```
210 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG          .60  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                          38 END-OF-PERIOD ORDINATES
              17.      52.     100.     171.     249.     306.     334.     336.     320.     291.
             254.     206.     159.     128.     103.      85.      69.      56.      45.      36.
              30.      24.      19.      16.      13.      10.       8.       7.       5.       4.
               4.       3.       3.       2.       2.       1.       1.       0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
226 KK      *        E1  *
            *            *
            **************

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

227 KP          PLAN  1 FOR STATION       E1
                                RUNOFF COMPUTATION 2-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

228 BA            SUBBASIN CHARACTERISTICS
                      TAREA          .01  SUBBASIN AREA

                  PRECIPITATION DATA

  3 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .18     .50    2.40    2.55    2.75    3.30    4.10    4.75     .00     .00     .00     .00

                                                STORM AREA =      .01

229 LS            SCS LOSS RATE
                      STRTL          .41  INITIAL ABSTRACTION
                     CRVNBR        82.92  CURVE NUMBER
                      RTIMP          .00  PERCENT IMPERVIOUS AREA

230 UD            SCS DIMENSIONLESS UNITGRAPH
                       TLAG          .17  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                          12 END-OF-PERIOD ORDINATES
                  6.      17.      17.      11.       5.       3.       2.       1.       0.       0.
                  0.       0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

234 KP          PLAN  2 FOR STATION       E1
                                RUNOFF COMPUTATION 10-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

228 BA            SUBBASIN CHARACTERISTICS
                      TAREA          .01  SUBBASIN AREA

                  PRECIPITATION DATA

236 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .27     .75    3.35    3.95    4.40    5.40    6.60    7.80     .00     .00     .00     .00

                                                STORM AREA =      .01

229 LS            SCS LOSS RATE
                      STRTL          .41  INITIAL ABSTRACTION
                     CRVNBR        82.92  CURVE NUMBER
```

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                    RTIMP          .00  PERCENT IMPERVIOUS AREA

230 UD          SCS DIMENSIONLESS UNITGRAPH
                     TLAG          .17  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                           12 END-OF-PERIOD ORDINATES
                6.       17.       17.       11.        5.        3.        2.        1.        0.        0.
                0.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

237 KP          PLAN  3 FOR STATION       E1
                                     RUNOFF COMPUTATION 25-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

228 BA            SUBBASIN CHARACTERISTICS
                     TAREA          .01  SUBBASIN AREA

                  PRECIPITATION DATA

239 PH                                 DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR     3-HR     6-HR    12-HR    24-HR    2-DAY    4-DAY    7-DAY   10-DAY
                  .32     .90    3.62    4.65     5.25     6.50     7.70     9.20      .00      .00      .00      .00

                                                STORM AREA =      .01

229 LS            SCS LOSS RATE
                     STRTL          .41  INITIAL ABSTRACTION
                    CRVNBR        82.92  CURVE NUMBER
                     RTIMP          .00  PERCENT IMPERVIOUS AREA

  0 UD            SCS DIMENSIONLESS UNITGRAPH
                      TLAG          .17  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                           12 END-OF-PERIOD ORDINATES
                6.       17.       17.       11.        5.        3.        2.        1.        0.        0.
                0.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

240 KP          PLAN  4 FOR STATION       E1
                                     RUNOFF COMPUTATION 50-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

228 BA            SUBBASIN CHARACTERISTICS
                     TAREA          .01  SUBBASIN AREA

                  PRECIPITATION DATA

242 PH                                 DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR     3-HR     6-HR    12-HR    24-HR    2-DAY    4-DAY    7-DAY   10-DAY
                  .34     .97    4.00    5.30     5.90     7.50     8.70    10.50      .00      .00      .00      .00

                                                STORM AREA =      .01

229 LS            SCS LOSS RATE
                     STRTL          .41  INITIAL ABSTRACTION
                    CRVNBR        82.92  CURVE NUMBER
                     RTIMP          .00  PERCENT IMPERVIOUS AREA

230 UD            SCS DIMENSIONLESS UNITGRAPH
                      TLAG          .17  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                           12 END-OF-PERIOD ORDINATES
                6.       17.       17.       11.        5.        3.        2.        1.        0.        0.
                0.        0.
```

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***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

 243 KP         PLAN  5 FOR STATION       E1
                                RUNOFF COMPUTATION 100-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

 228 BA           SUBBASIN CHARACTERISTICS
                        TAREA          .01  SUBBASIN AREA

                  PRECIPITATION DATA

 245 PH                                 DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .39    1.10    4.50    5.65    6.80    8.00    9.80   11.60     .00     .00     .00     .00

                                                STORM AREA =      .01

 229 LS           SCS LOSS RATE
                        STRTL          .41  INITIAL ABSTRACTION
                       CRVNBR        82.92  CURVE NUMBER
                        RTIMP          .00  PERCENT IMPERVIOUS AREA

 230 UD           SCS DIMENSIONLESS UNITGRAPH
                         TLAG          .17  LAG

                                                     ***

                                                UNIT HYDROGRAPH
                                          12 END-OF-PERIOD ORDINATES
                  6.      17.      17.      11.       5.       3.       2.       1.       0.       0.
                  0.       0.


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 246 KK   *     COMB8  *
          *            *
          **************

 247 HC           HYDROGRAPH COMBINATION
                       ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                     ***


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 248 KK   *       P2A  *
          *            *
          **************


***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

 249 KP         PLAN  1 FOR STATION       P2A
                                RUNOFF COMPUTATION 2-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

 250 BA           SUBBASIN CHARACTERISTICS
                         TAREA          .03  SUBBASIN AREA

                  PRECIPITATION DATA

 ,5 PH                                  DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .18     .50    2.40    2.55    2.75    3.30    4.10    4.75     .00     .00     .00     .00
```

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                                        STORM AREA =      .03

251 LS          SCS LOSS RATE
                     STRTL        .15  INITIAL ABSTRACTION
                    CRVNBR      93.00  CURVE NUMBER
                     RTIMP        .00  PERCENT IMPERVIOUS AREA

252 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG        .22  LAG

                                                 ***

                                              UNIT HYDROGRAPH
                                         15 END-OF-PERIOD ORDINATES
              10.      35.      48.      42.      27.      16.      10.       6.       3.       2.
               1.       1.       0.       0.       0.

***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

256 KP        PLAN  2 FOR STATION      P2A
                              RUNOFF COMPUTATION 10-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

250 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .03  SUBBASIN AREA

                PRECIPITATION DATA

258 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .27     .75    3.35    3.95    4.40    5.40    6.60    7.80     .00     .00     .00     .00

                                        STORM AREA =      .03

 .1 LS          SCS LOSS RATE
                     STRTL        .15  INITIAL ABSTRACTION
                    CRVNBR      93.00  CURVE NUMBER
                     RTIMP        .00  PERCENT IMPERVIOUS AREA

252 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG        .22  LAG

                                                 ***

                                              UNIT HYDROGRAPH
                                         15 END-OF-PERIOD ORDINATES
              10.      35.      48.      42.      27.      16.      10.       6.       3.       2.
               1.       1.       0.       0.       0.

***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

259 KP        PLAN  3 FOR STATION      P2A
                              RUNOFF COMPUTATION 25-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

250 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .03  SUBBASIN AREA

                PRECIPITATION DATA

261 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .32     .90    3.62    4.65    5.25    6.50    7.70    9.20     .00     .00     .00     .00

                                        STORM AREA =      .03

251 LS          SCS LOSS RATE
                     STRTL        .15  INITIAL ABSTRACTION
                    CRVNBR      93.00  CURVE NUMBER
                     RTIMP        .00  PERCENT IMPERVIOUS AREA

252 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG        .22  LAG

                                                 ***
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                                        UNIT HYDROGRAPH
                                   15 END-OF-PERIOD ORDINATES
          10.      35.      48.      42.      27.      16.      10.       6.       3.       2.
           1.       1.       0.       0.       0.

***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***

 262 KP       PLAN  4 FOR STATION      P2A
                          RUNOFF COMPUTATION 50-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

 250 BA         SUBBASIN CHARACTERISTICS
                      TAREA         .03  SUBBASIN AREA

                PRECIPITATION DATA

 264 PH                           DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .34     .97    4.00    5.30    5.90    7.50    8.70   10.50     .00     .00     .00     .00

                                        STORM AREA =      .03

 251 LS         SCS LOSS RATE
                      STRTL         .15  INITIAL ABSTRACTION
                     CRVNBR       93.00  CURVE NUMBER
                      RTIMP         .00  PERCENT IMPERVIOUS AREA

 252 UD         SCS DIMENSIONLESS UNITGRAPH
                       TLAG         .22  LAG

                                        ***

                                        UNIT HYDROGRAPH
                                   15 END-OF-PERIOD ORDINATES
          10.      35.      48.      42.      27.      16.      10.       6.       3.       2.
           1.       1.       0.       0.       0.

***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***

 265 KP       PLAN  5 FOR STATION      P2A
                          RUNOFF COMPUTATION 100-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

 250 BA         SUBBASIN CHARACTERISTICS
                      TAREA         .03  SUBBASIN AREA

                PRECIPITATION DATA

 267 PH                           DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .39    1.10    4.50    5.65    6.80    8.00    9.80   11.60     .00     .00     .00     .00

                                        STORM AREA =      .03

 251 LS         SCS LOSS RATE
                      STRTL         .15  INITIAL ABSTRACTION
                     CRVNBR       93.00  CURVE NUMBER
                      RTIMP         .00  PERCENT IMPERVIOUS AREA

 252 UD         SCS DIMENSIONLESS UNITGRAPH
                       TLAG         .22  LAG

                                        ***

                                        UNIT HYDROGRAPH
                                   15 END-OF-PERIOD ORDINATES
          10.      35.      48.      42.      27.      16.      10.       6.       3.       2.
           1.       1.       0.       0.       0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***
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          **************
          *            *
268 KK    *      PIPE  *
          *            *
          **************

269 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          3  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        289  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       .083  TIME INTERVAL IN HOURS


            HYDROGRAPH ROUTING DATA

270 RD          MUSKINGUM-CUNGE CHANNEL ROUTING
                          L       337.  CHANNEL LENGTH
                          S      .0050  SLOPE
                          N       .013  CHANNEL ROUGHNESS COEFFICIENT
                         CA        .00  CONTRIBUTING AREA
                      SHAPE       CIRC  CHANNEL SHAPE
                         WD       3.50  BOTTOM WIDTH OR DIAMETER
                          Z        .00  SIDE SLOPE

                                                  ***
                          COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                COMPUTATION TIME STEP
                ELEMENT    ALPHA      M        DT        DX       PEAK    TIME TO      VOLUME    MAXIMUM
                                                                          PEAK                   CELERITY
                                                (MIN)      (FT)    (CFS)    (MIN)       (IN)      (FPS)

                  MAIN      5.39     1.25       .64    337.00    40.56   725.63       3.94      8.79

                                  INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                  MAIN      5.39     1.25      5.00              40.35   725.00       3.94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5464E+01 EXCESS= .0000E+00 OUTFLOW= .5462E+01 BASIN STORAGE- .1523E-02 PERCENT ERROR=     .0


   ***          ***          ***          ***          ***

                     HYDROGRAPH AT STATION     PIPE
                       FOR PLAN 1, RATIO = 1.00

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                            (CFS)
+     40.      12.08                 8.          3.          3.          3.
                         (INCHES)   3.028       3.940       3.940       3.940
                          (AC-FT)      4.          5.          5.          5.

