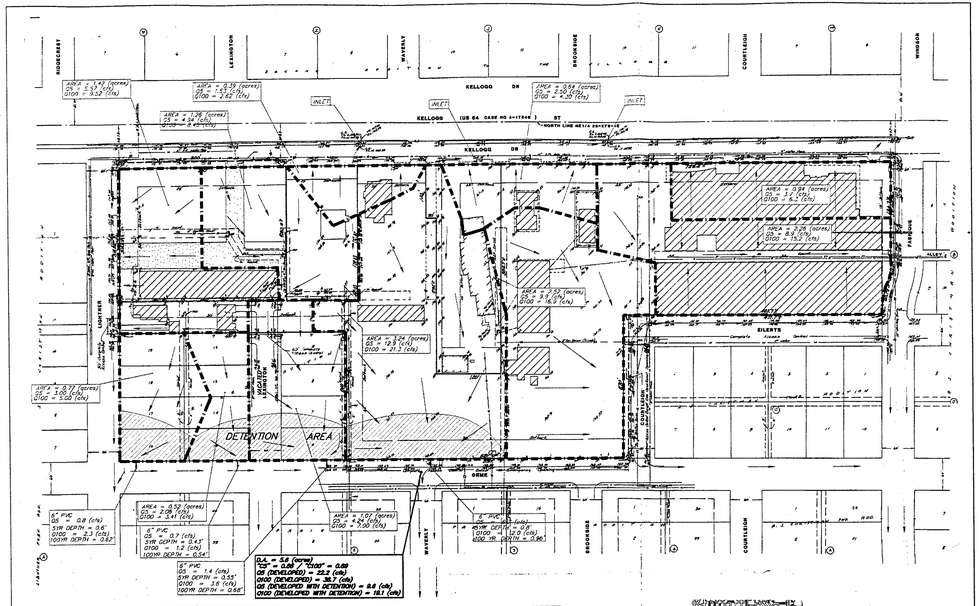
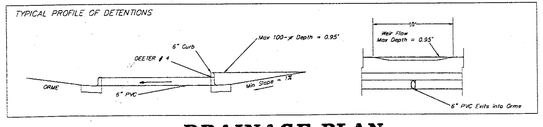



TYPICAL PROFILE OF DETENTIONS




# DRAINAGE PLAN

## DAVIS MOORE 5TH & 13TH ADDITIONS

Owner: D. and M. Investments, a partnership

This proposed Drainage Plan will detain the peak runoff from existing paved areas and the new Davis Moore 13th Addition by detaining the runoff in the parking lot before discharging off the property. Under this plan, the 100 year storm will discharge 17.6 (cfs) less with the proposed detention.

VICINITY PLAT

Revised 26 Feb 1999
Revised 15 Jan 1999

BAUGHMAN COMPANY P.A.
PLANNING CONSULTANTS

## Area #1

| Residential Conditions | | |
|---|---|---|
| D.A. = | 0.77 | acres |
| Tc = | 15 | min. |
| "I5" = | 4.56 | in/hr. |
| "I100" = | 7.37 | in/hr. |
| "C5" = | 0.57 | |
| "C100" = | 0.78 | |
| Q5 = | 2.0 | cfs |
| Q100 = | 4.4 | cfs |

| Commercially Developed | | |
|---|---|---|
| D.A. = | 0.77 | acres |
| Tc = | 15 | min. |
| "I5" = | 4.56 | in/hr. |
| "I100" = | 7.37 | in/hr. |
| "C5" = | 0.87 | |
| "C100" = | 0.89 | |
| Q5 = | 3.1 | cfs |
| Q100 = | 5.1 | cfs |

| Detained Peak Flow Rates | | |
|---|---|---|
| Q5 = | 0.8 | cfs |
| Q100 = | 2.3 | cfs |

