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	4.				
235.	4.				
240.	4.				
245.	4.				
250.	4.				
255.	4.				
260.	4.				
265.	4.				
270.	4.				
275.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 186

Area= .33
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.52 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 90.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 183

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  20.          109.        90.          6.
  25.          134.        95.          6.
  30.          172.       100.          6.
  35.          247.       105.          6.
  40.          206.       110.          0.
  45.          164.       115.          0.
  50.          131.
  55.          104.
  60.           74.
  65.           40.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 183
-----------------------------------------------------------------------
Area=    .21, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.98  XKSAT=  .42RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  35.2 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  210.          10.
  215.          10.
  220.          10.
  225.          10.
  230.          10.
  235.          10.
  240.          10.
  245.           0.
  250.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 184
-----------------------------------------------------------------------
Area=    .79
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.50  XKSAT=  .36RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  81.0 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 183
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	65.	90.	124.	160.	6.
25.	79.	95.	111.	165.	6.
30.	93.	100.	97.	170.	6.
35.	106.	105.	83.	175.	6.
40.	117.	110.	63.	180.	6.
45.	132.	115.	44.	185.	6.
50.	148.	120.	34.	190.	6.
55.	177.	125.	32.	195.	0.
60.	224.	130.	31.	200.	0.
65.	248.	135.	19.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 181

Area= .37
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.78 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 64.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	56.	90.	60.	160.	5.
25.	71.	95.	40.	165.	0.
30.	83.	100.	26.	170.	0.
35.	93.	105.	25.		
40.	108.	110.	22.		
45.	127.	115.	15.		
50.	167.	120.	15.		
55.	190.	125.	7.		
60.	154.	130.	5.		
65.	131.	135.	5.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 182

Area= .24
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.89 XKSAT= .44RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 54.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  230.          11.
  235.          11.
  240.          11.
  245.          11.
  250.          11.
  255.          11.
  260.          11.
  265.          11.
  270.          11.
  275.          11.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 180
-----------------------------------------------------------------------
Area=    .99
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.94  XKSAT=  .37RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  95.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  210.          5.
  215.          5.
  220.          5.
  225.          5.
  230.          5.
  235.          5.
  240.          5.
  245.          0.
  250.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 181A
-----------------------------------------------------------------------
Area=    .39
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.77  XKSAT=  .45RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  80.4 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

UNIT HYDROGRAPH FOR BASIN: 178

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	6.				
220.	6.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 178

Area= .44
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.75 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 74.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	6.				
220.	6.				
225.	6.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 179

Area= .46
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.02 XKSAT= .32RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 77.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 177A

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	0.				
230.	0.				

VOID

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 177A

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.99 XKSAT= .43RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 75.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 177

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 177

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.99 XKSAT= .43RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 74.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

220.	7.
225.	7.
230.	7.
235.	7.
240.	7.
245.	7.
250.	7.
255.	7.
260.	0.
265.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 176A

Area= .62
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.09 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 86.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	329.	90.	19.
25.	398.	95.	19.
30.	500.	100.	19.
35.	727.	105.	19.
40.	688.	110.	0.
45.	536.	115.	0.
50.	437.		
55.	348.		
60.	272.		
65.	158.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 176

Area= .67
Rainfall distribution is 6-hour
IA= .36 DTHETA= .37 PSIF= 4.03 XKSAT= .36RTIMP= 2.0
Phoenix Valley S-graph was selected.
Lag Time = 36.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	362.	90.	20.
25.	449.	95.	20.
30.	588.	100.	20.
35.	817.	105.	0.
40.	642.	110.	0.
45.	515.		
50.	407.		
55.	319.		
60.	208.		
65.	115.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 176

Area= .67
Rainfall distribution is 6-hour
IA= .35 DTHETA= .34 PSIF= 4.03 XKSAT= .35RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 34.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 162

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  20.          215.       90.          13.
  25.          258.       95.          13.
  30.          317.      100.          13.
  35.          439.      105.          13.
  40.          507.      110.          13.
  45.          388.      115.           0.
  50.          320.      120.           0.
  55.          258.
  60.          207.
  65.          147.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 175A
-----------------------------------------------------------------------
Area=    .47
Rainfall distribution is 6-hour
IA= .35  DTHETA= .33  PSIF= 3.80  XKSAT=  .65RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  38.0 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  20.          279.
  25.          440.
  30.          364.
  35.          267.
  40.          192.
  45.          103.
  50.           63.
  55.           38.
  60.           15.
  65.           12.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 175
-----------------------------------------------------------------------
Area=    .28
Rainfall distribution is 6-hour
IA= .35  DTHETA= .33  PSIF= 3.87  XKSAT=  .33RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  24.9 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

55.	121.	125.	27.	195.	5.
60.	146.	130.	26.	200.	5.
65.	184.	135.	25.	205.	5.

IT HYDROGRAPH FOR BASIN: 173

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	0.				
215.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 173

Area= .31
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.25 XKSAT= .69RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 69.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	474.
25.	735.
30.	574.
35.	418.
40.	294.
45.	145.
50.	94.
55.	57.
60.	19.
65.	19.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 174

Area= .45
Rainfall distribution is 6-hour
IA= .35 DTHETA= .33 PSIF= 3.90 XKSAT= .33RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 24.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	46.	90.	52.	160.	4.
25.	58.	95.	37.	165.	0.
30.	67.	100.	22.	170.	0.
35.	76.	105.	21.		
40.	88.	110.	20.		
45.	102.	115.	12.		
50.	133.	120.	12.		
55.	158.	125.	8.		
60.	130.	130.	4.		
65.	110.	135.	4.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 173A

Area= .20
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.03 XKSAT= .30RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 54.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	42.	90.	58.	160.	4.
25.	53.	95.	49.	165.	4.
30.	61.	100.	35.	170.	4.
35.	69.	105.	22.	175.	0.
40.	78.	110.	20.	180.	0.
45.	90.	115.	19.		
50.	109.	120.	13.		
55.	143.	125.	12.		
60.	141.	130.	11.		
65.	116.	135.	4.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 173B

Area= .20
Rainfall distribution is 6-hour
IA= .46 DTHETA= .11 PSIF= 3.20 XKSAT= 1.40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 57.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  230.          7.      300.          0.
  235.          7.      305.          0.
  240.          7.
  245.          7.
  250.          7.
  255.          7.
  260.          7.
  265.          7.
  270.          7.
  275.          7.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 171
-----------------------------------------------------------------------
Area=    .70
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.97  XKSAT=  .32RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  99.5 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  20.          39.       90.          15.
  25.          47.       95.          11.
  30.          55.      100.           9.
  35.          66.      105.           6.
  40.          82.      110.           3.
  45.         112.      115.           3.
  50.          96.      120.           3.
  55.          79.      125.           3.
  60.          68.      130.           3.
  65.          56.      135.           3.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 172
-----------------------------------------------------------------------
Area=    .12
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.91  XKSAT=  .42RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  45.9 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  210.            7.
  215.            7.
  220.            7.
  225.            7.
  230.            7.
  235.            7.
  240.            7.
  245.            0.
  250.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 169
-----------------------------------------------------------------------
Area=    .51
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 6.30  XKSAT=  .27RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  80.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  20.           77.       90.           49.      160.            0.
  25.           95.       95.           34.
  30.          110.      100.           32.
  35.          126.      105.           25.
  40.          148.      110.           19.
  45.          189.      115.           17.
  50.          242.      120.            6.
  55.          212.      125.            6.
  60.          175.      130.            6.
  65.          153.      135.            6.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 170
-----------------------------------------------------------------------
Area=    .29
Rainfall distribution is 6-hour
IA= .41  DTHETA= .04  PSIF= 7.38  XKSAT=  .19RTIMP=  5.0
Phoenix Valley S-graph was selected.
Lag Time =  51.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  230.          10.
  235.          10.
  240.          10.
  245.          10.
  250.          10.
  255.          10.
  260.          10.
  265.          10.
  270.          10.
  275.          10.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 167
-----------------------------------------------------------------------
Area=    .97
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.56  XKSAT=  .46RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  95.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


 (min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

  210.          7.
  215.          7.
  220.          7.
  225.          7.
  230.          7.
  235.          7.
  240.          0.
  245.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 168
-----------------------------------------------------------------------
Area=    .51
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.01  XKSAT=  .38RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  80.2 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  220.          11.
  225.          11.
  230.          11.
  235.          11.
  240.          11.
  245.          11.
  250.          11.
  255.          11.
  260.           0.
  265.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 165
-----------------------------------------------------------------------
Area=    .90
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.72  XKSAT=  .43RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  86.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  230.          11.
  235.          11.
  240.          11.
  245.          11.
  250.          11.
  255.          11.
  260.          11.
  265.          11.
  270.          11.
  275.          11.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 166
-----------------------------------------------------------------------
Area=    .98
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.64  XKSAT=  .46RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  95.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

UNIT HYDROGRAPH FOR BASIN: 164A

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 164A

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.59 XKSAT= .31RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 74.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 164

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 164

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.59 XKSAT= .31RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 75.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	64.	90.	4.
25.	77.	95.	4.
30.	94.	100.	4.
35.	130.	105.	4.
40.	151.	110.	4.
45.	116.	115.	0.
50.	95.	120.	0.
55.	77.		
60.	62.		
65.	44.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 162

Area= .14
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.62 XKSAT= 1.21RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 38.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

55.	296.	125.	65.	195.	11.
60.	361.	130.	63.	200.	11.
65.	456.	135.	60.	205.	11.

IT HYDROGRAPH FOR BASIN: 163

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	0.				
215.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 163

Area= .75
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.70 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 68.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	114.	90.	7.
25.	137.	95.	7.
30.	169.	100.	7.
35.	233.	105.	7.
40.	270.	110.	7.
45.	206.	115.	0.
50.	170.	120.	0.
55.	138.		
60.	110.		
65.	78.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 162

Area= .25, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.96 XKSAT= .59RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 38.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 162

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  20.          238.       90.          13.
  25.          301.       95.          13.
  30.          435.      100.           0.
  35.          474.      105.           0.
  40.          354.
  45.          279.
  50.          216.
  55.          150.
  60.           79.
  65.           64.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 160
-----------------------------------------------------------------------
Area=    .39
Rainfall distribution is 6-hour
IA= .35  DTHETA= .33  PSIF= 3.98  XKSAT=  .34RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  32.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  55.          195.      125.          43.      195.           7.
  60.          236.      130.          42.      200.           7.
  65.          297.      135.          40.      205.           7.
IT HYDROGRAPH FOR BASIN:  161

 TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
(min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

 210.           0.
 215.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 161
-----------------------------------------------------------------------
Area=    .50
Rainfall distribution is 6-hour
IA= .49  DTHETA= .03  PSIF= 4.09  XKSAT=  .77RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  69.2 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

UNIT HYDROGRAPH FOR BASIN: 158

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	13.				
215.	13.				
220.	13.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 158

Area= .97
Rainfall distribution is 6-hour
IA= .39 DTHETA= .08 PSIF= 3.97 XKSAT= .91RTIMP= 6.0
Phoenix Valley S-graph was selected.
Lag Time = 74.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	407.	90.	0.
25.	539.	95.	0.
30.	797.		
35.	641.		
40.	495.		
45.	375.		
50.	269.		
55.	139.		
60.	105.		
65.	66.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 159

Area= .58
Rainfall distribution is 6-hour
IA= .35 DTHETA= .34 PSIF= 3.81 XKSAT= .65RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 29.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
   35.          208.
   40.          109.
   45.           48.
   50.           25.
   55.           25.
   60.            0.
   65.            0.
-----------------------------------------------------------------------
         VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                    INPUT DATA FOR SUB-BASIN: 158E
-----------------------------------------------------------------------
Area=     .45
Rainfall distribution is 6-hour
IA= .17  DTHETA= .23  PSIF= 3.78  XKSAT=  .39RTIMP= 16.0
Phoenix Valley S-graph was selected.
Lag Time =  18.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                  HEC-1 INPUT IS STORED IN FILE: 158A
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
2
Stop - Program terminated.