                     CUMULATIVE AREA =     .03 SQ MI


***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***

            PLAN  2 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                          COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                COMPUTATION TIME STEP
                ELEMENT    ALPHA      M        DT        DX       PEAK    TIME TO      VOLUME    MAXIMUM
                                                                          PEAK                   CELERITY
                                                (MIN)      (FT)    (CFS)    (MIN)       (IN)      (FPS)

                  MAIN      5.39     1.25       .59    337.00    60.27   725.82       6.94      9.51

                                  INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                  MAIN      5.39     1.25      5.00              59.95   725.00       6.94
```

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9625E+01 EXCESS= .0000E+00 OUTFLOW= .9623E+01 BASIN STORAGE= .2529E-02 PERCENT ERROR= .0

*** *** *** *** ***

HYDROGRAPH AT STATION PIPE
FOR PLAN 2, RATIO = 1.00

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.00-HR
+ (CFS)	(HR)					
		(CFS)				
+ 60.	12.08		14.	5.	5.	5.
		(INCHES)	5.168	6.940	6.940	6.940
		(AC-FT)	7.	10.	10.	10.

CUMULATIVE AREA = .03 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

PLAN 3 INPUT DATA FOR STATION PIPE ARE SAME AS FOR PLAN 1
COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	M	COMPUTATION TIME STEP DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	5.39	1.25	.58	337.00	66.44	729.66	8.32	9.69
INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL								
MAIN	5.39	1.25	5.00		66.42	730.00	8.32	

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1154E+02 EXCESS= .0000E+00 OUTFLOW= .1154E+02 BASIN STORAGE= .3040E-02 PERCENT ERROR= .0

*** *** *** *** ***

HYDROGRAPH AT STATION PIPE
FOR PLAN 3, RATIO = 1.00

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.00-HR
+ (CFS)	(HR)					
		(CFS)				
+ 66.	12.17		18.	6.	6.	6.
		(INCHES)	6.267	8.324	8.324	8.324
		(AC-FT)	9.	12.	12.	12.

CUMULATIVE AREA = .03 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

PLAN 4 INPUT DATA FOR STATION PIPE ARE SAME AS FOR PLAN 1
COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	M	COMPUTATION TIME STEP DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	5.39	1.25	.57	337.00	73.95	726.39	9.61	9.91
INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL								
MAIN	5.39	1.25	5.00		73.47	730.00	9.61	

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1333E+02 EXCESS= .0000E+00 OUTFLOW= .1333E+02 BASIN STORAGE= .3534E-02 PERCENT ERROR= .0

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***              ***              ***              ***              ***

                    HYDROGRAPH AT STATION     PIPE
                      FOR PLAN 4, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                                  (CFS)
+      73.     12.17                 20.         7.          7.          7.
                               (INCHES)      7.265       9.610       9.610       9.610
                                (AC-FT)        10.         13.         13.         13.

                     CUMULATIVE AREA =     .03 SQ MI


***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

              PLAN  5 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                                COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                COMPUTATION TIME STEP
                ELEMENT    ALPHA        M          DT         DX       PEAK    TIME TO     VOLUME    MAXIMUM
                                                                               PEAK                  CELERITY
                                                  (MIN)       (FT)     (CFS)    (MIN)       (IN)      (FPS)

                  MAIN      5.39      1.25        .55     337.00     83.16   726.25      10.71     10.14

                                   INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                  MAIN      5.39      1.25       5.00                82.89   730.00      10.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1485E+02 EXCESS= .0000E+00 OUTFLOW= .1485E+02 BASIN STORAGE= .3512E-02 PERCENT ERROR=     .0


***              ***              ***              ***              ***

                    HYDROGRAPH AT STATION     PIPE
                      FOR PLAN 5, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                                  (CFS)
+      83.     12.17                 22.         7.          7.          7.
                               (INCHES)      7.850      10.706      10.706      10.706
                                (AC-FT)        11.         15.         15.         15.

                     CUMULATIVE AREA =     .03 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            **************
            *            *
 271 KK     *       P2B  *
            *            *
            **************


***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

 272 KP          PLAN  1 FOR STATION      P2B
                                RUNOFF COMPUTATION 2-YRS STORM IN BASIN

                 SUBBASIN RUNOFF DATA

 273 BA            SUBBASIN CHARACTERISTICS
                        TAREA          .03  SUBBASIN AREA

                   PRECIPITATION DATA
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278 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .18     .50    2.40    2.55    2.75    3.30    4.10    4.75     .00     .00     .00     .00

                                                STORM AREA =      .03

274 LS            SCS LOSS RATE
                        STRTL         .15  INITIAL ABSTRACTION
                       CRVNBR       93.00  CURVE NUMBER
                        RTIMP         .00  PERCENT IMPERVIOUS AREA

275 UD            SCS DIMENSIONLESS UNITGRAPH
                         TLAG         .18  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          13 END-OF-PERIOD ORDINATES
                 17.       53.       59.       41.       21.       12.        6.        3.        2.        1.
                  1.        0.        0.

***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***

279 KP            PLAN  2 FOR STATION      P2B
                                   RUNOFF COMPUTATION 10-YRS STORM IN BASIN

                  SUBBASIN RUNOFF DATA

273 BA              SUBBASIN CHARACTERISTICS
                          TAREA         .03  SUBBASIN AREA

                    PRECIPITATION DATA

  1 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .27     .75    3.35    3.95    4.40    5.40    6.60    7.80     .00     .00     .00     .00

                                                STORM AREA =      .03

274 LS            SCS LOSS RATE
                        STRTL         .15  INITIAL ABSTRACTION
                       CRVNBR       93.00  CURVE NUMBER
                        RTIMP         .00  PERCENT IMPERVIOUS AREA

275 UD            SCS DIMENSIONLESS UNITGRAPH
                         TLAG         .18  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          13 END-OF-PERIOD ORDINATES
                 17.       53.       59.       41.       21.       12.        6.        3.        2.        1.
                  1.        0.        0.

***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***      ***

282 KP            PLAN  3 FOR STATION      P2B
                                   RUNOFF COMPUTATION 25-YRS STORM IN BASIN

                  SUBBASIN RUNOFF DATA

273 BA              SUBBASIN CHARACTERISTICS
                          TAREA         .03  SUBBASIN AREA

                    PRECIPITATION DATA

284 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .32     .90    3.62    4.65    5.25    6.50    7.70    9.20     .00     .00     .00     .00

                                                STORM AREA =      .03

274 LS            SCS LOSS RATE
                        STRTL         .15  INITIAL ABSTRACTION
                       CRVNBR       93.00  CURVE NUMBER
```

```
                    RTIMP          .00  PERCENT IMPERVIOUS AREA

275 UD          SCS DIMENSIONLESS UNITGRAPH
                     TLAG          .18  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          13 END-OF-PERIOD ORDINATES
              17.       53.       59.       41.       21.       12.        6.        3.        2.        1.
               1.        0.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

285 KP        PLAN  4 FOR STATION      P2B
                            RUNOFF COMPUTATION 50-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

273 BA          SUBBASIN CHARACTERISTICS
                     TAREA          .03  SUBBASIN AREA

                PRECIPITATION DATA

287 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .34     .97    4.00    5.30    5.90    7.50    8.70   10.50     .00     .00     .00     .00

                                          STORM AREA =      .03

274 LS          SCS LOSS RATE
                     STRTL          .15  INITIAL ABSTRACTION
                    CRVNBR        93.00  CURVE NUMBER
                     RTIMP          .00  PERCENT IMPERVIOUS AREA

 5 UD           SCS DIMENSIONLESS UNITGRAPH
                     TLAG          .18  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          13 END-OF-PERIOD ORDINATES
              17.       53.       59.       41.       21.       12.        6.        3.        2.        1.
               1.        0.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

288 KP        PLAN  5 FOR STATION      P2B
                            RUNOFF COMPUTATION 100-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

273 BA          SUBBASIN CHARACTERISTICS
                     TAREA          .03  SUBBASIN AREA

                PRECIPITATION DATA

290 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .39    1.10    4.50    5.65    6.80    8.00    9.80   11.60     .00     .00     .00     .00

                                          STORM AREA =      .03

274 LS          SCS LOSS RATE
                     STRTL          .15  INITIAL ABSTRACTION
                    CRVNBR        93.00  CURVE NUMBER
                     RTIMP          .00  PERCENT IMPERVIOUS AREA

275 UD          SCS DIMENSIONLESS UNITGRAPH
                     TLAG          .18  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          13 END-OF-PERIOD ORDINATES
              17.       53.       59.       41.       21.       12.        6.        3.        2.        1.
               1.        0.        0.
```

```
*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
291 KK      *      COMB  *
            *            *
            **************

292 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
                                                                 ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
293 KK      *      P2D   *
            *            *
            **************

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

294 KP          PLAN  1 FOR STATION      P2D
                                RUNOFF COMPUTATION 2-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

  5 BA            SUBBASIN CHARACTERISTICS
                       TAREA          .03  SUBBASIN AREA

                  PRECIPITATION DATA

300 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .18     .50    2.40    2.55    2.75    3.30    4.10    4.75     .00     .00     .00     .00

                                                STORM AREA =      .03

296 LS            SCS LOSS RATE
                       STRTL          .15  INITIAL ABSTRACTION
                      CRVNBR        93.00  CURVE NUMBER
                       RTIMP          .00  PERCENT IMPERVIOUS AREA

297 UD            SCS DIMENSIONLESS UNITGRAPH
                        TLAG          .24  LAG

                                                         ***

                                                UNIT HYDROGRAPH
                                           16 END-OF-PERIOD ORDINATES
                  9.      32.      49.      47.      35.      20.      13.       8.       5.       3.
                  2.       1.       1.       0.       0.       0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

301 KP          PLAN  2 FOR STATION      P2D
                                RUNOFF COMPUTATION 10-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

295 BA            SUBBASIN CHARACTERISTICS
                       TAREA          .03  SUBBASIN AREA

                  PRECIPITATION DATA

  3 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .27     .75    3.35    3.95    4.40    5.40    6.60    7.80     .00     .00     .00     .00
```

```
                                        STORM AREA =      .03

296 LS          SCS LOSS RATE
                     STRTL          .15  INITIAL ABSTRACTION
                    CRVNBR        93.00  CURVE NUMBER
                     RTIMP          .00  PERCENT IMPERVIOUS AREA

297 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG          .24  LAG

                                                ***

                                              UNIT HYDROGRAPH
                                         16 END-OF-PERIOD ORDINATES
                9.       32.       49.       47.       35.       20.       13.        8.        5.        3.
                2.        1.        1.        0.        0.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

304 KP          PLAN  3 FOR STATION       P2D
                                RUNOFF COMPUTATION 25-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

295 BA          SUBBASIN CHARACTERISTICS
                     TAREA          .03  SUBBASIN AREA

                PRECIPITATION DATA

306 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .32     .90    3.62    4.65    5.25    6.50    7.70    9.20     .00     .00     .00     .00

                                        STORM AREA =      .03

  6 LS          SCS LOSS RATE
                     STRTL          .15  INITIAL ABSTRACTION
                    CRVNBR        93.00  CURVE NUMBER
                     RTIMP          .00  PERCENT IMPERVIOUS AREA

297 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG          .24  LAG

                                                ***

                                              UNIT HYDROGRAPH
                                         16 END-OF-PERIOD ORDINATES
                9.       32.       49.       47.       35.       20.       13.        8.        5.        3.
                2.        1.        1.        0.        0.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

307 KP          PLAN  4 FOR STATION       P2D
                                RUNOFF COMPUTATION 50-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

295 BA          SUBBASIN CHARACTERISTICS
                     TAREA          .03  SUBBASIN AREA

                PRECIPITATION DATA

309 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .34     .97    4.00    5.30    5.90    7.50    8.70   10.50     .00     .00     .00     .00

                                        STORM AREA =      .03

296 LS          SCS LOSS RATE
                     STRTL          .15  INITIAL ABSTRACTION
                    CRVNBR        93.00  CURVE NUMBER
                     RTIMP          .00  PERCENT IMPERVIOUS AREA

297 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG          .24  LAG

                                                ***
```

```
                                        UNIT HYDROGRAPH
                                   16 END-OF-PERIOD ORDINATES
          9.      32.      49.      47.      35.      20.      13.       8.       5.       3.
          2.       1.       1.       0.       0.       0.

***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***

310 KP      PLAN  5 FOR STATION      P2D
                        RUNOFF COMPUTATION 100-YRS STORM IN BASIN

            SUBBASIN RUNOFF DATA

295 BA        SUBBASIN CHARACTERISTICS
                TAREA          .03  SUBBASIN AREA

              PRECIPITATION DATA

312 PH                          DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
              ..... HYDRO-35 ......  ............... TP-40 ...............  ........... TP-49 ...........
              5-MIN  15-MIN  60-MIN   2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                .39    1.10    4.50   5.65    6.80    8.00    9.80   11.60     .00     .00     .00     .00

                                        STORM AREA -      .03

296 LS        SCS LOSS RATE
                STRTL          .15  INITIAL ABSTRACTION
               CRVNBR        93.00  CURVE NUMBER
                RTIMP          .00  PERCENT IMPERVIOUS AREA

297 UD        SCS DIMENSIONLESS UNITGRAPH
                TLAG          .24  LAG

                                          ***

                                        UNIT HYDROGRAPH
                                   16 END-OF-PERIOD ORDINATES
          9.      32.      49.      47.      35.      20.      13.       8.       5.       3.
          2.       1.       1.       0.       0.       0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
313 KK    *      PIPE  *
          *            *
          **************

314 KO        OUTPUT CONTROL VARIABLES
                IPRNT           3  PRINT CONTROL
                IPLOT           0  PLOT CONTROL
                QSCAL          0.  HYDROGRAPH PLOT SCALE
                IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                 IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                ISAV2         289  LAST ORDINATE PUNCHED OR SAVED
               TIMINT        .083  TIME INTERVAL IN HOURS

            HYDROGRAPH ROUTING DATA

315 RD        MUSKINGUM-CUNGE CHANNEL ROUTING
                    L        426.  CHANNEL LENGTH
                    S       .0050  SLOPE
                    N        .013  CHANNEL ROUGHNESS COEFFICIENT
                   CA         .00  CONTRIBUTING AREA
                SHAPE        CIRC  CHANNEL SHAPE
                   WD        3.50  BOTTOM WIDTH OR DIAMETER
                    Z         .00  SIDE SLOPE

                                          ***
                          COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                COMPUTATION TIME STEP
          ELEMENT     ALPHA        M        DT        DX      PEAK   TIME TO     VOLUME   MAXIMUM
                                                                      PEAK                 CELERITY
                                           (MIN)      (FT)     (CFS)   (MIN)       (IN)     (FPS)
```

