APPENDIX B

NEXT

GUY CAVES (BASINS A-D) + INEZ SHAFT (BASIN E)
100 YR/24 HR STORM EVENT
NO SNOW

```
1*************************************                    *************************************
*                                   *                    *                                   *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *                    *    U.S. ARMY CORPS OF ENGINEERS     *
*              JUN   1998           *                    *    HYDROLOGIC ENGINEERING CENTER    *
*           VERSION 4.1             *                    *          609 SECOND STREET          *
*                                   *                    *       DAVIS, CALIFORNIA 95616       *
*  RUN DATE   04JAN00  TIME  14:46:13   *                    *           (916) 756-1104          *
*                                   *                    *                                   *
*************************************                    *************************************

X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X                X
XXXXXXX  XXXX     X        XXXXX   X
X     X  X        X                X
X     X  X        X     X          X
X     X  XXXXXXX   XXXXX          XXX

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1                                                HEC-1 INPUT                                                PAGE  1

          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

             1          ID      LO GULCH
             2          ID   MILO GULCH
             3          ID   MILO GULCH
             4          IT      03 21DEC99    2400     601
             5          IO       3       0

             6          KK  BASINA
             7          KM   BASIN RUNOFF FOR BASIN A, RAISE #1
             8          BA   0.047
             9          PH     100            0.31    0.62    1.09    1.31    1.51    2.00    2.90    3.80
            10          LS       0      58
            11          UD    0.31

            12          KK  BASINB
            13          KM   BASIN RUNOFF FOR BASIN B, RAISE #2
            14          BA  0.0166
            15          LS       0    55.9
            16          UD    0.18

            17          KK  BASINC
            18          KM   BASIN RUNOFF FOR BASIN C, WEST MILO DIVERSION
            19          BA    0.22
            20          LS       0    55.9
            21          UD    0.33

            22          KK  BASIND
            23          KM   BASIN RUNOFF FOR BASIN D, SURFACE DIVERSION
            24          BA  0.0347
            25          LS       0      66
            26          UD    0.25

            27          KK  BASIN3
            28          KM   BASIN RUNOFF FOR BASIN E, INEZ SHAFT
            29          BA   0.484
            30          LS       0    55.3
            31          UD    0.36
            32          ZZ
1*************************************                    *************************************
*                                   *                    *                                   *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *                    *    U.S. ARMY CORPS OF ENGINEERS     *
*              JUN   1998           *                    *    HYDROLOGIC ENGINEERING CENTER    *
*           VERSION 4.1             *                    *          609 SECOND STREET          *
*                                   *                    *       DAVIS, CALIFORNIA 95616       *
*  RUN DATE   04JAN00  TIME  14:46:13   *                    *           (916) 756-1104          *
*                                   *                    *                                   *
*************************************                    *************************************

                              LO GULCH
                            MILO GULCH
                            MILO GULCH

   5 IO          OUTPUT CONTROL VARIABLES
                      IPRNT          3  PRINT CONTROL
```

NEXT

```
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

   IT          HYDROGRAPH TIME DATA
                     NMIN          3  MINUTES IN COMPUTATION INTERVAL
                    IDATE     21DEC99  STARTING DATE
                    ITIME        0000  STARTING TIME
                       NQ         601  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE     23DEC99  ENDING DATE
                   NDTIME        0600  ENDING TIME
                    ICENT          19  CENTURY MARK

                 COMPUTATION INTERVAL     .05 HOURS
                      TOTAL TIME BASE   30.00 HOURS

         ENGLISH UNITS
              DRAINAGE AREA          SQUARE MILES
              PRECIPITATION DEPTH    INCHES
              LENGTH, ELEVATION      FEET
              FLOW                   CUBIC FEET PER SECOND
              STORAGE VOLUME         ACRE-FEET
              SURFACE AREA           ACRES
              TEMPERATURE            DEGREES FAHRENHEIT


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


            **************
            *            *
  6 KK      *    BASINA  *
            *            *
            **************
                      BASIN RUNOFF FOR BASIN A, RAISE #1

            SUBBASIN RUNOFF DATA

  8 BA        SUBBASIN CHARACTERISTICS
                   TAREA         .05  SUBBASIN AREA

              PRECIPITATION DATA

  9 PH                              DEPTHS FOR 100-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
                .31     .62    1.09    1.31    1.51    2.00    2.90    3.80     .00     .00     .00     .00

                                                STORM AREA =     .05

 10 LS        SCS LOSS RATE
                   STRTL        1.45  INITIAL ABSTRACTION
                  CRVNBR       58.00  CURVE NUMBER
                   RTIMP         .00  PERCENT IMPERVIOUS AREA

 11 UD        SCS DIMENSIONLESS UNITGRAPH
                    TLAG         .31  LAG

                                                    ***

                                                UNIT HYDROGRAPH
                                            33 END-OF-PERIOD ORDINATES
              4.      13.      26.      44.      59.      67.      67.      63.      56.      47.
             35.      27.      21.      17.      13.      10.       8.       6.       5.       4.
              3.       2.       2.       1.       1.       1.       1.       1.       0.       0.
              0.       0.       0.

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

                     HYDROGRAPH AT STATION   BASINA

   TOTAL RAINFALL =    3.80, TOTAL LOSS =    3.22, TOTAL EXCESS =     .58

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                    6-HR       24-HR       72-HR     30.00-HR
+   (CFS)       (HR)
                          (CFS)
+      6.      12.45                 2.          1.          1.          1.
                        (INCHES)   .378        .576        .576        .576
                         (AC-FT)     1.          1.          1.          1.

                       CUMULATIVE AREA =     .05 SQ MI


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


            **************
            *            *
 12 KK      *    BASINB  *
            *            *
            **************
                      BASIN RUNOFF FOR BASIN B, RAISE #2
```