C:\HYDRO\HEC1>
```

25.	40.	95.	7.
30.	47.	100.	3.
35.	57.	105.	2.
40.	78.	110.	2.
45.	86.	115.	2.
50.	67.	120.	2.
55.	57.	125.	2.
60.	47.	130.	0.
65.	39.	135.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 158C

Area= .09
Rainfall distribution is 6-hour
IA= .46 DTHETA= .03 PSIF= 7.25 XKSAT= .21RTIMP= 9.0
Phoenix Valley S-graph was selected.
Lag Time = 43.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 158A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
\

20.	501.
25.	637.
30.	439.
35.	306.
40.	169.
45.	92.
50.	54.
55.	17.
60.	17.
65.	17.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 158D

Area= .37
Rainfall distribution is 6-hour
IA= .21 DTHETA= .23 PSIF= 3.73 XKSAT= .39RTIMP= 12.0
Phoenix Valley S-graph was selected.
Lag Time = 22.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 158A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

215.	5.
220.	5.
225.	5.
230.	5.
235.	5.
240.	5.
245.	5.
250.	5.
255.	0.
260.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 158A

Area= .38, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 2.81 XKSAT= 1.90RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 84.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 158A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

55.	263.	125.	58.	195.	10.
60.	319.	130.	57.	200.	10.
65.	404.	135.	54.	205.	10.

IT HYDROGRAPH FOR BASIN: 158B

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	0.				
215.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 158B

Area= .67
Rainfall distribution is 6-hour
IA= .31 DTHETA= .11 PSIF= 3.50 XKSAT= .39RTIMP= 10.0
Phoenix Valley S-graph was selected.
Lag Time = 68.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 158A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	64.	90.	85.	160.	5.
25.	82.	95.	69.	165.	5.
30.	94.	100.	47.	170.	5.
35.	106.	105.	31.	175.	0.
40.	121.	110.	30.	180.	0.
45.	139.	115.	28.		
50.	173.	120.	18.		
55.	223.	125.	18.		
60.	206.	130.	12.		
65.	171.	135.	5.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 156

Area= .30
Rainfall distribution is 6-hour
IA= .35 DTHETA= .09 PSIF= 3.95 XKSAT= .38RTIMP= 8.0
Phoenix Valley S-graph was selected.
Lag Time = 57.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	278.	90.	109.
25.	339.	95.	97.
30.	392.	100.	64.
35.	463.	105.	63.
40.	568.	110.	20.
45.	781.	115.	20.
50.	736.	120.	20.
55.	593.	125.	20.
60.	510.	130.	20.
65.	427.	135.	20.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 157

Area= .89
Rainfall distribution is 6-hour
IA= .28 DTHETA= .00 PSIF= 3.71 XKSAT= .30RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 46.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	56.	90.	73.	160.	5.
25.	72.	95.	57.	165.	5.
30.	83.	100.	39.	170.	0.
35.	93.	105.	27.	175.	0.
40.	107.	110.	26.		
45.	122.	115.	23.		
50.	156.	120.	15.		
55.	195.	125.	15.		
60.	177.	130.	8.		
65.	147.	135.	5.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 155

Area= .26
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.71 XKSAT= .25RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 56.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

15.	434.
20.	664.
25.	443.
30.	275.
35.	114.
40.	65.
45.	18.
50.	18.
55.	0.
60.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 156A

Area= .31
Rainfall distribution is 6-hour
IA= .12 DTHETA= .25 PSIF= 4.28 XKSAT= .53RTIMP= 20.0
Phoenix Valley S-graph was selected.
Lag Time = 17.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 153

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  230.            2.
  235.            2.
  240.            2.
  245.            2.
  250.            2.
  255.            2.
  260.            2.
  265.            2.
  270.            2.
  275.            2.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 153
-----------------------------------------------------------------------
Area=    .20, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.58  XKSAT=  .43RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  95.4 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


   20.          53.       90.          21.
   25.          64.       95.          19.
   30.          74.      100.          12.
   35.          87.      105.          12.
   40.         106.      110.           5.
   45.         146.      115.           4.
   50.         142.      120.           4.
   55.         114.      125.           4.
   60.          98.      130.           4.
   65.          82.      135.           4.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 154
-----------------------------------------------------------------------
Area=    .17
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.53  XKSAT=  .39RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  47.2 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 153
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	53.	90.	72.	160.	4.
25.	67.	95.	60.	165.	4.
30.	78.	100.	41.	170.	4.
35.	87.	105.	26.	175.	0.
40.	100.	110.	25.	180.	0.
45.	114.	115.	24.		
50.	140.	120.	15.		
55.	184.	125.	15.		
60.	173.	130.	11.		
65.	143.	135.	4.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 151

Area= .25
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.79 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 57.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	54.	90.	124.	160.	5.
25.	69.	95.	110.	165.	5.
30.	83.	100.	97.	170.	5.
35.	94.	105.	86.	175.	5.
40.	103.	110.	74.	180.	5.
45.	114.	115.	56.	185.	5.
50.	129.	120.	39.	190.	5.
55.	147.	125.	31.	195.	5.
60.	187.	130.	29.	200.	5.
65.	221.	135.	29.	205.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 152

Area= .35
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.16 XKSAT= .31RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 67.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	6.				
220.	6.				
225.	6.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 149

Area= .48
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.81 XKSAT= .49RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 77.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	50.	90.	64.	160.	4.
25.	65.	95.	47.	165.	4.
30.	74.	100.	32.	170.	0.
35.	84.	105.	24.	175.	0.
40.	96.	110.	23.		
45.	110.	115.	18.		
50.	144.	120.	14.		
55.	175.	125.	14.		
60.	154.	130.	5.		
65.	129.	135.	4.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 150

Area= .23
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.57 XKSAT= .50RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 56.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  65.          249.      135.          41.      205.          7.
 UNIT HYDROGRAPH FOR BASIN:  147

 TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
(min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

  210.           7.
  215.           7.
  220.           0.
  225.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 147
-----------------------------------------------------------------------
Area=    .50
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.59  XKSAT=  .47RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  73.0 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


 UNIT HYDROGRAPH FOR BASIN:  148

 TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
(min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

  210.           7.
  215.           7.
  220.           7.
  225.           0.
  230.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 148
-----------------------------------------------------------------------
Area=    .48
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.77  XKSAT=  .44RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  74.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	7.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 145

Area= .48
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.78 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 75.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

215.	11.				
220.	11.				
225.	11.				
230.	11.				
235.	11.				
240.	11.				
245.	11.				
250.	11.				
255.	0.				
260.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 146

Area= .90
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.51 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 84.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  65.          253.      135.          42.      205.          7.
 UNIT HYDROGRAPH FOR BASIN:  144

 TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
(min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

  210.           7.
  215.           7.
  220.           0.
  225.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 144
-----------------------------------------------------------------------
Area=    .51
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.65  XKSAT=  .46RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  73.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
 (min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

  210.           6.
  215.           6.
  220.           6.
  225.           6.
  230.           6.
  235.           0.
  240.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 145A
-----------------------------------------------------------------------
Area=    .49
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.78  XKSAT=  .42RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  78.0 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  65.          258.      135.          42.      205.          7.
 UNIT HYDROGRAPH FOR BASIN:  142

 TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
(min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

  210.           7.
  215.           7.
  220.           0.
  225.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 142
-----------------------------------------------------------------------
Area=    .51
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.18  XKSAT=  .47RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  72.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  65.          248.      135.          41.      205.          7.
 UNIT HYDROGRAPH FOR BASIN:  143

 TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
(min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

  210.           7.
  215.           7.
  220.           0.
  225.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 143
-----------------------------------------------------------------------
Area=    .50
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.00  XKSAT=  .41RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  73.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
   20.          302.
   25.          213.
   30.          138.
   35.           62.
   40.           34.
   45.           13.
   50.            8.
   55.            8.
   60.            0.
   65.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 141A
-----------------------------------------------------------------------
Area=    .14
Rainfall distribution is 6-hour
IA= .35  DTHETA= .35  PSIF= 4.08  XKSAT=  .52RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  18.5 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


   20.          310.       90.           16.
   25.          403.       95.            0.
   30.          607.      100.            0.
   35.          538.
   40.          413.
   45.          317.
   50.          239.
   55.          135.
   60.           88.
   65.           61.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 141
-----------------------------------------------------------------------
Area=    .47
Rainfall distribution is 6-hour
IA= .35  DTHETA= .34  PSIF= 4.07  XKSAT=  .52RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  30.6 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	6.				
220.	6.				
225.	6.				
230.	6.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 139

Area= .47
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.73 XKSAT= .32RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 77.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	53.	90.	22.
25.	65.	95.	21.
30.	75.	100.	16.
35.	88.	105.	13.
40.	104.	110.	9.
45.	142.	115.	4.
50.	155.	120.	4.
55.	123.	125.	4.
60.	105.	130.	4.
65.	90.	135.	4.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 140

Area= .18
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.47 XKSAT= .25RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 48.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
 230.          6.      300.          0.
 235.          6.      305.          0.
 240.          6.
 245.          6.
 250.          6.
 255.          6.
 260.          6.
 265.          6.
 270.          6.
 275.          6.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                 INPUT DATA FOR SUB-BASIN: 137
-----------------------------------------------------------------------
Area=    .54
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.62  XKSAT=  .36RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  99.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


 230.         11.
 235.         11.
 240.         11.
 245.         11.
 250.         11.
 255.         11.
 260.         11.
 265.         11.
 270.         11.
 275.         11.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                 INPUT DATA FOR SUB-BASIN: 138
-----------------------------------------------------------------------
Area=   1.00
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.81  XKSAT=  .38RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  93.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  210.            6.
  215.            6.
  220.            6.
  225.            6.
  230.            6.
  235.            6.
  240.            6.
  245.            0.
  250.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 135
-----------------------------------------------------------------------
Area=    .49
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.58  XKSAT=  .44RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  80.4 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
 (min.)     (cfs)       (min.)      (cfs)       (min.)      (cfs)

  210.            6.
  215.            6.
  220.            6.
  225.            6.
  230.            0.
  235.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 136
-----------------------------------------------------------------------
Area=    .46
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.67  XKSAT=  .42RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  75.4 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	7.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 133

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.62 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 75.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	7.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 134

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.67 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 75.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 131

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 131

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.47 XKSAT= .34RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 75.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

Enter hydrograph time step (minutes):
5

UNIT HYDROGRAPH FOR BASIN: 132

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
0.	0.				
5.	0.				
10.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .00

INPUT DATA FOR SUB-BASIN: 132

Area= .41
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.15 XKSAT= .57RTIMP= .0
Lag Time = 71.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  230.          11.
  235.          11.
  240.          11.
  245.          11.
  250.          11.
  255.          11.
  260.          11.
  265.          11.
  270.          11.
  275.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 130
-----------------------------------------------------------------------
Area=   1.00
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 5.01  XKSAT=  .28RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  90.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
 (min.)     (cfs)       (min.)      (cfs)       (min.)      (cfs)

  210.          7.
  215.          7.
  220.          7.
  225.          7.
  230.          0.
  235.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 131A
-----------------------------------------------------------------------
Area=    .49
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 5.47  XKSAT=  .34RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  75.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	73.	90.	136.	160.	7.
25.	90.	95.	119.	165.	7.
30.	106.	100.	105.	170.	7.
35.	120.	105.	89.	175.	7.
40.	133.	110.	64.	180.	7.
45.	151.	115.	41.	185.	7.
50.	170.	120.	38.	190.	7.
55.	206.	125.	36.	195.	0.
60.	264.	130.	29.	200.	0.
65.	270.	135.	22.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 128

Area= .41
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.59 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 63.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	116.	90.	71.	160.	0.
25.	143.	95.	50.		
30.	164.	100.	47.		
35.	189.	105.	36.		
40.	222.	110.	28.		
45.	287.	115.	23.		
50.	360.	120.	9.		
55.	312.	125.	9.		
60.	259.	130.	9.		
65.	226.	135.	9.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 129

Area= .43
Rainfall distribution is 6-hour
IA= .42 DTHETA= .05 PSIF= 4.24 XKSAT= .48RTIMP= 4.0
Phoenix Valley S-graph was selected.
Lag Time = 50.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  230.          11.
  235.          11.
  240.          11.
  245.          11.
  250.          11.
  255.          11.
  260.          11.
  265.          11.
  270.          11.
  275.          11.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 126
-----------------------------------------------------------------------
Area=    .95
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.79  XKSAT=  .39RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  92.2 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


    5.          90.
   10.         276.
   15.         510.
   20.         430.
   25.         243.
   30.          91.
   35.          37.
   40.          15.
   45.           0.
   50.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=   .99
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 127
-----------------------------------------------------------------------
Area=    .22
Rainfall distribution is 6-hour
IA= .12  DTHETA= .18  PSIF= 7.17  XKSAT=  .15RTIMP= 20.0
Phoenix Valley S-graph was selected.
Lag Time =  14.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  230.          6.
  235.          6.
  240.          6.
  245.          6.
  250.          6.
  255.          6.
  260.          6.
  265.          6.
  270.          6.
  275.          6.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 124
-----------------------------------------------------------------------
Area=    .57
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 6.41  XKSAT=  .29RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  94.9 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


   20.         432.       90.          59.
   25.         517.       95.          26.
   30.         629.      100.          26.
   35.         845.      105.          26.
   40.        1065.      110.          26.
   45.         850.      115.          26.
   50.         700.      120.           0.
   55.         569.      125.           0.
   60.         463.
   65.         367.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 125
-----------------------------------------------------------------------
Area=   1.00
Rainfall distribution is 6-hour
IA= .35  DTHETA= .33  PSIF= 4.58  XKSAT=  .24RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  39.2 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  230.          10.
  235.          10.
  240.          10.
  245.          10.
  250.          10.
  255.          10.
  260.          10.
  265.          10.
  270.          10.
  275.          10.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 122
-----------------------------------------------------------------------
Area=    .89
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 5.83  XKSAT=  .32RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  92.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


   65.         222.      135.          36.      205.          6.
 UNIT HYDROGRAPH FOR BASIN:  123

  TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
 (min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

  210.          6.
  215.          6.
  220.          0.
  225.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 123
-----------------------------------------------------------------------
Area=    .44
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 6.21  XKSAT=  .30RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  72.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	89.	90.	166.	160.	8.
25.	109.	95.	147.	165.	8.
30.	129.	100.	129.	170.	8.
35.	146.	105.	109.	175.	8.
40.	161.	110.	80.	180.	8.
45.	183.	115.	52.	185.	8.
50.	205.	120.	46.	190.	8.
55.	248.	125.	43.	195.	0.
60.	317.	130.	37.	200.	0.
65.	331.	135.	26.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 121A

Area= .50
Rainfall distribution is 6-hour
IA= .46 DTHETA= .09 PSIF= 4.03 XKSAT= .57RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 63.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	90.	90.	165.	160.	8.
25.	110.	95.	145.	165.	8.
30.	130.	100.	127.	170.	8.
35.	147.	105.	107.	175.	8.
40.	163.	110.	77.	180.	8.
45.	185.	115.	49.	185.	8.
50.	209.	120.	46.	190.	0.
55.	253.	125.	44.	195.	0.
60.	325.	130.	35.		
65.	328.	135.	26.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 121

Area= .50
Rainfall distribution is 6-hour
IA= .46 DTHETA= .09 PSIF= 4.03 XKSAT= .57RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 63.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  210.          11.
  215.          11.
  220.          11.
  225.          11.
  230.          11.
  235.          11.
  240.          11.
  245.           0.
  250.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 119
-----------------------------------------------------------------------
Area=    .86
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 5.56  XKSAT=  .31RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  81.0 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  220.           6.