MAIN	5.39	1.25	.80	213.00	43.80	726.93	3.94	8.92

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	5.39	1.25	5.00		43.69	730.00	3.94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6092E+01 EXCESS= .0000E+00 OUTFLOW= .6090E+01 BASIN STORAGE= .2105E-02 PERCENT ERROR= .0

*** *** *** *** ***

HYDROGRAPH AT STATION PIPE
FOR PLAN 1, RATIO = 1.00

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.00-HR
+ (CFS)	(HR)					
		(CFS)				
+ 44.	12.17		9.	3.	3.	3.
		(INCHES)	3.028	3.939	3.939	3.939
		(AC-FT)	5.	6.	6.	6.

CUMULATIVE AREA = .03 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

PLAN 2 INPUT DATA FOR STATION PIPE ARE SAME AS FOR PLAN 1
COMPUTED MUSKINGUM-CUNGE PARAMETERS
COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	5.39	1.25	.73	426.00	65.45	729.58	6.94	9.66

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	5.39	1.25	5.00		65.44	730.00	6.94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1073E+02 EXCESS= .0000E+00 OUTFLOW= .1073E+02 BASIN STORAGE= .3495E-02 PERCENT ERROR= .0

*** *** *** *** ***

HYDROGRAPH AT STATION PIPE
FOR PLAN 2, RATIO = 1.00

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.00-HR
+ (CFS)	(HR)					
		(CFS)				
+ 65.	12.17		16.	5.	5.	5.
		(INCHES)	5.168	6.938	6.938	6.938
		(AC-FT)	8.	11.	11.	11.

CUMULATIVE AREA = .03 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

PLAN 3 INPUT DATA FOR STATION PIPE ARE SAME AS FOR PLAN 1
COMPUTED MUSKINGUM-CUNGE PARAMETERS
COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	5.39	1.25	.72	426.00	73.23	730.38	8.32	9.89

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	5.39	1.25	5.00	73.12	730.00	8.32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1287E+02 EXCESS= .0000E+00 OUTFLOW= .1287E+02 BASIN STORAGE= .4199E-02 PERCENT ERROR= .0

*** *** *** *** ***

HYDROGRAPH AT STATION PIPE
FOR PLAN 3, RATIO = 1.00

	PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
+	(CFS)	(HR)	(CFS)				
+	73.	12.17		20.	6.	6.	6.
			(INCHES)	6.266	8.321	8.321	8.321
			(AC-FT)	10.	13.	13.	13.

CUMULATIVE AREA = .03 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

PLAN 4 INPUT DATA FOR STATION PIPE ARE SAME AS FOR PLAN 1
COMPUTED MUSKINGUM-CUNGE PARAMETERS
COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	5.39	1.25	.70	426.00	81.17	730.32	9.61	10.09

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	5.39	1.25	5.00	81.12	730.00	9.61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1486E+02 EXCESS= .0000E+00 OUTFLOW= .1486E+02 BASIN STORAGE= .4882E-02 PERCENT ERROR= .0

*** *** *** *** ***

HYDROGRAPH AT STATION PIPE
FOR PLAN 4, RATIO = 1.00

	PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
+	(CFS)	(HR)	(CFS)				
+	81.	12.17		23.	7.	7.	7.
			(INCHES)	7.263	9.607	9.607	9.607
			(AC-FT)	11.	15.	15.	15.

CUMULATIVE AREA = .03 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

PLAN 5 INPUT DATA FOR STATION PIPE ARE SAME AS FOR PLAN 1
COMPUTED MUSKINGUM-CUNGE PARAMETERS
COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	5.39	1.25	.69	426.00	91.46	730.25	10.70	10.34