## Area #2

| Residential Conditions | | |
|---|---|---|
| D.A. = | 0.52 | acres |
| Tc = | 15 | min. |
| "I5" = | 4.56 | in/hr. |
| "I100" = | 7.37 | in/hr. |
| "C5" = | 0.57 | |
| "C100" = | 0.78 | |
| Q5 = | 1.4 | cfs |
| Q100 = | 3.0 | cfs |

| Commercially Developed | | |
|---|---|---|
| D.A. = | 0.52 | acres |
| Tc = | 15 | min. |
| "I5" = | 4.56 | in/hr. |
| "I100" = | 7.37 | in/hr. |
| "C5" = | 0.87 | |
| "C100" = | 0.89 | |
| Q5 = | 2.1 | cfs |
| Q100 = | 3.4 | cfs |

| Detained Peak Flow Rates | | |
|---|---|---|
| Q5 = | 0.7 | cfs |
| Q100 = | 1.2 | cfs |

## Area #3

| Residential Conditions | | |
|---|---|---|
| D.A. = | 1.07 | acres |
| Tc = | 15 | min. |
| "I5" = | 4.56 | in/hr. |
| "I100" = | 7.37 | in/hr. |
| "C5" = | 0.57 | |
| "C100" = | 0.78 | |
| Q5 = | 2.8 | cfs |
| Q100 = | 6.2 | cfs |

| Commercially Developed | | |
|---|---|---|
| D.A. = | 1.07 | acres |
| Tc = | 15 | min. |
| "I5" = | 4.56 | in/hr. |
| "I100" = | 7.37 | in/hr. |
| "C5" = | 0.87 | |
| "C100" = | 0.89 | |
| Q5 = | 4.2 | cfs |
| Q100 = | 7.0 | cfs |

| Detained Peak Flow Rates | | |
|---|---|---|
| Q5 = | 1.4 | cfs |
| Q100 = | 3.6 | cfs |

## Area #4

| Residential Conditions | | |
|---|---|---|
| D.A. = | 3.24 | acres |
| Tc = | 15 | min. |
| "I5" = | 4.56 | in/hr. |
| "I100" = | 7.37 | in/hr. |
| "C5" = | 0.57 | |
| "C100" = | 0.78 | |
| Q5 = | 8.4 | cfs |
| Q100 = | 18.6 | cfs |

| Commercially Developed | | |
|---|---|---|
| D.A. = | 3.24 | acres |
| Tc = | 15 | min. |
| "I5" = | 4.56 | in/hr. |
| "I100" = | 7.37 | in/hr. |
| "C5" = | 0.87 | |
| "C100" = | 0.89 | |
| Q5 = | 12.9 | cfs |
| Q100 = | 21.3 | cfs |

| Detained Peak Flow Rates | | |
|---|---|---|
| Q5 = | 6.7 | cfs |
| Q100 = | 12.0 | cfs |

Minimum Time Of Concetration = 15 min. per City of Wichita's Interim Drainage and Storm Sewer Policy, Item 8d
Rational Method runoff coefficients obtained from Attachment D, City of Wichita's Drainage and Storm Sewer Policy

| Detention Volume | | | | | | |
|---|---|---|---|---|---|---|
| Depth ft. | Area sq. ft. | Avg. Area sq. ft. | Delta z ft | Incremental Volume cu. ft. | Cummulative Volume cu. ft. | Cummulative Volume ac-ft |
| 0 | 0 | | | | | |
| | | 392.7 | 0.1 | 39.27 | 39.27 | 0.0009 |
| 0.1 | 785.4 | | | | | |
| | | 1963.5 | 0.1 | 196.35 | 235.62 | 0.0054 |
| 0.2 | 3141.6 | | | | | |
| | | 5105.1 | 0.1 | 510.51 | 746.13 | 0.0171 |
| 0.3 | 7068.6 | | | | | |
| | | 9817.5 | 0.1 | 981.75 | 1727.88 | 0.0397 |
| 0.4 | 12566.4 | | | | | |
| | | 16100.68 | 0.1 | 1610.0675 | 3337.9475 | 0.0766 |
| 0.5 | 19634.95 | | | | | |
| | | 23954.63 | 0.1 | 2395.4625 | 5733.41 | 0.1316 |
| 0.6 | 28274.3 | | | | | |
| | | 33379.4 | 0.1 | 3337.94 | 9071.35 | 0.2082 |
| 0.7 | 38484.5 | | | | | |
| | | 44375 | 0.1 | 4437.5 | 13508.85 | 0.3101 |
| 0.8 | 50265.5 | | | | | |
| | | 56941.4 | 0.1 | 5694.14 | 19202.99 | 0.4408 |
| 0.9 | 63617.3 | | | | | |
| | | 71078.55 | 0.1 | 7107.855 | 26310.845 | 0.6040 |
| 1 | 78539.8 | | | | | |
| | | 86786.5 | 0.1 | 8678.65 | 34989.495 | 0.8032 |
| 1.1 | 95033.2 | | | | | |