  225.           6.
  230.           6.
  235.           6.
  240.           6.
  245.           6.
  250.           6.
  255.           6.
  260.           0.
  265.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 120
-----------------------------------------------------------------------
Area=    .54
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 7.23  XKSAT=  .19RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  86.0 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 112
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	28.	90.	48.	160.	3.
25.	35.	95.	41.	165.	3.
30.	41.	100.	36.	170.	3.
35.	47.	105.	27.	175.	3.
40.	52.	110.	18.	180.	3.
45.	60.	115.	14.	185.	0.
50.	68.	120.	13.	190.	0.
55.	87.	125.	12.		
60.	104.	130.	8.		
65.	94.	135.	8.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 118

Area= .15
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.11 XKSAT= .37RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 61.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	6.
215.	6.
220.	6.
225.	6.
230.	6.
235.	6.
240.	6.
245.	6.
250.	0.
255.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 119A

Area= .47
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.91 XKSAT= .20RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 82.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	42.	90.	63.	160.	4.
25.	53.	95.	55.	165.	4.
30.	62.	100.	41.	170.	4.
35.	70.	105.	28.	175.	4.
40.	78.	110.	21.	180.	0.
45.	90.	115.	20.	185.	0.
50.	107.	120.	18.		
55.	138.	125.	12.		
60.	152.	130.	12.		
65.	124.	135.	8.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 117A

Area= .21
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.96 XKSAT= .25RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 59.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	83.	90.	122.	160.	7.
25.	104.	95.	107.	165.	7.
30.	121.	100.	80.	170.	7.
35.	136.	105.	55.	175.	7.
40.	154.	110.	41.	180.	0.
45.	176.	115.	39.	185.	0.
50.	209.	120.	34.		
55.	271.	125.	23.		
60.	296.	130.	23.		
65.	242.	135.	14.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 117

Area= .41
Rainfall distribution is 6-hour
IA= .35 DTHETA= .09 PSIF= 4.12 XKSAT= .37RTIMP= 8.0
Phoenix Valley S-graph was selected.
Lag Time = 59.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	7.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 115

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 7.04 XKSAT= .24RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 76.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	25.	300.	10.
235.	10.	305.	0.
[illegible].	10.	310.	0.
245.	10.		
250.	10.		
255.	10.		
260.	10.		
265.	10.		
270.	10.		
275.	10.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 116

Area= 1.02
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.44 XKSAT= .33RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 102.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	7.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 113

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 8.54 XKSAT= .11RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 75.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 114

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	5.				
215.	5.				
220.	5.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 114

Area= .38
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 8.35 XKSAT= .13RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 73.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	11.
235.	11.
[illegible].	11.
245.	11.
250.	11.
255.	11.
260.	11.
265.	11.
270.	11.
275.	11.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 112

Area= .97, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.65 XKSAT= .50RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 93.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
[illegible]					
210.	7.				
215.	7.				
220.	7.				
225.	7.				
230.	7.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 113A

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 7.93 XKSAT= .15RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 78.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 112

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	59.	90.	98.	160.	5.
25.	73.	95.	85.	165.	5.
30.	87.	100.	72.	170.	5.
35.	97.	105.	53.	175.	5.
40.	108.	110.	35.	180.	5.
45.	125.	115.	30.	185.	0.
50.	142.	120.	28.	190.	0.
55.	183.	125.	23.		
60.	219.	130.	17.		
65.	192.	135.	17.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 110

Area= .31
Rainfall distribution is 6-hour
IA= .46 DTHETA= .08 PSIF= 7.29 XKSAT= .18RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 61.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 100

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	129.	90.	99.	160.	0.
25.	160.	95.	58.		
30.	184.	100.	55.		
35.	211.	105.	50.		
40.	246.	110.	32.		
45.	304.	115.	32.		
50.	406.	120.	15.		
55.	374.	125.	10.		
60.	307.	130.	10.		
65.	266.	135.	10.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 111

Area= .50
Rainfall distribution is 6-hour
IA= .40 DTHETA= .21 PSIF= 5.55 XKSAT= .22RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 51.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 100

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  220.            9.
  225.            9.
  230.            9.
  235.            9.
  240.            9.
  245.            9.
  250.            9.
  255.            9.
  260.            0.
  265.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 108
-----------------------------------------------------------------------
Area=    .79
Rainfall distribution is 6-hour
IA= .44  DTHETA= .12  PSIF= 5.53  XKSAT=  .25RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  86.5 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 100
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  230.           10.
  235.           10.
  240.           10.
  245.           10.
  250.           10.
  255.           10.
  260.           10.
  265.           10.
  270.            0.
  275.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 109
-----------------------------------------------------------------------
Area=    .85
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.68  XKSAT=  .32RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  90.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 100
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	353.	90.	21.
25.	425.	95.	21.
30.	523.	100.	21.
35.	727.	105.	21.
40.	830.	110.	21.
45.	634.	115.	0.
50.	523.	120.	0.
55.	422.		
60.	338.		
65.	237.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 106

Area= .77
Rainfall distribution is 6-hour
IA= .35 DTHETA= .29 PSIF= 6.63 XKSAT= .16RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 37.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 100

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	8.				
215.	8.				
220.	8.				
225.	8.				
230.	8.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 107

Area= .60
Rainfall distribution is 6-hour
IA= .46 DTHETA= .08 PSIF= 5.65 XKSAT= .29RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 77.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 100

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  20.          242.
  25.          249.
  30.          169.
  35.          112.
  40.           50.
  45.           31.
  50.           14.
  55.            7.
  60.            7.
  65.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 104
-----------------------------------------------------------------------
Area=    .15
Rainfall distribution is 6-hour
IA= .35  DTHETA= .31  PSIF= 4.93  XKSAT=  .23RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  21.0 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 100
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  20.          295.
  25.          362.
  30.          246.
  35.          171.
  40.           88.
  45.           50.
  50.           28.
  55.           10.
  60.           10.
  65.           10.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 105
-----------------------------------------------------------------------
Area=    .21
Rainfall distribution is 6-hour
IA= .35  DTHETA= .27  PSIF= 7.68  XKSAT=  .10RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  22.0 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 100
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	57.	90.	3.
25.	70.	95.	3.
30.	97.	100.	3.
35.	122.	105.	0.
40.	94.	110.	0.
45.	75.		
50.	59.		
55.	45.		
60.	26.		
65.	17.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 102

Area= .10
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.05 XKSAT= .29RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 33.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 100

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	64.	90.	125.	160.	6.
25.	79.	95.	111.	165.	6.
30.	93.	100.	97.	170.	6.
35.	105.	105.	84.	175.	6.
40.	116.	110.	64.	180.	6.
45.	131.	115.	45.	185.	6.
50.	148.	120.	34.	190.	6.
55.	175.	125.	32.	195.	0.
60.	222.	130.	32.	200.	0.
65.	248.	135.	19.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 103

Area= .37
Rainfall distribution is 6-hour
IA= .46 DTHETA= .09 PSIF= 4.33 XKSAT= .29RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 64.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 100

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
   20.          165.
   25.          258.
   30.          205.
   35.          150.
   40.          106.
   45.           54.
   50.           34.
   55.           22.
   60.            7.
   65.            7.
-----------------------------------------------------------------------
         VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                   INPUT DATA FOR SUB-BASIN: 101
-----------------------------------------------------------------------
Area=    .16
Rainfall distribution is 6-hour
IA= .35  DTHETA= .32  PSIF= 3.61  XKSAT=  .26RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  24.5 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                  HEC-1 INPUT IS STORED IN FILE: 100
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


   20.          190.       90.          44.
   25.          228.       95.          40.
   30.          270.      100.          15.
   35.          327.      105.          12.
   40.          453.      110.          12.
   45.          484.      115.          12.
   50.          378.      120.          12.
   55.          319.      125.          12.
   60.          263.      130.           0.
   65.          218.      135.           0.
-----------------------------------------------------------------------
         VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                   INPUT DATA FOR SUB-BASIN: 102A
-----------------------------------------------------------------------
Area=    .51
Rainfall distribution is 6-hour
IA= .40  DTHETA= .20  PSIF= 6.05  XKSAT=  .21RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  42.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                  HEC-1 INPUT IS STORED IN FILE: 100
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	83.	90.	32.
25.	101.	95.	26.
30.	117.	100.	19.
35.	139.	105.	15.
40.	172.	110.	6.
45.	235.	115.	6.
50.	211.	120.	6.
55.	172.	125.	6.
60.	147.	130.	6.
65.	123.	135.	6.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 100

Area= .26, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.58 XKSAT= .28RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 46.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 100

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	72.	90.	15.
25.	85.	95.	9.
30.	102.	100.	5.
35.	127.	105.	5.
40.	179.	110.	5.
45.	163.	115.	5.
50.	130.	120.	5.
55.	109.	125.	0.
60.	90.	130.	0.
65.	73.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 100A

Area= .18
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.58 XKSAT= .28RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 41.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 100

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

PHASE 1
MCUHP 2 DATA
Feb 26, 1991

20.	133.
25.	203.
30.	208.
35.	151.
40.	111.
45.	75.
50.	37.
55.	26.
60.	16.
65.	6.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 46-1

Area= .15
Rainfall distribution is 24-hour, SCS Type II
IA= .19 DTHETA= .35 PSIF= 4.23 XKSAT= .39RTIMP= .6
Phoenix Valley S-graph was selected.
Lag Time = 26.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	265.	90.	104.
25.	322.	95.	94.
30.	373.	100.	61.
35.	441.	105.	61.
40.	539.	110.	19.
45.	741.	115.	19.
50.	706.	120.	19.
55.	567.	125.	19.
60.	488.	130.	19.
65.	409.	135.	19.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 46

Area= .85
Rainfall distribution is 24-hour, SCS Type II
IA= .19 DTHETA= .34 PSIF= 4.25 XKSAT= .45RTIMP= .4
Phoenix Valley S-graph was selected.
Lag Time = 47.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

5.	33.
10.	102.
15.	189.
20.	155.
25.	86.
30.	31.
35.	13.
40.	6.
45.	0.
50.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 45-1

Area= .08
Rainfall distribution is 24-hour, SCS Type II
IA= .21 DTHETA= .34 PSIF= 4.19 XKSAT= .38RTIMP= .6
Phoenix Valley S-graph was selected.
Lag Time = 14.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4C

EN 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	190.	90.	11.
25.	232.	95.	11.
30.	293.	100.	11.
35.	427.	105.	11.
40.	384.	110.	0.
45.	301.	115.	0.
50.	244.		
55.	194.		
60.	148.		
65.	82.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 45

Area= .38
Rainfall distribution is 24-hour, SCS Type II
IA= .17 DTHETA= .33 PSIF= 3.94 XKSAT= .34RTIMP= .2
Phoenix Valley S-graph was selected.
Lag Time = 36.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4C

E 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
0.	0.				
5.	25.				
10.	45.				
15.	7.				
20.	0.				
25.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .39

INPUT DATA FOR SUB-BASIN: 43

Area= .01, Point rainfall depth= 4.0, Reduction coefficient= 1.00
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.29 XKSAT= .41RTIMP= .6
Phoenix Valley S-graph was selected.
Lag Time = 6.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4C

EN 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	301.
25.	379.
30.	260.
35.	181.
40.	98.
45.	54.
50.	31.
55.	10.
60.	10.
65.	10.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 44

Area= .22
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.14 XKSAT= .37RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 22.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4C

EN 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
0.	0.				
5.	49.				
10.	90.				
15.	14.				
20.	0.				
25.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 43-7

Area= .02
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.25 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 6.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4B

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
0.	0.				
5.	36.				
10.	37.				
15.	4.				
20.	0.				
25.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 43-8

Area= .01
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.25 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 5.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4B

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
0.	0.				
5.	27.				
10.	79.				
15.	39.				
20.	8.				
25.	0.				
30.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 43-5

Area= .02
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.25 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 8.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4B

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
0.	0.				
5.	36.				
10.	87.				
15.	27.				
20.	4.				
25.	0.				
30.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 43-6

Area= .02
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.17 XKSAT= .38RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 7.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4B

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

	0.
5.	68.
10.	195.
15.	98.
20.	20.
25.	0.
30.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 43-3

Area= .05
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.30 XKSAT= .40RTIMP= .9
Phoenix Valley S-graph was selected.
Lag Time = 8.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

Stop - Program terminated.

C:\HYDRO\HEC1>

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
0.	0.				
5.	43.				
10.	121.				
15.	54.				
20.	10.				
25.	0.				
30.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 43-4

Area= .03, Point rainfall depth= 4.0, Reduction coefficient= 1.00
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.28 XKSAT= .41RTIMP= .8
Phoenix Valley S-graph was selected.
Lag Time = 7.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4B

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

0.	0.
5.	25.
10.	74.
15.	117.
20.	63.
25.	21.
30.	7.
35.	3.
40.	0.
45.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 43-1

Area= .04
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.29 XKSAT= .40RTIMP= .9
Phoenix Valley S-graph was selected.
Lag Time = 12.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

0.	0.
5.	9.
10.	28.
15.	27.
20.	10.
25.	2.
30.	1.
35.	0.
40.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 43-2

Area= .01
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 4.25 XKSAT= .42RTIMP= 1.3
Phoenix Valley S-graph was selected.
Lag Time = 10.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

	308.	90.	17.
25.	380.	95.	17.
30.	493.	100.	17.
35.	696.	105.	0.
40.	562.	110.	0.
45.	450.		
50.	357.		
55.	282.		
60.	193.		
65.	103.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 41

Area= .58, Point rainfall depth= 4.0, Reduction coefficient= 1.00
Rainfall distribution is 24-hour, SCS Type II
IA= .21 DTHETA= .34 PSIF= 4.24 XKSAT= .44RTIMP= .3
Phoenix Valley S-graph was selected.
Lag Time = 34.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	483.	90.	98.
25.	575.	95.	39.
30.	696.	100.	30.
35.	878.	105.	30.
40.	1223.	110.	30.
45.	1042.	115.	30.
50.	840.	120.	30.
55.	701.	125.	0.
60.	573.	130.	0.
65.	467.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 42

Area= 1.18
Rainfall distribution is 24-hour, SCS Type II
IA= .21 DTHETA= .32 PSIF= 4.21 XKSAT= .45RTIMP= .1
Phoenix Valley S-graph was selected.
Lag Time = 40.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

15.	244.
[illegible]	325.
25.	203.
30.	111.
35.	46.
40.	21.
45.	9.
50.	9.
55.	0.
60.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 41-1

Area= .15
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 3.78 XKSAT= .62RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 16.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

[illegible]	101.
[illegible]	169.
20.	216.
25.	133.
30.	69.
35.	30.
40.	13.
45.	6.
50.	0.
55.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 41-2

Area= .10
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .35 PSIF= 3.87 XKSAT= .58RTIMP= .3
Phoenix Valley S-graph was selected.
Lag Time = 16.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

(min.)	(cfs)	(min.)	(cfs)	(min.)	(cfs)
0.	0.				
5.	38.				
10.	112.				
15.	64.				
20.	14.				
25.	4.				
30.	0.				
35.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 41A3

Area= .03
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .31 PSIF= 3.64 XKSAT= .30RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 8.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

0.	0.
5.	44.
10.	136.
15.	137.
20.	51.
25.	14.
30.	5.
35.	0.
40.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 41A

Area= .05
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .34 PSIF= 4.01 XKSAT= .53RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 10.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
0.	0.				
5.	35.				
10.	87.				
15.	28.				
20.	4.				
25.	0.				
30.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 41A1

Area= .02
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .31 PSIF= 3.70 XKSAT= .31RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 7.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
0.	0.				
5.	46.				
10.	124.				
15.	51.				
20.	9.				
25.	0.				
30.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 41A2

Area= .03
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .34 PSIF= 3.91 XKSAT= .57RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 7.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	313.	90.	64.
[illegible]	372.	95.	29.
30.	450.	100.	20.
35.	565.	105.	20.
40.	791.	110.	20.
45.	683.	115.	20.
50.	550.	120.	20.
55.	460.	125.	0.
60.	376.	130.	0.
65.	308.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 39

Area= .77
Rainfall distribution is 24-hour, SCS Type II
IA= .15 DTHETA= .34 PSIF= 3.81 XKSAT= .63RTIMP= .2
Phoenix Valley S-graph was selected.
Lag Time = 40.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

[illegible]	562.
[illegible]	862.
30.	658.
35.	478.
40.	331.
45.	158.
50.	104.
55.	61.
60.	22.
65.	22.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 40

Area= .52
Rainfall distribution is 24-hour, SCS Type II
IA= .18 DTHETA= .34 PSIF= 3.54 XKSAT= .89RTIMP= 7.0
Phoenix Valley S-graph was selected.
Lag Time = 24.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	488.	90.	28.
[illegible]	598.	95.	28.
30.	764.	100.	28.
35.	1104.	105.	28.
40.	941.	110.	0.
45.	747.	115.	0.
50.	598.		
55.	475.		
60.	344.		
65.	190.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 37

Area= .95
Rainfall distribution is 24-hour, SCS Type II
IA= .19 DTHETA= .34 PSIF= 3.24 XKSAT= 1.08RTIMP= 8.4
Phoenix Valley S-graph was selected.
Lag Time = 35.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

[illegible]	770.
[illegible]	1209.
30.	983.
35.	720.
40.	513.
45.	270.
50.	168.
55.	103.
60.	36.
65.	32.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 38

Area= .76
Rainfall distribution is 24-hour, SCS Type II
IA= .17 DTHETA= .34 PSIF= 3.21 XKSAT= .97RTIMP= 4.5
Phoenix Valley S-graph was selected.
Lag Time = 24.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

	672.
25.	631.
30.	428.
35.	270.
40.	119.
45.	74.
50.	28.
55.	20.
60.	20.
65.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 35

Area= .39
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.21 XKSAT= 1.14RTIMP= 10.0
Phoenix Valley S-graph was selected.
Lag Time = 20.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	278.