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

```
                    MAIN        5.39       1.25       5.00                91.39     730.00      10.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1656E+02 EXCESS= .0000E+00 OUTFLOW= .1655E+02 BASIN STORAGE= .4851E-02 PERCENT ERROR=     .0

     ***            ***            ***            ***            ***

                      HYDROGRAPH AT STATION     PIPE
                        FOR PLAN 5, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                                 (CFS)
+      91.      12.17                24.          8.          8.          8.
                             (INCHES)      7.850      10.703      10.703      10.703
                              (AC-FT)        12.         17.         17.         17.

                      CUMULATIVE AREA =      .03 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
316 KK    *       P2C  *
          *            *
          **************


***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

  7 KP        PLAN  1 FOR STATION      P2C
                           RUNOFF COMPUTATION 2-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

318 BA          SUBBASIN CHARACTERISTICS
                      TAREA         .02  SUBBASIN AREA

                PRECIPITATION DATA

323 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .18     .50    2.40    2.55    2.75    3.30    4.10    4.75     .00     .00     .00     .00

                                          STORM AREA =      .02

319 LS          SCS LOSS RATE
                      STRTL         .15  INITIAL ABSTRACTION
                     CRVNBR       93.00  CURVE NUMBER
                      RTIMP         .00  PERCENT IMPERVIOUS AREA

320 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG         .26  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                            18 END-OF-PERIOD ORDINATES
                6.      21.      35.      36.      29.      18.      12.       8.       5.       3.
                2.       1.       1.       1.       0.       0.       0.       0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

324 KP        PLAN  2 FOR STATION      P2C
                           RUNOFF COMPUTATION 10-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

318 BA          SUBBASIN CHARACTERISTICS
                      TAREA         .02  SUBBASIN AREA

                PRECIPITATION DATA
```

```
326 PH                          DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .27     .75    3.35    3.95    4.40    5.40    6.60    7.80     .00     .00     .00     .00

                                                STORM AREA =      .02

319 LS            SCS LOSS RATE
                       STRTL          .15  INITIAL ABSTRACTION
                      CRVNBR        93.00  CURVE NUMBER
                       RTIMP          .00  PERCENT IMPERVIOUS AREA

320 UD            SCS DIMENSIONLESS UNITGRAPH
                       TLAG          .26  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          18 END-OF-PERIOD ORDINATES
                  6.      21.      35.      36.      29.      18.      12.       8.       5.       3.
                  2.       1.       1.       1.       0.       0.       0.       0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

327 KP            PLAN  3 FOR STATION      P2C
                                   RUNOFF COMPUTATION 25-YRS STORM IN BASIN

                  SUBBASIN RUNOFF DATA

318 BA              SUBBASIN CHARACTERISTICS
                       TAREA          .02  SUBBASIN AREA

                    PRECIPITATION DATA

  9 PH                          DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .32     .90    3.62    4.65    5.25    6.50    7.70    9.20     .00     .00     .00     .00

                                                STORM AREA =      .02

319 LS              SCS LOSS RATE
                       STRTL          .15  INITIAL ABSTRACTION
                      CRVNBR        93.00  CURVE NUMBER
                       RTIMP          .00  PERCENT IMPERVIOUS AREA

320 UD              SCS DIMENSIONLESS UNITGRAPH
                       TLAG          .26  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          18 END-OF-PERIOD ORDINATES
                  6.      21.      35.      36.      29.      18.      12.       8.       5.       3.
                  2.       1.       1.       1.       0.       0.       0.       0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

330 KP            PLAN  4 FOR STATION      P2C
                                   RUNOFF COMPUTATION 50-YRS STORM IN BASIN

                  SUBBASIN RUNOFF DATA

318 BA              SUBBASIN CHARACTERISTICS
                       TAREA          .02  SUBBASIN AREA

                    PRECIPITATION DATA

332 PH                          DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .34     .97    4.00    5.30    5.90    7.50    8.70   10.50     .00     .00     .00     .00

                                                STORM AREA =      .02

319 LS              SCS LOSS RATE
                       STRTL          .15  INITIAL ABSTRACTION
                      CRVNBR        93.00  CURVE NUMBER
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                    RTIMP          .00  PERCENT IMPERVIOUS AREA

320 UD          SCS DIMENSIONLESS UNITGRAPH
                    TLAG          .26  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                         18 END-OF-PERIOD ORDINATES
                6.       21.       35.       36.       29.       18.       12.        8.        5.        3.
                2.        1.        1.        1.        0.        0.        0.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

333 KP          PLAN  5 FOR STATION      P2C
                                   RUNOFF COMPUTATION 100-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

318 BA            SUBBASIN CHARACTERISTICS
                    TAREA          .02  SUBBASIN AREA

                  PRECIPITATION DATA

335 PH                                 DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR    2-DAY   4-DAY   7-DAY  10-DAY
                  .39    1.10    4.50    5.65    6.80    8.00    9.80   11.60      .00     .00     .00     .00

                                                STORM AREA =      .02

319 LS            SCS LOSS RATE
                     STRTL         .15  INITIAL ABSTRACTION
                    CRVNBR       93.00  CURVE NUMBER
                     RTIMP         .00  PERCENT IMPERVIOUS AREA

 .0 UD            SCS DIMENSIONLESS UNITGRAPH
                     TLAG          .26  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                         18 END-OF-PERIOD ORDINATES
                6.       21.       35.       36.       29.       18.       12.        8.        5.        3.
                2.        1.        1.        1.        0.        0.        0.        0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

                **************
                *            *
336 KK          *      COMB  *
                *            *
                **************

337 HC            HYDROGRAPH COMBINATION
                    1COMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                  ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

                **************
                *            *
338 KK          *      PIPE  *
                *            *
                **************

339 KO            OUTPUT CONTROL VARIABLES
                     IPRNT           3  PRINT CONTROL
                     IPLOT           0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE
                     IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                      IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                     ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
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          ISAV2          289  LAST ORDINATE PUNCHED OR SAVED
         TIMINT         .083  TIME INTERVAL IN HOURS


     HYDROGRAPH ROUTING DATA

340 RD     MUSKINGUM-CUNGE CHANNEL ROUTING
                L        524.  CHANNEL LENGTH
                S       .0050  SLOPE
                N        .013  CHANNEL ROUGHNESS COEFFICIENT
               CA         .00  CONTRIBUTING AREA
            SHAPE        CIRC  CHANNEL SHAPE
               WD        4.00  BOTTOM WIDTH OR DIAMETER
                Z         .00  SIDE SLOPE

                                                  ***
                        COMPUTED MUSKINGUM-CUNGE PARAMETERS
                              COMPUTATION TIME STEP
      ELEMENT    ALPHA       M        DT        DX       PEAK    TIME TO      VOLUME    MAXIMUM
                                                                    PEAK                  CELERITY
                                      (MIN)      (FT)     (CFS)    (MIN)       (IN)      (FPS)

        MAIN      5.51     1.25        .86    524.00     77.73   730.67       3.94      10.18

                              INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                  MAIN      5.51     1.25       5.00                77.66   730.00       3.94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1092E+02 EXCESS= .0000E+00 OUTFLOW= .1092E+02 BASIN STORAGE= .4063E-02 PERCENT ERROR=     .0


   ***          ***          ***          ***          ***

                     HYDROGRAPH AT STATION     PIPE
                       FOR PLAN 1, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                            (CFS)
+     78.      12.17                 17.          6.          6.          6.
                         (INCHES)  3.028       3.938       3.938       3.938
                          (AC-FT)     8.         11.         11.         11.

                      CUMULATIVE AREA =     .05 SQ MI


***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

                PLAN  2 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                        COMPUTED MUSKINGUM-CUNGE PARAMETERS
                              COMPUTATION TIME STEP
      ELEMENT    ALPHA       M        DT        DX       PEAK    TIME TO      VOLUME    MAXIMUM
                                                                    PEAK                  CELERITY
                                      (MIN)      (FT)     (CFS)    (MIN)       (IN)      (FPS)

        MAIN      5.51     1.25        .79    524.00    116.42   730.86       6.94      11.04

                              INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                  MAIN      5.51     1.25       5.00               116.33   730.00       6.94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1924E+02 EXCESS= .0000E+00 OUTFLOW= .1923E+02 BASIN STORAGE= .6745E-02 PERCENT ERROR=     .0


   ***          ***          ***          ***          ***

                     HYDROGRAPH AT STATION     PIPE
                       FOR PLAN 2, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
```

```
+   (CFS)        (HR)
                              (CFS)
+     116.      12.17                    29.         10.         10.         10.
                          (INCHES)     5.168       6.937       6.937       6.937
                           (AC-FT)       14.         19.         19.         19.

                          CUMULATIVE AREA =      .05 SQ MI


***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

                 PLAN  3 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                                 COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                        COMPUTATION TIME STEP
                     ELEMENT     ALPHA        M          DT         DX        PEAK    TIME TO      VOLUME    MAXIMUM
                                                                                        PEAK                   CELERITY
                                                       (MIN)       (FT)      (CFS)     (MIN)       (IN)      (FPS)

                       MAIN       5.51      1.25         .77     524.00     130.06    731.14       8.32     11.29

                                          INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                       MAIN       5.51      1.25        5.00                129.51    730.00       8.32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2308E+02 EXCESS= .0000E+00 OUTFLOW= .2307E+02 BASIN STORAGE= .8105E-02 PERCENT ERROR=     .0


      ***             ***             ***             ***             ***

                        HYDROGRAPH AT STATION     PIPE
                          FOR PLAN 3, RATIO = 1.00

   AK FLOW      TIME                                MAXIMUM AVERAGE FLOW
                                          6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                              (CFS)
+     130.      12.17                    35.         12.         12.         12.
                          (INCHES)     6.265       8.319       8.319       8.319
                           (AC-FT)       17.         23.         23.         23.

                          CUMULATIVE AREA =      .05 SQ MI


***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

                 PLAN  4 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                                 COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                        COMPUTATION TIME STEP
                     ELEMENT     ALPHA        M          DT         DX        PEAK    TIME TO      VOLUME    MAXIMUM
                                                                                        PEAK                   CELERITY
                                                       (MIN)       (FT)      (CFS)     (MIN)       (IN)      (FPS)

                       MAIN       5.51      1.25         .76     524.00     144.25    731.20       9.60     11.53

                                          INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                       MAIN       5.51      1.25        5.00                143.94    730.00       9.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2664E+02 EXCESS= .0000E+00 OUTFLOW= .2664E+02 BASIN STORAGE= .9423E-02 PERCENT ERROR=     .0


      ***             ***             ***             ***             ***

                        HYDROGRAPH AT STATION     PIPE
                          FOR PLAN 4, RATIO = 1.00

   AK FLOW      TIME                                MAXIMUM AVERAGE FLOW
                                          6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                              (CFS)
+     144.      12.17                    41.         13.         13.         13.
```

```
                    (INCHES)      7.262        9.605        9.605        9.605
                     (AC-FT)        20.          27.          27.          27.

                    CUMULATIVE AREA =      .05 SQ MI


***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

              PLAN  5 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                              COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                     COMPUTATION TIME STEP
                 ELEMENT     ALPHA        M          DT         DX        PEAK    TIME TO      VOLUME    MAXIMUM
                                                                                    PEAK                  CELERITY
                                                   (MIN)       (FT)      (CFS)     (MIN)       (IN)      (FPS)

                   MAIN       5.51      1.25         .74     524.00     162.49    731.05      10.70      11.80

                                      INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                   MAIN       5.51      1.25        5.00                162.02    730.00      10.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2968E+02 EXCESS= .0000E+00 OUTFLOW= .2968E+02 BASIN STORAGE= .9362E-02 PERCENT ERROR=     .0


     ***             ***             ***             ***             ***

                       HYDROGRAPH AT STATION     PIPE
                         FOR PLAN 5, RATIO = 1.00

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
   (CFS)       (HR)
                            (CFS)
+    162.     12.17                   44.         15.         15.         15.
                         (INCHES)    7.850      10.701      10.701      10.701
                          (AC-FT)       22.         30.         30.         30.

                        CUMULATIVE AREA =      .05 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            **************
            *            *
 341 KK     *      COMB  *
            *            *
            **************

 342 HC          HYDROGRAPH COMBINATION
                   ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE
                                                  ***


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            **************
            *            *
 343 KK     *      PIPE  *
            *            *
            **************

 344 KO          OUTPUT CONTROL VARIABLES
                   IPRNT           3  PRINT CONTROL
                   IPLOT           0  PLOT CONTROL
                   QSCAL          0.  HYDROGRAPH PLOT SCALE
                   IPNCH           0  PUNCH COMPUTED HYDROGRAPH
                    IOUT          21  SAVE HYDROGRAPH ON THIS UNIT
                   ISAV1           1  FIRST ORDINATE PUNCHED OR SAVED
                   ISAV2         289  LAST ORDINATE PUNCHED OR SAVED
                  TIMINT        .083  TIME INTERVAL IN HOURS
```

HYDROGRAPH ROUTING DATA

345 RD MUSKINGUM-CUNGE CHANNEL ROUTING

L	524.	CHANNEL LENGTH
S	.0050	SLOPE
N	.013	CHANNEL ROUGHNESS COEFFICIENT
CA	.00	CONTRIBUTING AREA
SHAPE	CIRC	CHANNEL SHAPE
WD	5.00	BOTTOM WIDTH OR DIAMETER
Z	.00	SIDE SLOPE

***

COMPUTED MUSKINGUM-CUNGE PARAMETERS
COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	5.72	1.25	.72	524.00	160.67	726.20	3.94	12.13
INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL								
MAIN	5.72	1.25	5.00		159.34	745.00	3.94	

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2227E+02 EXCESS= .0000E+00 OUTFLOW= .2226E+02 BASIN STORAGE= .6962E-02 PERCENT ERROR= .0

*** *** *** *** ***

HYDROGRAPH AT STATION PIPE
FOR PLAN 1, RATIO = 1.00

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
+ (CFS)	(HR)	(CFS)				
+ 159.	12.42		35.	11.	11.	11.
		(INCHES)	3.028	3.939	3.939	3.939
		(AC-FT)	17.	22.	22.	22.