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*           VERSION 4.0.1E              *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/03/99  TIME  14:05:43   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```

```
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  DAVIS MOORE FACILITY
            2          IT       5 21JAN99       0     300
            3          IO       0       0
                       *
            4          KK    MAIN
            5          BA   .0012
            6          PH       0       0    0.86  1.8425    3.73     4.6    5.04    5.94
                       *     10       0  0.6175   1.305    2.53     3.1    3.39    4.02
                       *     20       0   0.544    1.14    2.15    2.66    2.91    3.42
                       *     50       0   0.464  0.9575    1.69    1.98    2.16    2.52
            7          UD     .15
            8          LS       0      98
                       *
            9          ZZ
```


```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*           VERSION 4.0.1E              *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/03/99  TIME  14:05:43   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```


DAVIS MOORE FACILITY

```
  3 IO        OUTPUT CONTROL VARIABLES
                IPRNT          0  PRINT CONTROL
                IPLOT          0  PLOT CONTROL
                QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                 NMIN          5  MINUTES IN COMPUTATION INTERVAL
                IDATE     21JAN99  STARTING DATE
```

| | | |
|---|---|---|
| ITIME | 0000 | STARTING TIME |
| NQ | 300 | NUMBER OF HYDROGRAPH ORDINATES |
| NDDATE | 22JAN99 | ENDING DATE |
| NDTIME | 0055 | ENDING TIME |
| ICENT | 19 | CENTURY MARK |

COMPUTATION INTERVAL 0.08 HOURS
TOTAL TIME BASE 24.92 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 |

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

4 KK

**********
* *
* MAIN *
* *
**********

SUBBASIN RUNOFF DATA

5 BA SUBBASIN CHARACTERISTICS

| | | |
|---|---|---|
| TAREA | 0.00 | SUBBASIN AREA |

PRECIPITATION DATA

6 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 |
| 0.86 | 1.84 | 3.73 | 4.60 | 5.04 | 5.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

STORM AREA = 0.00

8 LS SCS LOSS RATE

| | | |
|---|---|---|
| STRTL | 0.04 | INITIAL ABSTRACTION |
| CRVNBR | 98.00 | CURVE NUMBER |
| RTIMP | 0.00 | PERCENT IMPERVIOUS AREA |

7 UD SCS DIMENSIONLESS UNITGRAPH

| | | |
|---|---|---|
| TLAG | 0.15 | LAG |

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1. | 3. | 3. | 1. | 1. | 0. | 0. | 0. | 0. | 0. |
| 0. | | | | | | | | | |

HYDROGRAPH AT STATION MAIN

| DA MON HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | DA MON HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 JAN 0000 | 1 | 0.00 | 0.00 | 0.00 | 0. | 21 JAN 1230 | 151 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0005 | 2 | 0.02 | 0.02 | 0.00 | 0. | 21 JAN 1235 | 152 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0010 | 3 | 0.02 | 0.02 | 0.00 | 0. | 21 JAN 1240 | 153 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0015 | 4 | 0.02 | 0.02 | 0.00 | 0. | 21 JAN 1245 | 154 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0020 | 5 | 0.02 | 0.02 | 0.01 | 0. | 21 JAN 1250 | 155 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0025 | 6 | 0.02 | 0.01 | 0.01 | 0. | 21 JAN 1255 | 156 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0030 | 7 | 0.02 | 0.01 | 0.01 | 0. | 21 JAN 1300 | 157 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0035 | 8 | 0.02 | 0.01 | 0.01 | 0. | 21 JAN 1305 | 158 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0040 | 9 | 0.02 | 0.01 | 0.01 | 0. | 21 JAN 1310 | 159 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0045 | 10 | 0.02 | 0.01 | 0.02 | 0. | 21 JAN 1315 | 160 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0050 | 11 | 0.02 | 0.01 | 0.02 | 0. | 21 JAN 1320 | 161 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0055 | 12 | 0.03 | 0.01 | 0.02 | 0. | 21 JAN 1325 | 162 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0100 | 13 | 0.03 | 0.01 | 0.02 | 0. | 21 JAN 1330 | 163 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0105 | 14 | 0.03 | 0.01 | 0.02 | 0. | 21 JAN 1335 | 164 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0110 | 15 | 0.03 | 0.01 | 0.02 | 0. | 21 JAN 1340 | 165 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0115 | 16 | 0.03 | 0.00 | 0.02 | 0. | 21 JAN 1345 | 166 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0120 | 17 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1350 | 167 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0125 | 18 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1355 | 168 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0130 | 19 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1400 | 169 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0135 | 20 