25.	409.
30.	297.
35.	212.
40.	140.
45.	65.
50.	43.
55.	22.
60.	11.
65.	11.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 36

Area= .24
Rainfall distribution is 24-hour, SCS Type II
IA= .16 DTHETA= .34 PSIF= 2.38 XKSAT= 1.41RTIMP= 1.1
Phoenix Valley S-graph was selected.
Lag Time = 23.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

	888.
25.	1120.
30.	769.
35.	535.
40.	290.
45.	159.
50.	93.
55.	30.
60.	30.
65.	30.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 33

Area= .65
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.21 XKSAT= 1.14RTIMP= 10.0
Phoenix Valley S-graph was selected.
Lag Time = 22.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

	530.
25.	615.
30.	416.
35.	284.
40.	139.
45.	81.
50.	43.
55.	17.
60.	17.
65.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN 34

Area= .36
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.21 XKSAT= 1.14RTIMP= 10.0
Phoenix Valley S-graph was selected.
Lag Time = 21.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

[illegible]	299.	90.	52.
[illegible]	358.	95.	18.
30.	434.	100.	18.
35.	565.	105.	18.
40.	752.	110.	18.
45.	613.	115.	18.
50.	500.	120.	0.
55.	413.	125.	0.
60.	336.		
65.	268.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 31

Area= .71
Rainfall distribution is 24-hour, SCS Type II
IA= .19 DTHETA= .35 PSIF= 3.76 XKSAT= .68RTIMP= .2
Phoenix Valley S-graph was selected.
Lag Time = 39.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

[illegible]	738.	90.	40.
[illegible]	919.	95.	40.
30.	1268.	100.	0.
35.	1585.	105.	0.
40.	1202.		
45.	963.		
50.	753.		
55.	575.		
60.	317.		
65.	221.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 32

Area= 1.29
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.21 XKSAT= 1.14RTIMP= 10.0
Phoenix Valley S-graph was selected.
Lag Time = 33.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
                135.
45.              64.
50.              42.
55.              23.
60.              10.
65.              10.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                    INPUT DATA FOR SUB-BASIN: 29
-----------------------------------------------------------------------
Area=    .22
Rainfall distribution is 24-hour, SCS Type II
IA= .15  DTHETA= .35  PSIF= 3.52  XKSAT=  .78RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  23.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                  HEC-1 INPUT IS STORED IN FILE: WT4
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
1


    Enter the sub-basin name:

                257.
25.              400.
30.              380.
35.              277.
40.              203.
45.              132.
50.               63.
55.               45.
60.               26.
65.               11.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                    INPUT DATA FOR SUB-BASIN: 30
-----------------------------------------------------------------------
Area=    .28
Rainfall distribution is 24-hour, SCS Type II
IA= .15  DTHETA= .35  PSIF= 3.27  XKSAT=  .97RTIMP=   .2
Phoenix Valley S-graph was selected.
Lag Time =  25.9 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                  HEC-1 INPUT IS STORED IN FILE: WT4
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	567.	90.	31.
25.	705.	95.	31.
30.	970.	100.	0.
35.	1225.	105.	0.
40.	936.		
45.	750.		
50.	587.		
55.	450.		
60.	256.		
65.	172.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 27

Area= 1.00
Rainfall distribution is 24-hour, SCS Type II
IA= .15 DTHETA= .31 PSIF= 4.27 XKSAT= .4BRTIMP= .3
Phoenix Valley S-graph was selected.
Lag Time = 33.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

EN[illegible]1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	392.	90.	24.
25.	470.	95.	23.
30.	578.	100.	23.
35.	798.	105.	23.
40.	929.	110.	23.
45.	711.	115.	0.
50.	587.	120.	0.
55.	473.		
60.	381.		
65.	272.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 28

Area= .86
Rainfall distribution is 24-hour, SCS Type II
IA= .15 DTHETA= .35 PSIF= 4.02 XKSAT= .52RTIMP= .1
Phoenix Valley S-graph was selected.
Lag Time = 38.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

EN[illegible]1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	327.	90.	0.
25.	437.	95.	0.
30.	640.		
35.	505.		
40.	389.		
45.	295.		
50.	207.		
55.	106.		
60.	80.		
65.	53.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 25

Area= .46
Rainfall distribution is 24-hour, SCS Type II
IA= .15 DTHETA= .31 PSIF= 4.27 XKSAT= .49RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 29.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

EN 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	532.	90.	32.
25.	639.	95.	32.
30.	787.	100.	32.
35.	1092.	105.	32.
40.	1251.	110.	32.
45.	956.	115.	0.
50.	788.	120.	0.
55.	637.		
60.	510.		
65.	359.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 26

Area= 1.16
Rainfall distribution is 24-hour, SCS Type II
IA= .17 DTHETA= .30 PSIF= 3.97 XKSAT= .68RTIMP= 3.1
Phoenix Valley S-graph was selected.
Lag Time = 37.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

EN 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

15.	471.
20.	228.
25.	68.
30.	20.
35.	0.
40.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN 23

Area= .16
Rainfall distribution is 24-hour, SCS Type II
IA= .18 DTHETA= .32 PSIF= 4.04 XKSAT= .65RTIMP= 10.6
Phoenix Valley S-graph was selected.
Lag Time = 11.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
1

Enter the sub-basin name:

20.	193.
25.	241.
30.	165.
35.	115.
40.	61.
45.	34.
50.	20.
55.	7.
60.	7.
65.	7.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 24

Area= .14
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .31 PSIF= 3.77 XKSAT= .31RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 22.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	640.
25.	862.
30.	603.
35.	424.
40.	253.
45.	126.
50.	79.
55.	30.
60.	23.
65.	23.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 22A

Area= .50
Rainfall distribution is 24-hour, SCS Type II
IA= .15 DTHETA= .29 PSIF= 3.74 XKSAT= .29RTIMP= 1.0
Phoenix Valley S-graph was selected.
Lag Time = 22.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	563.
25.	888.
30.	745.
35.	546.
40.	395.
45.	215.
50.	129.
55.	79.
60.	34.
65.	24.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 22

Area= .57
Rainfall distribution is 24-hour, SCS Type II
IA= .19 DTHETA= .33 PSIF= 3.38 XKSAT= 1.03RTIMP= 7.4
Phoenix Valley S-graph was selected.
Lag Time = 25.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	721.	90.	35.
[illegible]	938.	95.	0.
30.	1414.	100.	0.
35.	1211.		
40.	931.		
45.	714.		
50.	535.		
55.	286.		
60.	200.		
65.	132.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 20

Area= 1.07
Rainfall distribution is 24-hour, SCS Type II
IA= .19 DTHETA= .33 PSIF= 3.33 XKSAT= 1.05RTIMP= 8.4
Phoenix Valley S-graph was selected.
Lag Time = 30.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

[illegible]	491.	90.	26.
[illegible]	623.	95.	0.
30.	915.	100.	0.
35.	948.		
40.	711.		
45.	558.		
50.	430.		
55.	291.		
60.	149.		
65.	124.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 21

Area= .79
Rainfall distribution is 24-hour, SCS Type II
IA= .19 DTHETA= .31 PSIF= 3.81 XKSAT= .78RTIMP= 4.7
Phoenix Valley S-graph was selected.
Lag Time = 31.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

15.	1128.
20.	1731.
25.	1159.
30.	722.
35.	301.
40.	171.
45.	49.
50.	47.
55.	0.
60.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 18

Area= .81, Point rainfall depth= 4.0, Reduction coefficient= 1.00
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.25 XKSAT= 1.12RTIMP= 9.5
Phoenix Valley S-graph was selected.
Lag Time = 17.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	496.	90.	26.
25.	632.	95.	0.
30.	936.	100.	0.
35.	940.		
40.	708.		
45.	553.		
50.	427.		
55.	278.		
60.	147.		
65.	120.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 19

Area= .79
Rainfall distribution is 24-hour, SCS Type II
IA= .19 DTHETA= .33 PSIF= 3.31 XKSAT= 1.07RTIMP= 8.7
Phoenix Valley S-graph was selected.
Lag Time = 31.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT4

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

25.	902.	95.	0.
30.	1357.	100.	0.
35.	1236.		
40.	944.		
45.	731.		
50.	552.		
55.	323.		
60.	199.		
65.	145.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 17

Area= 1.07, Point rainfall depth= 4.0, Reduction coefficient= 1.00
Rainfall distribution is 24-hour, SCS Type II
IA= .19 DTHETA= .33 PSIF= 4.04 XKSAT= .54RTIMP= .1
Phoenix Valley S-graph was selected.
Lag Time = 30.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3B

Stop Program terminated.

C:\HYDRO\HEC1)

20.	175.	90.	36.
25.	207.	95.	23.
30.	249.	100.	11.
35.	308.	105.	11.
40.	436.	110.	11.
45.	399.	115.	11.
50.	318.	120.	11.
55.	267.	125.	0.
60.	220.	130.	0.
65.	179.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: WT3

Area= .44, Point rainfall depth= 4.0, Reduction coefficient= 1.00
Rainfall distribution is 24-hour, SCS Type II
IA= .35 DTHETA= .32 PSIF= 3.91 XKSAT= .33RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 41.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3B

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	747.	90.	40.
25.	938.	95.	40.
30.	1321.	100.	0.
35.	1552.	105.	0.
40.	1156.		
45.	920.		
50.	713.		
55.	519.		
60.	277.		
65.	217.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 15

Area= 1.26
Rainfall distribution is 24-hour, SCS Type II
IA= .18 DTHETA= .33 PSIF= 3.58 XKSAT= .86RTIMP= 6.4
Phoenix Valley S-graph was selected.
Lag Time = 32.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	652.	90.	35.
25.	814.	95.	35.
30.	1126.	100.	0.
35.	1393.	105.	0.
40.	1049.		
45.	839.		
50.	655.		
55.	497.		
60.	268.		
65.	194.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 16

Area= 1.13
Rainfall distribution is 24-hour, SCS Type II
IA= .17 DTHETA= .32 PSIF= 4.08 XKSAT= .41RTIMP= 11.1
Phoenix Valley S-graph was selected.
Lag Time = 33.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	639.	90.	37.
25.	774.	95.	37.
30.	973.	100.	37.
35.	1416.	105.	37.
40.	1333.	110.	0.
45.	1039.	115.	0.
50.	847.		
55.	674.		
60.	527.		
65.	303.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 13

Area= 1.30
Rainfall distribution is 24-hour, SCS Type II
IA= .15 DTHETA= .33 PSIF= 4.14 XKSAT= .51RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 36.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

EN 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	1019.	90.	0.
25.	1341.	95.	0.
30.	1998.		
35.	1636.		
40.	1264.		
45.	961.		
50.	699.		
55.	362.		
60.	274.		
65.	166.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 14

Area= 1.47
Rainfall distribution is 24-hour, SCS Type II
IA= .20 DTHETA= .34 PSIF= 3.24 XKSAT= 1.12RTIMP= 9.0
Phoenix Valley S-graph was selected.
Lag Time = 29.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: WT3A

EN 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	233.	90.	12.
25.	303.	95.	0.
[illegible].	457.	100.	0.
35.	398.		
40.	306.		
45.	235.		
50.	177.		
55.	98.		
60.	65.		
65.	45.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 215

Area= .35
Rainfall distribution is 6-hour
IA= .35 DTHETA= .34 PSIF= 3.71 XKSAT= .31RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 30.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	88.	90.	172.	160.	8.
25.	108.	95.	154.	165.	8.
30.	128.	100.	134.	170.	8.
35.	145.	105.	117.	175.	8.
40.	160.	110.	89.	180.	8.
45.	180.	115.	63.	185.	8.
50.	203.	120.	47.	190.	8.
55.	240.	125.	44.	195.	0.
60.	304.	130.	43.	200.	0.
65.	342.	135.	27.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 216

Area= .51, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .46 DTHETA= .09 PSIF= 4.21 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 65.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 216

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	271.	90.	14.
25.	341.	95.	14.
30.	487.	100.	0.
35.	551.	105.	0.
40.	410.		
45.	325.		
50.	252.		
55.	178.		
60.	95.		
65.	77.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 215A

Area= .45
Rainfall distribution is 6-hour
IA= .35 DTHETA= .33 PSIF= 3.94 XKSAT= .34RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 32.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 217

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 217

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.19 XKSAT= .38RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 73.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

220.	12.
225.	12.
[illegible].	12.
235.	12.
240.	12.
245.	12.
250.	12.
255.	12.
260.	0.
265.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 218

Area= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.20 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 86.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME [illegible].)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	7.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 219

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.21 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 76.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	7.				
230.	7.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 220

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.13 XKSAT= .41RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 78.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

(min.)	(cfs)	(min.)	(cfs)	(min.)	(cfs)
[illegible].	6.				
215.	6.				
220.	6.				
225.	6.				
230.	6.				
235.	6.				
240.	0.				
245.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 221

Area= .48
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.53 XKSAT= .48RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 79.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	4.
235.	4.
[illegible]0.	4.
245.	4.
250.	4.
255.	4.
260.	4.
265.	4.
270.	0.
275.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 221A

Area= .31
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.66 XKSAT= .53RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 88.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	34.	300.	10.
235.	34.	305.	10.
[illegible].	34.	310.	10.
245.	24.	315.	10.
250.	10.	320.	10.
255.	10.	325.	0.
260.	10.	330.	0.
265.	10.		
270.	10.		
275.	10.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 222

Area= 1.10
Rainfall distribution is 6-hour
IA= .31 DTHETA= .35 PSIF= 3.59 XKSAT= .29RTIMP= 15.0
Phoenix Valley S-graph was selected.
Lag Time = 108.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	643.	90.	37.
25.	786.	95.	37.
30.	1003.	100.	37.
35.	1453.	105.	37.
40.	1254.	110.	0.
45.	993.	115.	0.
50.	797.		
55.	634.		
60.	465.		
65.	257.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 223

Area= 1.26
Rainfall distribution is 6-hour
IA= .12 DTHETA= .33 PSIF= 5.09 XKSAT= .20RTIMP= 72.0
Phoenix Valley S-graph was selected.
Lag Time = 35.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	606.	90.	0.
25.	833.	95.	0.
30.	1145.		
35.	854.		
40.	655.		
45.	492.		
50.	310.		
55.	163.		
60.	121.		
65.	79.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 224

Area= .80
Rainfall distribution is 6-hour
IA= .35 DTHETA= .32 PSIF= 4.03 XKSAT= .25RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 28.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	206.	90.	12.
25.	250.	95.	12.
30.	311.	100.	12.
35.	448.	105.	12.
40.	450.	110.	12.
45.	347.	115.	0.
50.	284.	120.	0.
55.	227.		
60.	179.		
65.	112.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 225

Area= .43
Rainfall distribution is 6-hour
IA= .30 DTHETA= .33 PSIF= 3.63 XKSAT= .31RTIMP= 4.0
Phoenix Valley S-graph was selected.
Lag Time = 36.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	70.	90.	18.
25.	84.	95.	15.
30.	99.	100.	7.
35.	119.	105.	5.
40.	163.	110.	5.
45.	182.	115.	5.
50.	142.	120.	5.
55.	120.	125.	5.
60.	99.	130.	0.
65.	82.	135.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 244

Area= .19, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.69 XKSAT= .43RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 43.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 244

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

15.	414.
20.	654.
[illegible].	451.
30.	288.
35.	123.
40.	69.
45.	24.
50.	18.
55.	0.
60.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 244A

Area= .31
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.08 XKSAT= .36RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 18.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	5.
215.	5.
220.	5.
225.	5.
230.	5.
235.	5.
240.	5.
245.	5.
250.	0.
255.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 245

Area= .40
Rainfall distribution is 6-hour
IA= .47 DTHETA= .07 PSIF= 3.88 XKSAT= .89RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 82.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	316.	90.	55.
25.	378.	95.	19.
30.	458.	100.	19.
35.	595.	105.	19.
40.	794.	110.	19.
45.	648.	115.	19.
50.	529.	120.	0.
55.	436.	125.	0.
60.	355.		
65.	284.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 246

Area= .75
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.22 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 39.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	827.	90.	0.
25.	1094.	95.	0.
30.	1619.		
35.	1306.		
40.	1008.		
45.	765.		
50.	549.		
55.	283.		
60.	214.		
65.	134.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 226

Area= 1.18
Rainfall distribution is 6-hour
IA= .15 DTHETA= .26 PSIF= 3.53 XKSAT= .34RTIMP= 17.0
Phoenix Valley S-graph was selected.
Lag Time = 29.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  20.          294.
  25.          397.
  30.          277.
  35.          195.
  40.          117.
  45.           58.
  50.           36.
  55.           14.
  60.           10.
  65.           10.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 227
-----------------------------------------------------------------------
Area=    .23, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .32  DTHETA= .34  PSIF= 3.77  XKSAT=  .33RTIMP=  3.0
Phoenix Valley S-graph was selected.
Lag Time =  22.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 227
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  10.          86.
  15.         150.
  20.         170.
  25.         102.
  30.          47.
  35.          22.
  40.           7.
  45.           5.
  50.           0.
  55.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN 228A
-----------------------------------------------------------------------
Area=    .08, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .35  DTHETA= .35  PSIF= 4.23  XKSAT=  .44RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  16.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 228A
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	224.	90.	0.
25.	319.		
[illegible].	402.		
35.	293.		
40.	222.		
45.	164.		
50.	91.		
55.	57.		
60.	37.		
65.	20.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 228

Area= .28
Rainfall distribution is 6-hour
IA= .35 DTHETA= .36 PSIF= 3.58 XKSAT= .29RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 27.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	805.
25.	853.
[illegible].	577.
35.	387.
40.	174.
45.	107.
50.	51.
55.	25.
60.	25.
65.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 229

Area= .51
Rainfall distribution is 6-hour
IA= .33 DTHETA= .34 PSIF= 4.11 XKSAT= .37RTIMP= 2.0
Phoenix Valley S-graph was selected.
Lag Time = 21.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  20.          31.       90.          0.
  25.          43.
  30.          57.
  35.          43.
  40.          33.
  45.          24.
  50.          15.
  55.           8.
  60.           6.
  65.           4.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN 230
-----------------------------------------------------------------------
Area=    .04
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.55  XKSAT=  .47RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  28.4 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 230A
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  15.          293.
  20.          390.
  25.          243.
  30.          133.
  35.           55.
  40.           25.
  45.           11.
  50.           11.
  55.            0.
  60.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 230A
-----------------------------------------------------------------------
Area=    .18, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .35  DTHETA= .35  PSIF= 4.03  XKSAT=  .36RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  16.9 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 230A
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	186.	90.	10.
25.	230.	95.	10.
30.	299.	100.	10.
35.	422.	105.	0.
40.	339.	110.	0.
45.	271.		
50.	215.		
55.	170.		
60.	115.		
65.	61.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 231

Area= .35
Rainfall distribution is 6-hour
IA= .37 DTHETA= .31 PSIF= 3.61 XKSAT= .79RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 34.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	565.	90.	30.
25.	713.	95.	30.
[illegible]0.	1028.	100.	0.
35.	1134.	105.	0.
40.	844.		
45.	667.		
50.	517.		
55.	361.		
60.	190.		
65.	154.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 232

Area= .93
Rainfall distribution is 6-hour
IA= .35 DTHETA= .33 PSIF= 4.08 XKSAT= .36RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 32.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	267.	90.	15.
25.	331.	95.	15.
[illegible]0.	430.	100.	15.
35.	604.	105.	0.
40.	483.	110.	0.
45.	386.		
50.	306.		
55.	242.		
60.	163.		
65.	86.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 233

Area= .50
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.22 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 34.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	7.
[illegible].	7.
220.	7.
225.	7.
230.	7.
235.	7.
240.	7.
245.	0.
250.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 234

Area= .53
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.25 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 81.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	6.
215.	6.
[illegible].	6.
225.	6.
230.	6.
235.	6.
240.	6.
245.	6.
250.	0.
255.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 235

Area= .47
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.27 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 82.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	6.
[illegible].	6.
[illegible].	6.
225.	6.
230.	6.
235.	6.
240.	6.
245.	6.