CUMULATIVE AREA = .11 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

PLAN 2 INPUT DATA FOR STATION PIPE ARE SAME AS FOR PLAN 1

COMPUTED MUSKINGUM-CUNGE PARAMETERS
COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	5.72	1.25	.66	524.00	239.69	726.32	6.94	13.14
INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL								
MAIN	5.72	1.25	5.00		238.42	730.00	6.94	

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3923E+02 EXCESS= .0000E+00 OUTFLOW= .3922E+02 BASIN STORAGE= .1156E-01 PERCENT ERROR= .0

*** *** *** *** ***

HYDROGRAPH AT STATION PIPE
FOR PLAN 2, RATIO = 1.00

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
+ (CFS)	(HR)	(CFS)				

```
+     238.     12.17                    59.        20.        20.        20.
                          (INCHES)    5.169      6.939      6.939      6.939
                           (AC-FT)     29.        39.        39.        39.

                          CUMULATIVE AREA =     .11 SQ MI


***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

                PLAN  3 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                                COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                      COMPUTATION TIME STEP
                     ELEMENT    ALPHA       M          DT         DX       PEAK    TIME TO     VOLUME    MAXIMUM
                                                                                     PEAK                CELERITY
                                                     (MIN)       (FT)     (CFS)     (MIN)       (IN)      (FPS)

                       MAIN      5.72      1.25        .65     524.00    267.35    730.24       8.32     13.43

                                      INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                       MAIN      5.72      1.25       5.00                267.23    730.00       8.32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4705E+02 EXCESS= .0000E+00 OUTFLOW= .4704E+02 BASIN STORAGE= .1389E-01 PERCENT ERROR=     .0


     ***            ***            ***            ***            ***

                          HYDROGRAPH AT STATION     PIPE
                            FOR PLAN 3, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR      72-HR     24.00-HR
   (CFS)        (HR)
                          (CFS)
+     267.     12.17                    71.        24.        24.        24.
                          (INCHES)    6.266      8.322      8.322      8.322
                           (AC-FT)     35.        47.        47.        47.

                          CUMULATIVE AREA =     .11 SQ MI


***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

                PLAN  4 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                                COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                      COMPUTATION TIME STEP
                     ELEMENT    ALPHA       M          DT         DX       PEAK    TIME TO     VOLUME    MAXIMUM
                                                                                     PEAK                CELERITY
                                                     (MIN)       (FT)     (CFS)     (MIN)       (IN)      (FPS)

                       MAIN      5.72      1.25        .64     524.00    296.05    729.63       9.61     13.71

                                      INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                       MAIN      5.72      1.25       5.00                296.03    730.00       9.61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5432E+02 EXCESS= .0000E+00 OUTFLOW= .5431E+02 BASIN STORAGE= .1615E-01 PERCENT ERROR=     .0


     ***            ***            ***            ***            ***

                          HYDROGRAPH AT STATION     PIPE
                            FOR PLAN 4, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR      72-HR     24.00-HR
   (CFS)        (HR)
                          (CFS)
+     296.     12.17                    83.        27.        27.        27.
                          (INCHES)    7.264      9.608      9.608      9.608
                           (AC-FT)     41.        54.        54.        54.
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                    CUMULATIVE AREA =     .11 SQ MI

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

              PLAN  5 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                                COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                      COMPUTATION TIME STEP
                 ELEMENT    ALPHA       M        DT        DX       PEAK    TIME TO     VOLUME    MAXIMUM
                                                                     PEAK                          CELERITY
                                                (MIN)      (FT)     (CFS)     (MIN)      (IN)      (FPS)

                   MAIN      5.72      1.25       .62    524.00    333.78    730.31     10.70      14.04

                                      INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                   MAIN      5.72      1.25      5.00              333.75    730.00     10.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6052E+02 EXCESS= .0000E+00 OUTFLOW= .6051E+02 BASIN STORAGE= .1605E-01 PERCENT ERROR=     .0

     ***             ***             ***             ***             ***

                     HYDROGRAPH AT STATION     PIPE
                       FOR PLAN 5, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                              (CFS)
     334.     12.17                 89.         31.         31.         31.
                           (INCHES)  7.850     10.704      10.704      10.704
                            (AC-FT)    44.         61.         61.         61.

                     CUMULATIVE AREA =     .11 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
 346 KK     *      P2F   *
            *            *
            **************

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***
347 KP        PLAN  1 FOR STATION     P2F
                          RUNOFF COMPUTATION 2-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

348 BA          SUBBASIN CHARACTERISTICS
                      TAREA          .04  SUBBASIN AREA

                PRECIPITATION DATA

353 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .18     .50    2.40    2.55    2.75    3.30    4.10    4.75     .00     .00     .00     .00

                                                STORM AREA =     .04

349 LS          SCS LOSS RATE
                      STRTL          .15  INITIAL ABSTRACTION
                     CRVNBR        93.00  CURVE NUMBER
                      RTIMP          .00  PERCENT IMPERVIOUS AREA

350 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG          .19  LAG
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                                                  ***

                                                UNIT HYDROGRAPH
                                           13 END-OF-PERIOD ORDINATES
              24.       77.       91.       68.       36.       20.       11.        6.        3.        2.
               1.        1.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

 354 KP       PLAN  2 FOR STATION      P2F
                              RUNOFF COMPUTATION 10-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

 348 BA         SUBBASIN CHARACTERISTICS
                      TAREA         .04  SUBBASIN AREA

                PRECIPITATION DATA

 356 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .27     .75    3.35    3.95    4.40    5.40    6.60    7.80     .00     .00     .00     .00

                                                STORM AREA =      .04

 349 LS         SCS LOSS RATE
                      STRTL         .15  INITIAL ABSTRACTION
                     CRVNBR       93.00  CURVE NUMBER
                      RTIMP         .00  PERCENT IMPERVIOUS AREA

 350 UD         SCS DIMENSIONLESS UNITGRAPH
                       TLAG         .19  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                           13 END-OF-PERIOD ORDINATES
              24.       77.       91.       68.       36.       20.       11.        6.        3.        2.
               1.        1.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

 357 KP       PLAN  3 FOR STATION      P2F
                              RUNOFF COMPUTATION 25-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

 348 BA         SUBBASIN CHARACTERISTICS
                      TAREA         .04  SUBBASIN AREA

                PRECIPITATION DATA

 359 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .32     .90    3.62    4.65    5.25    6.50    7.70    9.20     .00     .00     .00     .00

                                                STORM AREA =      .04

 349 LS         SCS LOSS RATE
                      STRTL         .15  INITIAL ABSTRACTION
                     CRVNBR       93.00  CURVE NUMBER
                      RTIMP         .00  PERCENT IMPERVIOUS AREA

 350 UD         SCS DIMENSIONLESS UNITGRAPH
                       TLAG         .19  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                           13 END-OF-PERIOD ORDINATES
              24.       77.       91.       68.       36.       20.       11.        6.        3.        2.
               1.        1.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***
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360 KP        PLAN  4 FOR STATION      P2F
                          RUNOFF COMPUTATION 50-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

348 BA          SUBBASIN CHARACTERISTICS
                      TAREA          .04  SUBBASIN AREA

                PRECIPITATION DATA

362 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .34     .97    4.00    5.30    5.90    7.50    8.70   10.50     .00     .00     .00     .00

                                                STORM AREA -      .04

349 LS          SCS LOSS RATE
                      STRTL          .15  INITIAL ABSTRACTION
                     CRVNBR        93.00  CURVE NUMBER
                      RTIMP          .00  PERCENT IMPERVIOUS AREA

350 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG          .19  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          13 END-OF-PERIOD ORDINATES
                24.       77.       91.       68.       36.       20.       11.        6.        3.        2.
                 1.        1.        0.

***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

363 KP        PLAN  5 FOR STATION      P2F
                          RUNOFF COMPUTATION 100-YRS STORM IN BASIN

              SUBBASIN RUNOFF DATA

348 BA          SUBBASIN CHARACTERISTICS
                      TAREA          .04  SUBBASIN AREA

                PRECIPITATION DATA

365 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .39    1.10    4.50    5.65    6.80    8.00    9.80   11.60     .00     .00     .00     .00

                                                STORM AREA -      .04

349 LS          SCS LOSS RATE
                      STRTL          .15  INITIAL ABSTRACTION
                     CRVNBR        93.00  CURVE NUMBER
                      RTIMP          .00  PERCENT IMPERVIOUS AREA

350 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG          .19  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          13 END-OF-PERIOD ORDINATES
                24.       77.       91.       68.       36.       20.       11.        6.        3.        2.
                 1.        1.        0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

              **************
              *            *
366 KK        *      COMB  *
              *            *
              **************

367 HC          HYDROGRAPH COMBINATION
                      ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE
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                                                                    ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

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            *            *
368 KK      *      PIPE  *
            *            *
            **************

369 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          3  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
                      IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                       IOUT         21  SAVE HYDROGRAPH ON THIS UNIT
                      ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                      ISAV2        289  LAST ORDINATE PUNCHED OR SAVED
                     TIMINT       .083  TIME INTERVAL IN HOURS

            HYDROGRAPH ROUTING DATA

370 RD          MUSKINGUM-CUNGE CHANNEL ROUTING
                          L      1807.  CHANNEL LENGTH
                          S      .0050  SLOPE
                          N       .013  CHANNEL ROUGHNESS COEFFICIENT
                         CA        .00  CONTRIBUTING AREA
                      SHAPE       CIRC  CHANNEL SHAPE
                         WD       5.00  BOTTOM WIDTH OR DIAMETER
                          Z        .00  SIDE SLOPE

                                                    ***
                                COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                      COMPUTATION TIME STEP
                ELEMENT    ALPHA       M        DT        DX       PEAK    TIME TO      VOLUME    MAXIMUM
                                                                     PEAK                        CELERITY
                                                (MIN)      (FT)     (CFS)    (MIN)       (IN)      (FPS)

                  MAIN      5.72      1.25      2.31    903.50    228.81    727.72       3.93      13.04

                                     INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                  MAIN      5.72      1.25      5.00              227.64    730.00       3.93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3152E+02 EXCESS= .0000E+00 OUTFLOW= .3148E+02 BASIN STORAGE= .3177E-01 PERCENT ERROR=     .0

     ***          ***          ***          ***          ***

                      HYDROGRAPH AT STATION     PIPE
                        FOR PLAN 1, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                      6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                          (CFS)
+     228.     12.17                  49.         16.         16.         16.
                        (INCHES)    3.025      3.934       3.934       3.934
                         (AC-FT)     24.         31.         31.         31.

                       CUMULATIVE AREA =     .15 SQ MI

 ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

                PLAN  2 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                                COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                      COMPUTATION TIME STEP
                ELEMENT    ALPHA       M        DT        DX       PEAK    TIME TO      VOLUME    MAXIMUM
                                                                     PEAK                        CELERITY
                                                (MIN)      (FT)     (CFS)    (MIN)       (IN)      (FPS)
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                    MAIN        5.72       1.25       2.13     903.50     341.52     727.29       6.93      14.12

                                          INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                    MAIN        5.72       1.25       5.00                340.15     730.00       6.93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5553E+02 EXCESS= .0000E+00 OUTFLOW= .5547E+02 BASIN STORAGE= .5270E-01 PERCENT ERROR=     .0


     ***            ***            ***            ***            ***

                       HYDROGRAPH AT STATION     PIPE
                         FOR PLAN 2, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                          (CFS)
+     340.     12.17                 83.         28.         28.         28.
                        (INCHES)    5.167       6.933       6.933       6.933
                         (AC-FT)     41.         55.         55.         55.

                       CUMULATIVE AREA =     .15 SQ MI


***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

                PLAN  3 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                                COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                     COMPUTATION TIME STEP
                    ELEMENT    ALPHA       M         DT        DX       PEAK    TIME TO     VOLUME    MAXIMUM
                                                                                  PEAK                CELERITY
                                                   (MIN)      (FT)     (CFS)     (MIN)       (IN)      (FPS)

                      MAIN       5.72       1.25       2.09     903.50     379.58     729.61       8.31      14.41

                                          INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                      MAIN       5.72       1.25       5.00                379.50     730.00       8.32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6658E+02 EXCESS= .0000E+00 OUTFLOW= .6652E+02 BASIN STORAGE= .6340E-01 PERCENT ERROR-     .0


     ***            ***            ***            ***            ***

                       HYDROGRAPH AT STATION     PIPE
                         FOR PLAN 3, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                          (CFS)
+     379.     12.17                101.         34.         34.         34.
                        (INCHES)    6.265       8.316       8.316       8.316
                         (AC-FT)     50.         67.         67.         67.

                       CUMULATIVE AREA =     .15 SQ MI


***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

                PLAN  4 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                                COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                     COMPUTATION TIME STEP
                    ELEMENT    ALPHA       M         DT        DX       PEAK    TIME TO     VOLUME    MAXIMUM
                                                                                  PEAK                CELERITY
                                                   (MIN)      (FT)     (CFS)     (MIN)       (IN)      (FPS)

                      MAIN       5.72       1.25       2.05     903.50     421.28     728.84       9.60      14.71
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```
                                    INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                    MAIN       5.72       1.25       5.00                420.63    730.00      9.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7689E+02 EXCESS= .0000E+00 OUTFLOW= .7681E+02 BASIN STORAGE= .7364E-01 PERCENT ERROR=     .0


     ***            ***            ***            ***            ***

                        HYDROGRAPH AT STATION     PIPE
                          FOR PLAN 4, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                              (CFS)
+     421.     12.17                117.         39.         39.         39.
                          (INCHES)  7.262       9.601       9.601       9.601
                           (AC-FT)   58.         77.         77.         77.

                         CUMULATIVE AREA =     .15 SQ MI


***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

                PLAN  5 INPUT DATA FOR STATION     PIPE ARE SAME AS FOR PLAN  1
                                COMPUTED MUSKINGUM-CUNGE PARAMETERS
                                     COMPUTATION TIME STEP
                     ELEMENT    ALPHA       M          DT         DX       PEAK    TIME TO     VOLUME    MAXIMUM
                                                                                     PEAK                  CELERITY
                                                     (MIN)      (FT)     (CFS)     (MIN)       (IN)      (FPS)

                       MAIN       5.72       1.25       2.00    1807.00    474.09    730.02      10.70     15.06

                                    INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

                       MAIN       5.72       1.25       5.00                474.08    730.00      10.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8564E+02 EXCESS= .0000E+00 OUTFLOW= .8558E+02 BASIN STORAGE= .7318E-01 PERCENT ERROR=     .0