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1405 | 170 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0140 | 21 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1410 | 171 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0145 | 22 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1415 | 172 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0150 | 23 | 0.04 | 0.00 | 0.03 | 0. | 21 JAN 1420 | 173 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0155 | 24 | 0.04 | 0.00 | 0.04 | 0. | 21 JAN 1425 | 174 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0200 | 25 | 0.04 | 0.00 | 0.04 | 0. | 21 JAN 1430 | 175 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0205 | 26 | 0.06 | 0.00 | 0.06 | 0. | 21 JAN 1435 | 176 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0210 | 27 | 0.06 | 0.00 | 0.06 | 0. | 21 JAN 1440 | 177 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0215 | 28 | 0.07 | 0.00 | 0.06 | 0. | 21 JAN 1445 | 178 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0220 | 29 | 0.07 | 0.00 | 0.07 | 1. | 21 JAN 1450 | 179 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0225 | 30 | 0.08 | 0.00 | 0.08 | 1. | 21 JAN 1455 | 180 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0230 | 31 | 0.09 | 0.00 | 0.08 | 1. | 21 JAN 1500 | 181 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0235 | 32 | 0.14 | 0.00 | 0.13 | 1. | 21 JAN 1505 | 182 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0240 | 33 | 0.15 | 0.00 | 0.15 | 1. | 21 JAN 1510 | 183 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0245 | 34 | 0.18 | 0.00 | 0.17 | 1. | 21 JAN 1515 | 184 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0250 | 35 | 0.28 | 0.00 | 0.28 | 1. | 21 JAN 1520 | 185 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0255 | 36 | 0.34 | 0.00 | 0.34 | 2. | 21 JAN 1525 | 186 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0300 | 37 | 0.58 | 0.00 | 0.58 | 3. | 21 JAN 1530 | 187 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0305 | 38 | 0.86 | 0.00 | 0.86 | 4. | 21 JAN 1535 | 188 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0310 | 39 | 0.40 | 0.00 | 0.40 | 5. | 21 JAN 1540 | 189 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0315 | 40 | 0.31 | 0.00 | 0.30 | 5. | 21 JAN 1545 | 190 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0320 | 41 | 0.19 | 0.00 | 0.19 | 4. | 21 JAN 1550 | 191 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0325 | 42 | 0.16 | 0.00 | 0.16 | 3. | 21 JAN 1555 | 192 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0330 | 43 | 0.14 | 0.00 | 0.14 | 2. | 21 JAN 1600 | 193 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0335 | 44 | 0.09 | 0.00 | 0.09 | 2. | 21 JAN 1605 | 194 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0340 | 45 | 0.08 | 0.00 | 0.08 | 1. | 21 JAN 1610 | 195 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0345 | 46 | 0.08 | 0.00 | 0.08 | 1. | 21 JAN 1615 | 196 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0350 | 47 | 0.07 | 0.00 | 0.07 | 1. | 21 JAN 1620 | 197 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0355 | 48 | 0.06 | 0.00 | 0.06 | 1. | 21 JAN 1625 | 198 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0400 | 49 | 0.06 | 0.00 | 0.06 | 1. | 21 JAN 1630 | 199 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0405 | 50 | 0.04 | 0.00 | 0.04 | 1. | 21 JAN 1635 | 200 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0410 | 51 | 0.04 | 0.00 | 0.04 | 1. | 21 JAN 1640 | 201 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0415 | 52 | 0.04 | 0.00 | 0.04 | 0. | 21 JAN 1645 | 202 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0420 | 53 | 0.04 | 0.00 | 0.04 | 0. | 21 JAN 1650 | 203 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0425 | 54 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1655 | 204 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0430 | 55 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1700 | 205 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0435 | 56 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1705 | 206 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0440 | 57 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1710 | 207 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0445 | 58 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1715 | 208 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0450 | 59 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1720 | 209 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0455 | 60 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1725 | 210 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0500 | 61 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1730 | 211 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0505 | 62 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1735 | 212 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0510 | 63 | 0.03 | 0.00 | 0.03 | 0. | 21 JAN 1740 | 213 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0515 | 64 | 0.02 | 0.00 | 0.02 | 0. | 21 JAN 1745 | 214 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0520 | 65 | 0.02 | 0.00 | 0.02 | 0. | 21 JAN 1750 | 215 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0525 | 66 | 0.02 | 0.00 | 0.02 | 0. | 21 JAN 1755 | 216 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0530 | 67 | 0.02 | 0.00 | 0.02 | 0. | 21 JAN 1800 | 217 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0535 | 68 | 0.02 | 0.00 | 0.02 | 0. | 21 JAN 1805 | 218 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0540 | 69 | 0.02 | 0.00 | 0.02 | 0. | 21 JAN 1810 | 219 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0545 | 70 | 0.02 | 0.00 | 0.02 | 0. | 21 JAN 1815 | 220 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 JAN 0550 | 71 | 0.02 | 0.00 | 0.02 | 0. | * | 21 JAN 1820 | 221 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0555 | 72 | 0.02 | 0.00 | 0.02 | 0. | * | 21 JAN 1825 | 222 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0600 | 73 | 0.02 | 0.00 | 0.02 | 0. | * | 21 JAN 1830 | 223 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0605 | 74 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1835 | 224 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0610 | 75 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1840 | 225 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0615 | 76 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1845 | 226 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0620 | 77 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1850 | 227 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0625 | 78 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1855 | 228 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0630 | 79 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1900 | 229 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0635 | 80 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1905 | 230 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0640 | 81 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1910 | 231 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0645 | 82 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1915 | 232 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0650 | 83 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1920 | 233 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0655 | 84 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1925 | 234 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0700 | 85 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1930 | 235 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0705 | 86 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1935 | 236 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0710 | 87 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1940 | 237 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0715 | 88 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1945 | 238 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0720 | 89 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1950 | 239 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0725 | 90 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1955 | 240 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0730 | 91 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2000 | 241 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0735 | 92 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2005 | 242 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0740 | 93 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2010 | 243 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0745 | 94 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2015 | 244 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0750 | 95 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2020 | 245 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0755 | 96 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2025 | 246 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0800 | 97 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2030 | 247 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0805 | 98 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2035 | 248 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0810 | 99 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2040 | 249 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0815 | 100 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2045 | 250 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0820 | 101 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2050 | 251 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0825 | 102 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2055 | 252 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0830 | 103 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2100 | 253 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0835 | 104 