```
 230.          12.
 235.          12.
 [illegible].  12.
 245.          12.
 250.          12.
 255.          12.
 260.          12.
 265.          12.
 270.           0.
 275.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 236
-----------------------------------------------------------------------
Area=   1.00
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.88  XKSAT=  .45RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  89.5 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 207
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


 220.           6.
 225.           6.
 [illegible].   6.
 235.           6.
 240.           6.
 245.           6.
 250.           6.
 255.           6.
 260.           0.
 265.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 237
-----------------------------------------------------------------------
Area=    .50
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.61  XKSAT=  .46RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  85.4 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 207
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
 210.          6.
 215.          6.
 220.          6.
 225.          6.
 230.          6.
 235.          6.
 240.          6.
 245.          0.
 250.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 238
-----------------------------------------------------------------------
Area=    .50, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.52  XKSAT=  .47RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  80.9 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 238
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	6.				
220.	6.				
225.	6.				
230.	6.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 239

Area= .48
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.56 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 77.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

55.	151.	125.	41.	195.	6.
60.	180.	130.	34.	200.	6.
[illegible].	225.	135.	32.	205.	6.

UNIT HYDROGRAPH FOR BASIN: 240

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	0.				
215.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 240

Area= .40
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.59 XKSAT= .48RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 70.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	682.	90.	50.
25.	817.	95.	41.
30.	1005.	100.	41.
35.	1376.	105.	41.
40.	1635.	110.	41.
45.	1253.	115.	0.
50.	1036.	120.	0.
55.	834.		
60.	673.		
65.	488.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 241

Area= 1.51
Rainfall distribution is 6-hour
IA= .38 DTHETA= .28 PSIF= 4.04 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 38.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	342.	90.	141.
25.	419.	95.	132.
30.	482.	100.	92.
35.	568.	105.	80.
40.	680.	110.	49.
45.	927.	115.	25.
50.	974.	120.	25.
55.	774.	125.	25.
60.	661.	130.	25.
65.	564.	135.	25.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 242

Area= 1.14
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 3.76 XKSAT= .31RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 47.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

5.	42.
10.	128.
15.	232.
20.	165.
25.	81.
30.	30.
35.	10.
40.	7.
45.	0.
50.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 242A

Area= .09
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.25 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 13.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
   20.          148.       90.            8.
   25.          188.       95.            8.
   30.          276.      100.            0.
   35.          289.      105.            0.
   40.          216.
   45.          170.
   50.          131.
   55.           89.
   60.           46.
   65.           38.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 243
-----------------------------------------------------------------------
Area=    .24, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .40  DTHETA= .22  PSIF= 4.30  XKSAT=  .26RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  31.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 243
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


   20.          148.       90.            8.
   25.          188.       95.            8.
   30.          276.      100.            0.
   35.          289.      105.            0.
   40.          216.
   45.          170.
   50.          131.
   55.           89.
   60.           46.
   65.           38.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 243
-----------------------------------------------------------------------
Area=    .24, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .40  DTHETA= .22  PSIF= 4.30  XKSAT=  .26RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  31.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 243
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	118.	90.	7.
25.	147.	95.	7.
[illegible].	192.	100.	7.
35.	268.	105.	0.
40.	211.	110.	0.
45.	169.		
50.	134.		
55.	106.		
60.	69.		
65.	38.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 243A

Area= .22
Rainfall distribution is 6-hour
IA= .37 DTHETA= .15 PSIF= 4.14 XKSAT= .39RTIMP= 5.0
Phoenix Valley S-graph was selected.
Lag Time = 34.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	18.	90.	15.	160.	0.
25.	22.	95.	9.	165.	0.
[illegible].	25.	100.	8.		
35.	29.	105.	7.		
40.	34.	110.	5.		
45.	41.	115.	4.		
50.	55.	120.	3.		
55.	53.	125.	1.		
60.	43.	130.	1.		
65.	38.	135.	1.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 243B

Area= .07
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.04 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 52.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

(min.)	(cfs)	(min.)	(cfs)	(min.)	(cfs)
0.	6.				
215.	6.				
220.	6.				
225.	6.				
230.	6.				
235.	6.				
240.	0.				
245.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 247

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.21 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 79.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	11.				
235.	11.				
0.	11.				
245.	11.				
250.	11.				
255.	11.				
260.	11.				
265.	11.				
270.	11.				
275.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 248

Area= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.22 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 90.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	11.
235.	11.
[illegible].	11.
245.	11.
250.	11.
255.	11.
260.	11.
265.	11.
270.	0.
275.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 249

Area= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.98 XKSAT= .48RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 89.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
[illegible]10.	6.				
215.	6.				
220.	6.				
225.	6.				
230.	6.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 250

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.73 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 78.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

215.	6.
220.	6.
225.	6.
230.	6.
235.	6.
240.	6.
245.	6.
250.	6.
255.	0.
260.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 250A

Area= .51
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.59 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 84.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 207

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	6.
215.	6.
220.	6.
225.	6.
230.	6.
235.	6.
240.	6.
245.	0.
250.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 251

Area= .50, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.53 XKSAT= .48RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 80.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
 210.          6.
 215.          6.
 220.          6.
 225.          6.
 230.          6.
 235.          6.
 240.          6.
 245.          0.
 250.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 252
-----------------------------------------------------------------------
Area=    .50
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.45  XKSAT=  .40RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  81.5 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 251
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


 210.         13.
 215.         13.
 220.         13.
 225.         13.
 230.         13.
 235.         13.
 240.         13.
 245.          0.
 250.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 253
-----------------------------------------------------------------------
Area=   1.00
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.82  XKSAT=  .43RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  81.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 251
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	179.	90.	0.
25.	239.	95.	0.
30.	349.		
35.	274.		
40.	211.		
45.	160.		
50.	111.		
55.	57.		
60.	43.		
65.	29.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 253A

Area= .25
Rainfall distribution is 6-hour
IA= .32 DTHETA= .33 PSIF= 4.04 XKSAT= .37RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 29.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	190.	90.	72.
25.	230.	95.	58.
30.	267.	100.	43.
35.	317.	105.	33.
40.	394.	110.	13.
45.	538.	115.	13.
50.	478.	120.	13.
55.	389.	125.	13.
60.	334.	130.	13.
65.	279.	135.	13.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 254

Area= .59
Rainfall distribution is 6-hour
IA= .40 DTHETA= .15 PSIF= 3.67 XKSAT= .35RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 46.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

10.	248.
15.	444.
20.	456.
25.	271.
30.	115.
35.	56.
40.	15.
45.	14.
50.	0.
55.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 254A

Area= .22
Rainfall distribution is 6-hour
IA= .12 DTHETA= .19 PSIF= 5.82 XKSAT= .21RTIMP= 20.0
Phoenix Valley S-graph was selected.
Lag Time = 15.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	1293.
25.	1621.
30.	1109.
35.	772.
40.	412.
45.	228.
50.	132.
55.	44.
60.	44.
65.	44.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 255

Area= .94
Rainfall distribution is 6-hour
IA= .15 DTHETA= .22 PSIF= 3.88 XKSAT= .29RTIMP= 12.0
Phoenix Valley S-graph was selected.
Lag Time = 22.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 256

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	6.				
220.	6.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 256

Area= .43
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.84 XKSAT= .30RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 73.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	4.				
235.	4.				
[illegible]	4.				
245.	4.				
250.	4.				
255.	4.				
260.	4.				
265.	4.				
270.	4.				
275.	4.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 257

Area= .34
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.82 XKSAT= .24RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 96.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	198.	90.	11.
25.	243.	95.	11.
30.	313.	100.	11.
35.	449.	105.	0.
40.	373.	110.	0.
45.	297.		
50.	237.		
55.	187.		
60.	133.		
65.	72.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 258

Area= .38
Rainfall distribution is 6-hour
IA= .37 DTHETA= .29 PSIF= 3.99 XKSAT= .58RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 35.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	119.
25.	187.
30.	157.
35.	115.
40.	83.
45.	45.
50.	27.
55.	16.
60.	7.
65.	5.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 258A

Area= .12
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.22 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 25.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	119.
25.	187.
30.	157.
35.	115.
40.	83.
45.	45.
50.	27.
55.	16.

20.	328.
25.	330.
30.	224.
35.	146.
40.	65.
45.	40.
50.	18.
55.	10.
60.	10.
65.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 259

Area= .20
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 3.93 XKSAT= .59RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 20.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	352.	90.	0.
25.	467.	95.	0.
30.	689.		
35.	552.		
40.	426.		
45.	323.		
50.	230.		
55.	119.		
60.	90.		
65.	57.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 260

Area= .50
Rainfall distribution is 6-hour
IA= .30 DTHETA= .33 PSIF= 4.13 XKSAT= .49RTIMP= 4.0
Phoenix Valley S-graph was selected.
Lag Time = 29.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	5.
215.	5.
220.	5.
225.	5.
230.	5.
235.	5.
240.	5.
245.	5.
250.	0.
255.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 261

Area= .41
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.87 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 82.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

220.	12.
225.	12.
230.	12.
235.	12.
240.	12.
245.	12.
250.	12.
255.	12.
260.	0.
265.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 262

Area= 1.03
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.68 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 86.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	7.				
225.	7.				
230.	7.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 263

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.78 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 77.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

65.	254.	135.	41.	205.	7.

UNIT HYDROGRAPH FOR BASIN: 264

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	7.				
220.	0.				
225.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 264

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.80 XKSAT= .52RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 72.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	2.
235.	2.
[illegible].	2.
245.	2.
250.	2.
255.	2.
260.	2.
265.	2.
270.	2.
275.	2.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 265

Area= .22
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.83 XKSAT= .50RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 95.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	13.				
215.	13.				
220.	13.				
225.	13.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 265A

Area= .95
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.58 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 76.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	4.
235.	4.
240.	4.
245.	4.
250.	4.
255.	4.
260.	4.
265.	4.
270.	4.
275.	4.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 266

Area= .33
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 95.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	6.
215.	6.
220.	6.
225.	6.
230.	6.
235.	6.
240.	6.
245.	0.
250.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 267

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.36 XKSAT= .36RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 81.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

225.	11.
230.	11.
235.	11.
240.	11.
245.	11.
250.	11.
255.	11.
260.	11.
265.	0.
270.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 268

Area= .95
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.00 XKSAT= .38RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 87.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

55.	253.	125.	64.	195.	10.
60.	303.	130.	56.	200.	10.
65.	380.	135.	52.	205.	10.

UNIT HYDROGRAPH FOR BASIN: 269

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	0.				
215.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 269

Area= .66
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.44 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 69.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	307.
25.	481.
[illegible].	387.
35.	283.
40.	201.
45.	104.
50.	65.
55.	41.
60.	13.
65.	13.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 270

Area= .30
Rainfall distribution is 6-hour
IA= .16 DTHETA= .22 PSIF= 3.58 XKSAT= .38RTIMP= 18.0
Phoenix Valley S-graph was selected.
Lag Time = 24.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

225.	7.
[illegible].	7.
[illegible].	7.
240.	7.
245.	7.
250.	7.
255.	7.
260.	7.
265.	0.
270.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 271

Area= .57
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.47 XKSAT= .30RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 87.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 251

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	2.
235.	2.
240.	2.
245.	2.
250.	2.
255.	2.
260.	2.
265.	2.
270.	2.
275.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 271A

Area= .16, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.93 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 91.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 271A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	29.	90.	48.	160.	3.
25.	35.	95.	41.	165.	3.
30.	42.	100.	35.	170.	3.
35.	47.	105.	26.	175.	3.
40.	52.	110.	17.	180.	3.
45.	60.	115.	14.	185.	0.
50.	68.	120.	14.	190.	0.
55.	88.	125.	11.		
60.	105.	130.	8.		
65.	93.	135.	8.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 271B

Area= .15
Rainfall distribution is 6-hour
IA= .46 DTHETA= .11 PSIF= 3.61 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 61.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 271A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
   20.          297.
   25.          296.
   30.          201.
   35.          131.
   40.           58.
   45.           36.
   50.           15.
   55.            9.
   60.            9.
   65.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 271C
-----------------------------------------------------------------------
Area=    .18
Rainfall distribution is 6-hour
IA= .35  DTHETA= .35  PSIF= 3.90  XKSAT=  .34RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  20.9 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 271A
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  20.          276.
  25.          345.
  30.          235.
  35.          164.
  40.           87.
  45.           48.
  50.           28.
  55.            9.
  60.            9.
  65.            9.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 272
-----------------------------------------------------------------------
Area=    .20
Rainfall distribution is 6-hour
IA= .35  DTHETA= .35  PSIF= 3.88  XKSAT=  .62RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  22.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 271A
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  20.          373.       90.          20.
  25.          466.       95.          20.
  30.          643.      100.           0.
  35.          800.      105.           0.
  40.          605.
  45.          484.
  50.          378.
  55.          289.
  60.          156.
  65.          112.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 273
-----------------------------------------------------------------------
Area=    .65
Rainfall distribution is 6-hour
IA= .33  DTHETA= .34  PSIF= 4.25  XKSAT=  .40RTIMP=  2.0
Phoenix Valley S-graph was selected.
Lag Time =  33.2 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 271A
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

230.	21.	300.	6.
235.	20.	305.	6.
240.	6.	310.	6.
245.	6.	315.	0.
250.	6.	320.	0.
255.	6.		
260.	6.		
265.	6.		
270.	6.		
275.	6.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 274

Area= .66
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.29 XKSAT= .50RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 104.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 271A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	57.	90.	3.
25.	69.	95.	3.
30.	89.	100.	3.
35.	128.	105.	3.
40.	109.	110.	0.
45.	86.	115.	0.
50.	69.		
55.	55.		
60.	40.		
65.	22.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 275

Area= .11, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.84 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 35.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 275

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
 55.          101.      125.          23.      195.          4.
 60.          122.      130.          22.      200.          4.
 65.          153.      135.          21.      205.          4.
IT HYDROGRAPH FOR BASIN:  276

 TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
(min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

 210.           0.
 215.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 276
-----------------------------------------------------------------------
Area=    .26
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.08  XKSAT=  .45RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  69.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 275
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


 TIME     DISCHARGE      TIME     DISCHARGE      TIME     DISCHARGE
(min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

0.           12.
 215.        12.
 220.        12.
 225.        12.
 230.        12.
 235.         0.
 240.         0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 277
-----------------------------------------------------------------------
Area=    .91
Rainfall distribution is 6-hour
IA= .43  DTHETA= .09  PSIF= 3.60  XKSAT=  .42RTIMP=  2.0
Phoenix Valley S-graph was selected.
Lag Time =  77.6 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 275
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  230.          11.
  235.          11.
  240.          11.
  245.          11.
  250.          11.
  255.          11.
  260.          11.
  265.          11.
  270.          11.
  275.          11.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 278
-----------------------------------------------------------------------
Area=   1.00
Rainfall distribution is 6-hour
IA= .42  DTHETA= .13  PSIF= 3.55  XKSAT=  .39RTIMP=  2.0
Phoenix Valley S-graph was selected.
Lag Time =  92.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 275
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