     ***            ***            ***            ***            ***

                        HYDROGRAPH AT STATION     PIPE
                          FOR PLAN 5, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.00-HR
+   (CFS)       (HR)
                              (CFS)
+     474.     12.17                127.         43.         43.         43.
                          (INCHES)  7.849      10.701      10.701      10.701
                           (AC-FT)   63.         86.         86.         86.

                         CUMULATIVE AREA =     .15 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


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                 *            *
 371 KK          *       P2G  *
                 *            *
                 **************


***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

 372 KP             PLAN  1 FOR STATION      P2G
                                RUNOFF COMPUTATION 2-YRS STORM IN BASIN
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            SUBBASIN RUNOFF DATA

373 BA        SUBBASIN CHARACTERISTICS
                TAREA          .06  SUBBASIN AREA

              PRECIPITATION DATA

378 PH                            DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
              ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
              5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                .18     .50    2.40    2.55    2.75    3.30    4.10    4.75     .00     .00     .00     .00

                                                STORM AREA =     .06

374 LS        SCS LOSS RATE
                STRTL          .15  INITIAL ABSTRACTION
               CRVNBR        93.00  CURVE NUMBER
                RTIMP          .00  PERCENT IMPERVIOUS AREA

375 UD        SCS DIMENSIONLESS UNITGRAPH
                 TLAG          .23  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                          16 END-OF-PERIOD ORDINATES
            23.       79.      115.      105.       74.       42.       26.       16.       10.        6.
             4.        2.        1.        1.        0.        0.

***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

379 KP        PLAN  2 FOR STATION      P2G
                            RUNOFF COMPUTATION 10-YRS STORM IN BASIN

            SUBBASIN RUNOFF DATA

373 BA        SUBBASIN CHARACTERISTICS
                TAREA          .06  SUBBASIN AREA

              PRECIPITATION DATA

381 PH                            DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
              ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
              5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                .27     .75    3.35    3.95    4.40    5.40    6.60    7.80     .00     .00     .00     .00

                                                STORM AREA =     .06

374 LS        SCS LOSS RATE
                STRTL          .15  INITIAL ABSTRACTION
               CRVNBR        93.00  CURVE NUMBER
                RTIMP          .00  PERCENT IMPERVIOUS AREA

375 UD        SCS DIMENSIONLESS UNITGRAPH
                 TLAG          .23  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                          16 END-OF-PERIOD ORDINATES
            23.       79.      115.      105.       74.       42.       26.       16.       10.        6.
             4.        2.        1.        1.        0.        0.

***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

382 KP        PLAN  3 FOR STATION      P2G
                            RUNOFF COMPUTATION 25-YRS STORM IN BASIN

            SUBBASIN RUNOFF DATA

373 BA        SUBBASIN CHARACTERISTICS
                TAREA          .06  SUBBASIN AREA

              PRECIPITATION DATA

384 PH                            DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
              ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
              5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
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                .32     .90    3.62    4.65    5.25    6.50    7.70    9.20     .00     .00     .00     .00

                                                STORM AREA =      .06

374 LS          SCS LOSS RATE
                      STRTL          .15  INITIAL ABSTRACTION
                     CRVNBR        93.00  CURVE NUMBER
                      RTIMP          .00  PERCENT IMPERVIOUS AREA

375 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG          .23  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          16 END-OF-PERIOD ORDINATES
              23.       79.      115.      105.       74.       42.       26.       16.       10.        6.
               4.        2.        1.        1.        0.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

385 KP        PLAN  4 FOR STATION      P2G
                           RUNOFF COMPUTATION 50-YRS STORM IN BASIN

            SUBBASIN RUNOFF DATA

373 BA          SUBBASIN CHARACTERISTICS
                       TAREA          .06  SUBBASIN AREA

                PRECIPITATION DATA

387 PH                                 DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .34     .97    4.00    5.30    5.90    7.50    8.70   10.50     .00     .00     .00     .00

                                                STORM AREA =      .06

374 LS          SCS LOSS RATE
                      STRTL          .15  INITIAL ABSTRACTION
                     CRVNBR        93.00  CURVE NUMBER
                      RTIMP          .00  PERCENT IMPERVIOUS AREA

375 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG          .23  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                          16 END-OF-PERIOD ORDINATES
              23.       79.      115.      105.       74.       42.       26.       16.       10.        6.
               4.        2.        1.        1.        0.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

388 KP        PLAN  5 FOR STATION      P2G
                           RUNOFF COMPUTATION 100-YRS STORM IN BASIN

            SUBBASIN RUNOFF DATA

373 BA          SUBBASIN CHARACTERISTICS
                       TAREA          .06  SUBBASIN AREA

                PRECIPITATION DATA

390 PH                                 DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .39    1.10    4.50    5.65    6.80    8.00    9.80   11.60     .00     .00     .00     .00

                                                STORM AREA =      .06

374 LS          SCS LOSS RATE
                      STRTL          .15  INITIAL ABSTRACTION
                     CRVNBR        93.00  CURVE NUMBER
                      RTIMP          .00  PERCENT IMPERVIOUS AREA

375 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG          .23  LAG
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                                                  ***

                                                UNIT HYDROGRAPH
                                            16 END-OF-PERIOD ORDINATES
              23.       79.      115.      105.       74.       42.       26.       16.       10.        6.
               4.        2.        1.        1.        0.        0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
 391 KK     *       P3B  *
            *            *
            **************

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

 392 KP         PLAN  1 FOR STATION      P3B
                                RUNOFF COMPUTATION 2-YRS STORM IN BASIN

            SUBBASIN RUNOFF DATA

 393 BA           SUBBASIN CHARACTERISTICS
                       TAREA          .05  SUBBASIN AREA

                  PRECIPITATION DATA

 398 PH                                 DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .18     .50    2.40    2.55    2.75    3.30    4.10    4.75     .00     .00     .00     .00

                                                STORM AREA =      .05

 394 LS           SCS LOSS RATE
                       STRTL          .15  INITIAL ABSTRACTION
                      CRVNBR        93.00  CURVE NUMBER
                       RTIMP          .00  PERCENT IMPERVIOUS AREA

 395 UD           SCS DIMENSIONLESS UNITGRAPH
                        TLAG          .09  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                             7 END-OF-PERIOD ORDINATES
             128.      159.       59.       22.        8.        3.        1.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

 399 KP         PLAN  2 FOR STATION      P3B
                                RUNOFF COMPUTATION 10-YRS STORM IN BASIN

            SUBBASIN RUNOFF DATA

 393 BA           SUBBASIN CHARACTERISTICS
                       TAREA          .05  SUBBASIN AREA

                  PRECIPITATION DATA

 401 PH                                 DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .27     .75    3.35    3.95    4.40    5.40    6.60    7.80     .00     .00     .00     .00

                                                STORM AREA =      .05

 394 LS           SCS LOSS RATE
                       STRTL          .15  INITIAL ABSTRACTION
                      CRVNBR        93.00  CURVE NUMBER
                       RTIMP          .00  PERCENT IMPERVIOUS AREA

 395 UD           SCS DIMENSIONLESS UNITGRAPH
                        TLAG          .09  LAG
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                                                  ***

                                                UNIT HYDROGRAPH
                                           7 END-OF-PERIOD ORDINATES
            128.      159.       59.       22.        8.        3.        1.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

402 KP      PLAN  3 FOR STATION      P3B
                           RUNOFF COMPUTATION 25-YRS STORM IN BASIN

            SUBBASIN RUNOFF DATA

393 BA        SUBBASIN CHARACTERISTICS
                 TAREA          .05  SUBBASIN AREA

              PRECIPITATION DATA

404 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
              ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
              5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                .32     .90    3.62    4.65    5.25    6.50    7.70    9.20     .00     .00     .00     .00

                                                STORM AREA =      .05

394 LS        SCS LOSS RATE
                 STRTL          .15  INITIAL ABSTRACTION
                CRVNBR        93.00  CURVE NUMBER
                 RTIMP          .00  PERCENT IMPERVIOUS AREA

395 UD        SCS DIMENSIONLESS UNITGRAPH
                 TLAG          .09  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                           7 END-OF-PERIOD ORDINATES
            128.      159.       59.       22.        8.        3.        1.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

405 KP      PLAN  4 FOR STATION      P3B
                           RUNOFF COMPUTATION 50-YRS STORM IN BASIN

            SUBBASIN RUNOFF DATA

393 BA        SUBBASIN CHARACTERISTICS
                 TAREA          .05  SUBBASIN AREA

              PRECIPITATION DATA

407 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
              ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
              5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                .34     .97    4.00    5.30    5.90    7.50    8.70   10.50     .00     .00     .00     .00

                                                STORM AREA =      .05

394 LS        SCS LOSS RATE
                 STRTL          .15  INITIAL ABSTRACTION
                CRVNBR        93.00  CURVE NUMBER
                 RTIMP          .00  PERCENT IMPERVIOUS AREA

395 UD        SCS DIMENSIONLESS UNITGRAPH
                 TLAG          .09  LAG

                                                  ***

                                                UNIT HYDROGRAPH
                                           7 END-OF-PERIOD ORDINATES
            128.      159.       59.       22.        8.        3.        1.

 ·    ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

408 KP      PLAN  5 FOR STATION      P3B
                           RUNOFF COMPUTATION 100-YRS STORM IN BASIN

            SUBBASIN RUNOFF DATA
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393 BA          SUBBASIN CHARACTERISTICS
                      TAREA          .05  SUBBASIN AREA

                PRECIPITATION DATA

410 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                  .39    1.10    4.50    5.65    6.80    8.00    9.80   11.60     .00     .00     .00     .00

                                                STORM AREA =      .05

394 LS          SCS LOSS RATE
                      STRTL          .15  INITIAL ABSTRACTION
                     CRVNBR        93.00  CURVE NUMBER
                      RTIMP          .00  PERCENT IMPERVIOUS AREA

395 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG          .09  LAG

                                                      ***

                                                UNIT HYDROGRAPH
                                            7 END-OF-PERIOD ORDINATES
                128.      159.       59.       22.        8.        3.        1.


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


                **************
                *            *
411 KK          *       P3A  *
                *            *
                **************


***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

412 KP          PLAN  1 FOR STATION      P3A
                                   RUNOFF COMPUTATION 2-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

413 BA            SUBBASIN CHARACTERISTICS
                        TAREA          .02  SUBBASIN AREA

                  PRECIPITATION DATA

418 PH                                DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 ......   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .18     .50    2.40    2.55    2.75    3.30    4.10    4.75     .00     .00     .00     .00

                                                  STORM AREA =      .02

414 LS            SCS LOSS RATE
                        STRTL          .15  INITIAL ABSTRACTION
                       CRVNBR        93.00  CURVE NUMBER
                        RTIMP          .00  PERCENT IMPERVIOUS AREA

415 UD            SCS DIMENSIONLESS UNITGRAPH
                         TLAG          .08  LAG

                                                      ***

                                                UNIT HYDROGRAPH
                                            7 END-OF-PERIOD ORDINATES
                65.       66.       21.        7.        2.        1.        0.


***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

  9 KP          PLAN  2 FOR STATION      P3A
                                   RUNOFF COMPUTATION 10-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

413 BA            SUBBASIN CHARACTERISTICS
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          TAREA          .02  SUBBASIN AREA

     PRECIPITATION DATA

421 PH                              DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
     ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
     5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
       .27     .75    3.35    3.95    4.40    5.40    6.60    7.80     .00     .00     .00     .00

                                        STORM AREA =      .02

414 LS   SCS LOSS RATE
          STRTL          .15  INITIAL ABSTRACTION
         CRVNBR        93.00  CURVE NUMBER
          RTIMP          .00  PERCENT IMPERVIOUS AREA

415 UD   SCS DIMENSIONLESS UNITGRAPH
           TLAG          .08  LAG

                                          ***

                                       UNIT HYDROGRAPH
                                  7 END-OF-PERIOD ORDINATES
          65.       66.       21.        7.        2.        1.        0.

***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

422 KP   PLAN  3 FOR STATION      P3A
                             RUNOFF COMPUTATION 25-YRS STORM IN BASIN

     SUBBASIN RUNOFF DATA

413 BA     SUBBASIN CHARACTERISTICS
            TAREA          .02  SUBBASIN AREA

           PRECIPITATION DATA

424 PH                              DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
     ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
     5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
       .32     .90    3.62    4.65    5.25    6.50    7.70    9.20     .00     .00     .00     .00

                                        STORM AREA -      .02

414 LS     SCS LOSS RATE
            STRTL          .15  INITIAL ABSTRACTION
           CRVNBR        93.00  CURVE NUMBER
            RTIMP          .00  PERCENT IMPERVIOUS AREA

415 UD     SCS DIMENSIONLESS UNITGRAPH
             TLAG          .08  LAG

                                          ***

                                       UNIT HYDROGRAPH
                                  7 END-OF-PERIOD ORDINATES
          65.       66.       21.        7.        2.        1.        0.

***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***    ***

425 KP   PLAN  4 FOR STATION      P3A
                             RUNOFF COMPUTATION 50-YRS STORM IN BASIN

     SUBBASIN RUNOFF DATA

413 BA     SUBBASIN CHARACTERISTICS
            TAREA          .02  SUBBASIN AREA

           PRECIPITATION DATA

427 PH                              DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
     ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
     5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
       .34     .97    4.00    5.30    5.90    7.50    8.70   10.50     .00     .00     .00     .00

                                        STORM AREA =      .02

414 LS     SCS LOSS RATE
            STRTL          .15  INITIAL ABSTRACTION
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                    CRVNBR        93.00  CURVE NUMBER
                     RTIMP          .00  PERCENT IMPERVIOUS AREA

415 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG          .08  LAG

                                                   ***

                                                UNIT HYDROGRAPH
                                            7 END-OF-PERIOD ORDINATES
              65.       66.       21.        7.        2.        1.        0.

***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***     ***

428 KP          PLAN  5 FOR STATION      P3A
                                   RUNOFF COMPUTATION 100-YRS STORM IN BASIN

                SUBBASIN RUNOFF DATA

413 BA            SUBBASIN CHARACTERISTICS
                      TAREA          .02  SUBBASIN AREA

                  PRECIPITATION DATA

430 PH                                 DEPTHS FOR   0-PERCENT HYPOTHETICAL STORM
                  ..... HYDRO-35 .....   ............... TP-40 ...............   ........... TP-49 ...........
                  5-MIN  15-MIN  60-MIN    2-HR    3-HR    6-HR   12-HR   24-HR   2-DAY   4-DAY   7-DAY  10-DAY
                    .39    1.10    4.50    5.65    6.80    8.00    9.80   11.60     .00     .00     .00     .00

                                                STORM AREA =      .02

414 LS            SCS LOSS RATE
                      STRTL          .15  INITIAL ABSTRACTION
                     CRVNBR        93.00  CURVE NUMBER
                      RTIMP          .00  PERCENT IMPERVIOUS AREA

 15 UD            SCS DIMENSIONLESS UNITGRAPH
                      TLAG          .08  LAG

                                                   ***

                                                UNIT HYDROGRAPH
                                            7 END-OF-PERIOD ORDINATES
              65.       66.       21.        7.        2.        1.        0.

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

                 **************
                 *            *
431 KK           *      COMB  *
                 *            *
                 **************

432 HC            HYDROGRAPH COMBINATION
                       ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                   ***

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

                 **************
                 *            *
433 KK           *      COMB  *
                 *            *
                 **************

434 HC            HYDROGRAPH COMBINATION
                       ICOMP           5  NUMBER OF HYDROGRAPHS TO COMBINE

                                                   ***
1

              PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
                                  FLOWS IN CUBIC FEET PER SECOND,  AREA IN SQUARE MILES
```