NEXT

```
                SUBBASIN RUNOFF DATA

 14 BA            SUBBASIN CHARACTERISTICS
                        TAREA          .02  SUBBASIN AREA

                  PRECIPITATION DATA

  9 PH                                DEPTHS FOR 100-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
                    .31     .62    1.09    1.31    1.51    2.00    2.90    3.80     .00     .00     .00     .00

                                                   STORM AREA =      .02

 15 LS            SCS LOSS RATE
                        STRTL         1.58  INITIAL ABSTRACTION
                       CRVNBR        55.90  CURVE NUMBER
                        RTIMP          .00  PERCENT IMPERVIOUS AREA

 16 UD            SCS DIMENSIONLESS UNITGRAPH
                         TLAG          .18  LAG

                                                        ***

                                                   UNIT HYDROGRAPH
                                              20 END-OF-PERIOD ORDINATES
                  5.      18.      34.      39.      36.      28.      18.      12.       8.       5.
                  4.       2.       2.       1.       1.       1.       0.       0.       0.       0.

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

                         HYDROGRAPH AT STATION   BASINB

    TOTAL RAINFALL =    3.80, TOTAL LOSS =    3.31, TOTAL EXCESS =     .49

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR       24-HR       72-HR     30.00-HR
+   (CFS)       (HR)
                                     (CFS)
+       2.     12.30                    1.          0.          0.          0.
                                  (INCHES)       .316        .488        .488        .488
                                   (AC-FT)         0.          0.          0.          0.

                         CUMULATIVE AREA =     .02 SQ MI


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


                *************
                *           *
 17 KK          *    BASINC *
                *           *
                *************
                         BASIN RUNOFF FOR BASIN C, WEST MILO DIVERSION

                SUBBASIN RUNOFF DATA

 19 BA            SUBBASIN CHARACTERISTICS
                        TAREA          .22  SUBBASIN AREA

                  PRECIPITATION DATA

  9 PH                                DEPTHS FOR 100-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
                    .31     .62    1.09    1.31    1.51    2.00    2.90    3.80     .00     .00     .00     .00

                                                   STORM AREA =      .22

 20 LS            SCS LOSS RATE
                        STRTL         1.58  INITIAL ABSTRACTION
                       CRVNBR        55.90  CURVE NUMBER
                        RTIMP          .00  PERCENT IMPERVIOUS AREA

 21 UD            SCS DIMENSIONLESS UNITGRAPH
                         TLAG          .33  LAG

                                                        ***

                                                   UNIT HYDROGRAPH
                                              35 END-OF-PERIOD ORDINATES
                 18.      52.     104.     177.     247.     287.     299.     292.     264.     231.
                186.     141.     111.      88.      72.      57.      45.      36.      29.      22.
                 18.      14.      11.       9.       7.       6.       4.       4.       3.       2.
                  2.       1.       1.       1.       0.

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

                         HYDROGRAPH AT STATION   BASINC

    TOTAL RAINFALL =    3.80, TOTAL LOSS =    3.31, TOTAL EXCESS =     .49
```

NEXT

```
  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     30.00-HR
+   (CFS)       (HR)
                          (CFS)
+      19.     12.50                 7.          3.          2.          2.
                        (INCHES)   .310        .488        .488        .488
                         (AC-FT)     4.          6.          6.          6.

                        CUMULATIVE AREA =     .22 SQ MI


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


            **************
            *            *
  22 KK     *    BASIND  *
            *            *
            **************
                      BASIN RUNOFF FOR BASIN D, SURFACE DIVERSION

               SUBBASIN RUNOFF DATA

  24 BA          SUBBASIN CHARACTERISTICS
                       TAREA          .03  SUBBASIN AREA

                 PRECIPITATION DATA

   9 PH                              DEPTHS FOR 100-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
                   .31     .62    1.09    1.31    1.51    2.00    2.90    3.80     .00     .00     .00     .00

                                                   STORM AREA =     .03

  25 LS          SCS LOSS RATE
                       STRTL        1.03  INITIAL ABSTRACTION
                      CRVNBR       66.00  CURVE NUMBER
                       RTIMP         .00  PERCENT IMPERVIOUS AREA

  26 UD          SCS DIMENSIONLESS UNITGRAPH
                        TLAG         .25  LAG

                                                        ***

                                                   UNIT HYDROGRAPH
                                              27 END-OF-PERIOD ORDINATES
                 5.      16.      34.      52.      60.      60.      54.      44.      32.      23.
                17.      13.      10.       7.       5.       4.       3.       2.       2.       1.
                 1.       1.       1.       0.       0.       0.       0.

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

                       HYDROGRAPH AT STATION   BASIND

    TOTAL RAINFALL =    3.80, TOTAL LOSS =    2.83, TOTAL EXCESS =     .97

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     30.00-HR
+   (CFS)       (HR)
                          (CFS)
+      11.     12.30                 2.          1.          1.          1.
                        (INCHES)   .666        .968        .968        .968
                         (AC-FT)     1.          2.          2.          2.

                        CUMULATIVE AREA =     .03 SQ MI


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


            **************
            *            *
  27 KK     *    BASIN3  *
            *            *
            **************
                      BASIN RUNOFF FOR BASIN E, INEZ SHAFT

               SUBBASIN RUNOFF DATA

  29 BA          SUBBASIN CHARACTERISTICS
                       TAREA          .48  SUBBASIN AREA

                 PRECIPITATION DATA

   9 PH                              DEPTHS FOR 100-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
                   .31     .62    1.09    1.31    1.51    2.00    2.90    3.80     .00     .00     .00     .00
```

NEXT