   20.          56.
   25.          84.
   30.          63.
   35.          45.
   40.          30.
   45.          14.
   50.           9.
   55.           5.
   60.           2.
   65.           2.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 279
-----------------------------------------------------------------------
Area=    .05
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.96  XKSAT=  .42RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  23.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 275
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

```
  20.          44.       90.          2.
  25.          55.       95.          0.
  30.          81.      100.          0.
  35.          84.
  40.          63.
  45.          49.
  50.          38.
  55.          26.
  60.          13.
  65.          11.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN 279A
-----------------------------------------------------------------------
Area=    .07
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.53  XKSAT=  .47RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  31.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 275
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


  20.          33.
  25.          50.
  30.          38.
  35.          27.
  40.          19.
  45.           9.
  50.           6.
  55.           3.
  60.           1.
  65.           1.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN 279B
-----------------------------------------------------------------------
Area=    .03
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.60  XKSAT=  .46RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  24.0 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 275
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	51.
25.	80.
0.	64.
35.	47.
40.	33.
45.	17.
50.	11.
55.	7.
60.	2.
65.	2.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 279C

Area= .05, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.57 XKSAT= .37RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 24.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	35.
25.	32.
0.	22.
35.	14.
40.	6.
45.	4.
50.	1.
55.	1.
60.	1.
65.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 279D

Area= .02
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.56 XKSAT= .50RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 20.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	7.
235.	7.
240.	7.
245.	7.
250.	7.
255.	7.
260.	7.
265.	7.
270.	7.
275.	7.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 280

Area= .61
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.62 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 94.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	15.	90.	13.	160.	0.
25.	18.	95.	9.	165.	0.
30.	21.	100.	7.		
35.	24.	105.	6.		
40.	28.	110.	5.		
45.	34.	115.	4.		
50.	45.	120.	3.		
55.	47.	125.	1.		
60.	38.	130.	1.		
65.	32.	135.	1.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 280A

Area= .06
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.68 XKSAT= .48RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 53.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	10.
235.	10.
[illegible]0.	10.
245.	10.
250.	10.
255.	10.
260.	10.
265.	10.
270.	0.
275.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 281

Area= .85
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.58 XKSAT= .48RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 89.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	81.	90.	4.
25.	106.	95.	0.
[illegible]	159.	100.	0.
35.	136.		
40.	104.		
45.	80.		
50.	60.		
55.	32.		
60.	22.		
65.	15.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 282

Area= .12
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.58 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 30.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
 (min.)      (cfs)       (min.)      (cfs)       (min.)      (cfs)

  0.           2.
 215.          2.
 220.          2.
 225.          2.
 230.          2.
 235.          2.
 240.          0.
 245.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 283
-----------------------------------------------------------------------
Area=    .16
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.52  XKSAT=  .47RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  79.2 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 279C
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


 210.          7.
  .            7.
 220.          7.
 225.          7.
 230.          7.
 235.          7.
 240.          7.
 245.          0.
 250.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 284
-----------------------------------------------------------------------
Area=    .52
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.56  XKSAT=  .46RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  81.8 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 279C
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	32.	90.	0.
25.	46.		
[illegible].	58.		
35.	42.		
40.	32.		
45.	23.		
50.	12.		
55.	8.		
60.	5.		
65.	3.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 285

Area= .04
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 27.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	43.	90.	0.
25.	57.	95.	0.
[illegible]	84.		
35.	66.		
40.	51.		
45.	38.		
50.	27.		
55.	14.		
60.	10.		
65.	7.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 285A

Area= .06
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 29.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	47.	90.	0.
25.	65.		
0.	86.		
35.	63.		
40.	48.		
45.	36.		
50.	21.		
55.	12.		
60.	9.		
65.	5.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 285B

Area= .06
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 28.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

(min.)	(cfs)	(min.)	(cfs)	(min.)	(cfs)
.	9.				
215.	9.				
220.	9.				
225.	9.				
230.	9.				
235.	9.				
240.	0.				
245.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 286

Area= .70
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.06 XKSAT= .37RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 79.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	63.	90.	36.	160.	0.
25.	77.	95.	27.		
[illegible].	89.	100.	25.		
35.	103.	105.	18.		
40.	121.	110.	15.		
45.	158.	115.	11.		
50.	194.	120.	5.		
55.	165.	125.	5.		
60.	138.	130.	5.		
65.	120.	135.	5.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 287

Area= .23
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.77 XKSAT= .38RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 50.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	68.	90.	102.	160.	6.
25.	86.	95.	90.	165.	6.
[illegible].	100.	100.	67.	170.	6.
35.	112.	105.	47.	175.	6.
40.	127.	110.	34.	180.	0.
45.	145.	115.	32.	185.	0.
50.	172.	120.	29.		
55.	222.	125.	19.		
60.	246.	130.	19.		
65.	202.	135.	13.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 287A

Area= .34
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 7.63 XKSAT= .18RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 59.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 279C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	46.	90.	3.
25.	55.	95.	3.
[illegible].	68.	100.	3.
35.	95.	105.	3.
40.	108.	110.	3.
45.	82.	115.	0.
50.	68.	120.	0.
55.	55.		
60.	44.		
65.	31.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 287B

Area= .10, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.82 XKSAT= .26RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 37.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 287B

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	67.	90.	28.
25.	82.	95.	26.
30.	94.	100.	21.
35.	111.	105.	16.
40.	131.	110.	13.
45.	176.	115.	5.
50.	199.	120.	5.
55.	159.	125.	5.
60.	135.	130.	5.
65.	116.	135.	5.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 287C

Area= .23, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 9.74 XKSAT= .09RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 48.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 287C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	67.	90.	28.
25.	82.	95.	27.
30.	94.	100.	22.
35.	110.	105.	16.
40.	130.	110.	14.
45.	174.	115.	5.
50.	200.	120.	5.
55.	159.	125.	5.
60.	135.	130.	5.
65.	117.	135.	5.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 287D

Area= .23
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.26 XKSAT= .30RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 48.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 287C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	67.	90.	24.
25.	81.	95.	17.
30.	94.	100.	15.
35.	112.	105.	7.
40.	145.	110.	5.
45.	187.	115.	5.
50.	158.	120.	5.
55.	130.	125.	5.
60.	111.	130.	5.
65.	92.	135.	5.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 287E

Area= .20
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.69 XKSAT= .54RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 45.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 287C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

225.	3.
230.	3.
235.	3.
240.	3.
245.	3.
250.	3.
255.	3.
260.	3.
265.	0.
270.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 288

Area= .22
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 7.50 XKSAT= .19RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 87.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 287C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
 230.          9.
 235.          9.
 [illegible].  9.
 245.          9.
 250.          9.
 255.          9.
 260.          9.
 265.          9.
 270.          9.
 275.          9.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 288A
-----------------------------------------------------------------------
Area=    .83
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 8.48  XKSAT=  .12RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  93.7 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 287C
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


 230.          3.
 235.          3.
 [illegible].  3.
 245.          3.
 250.          3.
 255.          3.
 260.          3.
 265.          3.
 270.          3.
 275.          3.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 288B
-----------------------------------------------------------------------
Area=    .26
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 7.90  XKSAT=  .16RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  96.5 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 287C
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

230.	46.	300.	8.	370.	8.
235.	46.	305.	8.	375.	8.
240.	46.	310.	8.	380.	8.
245.	43.	315.	8.	385.	0.
250.	43.	320.	8.	390.	0.
255.	43.	325.	8.		
260.	34.	330.	8.		
265.	26.	335.	8.		
270.	26.	340.	8.		
275.	26.	345.	8.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 289

Area= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 7.20 XKSAT= .21RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 128.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 287C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	6.
215.	6.
220.	6.
225.	6.
230.	6.
235.	6.
240.	6.
245.	6.
250.	0.
255.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 289A

Area= .50
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.63 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 82.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 287C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	143.	90.	105.	160.	0.
25.	177.	95.	63.		
[illegible]	204.	100.	60.		
35.	234.	105.	53.		
40.	272.	110.	36.		
45.	338.	115.	36.		
50.	452.	120.	14.		
55.	410.	125.	11.		
60.	336.	130.	11.		
65.	292.	135.	11.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 290

Area= .55
Rainfall distribution is 6-hour
IA= .47 DTHETA= .07 PSIF= 4.26 XKSAT= .65RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 51.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 287C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	11.
235.	11.
[illegible]	11.
245.	11.
250.	11.
255.	11.
260.	11.
265.	11.
270.	0.
275.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 291

Area= .99
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.01 XKSAT= .94RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 90.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 287C

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	446.	90.	26.
25.	537.	95.	26.
[illegible]	663.	100.	26.
35.	932.	105.	26.
40.	1030.	110.	26.
45.	785.	115.	0.
50.	647.	120.	0.
55.	521.		
60.	419.		
65.	284.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 292

Area= .96, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .30 DTHETA= .27 PSIF= 3.78 XKSAT= .36RTIMP= 6.0
Phoenix Valley S-graph was selected.
Lag Time = 37.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	191.	90.	164.	160.	0.
25.	239.	95.	105.	165.	0.
[illegible]	276.	100.	85.		
35.	314.	105.	81.		
40.	366.	110.	55.		
45.	442.	115.	49.		
50.	591.	120.	36.		
55.	593.	125.	15.		
60.	480.	130.	15.		
65.	413.	135.	15.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 293

Area= .77
Rainfall distribution is 6-hour
IA= .44 DTHETA= .07 PSIF= 3.74 XKSAT= .37RTIMP= 2.0
Phoenix Valley S-graph was selected.
Lag Time = 52.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	29.	90.	6.
25.	34.	95.	3.
[illegible]	41.	100.	2.
35.	51.	105.	2.
40.	72.	110.	2.
45.	62.	115.	2.
50.	50.	120.	2.
55.	42.	125.	0.
60.	34.	130.	0.
65.	28.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 293A

Area= .07
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 40.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	272.
25.	306.
[illegible]	206.
35.	140.
40.	67.
45.	39.
50.	20.
55.	9.
60.	9.
65.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 294

Area= .18
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 3.54 XKSAT= .28RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 21.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	275.
25.	425.
[illegible]	331.
35.	242.
40.	169.
45.	83.
50.	54.
55.	33.
60.	11.
65.	11.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 294A

Area= .26
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 3.58 XKSAT= .29RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 24.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	277.
25.	423.
[illegible]	429.
35.	311.
40.	228.
45.	154.
50.	75.
55.	54.
60.	33.
65.	12.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 295

Area= .31
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 3.51 XKSAT= .28RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 26.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

5.	25.
10.	75.
[illegible]	140.
20.	117.
25.	66.
30.	25.
35.	10.
40.	4.
45.	0.
50.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 295A

Area= .06
Rainfall distribution is 6-hour
IA= .32 DTHETA= .34 PSIF= 3.54 XKSAT= .30RTIMP= 3.0
Phoenix Valley S-graph was selected.
Lag Time = 14.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

60.	340.	130.	67.	200.	12.
65.	422.	135.	66.	205.	12.

[illegible]HYDROGRAPH FOR BASIN: 296

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	12.				
215.	0.				
220.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 296

Area= .81
Rainfall distribution is 6-hour
IA= .49 DTHETA= .02 PSIF= 3.55 XKSAT= .43RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 71.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

(min.)	(cfs)	(min.)	(cfs)	(min.)	(cfs)
[illegible].	5.				
215.	5.				
220.	5.				
225.	5.				
230.	5.				
235.	5.				
240.	0.				
245.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 297

Area= .38
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 80.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	48.	90.	89.	160.	4.
25.	59.	95.	78.	165.	4.
[illegible]	70.	100.	69.	170.	4.
35.	79.	105.	58.	175.	4.
40.	88.	110.	42.	180.	4.
45.	100.	115.	26.	185.	4.
50.	112.	120.	25.	190.	0.
55.	136.	125.	23.	195.	0.
60.	175.	130.	19.		
65.	178.	135.	14.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 297A

Area= .27
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 63.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

60.	360.	130.	70.	200.	12.
65.	445.	135.	68.	205.	12.

HYDROGRAPH FOR BASIN: 298

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	12.				
215.	0.				
220.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 298

Area= .84
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.53 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 71.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

60.	166.	130.	33.	200.	6.
65.	207.	135.	33.	205.	6.

HYDROGRAPH FOR BASIN: 299

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	0.				
220.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 299

Area= .40
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.62 XKSAT= .40RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 71.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	80.	90.	114.	160.	7.
25.	101.	95.	97.	165.	7.
[illegible].	118.	100.	72.	170.	7.
[illegible].	132.	105.	46.	175.	0.
40.	150.	110.	39.	180.	0.
45.	172.	115.	37.		
50.	208.	120.	29.		
55.	271.	125.	22.		
60.	278.	130.	22.		
65.	227.	135.	9.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 300

Area= .39
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.36 XKSAT= .30RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 58.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

15.	424.
20.	644.
[illegible]	427.
[illegible].	263.
35.	110.
40.	61.
45.	17.
50.	17.
55.	0.
60.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 301

Area= .30
Rainfall distribution is 6-hour
IA= .24 DTHETA= .28 PSIF= 5.79 XKSAT= .23RTIMP= 10.0
Phoenix Valley S-graph was selected.
Lag Time = 17.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	271.
25.	238.
[illegible]	161.
35.	99.
40.	43.
45.	26.
50.	8.
55.	8.
60.	8.
65.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 302

Area= .15
Rainfall distribution is 6-hour
IA= .30 DTHETA= .33 PSIF= 3.54 XKSAT= .30RTIMP= 4.0
Phoenix Valley S-graph was selected.
Lag Time = 20.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	332.	90.	187.	160.	0.
25.	407.	95.	141.		
[illegible]	470.	100.	133.		
35.	543.	105.	92.		
40.	636.	110.	81.		
45.	835.	115.	54.		
50.	1022.	120.	25.		
55.	868.	125.	25.		
60.	725.	130.	25.		
65.	631.	135.	25.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 303

Area= 1.21
Rainfall distribution is 6-hour
IA= .35 DTHETA= .34 PSIF= 4.19 XKSAT= .39RTIMP= .4
Phoenix Valley S-graph was selected.
Lag Time = 50.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	400.
25.	629.
[illegible]	559.
35.	409.
40.	297.
45.	178.
50.	95.
55.	63.
60.	32.
65.	17.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 303A

Area= .42
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.08 XKSAT= .36RTIMP= .1
Phoenix Valley S-graph was selected.
Lag Time = 25.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	724.	90.	37.
25.	938.	95.	0.
[illegible]	1412.	100.	0.
35.	1262.		
40.	968.		
45.	745.		
50.	562.		
55.	322.		
60.	205.		
65.	145.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 304

Area= 1.10
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.09 XKSAT= .36RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 30.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

65.	470.	135.	76.	205.	13.

UNIT HYDROGRAPH FOR BASIN: 305

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	13.				
215.	13.				
220.	0.				
225.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 305

Area= .92
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.25 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 72.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	80.	90.	169.	160.	8.
25.	100.	95.	150.	165.	8.
[illegible]	119.	100.	132.	170.	8.
35.	136.	105.	118.	175.	8.
40.	149.	110.	94.	180.	8.
45.	167.	115.	70.	185.	8.
50.	189.	120.	44.	190.	8.
55.	218.	125.	43.	195.	8.
60.	275.	130.	41.	200.	0.
65.	325.	135.	33.	205.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 306

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.67 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 66.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	78.	90.	18.
25.	94.	95.	17.
[illegible]	111.	100.	6.
35.	135.	105.	5.
40.	188.	110.	5.
45.	199.	115.	5.
50.	155.	120.	5.
55.	131.	125.	5.
60.	108.	130.	0.
65.	89.	135.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 307

Area= .21
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.59 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 42.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	69.	90.	90.	160.	6.
25.	89.	95.	69.	165.	6.
[illegible]	102.	100.	47.	170.	0.
35.	115.	105.	34.	175.	0.
40.	132.	110.	32.		
45.	151.	115.	27.		
50.	194.	120.	19.		
55.	241.	125.	19.		
60.	217.	130.	10.		
65.	181.	135.	6.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 308

Area= .32
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 56.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	13.
215.	13.
[illegible]	13.
225.	13.
230.	13.
235.	13.
240.	13.
245.	13.
250.	0.
255.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 309

Area= 1.07
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.57 XKSAT= .44RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 83.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	59.	90.	23.
[illegible]	71.	95.	22.
[illegible]	82.	100.	14.
35.	97.	105.	14.
40.	118.	110.	6.
45.	162.	115.	4.
50.	159.	120.	4.
55.	128.	125.	4.
60.	109.	130.	4.
65.	92.	135.	4.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 310

Area= .19
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.76 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 47.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	8.
235.	8.
[illegible]	8.
245.	8.
250.	8.
255.	8.
260.	8.
265.	8.
270.	8.
275.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 311

Area= .73
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.75 XKSAT= .44RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 91.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	55.	90.	104.	160.	5.
25.	67.	95.	92.	165.	5.
[illegible]	79.	100.	80.	170.	5.
35.	89.	105.	69.	175.	5.
40.	99.	110.	51.	180.	5.
45.	112.	115.	35.	185.	5.
50.	125.	120.	29.	190.	5.
55.	151.	125.	27.	195.	0.
60.	192.	130.	25.	200.	0.
65.	207.	135.	16.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 311A

Area= .31
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.09 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 64.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	8.
[illegible].	8.
220.	8.
225.	8.
230.	8.
235.	8.
240.	8.
245.	0.
250.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 312

Area= .66
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.60 XKSAT= .44RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 80.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

215.	5.
220.	5.
[illegible]	5.
230.	5.
235.	5.
240.	5.
245.	5.
250.	5.
255.	0.
260.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 313

Area= .43
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 85.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

60.	176.	130.	35.	200.	6.
65.	219.	135.	34.	205.	6.

HYDROGRAPH FOR BASIN: 314

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	0.				
220.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 314

Area= .42
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 71.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

225.	6.
230.	6.
[illegible]	6.
240.	6.
245.	6.
250.	6.
255.	6.
260.	6.
265.	0.
270.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 315

Area= .47
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.56 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 87.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

215.	10.
220.	10.
[illegible].	10.
230.	10.
235.	10.
240.	10.
245.	10.
250.	10.
255.	0.
260.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 316

Area= .82
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.57 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 84.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

220.	7.
225.	7.
[illegible].	7.
235.	7.
240.	7.
245.	7.
250.	7.
255.	7.
260.	0.
265.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 317

Area= .57
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.52 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 85.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	181.	90.	76.
25.	222.	95.	71.
[illegible].	254.	100.	58.
35.	299.	105.	43.
40.	354.	110.	36.
45.	475.	115.	13.
50.	537.	120.	13.
55.	428.	125.	13.
60.	363.	130.	13.
65.	313.	135.	13.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 318

Area= .62
Rainfall distribution is 6-hour
IA= .27 DTHETA= .14 PSIF= 3.66 XKSAT= .39RTIMP= 12.0
Phoenix Valley S-graph was selected.
Lag Time = 48.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	225.	90.	44.
25.	268.	95.	14.
[illegible].	324.	100.	14.
35.	414.	105.	14.