TIME TO PEAK IN HOURS

RATIOS APPLIED TO FLOWS

OPERATION	STATION	AREA	PLAN		RATIO 1 1.00
HYDROGRAPH AT					
+	E3	.03	1	FLOW	45.
				TIME	11.92
			2	FLOW	71.
				TIME	11.92
			3	FLOW	77.
				TIME	12.00
			4	FLOW	87.
				TIME	11.92
			5	FLOW	98.
				TIME	11.92
ROUTED TO					
+	CHANN	.03	1	FLOW	46.
				TIME	12.08
			2	FLOW	71.
				TIME	12.08
			3	FLOW	78.
				TIME	12.08
			4	FLOW	88.
				TIME	12.08
			5	FLOW	99.
				TIME	12.08
HYDROGRAPH AT					
+	E4	.02	1	FLOW	30.
				TIME	12.33
			2	FLOW	50.
				TIME	12.00
			3	FLOW	58.
				TIME	12.00
			4	FLOW	66.
				TIME	12.00
			5	FLOW	76.
				TIME	12.00
ROUTED TO					
+	CHANN	.02	1	FLOW	28.
				TIME	12.50
			2	FLOW	50.
				TIME	12.08
			3	FLOW	57.
				TIME	12.08
			4	FLOW	67.
				TIME	12.08
			5	FLOW	77.
				TIME	12.08
2 COMBINED AT					
+	COMB1	.05	1	FLOW	71.
				TIME	12.08
			2	FLOW	121.
				TIME	12.08
			3	FLOW	135.
				TIME	12.08
			4	FLOW	154.
				TIME	12.08
			5	FLOW	176.
				TIME	12.08
HYDROGRAPH AT					
+	E2	.01	1	FLOW	15.
				TIME	11.92
			2	FLOW	23.
				TIME	11.92
			3	FLOW	25.
				TIME	12.00
			4	FLOW	28.
				TIME	11.92
			5	FLOW	31.
				TIME	11.92
2 COMBINED AT					
+	COMB2	.06	1	FLOW	83.

```
                                        TIME        12.08
                                  2     FLOW         141.
                                        TIME        12.08
                                  3     FLOW         158.
                                        TIME        12.08
                                  4     FLOW         180.
                                        TIME        12.08
                                  5     FLOW         205.
                                        TIME        12.08

 ROUTED TO
+                CHANN       .06      1     FLOW          81.
                                        TIME        12.08
                                  2     FLOW         138.
                                        TIME        12.08
                                  3     FLOW         156.
                                        TIME        12.08
                                  4     FLOW         177.
                                        TIME        12.08
                                  5     FLOW         202.
                                        TIME        12.08

 HYDROGRAPH AT
+                  P1        .14      1     FLOW         157.
                                        TIME        12.58
                                  2     FLOW         255.
                                        TIME        12.58
                                  3     FLOW         290.
                                        TIME        12.58
                                  4     FLOW         327.
                                        TIME        12.58
                                  5     FLOW         370.
                                        TIME        12.58

  2 COMBINED AT
+                COMB3       .20      1     FLOW         232.
                                        TIME        12.50
                                  2     FLOW         372.
                                        TIME        12.50
                                  3     FLOW         420.
                                        TIME        12.50
                                  4     FLOW         472.
                                        TIME        12.50
                                  5     FLOW         534.
                                        TIME        12.50

 ROUTED TO
+                CHANN       .20      1     FLOW         230.
                                        TIME        12.58
                                  2     FLOW         370.
                                        TIME        12.50
                                  3     FLOW         418.
                                        TIME        12.50
                                  4     FLOW         470.
                                        TIME        12.50
                                  5     FLOW         533.
                                        TIME        12.50

 HYDROGRAPH AT
+                  E5        .03      1     FLOW          51.
                                        TIME        11.92
                                  2     FLOW          82.
                                        TIME        11.92
                                  3     FLOW          90.
                                        TIME        12.00
                                  4     FLOW         101.
                                        TIME        11.92
                                  5     FLOW         114.
                                        TIME        12.00

  2 COMBINED AT
+                COMB4       .23      1     FLOW         268.
                                        TIME        12.50
                                  2     FLOW         427.
                                        TIME        12.50
                                  3     FLOW         480.
                                        TIME        12.42
                                  4     FLOW         541.
                                        TIME        12.42
                                  5     FLOW         613.
                                        TIME        12.42
```

ROUTED TO					
+	CHANN	.23	1	FLOW	264.
				TIME	12.58
			2	FLOW	423.
				TIME	12.50
			3	FLOW	479.
				TIME	12.50
			4	FLOW	539.
				TIME	12.50
			5	FLOW	611.
				TIME	12.50
HYDROGRAPH AT					
+	P2E	.08	1	FLOW	113.
				TIME	12.42
			2	FLOW	167.
				TIME	12.42
			3	FLOW	188.
				TIME	12.25
			4	FLOW	209.
				TIME	12.25
			5	FLOW	235.
				TIME	12.25
ROUTED TO					
+	PIPE	.08	1	FLOW	113.
				TIME	12.50
			2	FLOW	167.
				TIME	12.42
			3	FLOW	188.
				TIME	12.33
			4	FLOW	208.
				TIME	12.33
			5	FLOW	234.
				TIME	12.33
ROGRAPH AT					
+	E6	.06	1	FLOW	93.
				TIME	12.00
			2	FLOW	150.
				TIME	12.00
			3	FLOW	167.
				TIME	12.00
			4	FLOW	189.
				TIME	12.00
			5	FLOW	214.
				TIME	12.00
3 COMBINED AT					
+	COMB5	.37	1	FLOW	448.
				TIME	12.50
			2	FLOW	706.
				TIME	12.42
			3	FLOW	801.
				TIME	12.33
			4	FLOW	899.
				TIME	12.33
			5	FLOW	1017.
				TIME	12.33
ROUTED TO					
+	CHANN	.37	1	FLOW	447.
				TIME	12.50
			2	FLOW	705.
				TIME	12.42
			3	FLOW	798.
				TIME	12.42
			4	FLOW	894.
				TIME	12.42
			5	FLOW	1013.
				TIME	12.42
HYDROGRAPH AT					
+	E7	.15	1	FLOW	175.
				TIME	12.58
			2	FLOW	278.
				TIME	12.58
			3	FLOW	315.
				TIME	12.58
			4	FLOW	353.

```
                                        TIME        12.58
                                   5    FLOW         400.
                                        TIME        12.58

  2 COMBINED AT
+                 COMB6       .52      1    FLOW         619.
                                        TIME        12.50
                                   2    FLOW         975.
                                        TIME        12.50
                                   3    FLOW        1102.
                                        TIME        12.42
                                   4    FLOW        1237.
                                        TIME        12.42
                                   5    FLOW        1400.
                                        TIME        12.42

 ROUTED TO
+                 CHANN       .52      1    FLOW         616.
                                        TIME        12.50
                                   2    FLOW         974.
                                        TIME        12.50
                                   3    FLOW        1099.
                                        TIME        12.42
                                   4    FLOW        1233.
                                        TIME        12.42
                                   5    FLOW        1396.
                                        TIME        12.42

 HYDROGRAPH AT
+                    E        .45      1    FLOW         456.
                                        TIME        12.75
                                   2    FLOW         752.
                                        TIME        12.67
                                   3    FLOW         862.
                                        TIME        12.67
                                   4    FLOW         974.
                                        TIME        12.67
                                   5    FLOW        1103.
                                        TIME        12.67

 HYDROGRAPH AT
+                   E1        .01      1    FLOW          10.
                                        TIME        12.42
                                   2    FLOW          17.
                                        TIME        12.08
                                   3    FLOW          19.
                                        TIME        12.08
                                   4    FLOW          22.
                                        TIME        12.08
                                   5    FLOW          25.
                                        TIME        12.08

  2 COMBINED AT
+                 COMB8       .46      1    FLOW         460.
                                        TIME        12.67
                                   2    FLOW         762.
                                        TIME        12.67
                                   3    FLOW         873.
                                        TIME        12.67
                                   4    FLOW         987.
                                        TIME        12.67
                                   5    FLOW        1117.
                                        TIME        12.67

 HYDROGRAPH AT
+                  P2A        .03      1    FLOW          41.
                                        TIME        12.08
                                   2    FLOW          60.
                                        TIME        12.08
                                   3    FLOW          66.
                                        TIME        12.17
                                   4    FLOW          74.
                                        TIME        12.08
                                   5    FLOW          83.
                                        TIME        12.08

   JTED TO
+                 PIPE        .03      1    FLOW          40.
                                        TIME        12.08
                                   2    FLOW          60.
                                        TIME        12.08
```

```
                                    3   FLOW          66.
                                        TIME        12.17
                                    4   FLOW          73.
                                        TIME        12.17
                                    5   FLOW          83.
                                        TIME        12.17

 HYDROGRAPH AT
+                   P2B       .03   1   FLOW          46.
                                        TIME        12.08
                                    2   FLOW          68.
                                        TIME        12.08
                                    3   FLOW          75.
                                        TIME        12.08
                                    4   FLOW          84.
                                        TIME        12.08
                                    5   FLOW          94.
                                        TIME        12.08

   2 COMBINED AT
+                   COMB      .05   1   FLOW          86.
                                        TIME        12.08
                                    2   FLOW         128.
                                        TIME        12.08
                                    3   FLOW         141.
                                        TIME        12.08
                                    4   FLOW         157.
                                        TIME        12.08
                                    5   FLOW         177.
                                        TIME        12.08

 HYDROGRAPH AT
+                   P2D       .03   1   FLOW          44.
                                        TIME        12.08
                                    2   FLOW          66.
                                        TIME        12.17
                                    3   FLOW          73.
                                        TIME        12.17
                                    4   FLOW          81.
                                        TIME        12.17
                                    5   FLOW          92.
                                        TIME        12.17

 ROUTED TO
+                   PIPE      .03   1   FLOW          44.
                                        TIME        12.17
                                    2   FLOW          65.
                                        TIME        12.17
                                    3   FLOW          73.
                                        TIME        12.17
                                    4   FLOW          81.
                                        TIME        12.17
                                    5   FLOW          91.
                                        TIME        12.17

 HYDROGRAPH AT
+                   P2C       .02   1   FLOW          34.
                                        TIME        12.42
                                    2   FLOW          51.
                                        TIME        12.17
                                    3   FLOW          57.
                                        TIME        12.17
                                    4   FLOW          64.
                                        TIME        12.17
                                    5   FLOW          71.
                                        TIME        12.17

   2 COMBINED AT
+                   COMB      .05   1   FLOW          78.
                                        TIME        12.17
                                    2   FLOW         117.
                                        TIME        12.17
                                    3   FLOW         130.
                                        TIME        12.17
                                    4   FLOW         145.
                                        TIME        12.17
                                    5   FLOW         163.
                                        TIME        12.17

 ROUTED TO
+                   PIPE      .05   1   FLOW          78.
```

```
                                        TIME        12.17
                                   2    FLOW         116.
                                        TIME        12.17
                                   3    FLOW         130.
                                        TIME        12.17
                                   4    FLOW         144.
                                        TIME        12.17
                                   5    FLOW         162.
                                        TIME        12.17

  2 COMBINED AT
+                  COMB        .11    1    FLOW         161.
                                        TIME        12.08
                                   2    FLOW         240.
                                        TIME        12.08
                                   3    FLOW         268.
                                        TIME        12.17
                                   4    FLOW         296.
                                        TIME        12.17
                                   5    FLOW         334.
                                        TIME        12.17

 ROUTED TO
+                  PIPE        .11    1    FLOW         159.
                                        TIME        12.42
                                   2    FLOW         238.
                                        TIME        12.17
                                   3    FLOW         267.
                                        TIME        12.17
                                   4    FLOW         296.
                                        TIME        12.17
                                   5    FLOW         334.
                                        TIME        12.17

 HYDROGRAPH AT
+                  P2F         .04    1    FLOW          71.
                                        TIME        12.08
                                   2    FLOW         106.
                                        TIME        12.08
                                   3    FLOW         117.
                                        TIME        12.08
                                   4    FLOW         130.
                                        TIME        12.08
                                   5    FLOW         147.
                                        TIME        12.08

  2 COMBINED AT
+                  COMB        .15    1    FLOW         231.
                                        TIME        12.08
                                   2    FLOW         344.
                                        TIME        12.08
                                   3    FLOW         380.
                                        TIME        12.17
                                   4    FLOW         422.
                                        TIME        12.08
                                   5    FLOW         474.
                                        TIME        12.08

 ROUTED TO
+                  PIPE        .15    1    FLOW         228.
                                        TIME        12.17
                                   2    FLOW         340.
                                        TIME        12.17
                                   3    FLOW         379.
                                        TIME        12.17
                                   4    FLOW         421.
                                        TIME        12.17
                                   5    FLOW         474.
                                        TIME        12.17

 HYDROGRAPH AT
+                  P2G         .06    1    FLOW         100.
                                        TIME        12.08
                                   2    FLOW         149.
                                        TIME        12.08
                                   3    FLOW         165.
                                        TIME        12.17
                                   4    FLOW         183.
                                        TIME        12.17
                                   5    FLOW         206.
                                        TIME        12.17
```