40.	570.	110.	14.
45.	471.	115.	14.
50.	383.	120.	0.
55.	317.	125.	0.
60.	259.		
65.	208.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 319

Area= .54
Rainfall distribution is 6-hour
IA= .23 DTHETA= .18 PSIF= 3.50 XKSAT= .40RTIMP= 14.0
Phoenix Valley S-graph was selected.
Lag Time = 40.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	349.	90.	19.
25.	434.	95.	19.
[illegible]	575.	100.	19.
35.	780.	105.	0.
40.	610.	110.	0.
45.	489.		
50.	386.		
55.	301.		
60.	191.		
65.	110.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 320

Area= .64
Rainfall distribution is 6-hour
IA= .22 DTHETA= .30 PSIF= 4.27 XKSAT= .48RTIMP= 14.5
Phoenix Valley S-graph was selected.
Lag Time = 34.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	1193.
25.	1047.
[illegible]	707.
35.	432.
40.	188.
45.	116.
50.	34.
55.	34.
60.	34.
65.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 321

Area= .66
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.24 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 20.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	55.	90.	118.	160.	5.
25.	69.	95.	105.	165.	5.
[illegible].	82.	100.	92.	170.	5.
35.	94.	105.	82.	175.	5.
40.	103.	110.	68.	180.	5.
45.	115.	115.	50.	185.	5.
50.	130.	120.	31.	190.	5.
55.	149.	125.	30.	195.	5.
60.	190.	130.	28.	200.	0.
65.	224.	135.	24.	205.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 322

Area= .34
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.13 XKSAT= .41RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 66.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	109.	90.	0.
25.	148.	95.	0.
[illegible].	212.		
35.	163.		
40.	125.		
45.	94.		
50.	64.		
55.	32.		
60.	25.		
65.	17.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 323

Area= .15
Rainfall distribution is 6-hour
IA= .38 DTHETA= .28 PSIF= 3.95 XKSAT= .36RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 29.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	65.	90.	119.	160.	6.
25.	80.	95.	105.	165.	6.
[illegible]	94.	100.	92.	170.	6.
35.	106.	105.	77.	175.	6.
40.	118.	110.	55.	180.	6.
45.	134.	115.	34.	185.	6.
50.	151.	120.	33.	190.	0.
55.	183.	125.	31.	195.	0.
60.	235.	130.	25.		
65.	236.	135.	19.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 324

Area= .36
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.90 XKSAT= .44RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 63.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	6.
235.	6.
[illegible]	6.
245.	6.
250.	6.
255.	6.
260.	6.
265.	6.
270.	0.
275.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 325

Area= .49
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.12 XKSAT= .41RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 89.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	8.				
215.	8.				
220.	8.				
225.	8.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 325A

Area= .61
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.84 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 76.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

65. 269. 135. 44. 205. 8.

UNIT HYDROGRAPH FOR BASIN: 326

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	8.				
215.	8.				
220.	0.				
225.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 326

Area= .54
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.69 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 73.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

60.	231.	130.	45.	200.	8.
65.	287.	135.	43.	205.	8.

HYDROGRAPH FOR BASIN: 327

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	8.				
215.	0.				
220.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 327

Area= .53
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 70.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	111.	90.	275.	160.	11.
25.	144.	95.	241.	165.	11.
[illegible]	177.	100.	217.	170.	11.
35.	198.	105.	189.	175.	11.
40.	218.	110.	168.	180.	11.
45.	242.	115.	130.	185.	11.
50.	274.	120.	96.	190.	11.
55.	305.	125.	66.	195.	11.
60.	380.	130.	64.	200.	11.
65.	468.	135.	62.	205.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 328

Area= .76
Rainfall distribution is 6-hour
IA= .46 DTHETA= .09 PSIF= 3.56 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 68.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	129.	90.	184.	160.	11.
25.	163.	95.	158.	165.	11.
[illegible]	190.	100.	117.	170.	11.
35.	213.	105.	76.	175.	0.
40.	241.	110.	63.	180.	0.
45.	277.	115.	60.		
50.	334.	120.	47.		
55.	435.	125.	36.		
60.	449.	130.	36.		
65.	368.	135.	15.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 329

Area= .63
Rainfall distribution is 6-hour
IA= .43 DTHETA= .07 PSIF= 3.62 XKSAT= .44RTIMP= 3.0
Phoenix Valley S-graph was selected.
Lag Time = 58.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	118.	90.	178.	160.	10.
25.	148.	95.	157.	165.	10.
[illegible]	173.	100.	118.	170.	10.
35.	194.	105.	83.	175.	10.
40.	219.	110.	59.	180.	0.
45.	251.	115.	56.	185.	0.
50.	295.	120.	52.		
55.	381.	125.	33.		
60.	427.	130.	33.		
65.	351.	135.	24.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN 330

Area= .59
Rainfall distribution is 6-hour
IA= .39 DTHETA= .08 PSIF= 3.59 XKSAT= .43RTIMP= 6.0
Phoenix Valley S-graph was selected.
Lag Time = 59.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	10.				
215.	10.				
220.	10.				
225.	10.				
230.	10.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 331

Area= .75
Rainfall distribution is 6-hour
IA= .46 DTHETA= .02 PSIF= 3.55 XKSAT= .46RTIMP= 2.0
Phoenix Valley S-graph was selected.
Lag Time = 77.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	7.
215.	7.
[illegible]	7.
225.	7.
230.	7.
235.	7.
240.	7.
245.	7.
250.	0.
255.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 332

Area= .56
Rainfall distribution is 6-hour
IA= .46 DTHETA= .03 PSIF= .37 XKSAT= .44RTIMP= 2.0
Phoenix Valley S-graph was selected.
Lag Time = 82.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 333

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	8.				
215.	8.				
220.	8.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 333

Area= .58
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 74.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

65. 327. 135. 53. 205. 9.

UNIT HYDROGRAPH FOR BASIN: 334

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	9.				
215.	9.				
220.	0.				
225.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 334

Area= .64
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.57 XKSAT= .43RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 72.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	61.	90.	117.	160.	6.
25.	75.	95.	104.	165.	6.
[illegible]	89.	100.	91.	170.	6.
35.	100.	105.	78.	175.	6.
40.	111.	110.	59.	180.	6.
45.	126.	115.	40.	185.	6.
50.	141.	120.	32.	190.	6.
55.	169.	125.	30.	195.	0.
60.	214.	130.	29.	200.	0.
65.	234.	135.	18.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 335

Area= .35
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.39 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 64.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	93.	300.	20.	370.	10.
235.	63.	305.	10.	375.	10.
[illegible]	57.	310.	10.	380.	10.
245.	57.	315.	10.	385.	10.
250.	56.	320.	10.	390.	10.
255.	53.	325.	10.	395.	10.
260.	53.	330.	10.	400.	0.
265.	53.	335.	10.	405.	0.
270.	40.	340.	10.		
275.	32.	345.	10.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 336

Area= 1.28
Rainfall distribution is 6-hour
IA= .43 DTHETA= .05 PSIF= 3.50 XKSAT= .43RTIMP= 13.5
Phoenix Valley S-graph was selected.
Lag Time = 133.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	27.	300.	9.	370.	3.
235.	26.	305.	8.	375.	3.
[illegible].	18.	310.	3.	380.	3.
245.	16.	315.	3.	385.	3.
250.	16.	320.	3.	390.	3.
255.	16.	325.	3.	395.	3.
260.	15.	330.	3.	400.	3.
265.	15.	335.	3.	405.	3.
270.	15.	340.	3.	410.	0.
275.	12.	345.	3.	415.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 336A

Area= .37
Rainfall distribution is 6-hour
IA= .51 DTHETA= .02 PSIF= 3.86 XKSAT= .44RTIMP= 2.0
Phoenix Valley S-graph was selected.
Lag Time = 136.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

(min.)	(cfs)	(min.)	(cfs)	(min.)	(cfs)
[illegible]	0.				
5.	83.				
10.	262.				
15.	198.				
20.	57.				
25.	13.				
30.	0.				
35.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= .99

INPUT DATA FOR SUB-BASIN: 336B

Area= .08
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 4.07 XKSAT= .36RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 9.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	519.
25.	803.
[illegible]	624.
35.	455.
40.	319.
45.	156.
50.	101.
55.	61.
60.	21.
65.	21.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 337

Area= .49
Rainfall distribution is 6-hour
IA= .19 DTHETA= .30 PSIF= 3.60 XKSAT= .33RTIMP= 23.5
Phoenix Valley S-graph was selected.
Lag Time = 24.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	97.	90.	38.
25.	118.	95.	34.
[illegible]	136.	100.	22.
35.	161.	105.	22.
40.	197.	110.	7.
45.	270.	115.	7.
50.	257.	120.	7.
55.	207.	125.	7.
60.	178.	130.	7.
65.	149.	135.	7.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 338

Area= .31
Rainfall distribution is 6-hour
IA= .49 DTHETA= .03 PSIF= 4.17 XKSAT= .67RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 47.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	472.	90.	25.
25.	597.	95.	25.
[illegible].	868.	100.	0.
35.	933.	105.	0.
40.	697.		
45.	549.		
50.	424.		
55.	292.		
60.	152.		
65.	125.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 338A

Area= .77
Rainfall distribution is 6-hour
IA= .24 DTHETA= .29 PSIF= 3.88 XKSAT= .70RTIMP= 10.0
Phoenix Valley S-graph was selected.
Lag Time = 32.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

215.	12.
220.	12.
[illegible].	12.
230.	12.
235.	12.
240.	12.
245.	12.
250.	12.
255.	0.
260.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 339

Area= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.08 XKSAT= .41RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 84.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

60.	212.	130.	41.	200.	7.
65.	264.	135.	39.	205.	7.

HYDROGRAPH FOR BASIN: 340

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	7.				
215.	0.				
220.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 340

Area= .48
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.06 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 70.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	10.				
215.	10.				
220.	10.				
225.	10.				
230.	10.				
235.	0.				
240.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 341

Area= .79, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.77 XKSAT= .48RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 78.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 341

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	76.	90.	120.	160.	7.
25.	95.	95.	105.	165.	7.
[illegible]	112.	100.	86.	170.	7.
35.	125.	105.	61.	175.	7.
40.	141.	110.	39.	180.	0.
45.	161.	115.	37.	185.	0.
50.	187.	120.	36.		
55.	240.	125.	24.		
60.	283.	130.	22.		
65.	236.	135.	21.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 342

Area= .39
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.13 XKSAT= .39RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 60.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	5.
[illegible]	5.
220.	5.
225.	5.
230.	5.
235.	5.
240.	5.
245.	0.
250.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 342A

Area= .38
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.64 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 81.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	6.
[illegible].	6.
220.	6.
225.	6.
230.	6.
235.	6.
240.	6.
245.	0.
250.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 343

Area= .51
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.68 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 81.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	7.
235.	7.
[illegible].	7.
245.	7.
250.	7.
255.	7.
260.	7.
265.	7.
270.	7.
275.	7.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 344

Area= .61
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.54 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 92.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

65.	209.	135.	35.	205.	6.

UNIT HYDROGRAPH FOR BASIN: 345

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	6.				
220.	0.				
225.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 345

Area= .43
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.71 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 73.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	111.	90.	142.	160.	9.
25.	143.	95.	106.	165.	9.
[illegible]	165.	100.	71.	170.	0.
35.	185.	105.	54.	175.	0.
40.	213.	110.	50.		
45.	244.	115.	41.		
50.	319.	120.	31.		
55.	386.	125.	31.		
60.	342.	130.	12.		
65.	287.	135.	9.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 346

Area= .51
Rainfall distribution is 6-hour
IA= .45 DTHETA= .12 PSIF= 3.74 XKSAT= .41RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 56.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

65.	78.	135.	13.	205.	2.

UNIT HYDROGRAPH FOR BASIN: 346A

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	2.				
215.	2.				
220.	0.				
225.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 346A

Area= .16
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.67 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 73.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 292

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

225.	3.
230.	3.
[illegible].	3.
240.	3.
245.	3.
250.	3.
255.	3.
260.	3.
265.	0.
270.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 346B

Area= .27, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.83 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 88.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 346B

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	55.	90.	3.
25.	66.	95.	3.
[illegible].	82.	100.	3.
35.	113.	105.	3.
40.	129.	110.	3.
45.	99.	115.	0.
50.	81.	120.	0.
55.	66.		
60.	53.		
65.	37.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 346C

Area= .12
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.64 XKSAT= .50RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 37.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 346B

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	14.				
215.	14.				
220.	14.				
225.	14.				
230.	0.				
235.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 347

Area= 1.02, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .46 DTHETA= .03 PSIF= 3.76 XKSAT= .44RTIMP= 2.0
Phoenix Valley S-graph was selected.
Lag Time = 76.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	71.	90.	98.	160.	6.
25.	90.	95.	83.	165.	6.
[illegible].	104.	100.	60.	170.	6.
35.	117.	105.	37.	175.	0.
40.	133.	110.	34.	180.	0.
45.	153.	115.	33.		
50.	187.	120.	22.		
55.	244.	125.	20.		
60.	239.	130.	18.		
65.	196.	135.	6.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 348

Area= .34
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.70 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 57.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	81.	90.	20.
25.	97.	95.	17.
[illegible]	115.	100.	8.
35.	138.	105.	5.
40.	190.	110.	5.
45.	211.	115.	5.
50.	164.	120.	5.
55.	138.	125.	5.
60.	114.	130.	0.
65.	95.	135.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 348A

Area= .22
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.62 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 43.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	7.
235.	7.
[illegible]	7.
245.	7.
250.	7.
255.	7.
260.	7.
265.	7.
270.	7.
275.	7.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 348B

Area= .66
Rainfall distribution is 6-hour
IA= .49 DTHETA= .04 PSIF= 3.59 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 94.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  65.          476.       135.          77.       205.          13.
UNIT HYDROGRAPH FOR BASIN:  349

 TIME     DISCHARGE     TIME     DISCHARGE     TIME     DISCHARGE
(min.)     (cfs)       (min.)     (cfs)       (min.)     (cfs)

 210.          13.
 215.          13.
 220.           0.
 225.           0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                 INPUT DATA FOR SUB-BASIN 349
-----------------------------------------------------------------------
Area=    .93
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.82  XKSAT=  .44RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  72.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                HEC-1 INPUT IS STORED IN FILE: 347
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


 230.           2.
 235.           2.
 240.           2.
 245.           2.
 250.           2.
 255.           2.
 260.           2.
 265.           2.
 270.           2.
 275.           2.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                 INPUT DATA FOR SUB-BASIN 350
-----------------------------------------------------------------------
Area=    .19
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.57  XKSAT=  .47RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  93.6 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                HEC-1 INPUT IS STORED IN FILE: 347
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

20.	142.	90.	245.	160.	13.
25.	175.	95.	212.	165.	13.
[illegible]	207.	100.	186.	170.	13.
35.	232.	105.	141.	175.	13.
40.	259.	110.	98.	180.	13.
45.	296.	115.	73.	185.	13.
50.	334.	120.	69.	190.	0.
55.	428.	125.	65.	195.	0.
60.	520.	130.	41.		
65.	480.	135.	41.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 351

Area= .76
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.82 XKSAT= .43RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 62.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	38.	90.	51.	160.	3.
25.	49.	95.	42.	165.	3.
[illegible]	56.	100.	29.	170.	3.
35.	63.	105.	19.	175.	0.
40.	72.	110.	18.	180.	0.
45.	83.	115.	17.		
50.	102.	120.	11.		
55.	134.	125.	11.		
60.	124.	130.	8.		
65.	103.	135.	3.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 352

Area= .18
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.56 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 57.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 352A

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	2.				
215.	2.				
220.	2.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 352A

Area= .13
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.79 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 75.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	46.	90.	64.	160.	4.
25.	58.	95.	54.	165.	4.
[illegible]	67.	100.	39.	170.	4.
35.	75.	105.	25.	175.	0.
40.	86.	110.	22.	180.	0.
45.	98.	115.	21.		
50.	120.	120.	15.		
55.	156.	125.	13.		
60.	155.	130.	12.		
65.	127.	135.	4.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 353

Area= .22
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.79 XKSAT= .44RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 58.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	104.	90.	38.
25.	127.	95.	24.
[illegible].	147.	100.	23.
35.	175.	105.	9.
40.	232.	110.	7.
45.	291.	115.	7.
50.	242.	120.	7.
55.	200.	125.	7.
60.	171.	130.	7.
65.	142.	135.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 354

Area= .31
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.64 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 45.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	17.	90.	34.	160.	2.
25.	21.	95.	31.	165.	2.
[illegible].	24.	100.	27.	170.	2.
35.	28.	105.	24.	175.	2.
40.	31.	110.	19.	180.	2.
45.	34.	115.	14.	185.	2.
50.	39.	120.	9.	190.	2.
55.	45.	125.	9.	195.	2.
60.	57.	130.	8.	200.	0.
65.	67.	135.	6.	205.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 355

Area= .10
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.75 XKSAT= .27RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 65.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	19.	90.	1.
25.	23.	95.	1.
[illegible].	28.	100.	1.
35.	39.	105.	1.
40.	43.	110.	1.
45.	33.	115.	0.
50.	27.	120.	0.
55.	22.		
60.	17.		
65.	12.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 355A

Area= .04
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.88 XKSAT= .45RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 37.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	114.	90.	43.
25.	138.	95.	33.
[illegible].	160.	100.	26.
35.	191.	105.	17.
40.	238.	110.	8.
45.	324.	115.	8.
50.	281.	120.	8.
55.	229.	125.	8.
60.	197.	130.	8.
65.	164.	135.	8.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 356

Area= .35
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 45.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	40.	90.	18.
25.	49.	95.	16.
[illegible].	57.	100.	14.
35.	66.	105.	10.
40.	78.	110.	9.
45.	104.	115.	3.
50.	122.	120.	3.
55.	98.	125.	3.
60.	82.	130.	3.
65.	71.	135.	3.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 357

Area= .14
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.50 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 49.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

215.	2.
220.	2.
[illegible]	2.
230.	2.
235.	2.
240.	2.
245.	2.
250.	2.
255.	0.
260.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 358

Area= .19
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.50 XKSAT= .41RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 84.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	37.	90.	9.
25.	44.	95.	8.
[illegible].	52.	100.	4.
35.	63.	105.	2.
40.	86.	110.	2.
45.	96.	115.	2.
50.	75.	120.	2.
55.	63.	125.	2.
60.	52.	130.	0.
65.	43.	135.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 359

Area= .10
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.54 XKSAT= .47RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 43.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 360

[illegible]E (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	3.				
215.	3.				
220.	3.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 360

Area= .25
Rainfall distribution is 6-hour
IA= .46 DTHETA= .08 PSIF= 5.43 XKSAT= .32RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 73.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

215.	3.
220.	3.
[illegible]	3.
230.	3.
235.	3.
240.	3.
245.	3.
250.	3.
255.	0.
260.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 361

Area= .21
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.10 XKSAT= .35RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 84.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	79.	90.	135.	160.	7.
25.	98.	95.	116.	165.	7.
[illegible]	115.	100.	101.	170.	7.
35.	130.	105.	76.	175.	7.
40.	144.	110.	51.	180.	7.
45.	166.	115.	41.	185.	0.
50.	188.	120.	38.	190.	0.
55.	242.	125.	34.		
60.	290.	130.	23.		
65.	263.	135.	23.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 362

Area= .42
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.38 XKSAT= .42RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 61.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  230.            7.
  235.            7.
  240.            7.
  245.            7.
  250.            7.
  255.            7.
  260.            7.
  265.            7.
  270.            7.
  275.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 363
-----------------------------------------------------------------------
Area=    .63, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 3.71  XKSAT=  .46RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  90.5 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                 HEC-1 INPUT IS STORED IN FILE: 363
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

60.	338.	130.	65.	200.	11.
65.	418.	135.	63.	205.	11.

HYDROGRAPH FOR BASIN: 364

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	11.				
215.	0.				
220.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 364

Area= .78
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.22 XKSAT= .43RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 71.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	71.
25.	112.
[illegible]	90.
35.	66.
40.	47.
45.	24.
50.	15.
55.	10.
60.	3.
65.	3.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 364A

Area= .07
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 3.50 XKSAT= .28RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 24.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	78.	90.	111.	160.	7.
25.	98.	95.	96.	165.	7.
30.	114.	100.	71.	170.	7.
35.	128.	105.	47.	175.	0.
40.	145.	110.	38.	180.	0.
45.	167.	115.	36.		
50.	200.	120.	29.		
55.	261.	125.	22.		
60.	272.	130.	22.		
65.	222.	135.	9.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 365

Area= .38, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.11 XKSAT= .73RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 58.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 365

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

```
  65.          215.       135.          36.       205.          6.
UNIT HYDROGRAPH FOR BASIN:  366

 TIME     DISCHARGE     TIME     DISCHARGE     TIME     DISCHARGE
(min.)     (cfs)       (min.)     (cfs)       (min.)     (cfs)

  210.          6.
  215.          6.
  220.          0.
  225.          0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN 366
-----------------------------------------------------------------------
Area=    .44
Rainfall distribution is 6-hour
IA= .50  DTHETA= .00  PSIF= 4.25  XKSAT=  .55RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  73.3 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                HEC-1 INPUT IS STORED IN FILE: 347
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP


   10.          181.
   15.          333.
   [illegible].  299.
   25.          174.
   30.           67.
   35.           29.
   40.           10.
   45.           10.
   50.            0.
   55.            0.
-----------------------------------------------------------------------
        VOLUME OF CALCULATED HYDROGRAPH (Inches)=  1.00
-----------------------------------------------------------------------
                  INPUT DATA FOR SUB-BASIN: 367
-----------------------------------------------------------------------
Area=    .15
Rainfall distribution is 6-hour
IA= .35  DTHETA= .35  PSIF= 4.19  XKSAT=  .47RTIMP=   .0
Phoenix Valley S-graph was selected.
Lag Time =  15.1 min., Hydrograph Time Step=   5min.
-----------------------------------------------------------------------
                HEC-1 INPUT IS STORED IN FILE: 347
-----------------------------------------------------------------------
 ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP
```

230.	25.	300.	8.
235.	25.	305.	8.
[illegible]0.	25.	310.	8.
245.	25.	315.	8.
250.	25.	320.	8.
255.	11.	325.	8.
260.	8.	330.	8.
265.	8.	335.	8.
270.	8.	340.	0.
275.	8.	345.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 368

Area= .83
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.07 XKSAT= .60RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 112.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	158.
25.	245.
[illegible].	191.
35.	139.
40.	98.
45.	48.
50.	31.
55.	19.
60.	6.
65.	6.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 369

Area= .15
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 3.16 XKSAT= .97RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 24.3 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	54.	90.	0.
25.	76.		
[illegible]0.	100.		
35.	74.		
40.	57.		
45.	42.		
50.	25.		
55.	14.		
60.	10.		
65.	6.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 370

Area= .07
Rainfall distribution is 6-hour
IA= .35 DTHETA= .35 PSIF= 3.42 XKSAT= .82RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 28.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	42.	300.	8.
235.	27.	305.	8.
[illegible]0.	27.	310.	8.
245.	27.	315.	8.
250.	27.	320.	8.
255.	27.	325.	8.
260.	10.	330.	8.
265.	8.	335.	8.
270.	8.	340.	8.
275.	8.	345.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 371

Area= .93
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.97 XKSAT= .31RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 114.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	75.	300.	14.	370.	0.
235.	74.	305.	14.		
0.	74.	310.	14.		
245.	58.	315.	14.		
250.	45.	320.	14.		
255.	45.	325.	14.		
260.	45.	330.	14.		
265.	45.	335.	14.		
270.	45.	340.	14.		
275.	14.	345.	14.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 372

Area= 1.62, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.56 XKSAT= .33RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 120.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	93.	90.	121.	160.	8.
25.	119.	95.	92.	165.	8.
30.	137.	100.	63.	170.	0.
35.	154.	105.	45.	175.	0.
40.	178.	110.	42.		
45.	203.	115.	37.		
50.	260.	120.	26.		
55.	323.	125.	26.		
60.	291.	130.	13.		
65.	243.	135.	8.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 373

Area= .43
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.37 XKSAT= .36RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 56.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	21.	300.	8.
235.	8.	305.	8.
240.	8.	310.	0.
245.	8.	315.	0.
250.	8.		
255.	8.		
260.	8.		
265.	8.		
270.	8.		
275.	8.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 374

Area= .76
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.92 XKSAT= .25RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 102.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	4.
235.	4.
0.	4.
245.	4.
250.	4.
255.	4.
260.	4.
265.	4.
270.	4.
275.	4.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 375

Area= .41
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.98 XKSAT= .24RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 96.4 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

60.	186.	130.	35.	200.	6.
65.	232.	135.	34.	205.	6.

HYDROGRAPH FOR BASIN: 376

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	6.				
215.	0.				
220.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 376

Area= .42
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.90 XKSAT= .25RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 70.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	52.	90.	3.
25.	65.	95.	3.
[illegible].	90.	100.	0.
35.	111.	105.	0.
40.	83.		
45.	67.		
50.	52.		
55.	40.		
60.	21.		
65.	15.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 377

Area= .09
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.76 XKSAT= .33RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 33.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

65.	139.	135.	22.	205.	4.

UNIT HYDROGRAPH FOR BASIN: 377A

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	4.				
215.	4.				
220.	0.				
225.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 377A

Area= .27
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.82 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 72.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	4.	300.	1.
235.	4.	305.	1.
[illegible].	4.	310.	1.
245.	2.	315.	1.
250.	1.	320.	1.
255.	1.	325.	0.
260.	1.	330.	0.
265.	1.		
270.	1.		
275.	1.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 377B

Area= .12
Rainfall distribution is 6-hour
IA= .42 DTHETA= .05 PSIF= 3.50 XKSAT= .45RTIMP= 4.0
Phoenix Valley S-graph was selected.
Lag Time = 107.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	9.	300.	8.
235.	8.	305.	0.
[illegible].	8.	310.	0.
245.	8.		
250.	8.		
255.	8.		
260.	8.		
265.	8.		
270.	8.		
275.	8.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 378

Area= .78
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 4.16 XKSAT= .77RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 100.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	14.	300.	4.
235.	14.	305.	4.
[illegible]0.	14.	310.	4.
245.	14.	315.	4.
250.	14.	320.	4.
255.	4.	325.	4.
260.	4.	330.	4.
265.	4.	335.	0.
270.	4.	340.	0.
275.	4.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 379

Area= .46
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 3.68 XKSAT= .46RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 111.8 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	39.	90.	62.	160.	3.
25.	49.	95.	54.	165.	3.
[illegible].	57.	100.	44.	170.	3.
35.	64.	105.	31.	175.	3.
40.	72.	110.	20.	180.	0.
45.	83.	115.	19.	185.	0.
50.	96.	120.	18.		
55.	124.	125.	12.		
60.	145.	130.	11.		
65.	121.	135.	11.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 380

Area= .20
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 7.20 XKSAT= .22RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 60.2 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	35.	90.	72.	160.	3.
25.	44.	95.	64.	165.	3.
[illegible].	52.	100.	56.	170.	3.
35.	59.	105.	50.	175.	3.
40.	65.	110.	38.	180.	3.
45.	73.	115.	28.	185.	3.
50.	82.	120.	19.	190.	3.
55.	96.	125.	18.	195.	3.
60.	121.	130.	18.	200.	0.
65.	140.	135.	13.	205.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 381

Area= .21
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 7.15 XKSAT= .23RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 65.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	37.	90.	8.
25.	45.	95.	8.
30.	53.	100.	3.
35.	64.	105.	2.
40.	89.	110.	2.
45.	95.	115.	2.
50.	74.	120.	2.
55.	63.	125.	2.
60.	52.	130.	0.
65.	43.	135.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 381A

Area= .10, Point rainfall depth= 3.3, Reduction coefficient= 1.00
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.57 XKSAT= .29RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 42.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 381A

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	15.	90.	20.	160.	1.
25.	19.	95.	15.	165.	1.
[illegible].	22.	100.	10.	170.	0.
35.	25.	105.	7.	175.	0.
40.	29.	110.	7.		
45.	33.	115.	6.		
50.	43.	120.	4.		
55.	53.	125.	4.		
60.	47.	130.	2.		
65.	39.	135.	1.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 381B

Area= .07
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.68 XKSAT= .27RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 56.5 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

210.	9.
[illegible]	9.
220.	9.
225.	9.
230.	9.
235.	9.
240.	9.
245.	0.
250.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 382

Area= .71
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 7.29 XKSAT= .21RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 80.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	31.	90.	61.	160.	3.
25.	38.	95.	54.	165.	3.
[illegible].	45.	100.	47.	170.	3.
[illegible]5.	51.	105.	41.	175.	3.
40.	56.	110.	31.	180.	3.
45.	64.	115.	22.	185.	3.
50.	72.	120.	17.	190.	3.
55.	85.	125.	16.	195.	0.
60.	107.	130.	15.	200.	0.
65.	121.	135.	10.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 383

Area= .18
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.68 XKSAT= .27RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 65.0 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

UNIT HYDROGRAPH FOR BASIN: 383A

[illegible]E (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	2.				
215.	2.				
220.	2.				
225.	0.				
230.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 383A

Area= .16
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.41 XKSAT= .29RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 73.7 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

20.	53.	90.	95.	160.	5.
25.	65.	95.	83.	165.	5.
[illegible]0.	77.	100.	73.	170.	5.
35.	86.	105.	59.	175.	5.
40.	96.	110.	43.	180.	5.
45.	109.	115.	27.	185.	5.
50.	123.	120.	26.	190.	0.
55.	150.	125.	25.	195.	0.
60.	193.	130.	19.		
65.	188.	135.	15.		

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 384

Area= .29
Rainfall distribution is 6-hour
IA= .46 DTHETA= .02 PSIF= 7.54 XKSAT= .18RTIMP= 2.0
Phoenix Valley S-graph was selected.
Lag Time = 63.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

[illegible]210.	5.
[illegible].	5.
220.	5.
225.	5.
230.	5.
235.	5.
240.	5.
245.	0.
250.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 385

Area= .39
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 7.53 XKSAT= .19RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 81.9 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

230.	4.
235.	4.
[illegible]0.	4.
[illegible]5.	4.
250.	4.
255.	4.
260.	4.
265.	4.
270.	0.
275.	0.

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 386

Area= .35
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 5.87 XKSAT= .33RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 89.1 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP

55.	96.	125.	24.	195.	4.
60.	115.	130.	21.	200.	4.
[illegible].	145.	135.	20.	205.	4.

[illegible] HYDROGRAPH FOR BASIN: 387

TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)	TIME (min.)	DISCHARGE (cfs)
210.	0.				
215.	0.				

VOLUME OF CALCULATED HYDROGRAPH (Inches)= 1.00

INPUT DATA FOR SUB-BASIN: 387

Area= .25
Rainfall distribution is 6-hour
IA= .50 DTHETA= .00 PSIF= 6.86 XKSAT= .26RTIMP= .0
Phoenix Valley S-graph was selected.
Lag Time = 69.6 min., Hydrograph Time Step= 5min.

HEC-1 INPUT IS STORED IN FILE: 347

ENTER 1 FOR A NEW SUB-BASIN CALCULATION, 2 TO STOP