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2105 | 254 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0840 | 105 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2110 | 255 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0845 | 106 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2115 | 256 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0850 | 107 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2120 | 257 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0855 | 108 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2125 | 258 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0900 | 109 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2130 | 259 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0905 | 110 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2135 | 260 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0910 | 111 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2140 | 261 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0915 | 112 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2145 | 262 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0920 | 113 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2150 | 263 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0925 | 114 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2155 | 264 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0930 | 115 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2200 | 265 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0935 | 116 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2205 | 266 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0940 | 117 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2210 | 267 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0945 | 118 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2215 | 268 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0950 | 119 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2220 | 269 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0955 | 120 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2225 | 270 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1000 | 121 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2230 | 271 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1005 | 122 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2235 | 272 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1010 | 123 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2240 | 273 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1015 | 124 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2245 | 274 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1020 | 125 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2250 | 275 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1025 | 126 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2255 | 276 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1030 | 127 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2300 | 277 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1035 | 128 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2305 | 278 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1040 | 129 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2310 | 279 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1045 | 130 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2315 | 280 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1050 | 131 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2320 | 281 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1055 | 132 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2325 | 282 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1100 | 133 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2330 | 283 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1105 | 134 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2335 | 284 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1110 | 135 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2340 | 285 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1115 | 136 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2345 | 286 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1120 | 137 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2350 | 287 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1125 | 138 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2355 | 288 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1130 | 139 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0000 | 289 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1135 | 140 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0005 | 290 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1140 | 141 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0010 | 291 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1145 | 142 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0015 | 292 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1150 | 143 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0020 | 293 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1155 | 144 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0025 | 294 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1200 | 145 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0030 | 295 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1205 | 146 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0035 | 296 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1210 | 147 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0040 | 297 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1215 | 148 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0045 | 298 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 JAN 1220 | 149 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0050 | 299 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1225 | 150 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0055 | 300 | 0.00 | 0.00 | 0.00 | 0. |
| | | | | | | * | | | | | | |

**********

TOTAL RAINFALL = 5.94, TOTAL LOSS = 0.24, TOTAL EXCESS = 5.70

| PEAK FLOW | TIME | | MAXIMUM AVERAGE FLOW | | | |
|---|---|---|---|---|---|---|
| | | | 6-HR | 24-HR | 72-HR | 24.92-HR |
| (CFS) | (HR) | (CFS) | | | | |
| 5. | 3.17 | | 1. | 0. | 0. | 0. |
| | | (INCHES) | 5.697 | 5.702 | 5.702 | 5.702 |
| | | (AC-FT) | 0. | 0. | 0. | 0. |

CUMULATIVE AREA = 0.00 SQ MI

1

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

| OPERATION | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD | | | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6-HOUR | 24-HOUR | 72-HOUR | | | |
| HYDROGRAPH AT | MAIN | 5. | 3.17 | 1. | 0. | 0. | 0.00 | | |

*** NORMAL END OF HEC-1 ***

100-yr Detention Routing , one 6" PVC pipe

| n | Time min | Time hr | Ii cfs | Ii+Ii+1 | 2Si/Dt-Oi | 2Si+1/Dt-Oi+1 | Oi cfs |
|---|---|---|---|---|---|---|---|
| 0 | 5 | 0.08 | 1.0 | 2 | 0.0000 | 2.0000 | 0.0 |
| 1 | 10 | 0.17 | 1.0 | 2 | 1.0469 | 3.0469 | 0.5 |
| 2 | 15 | 0.25 | 1.0 | 2 | 2.0229 | 4.0229 | 0.5 |
| 3 | 20 | 0.33 | 1.0 | 2 | 2.9372 | 4.9372 | 0.5 |
| 4 | 25 | 0.42 | 1.0 | 2 | 3.7937 | 5.7937 | 0.6 |
| 5 | 30 | 0.50 | 1.0 | 2 | 4.6061 | 6.6061 | 0.6 |
| 6 | 35 | 0.58 | 1.0 | 3 | 5.3964 | 8.3964 | 0.6 |
| 7 | 40 | 0.67 | 2.0 | 5 | 7.1378 | 12.1378 | 0.6 |
| 8 | 45 | 0.75 | 3.0 | 7 | 10.7774 | 17.7774 | 0.7 |
| 9 | 50 | 0.83 | 4.0 | 9 | 16.3328 | 25.3328 | 0.7 |
| 10 | 55 | 0.92 | 5.0 | 10 | 23.4562 | 33.4562 | 0.9 |
| 11 | 60 | 1.00 | 5.0 | 9 | 30.4267 | 39.4267 | 1.5 |
| 12 | 65 | 1.08 | 4.0 | 7 | 35.5497 | 42.5497 | 1.9 |
| 13 | 70 | 1.17 | 3.0 | 5 | 38.1308 | 43.1308 | 2.2 |
| 14 | 75 | 1.25 | 2.0 | 4 | 38.6079 | 42.6079 | 2.3 |
| 15 | 80 | 1.33 | 2.0 | 3 | 38.1786 | 41.1786 | 2.2 |
| 16 | 85 | 1.42 | 1.0 | 2 | 37.0048 | 39.0048 | 2.1 |
| 17 | 90 | 1.50 | 1.0 | 2 | 35.1877 | 37.1877 | 1.9 |
| 18 | 95 | 1.58 | 1.0 | 2 | 33.6285 | 35.6285 | 1.8 |
| 19 | 100 | 1.67 | 1.0 | 2 | 32.2907 | 34.2907 | 1.7 |
| 20 | 105 | 1.75 | 1.0 | 2 | 31.1427 | 33.1427 | 1.6 |
| 21 | 110 | 1.83 | 1.0 | 2 | 30.1576 | 32.1576 | 1.5 |
| 22 | 115 | 1.92 | 1.0 | 1 | 29.3124 | 30.3124 | 1.4 |
| 23 | 120 | 2.00 | 0.0 | 0 | 27.7291 | 27.7291 | 1.3 |
| 24 | 125 | 2.08 | 0.0 | 0 | 25.5124 | 25.5124 | 1.1 |
| 25 | 130 | 2.17 | 0.0 | 0 | 23.6104 | 23.6104 | 1.0 |
| 26 | 135 | 2.25 | 0.0 | 0 | 21.9783 | 21.9783 | 0.8 |
| 27 | 140 | 2.33 | 0.0 | 0 | 20.4709 | 20.4709 | 0.8 |
| 28 | 145 | 2.42 | 0.0 | 0 | 18.9860 | 18.9860 | 0.7 |
| 29 | 150 | 2.50 | 0.0 | 0 | 17.5233 | 17.5233 | 0.7 |
| 30 | 155 | 2.58 | 0.0 | 0 | 16.0825 | 16.0825 | 0.7 |
| 31 | 160 | 2.67 | 0.0 | 0 | 14.6632 | 14.6632 | 0.7 |
| 32 | 165 | 2.75 | 0.0 | 0 | 13.2651 | 13.2651 | 0.7 |
| 33 | 170 | 2.83 | 0.0 | 0 | 11.8879 | 11.8879 | 0.7 |
| 34 | 175 | 2.92 | 0.0 | 0 | 10.5340 | 10.5340 | 0.7 |
| 35 | 180 | 3.00 | 0.0 | 0 | 9.2171 | 9.2171 | 0.7 |
| 36 | 185 | 3.08 | 0.0 | 0 | 7.9361 | 7.9361 | 0.6 |
| 37 | 190 | 3.17 | 0.0 | 0 | 6.6901 | 6.6901 | 0.6 |
| 38 | 195 | 3.25 | 0.0 | 0 | 5.4780 | 5.4780 | 0.6 |
| 39 | 200 | 3.33 | 0.0 | 0 | 4.3003 | 4.3003 | 0.6 |
| 40 | 205 | 3.42 | 0.0 | 0 | 3.1971 | 3.1971 | 0.6 |
| 41 | 210 | 3.50 | 0.0 | 0 | 2.1637 | 2.1637 | 0.5 |
| 42 | 215 | 3.58 | 0.0 | 0 | 1.1955 | 1.1955 | 0.5 |
| 43 | 220 | 3.67 | 0.0 | 0 | 0.3993 | 0.3993 | 0.4 |
| 44 | 225 | 3.75 | 0.0 | 0 | -0.0538 | -0.0538 | 0.2 |
| 45 | 230 | 3.83 | 0.0 | 0 | -0.0538 | -0.0538 | 0.0 |
| 46 | 235 | 3.92 | 0.0 | 0 | -0.0538 | -0.0538 | 0.0 |
| 47 | 48 | 0.80 | 0.0 | 0 | -0.0538 | -0.0538 | 0.0 |
| 48 | 49 | 0.82 | 0.0 | 0 | -0.0538 | -0.0538 | 0.0 |
| 49 | 50 | 0.83 | 0.0 | 0 | -0.0538 | -0.0538 | 0.0 |
| 50 | 51 | 0.85 | 0.0 | 0 | -0.0538 | -0.0538 | 0.0 |

Davis Moore 0.77 acre D.A.

100-yr Detention Routing , one 6" PVC pipe

| Elev. ft | S ac-ft | O cfs | 2S/Dt cfs |
|---|---|---|---|
| 0 | 0 | 0.00 | 0 |
| 0.1 | 0.0009 | 0.34 | 0.5992 |
| 0.2 | 0.0054 | 0.48 | 2.0352 |
| 0.3 | 0.0171 | 0.59 | 5.5148 |
| 0.4 | 0.0397 | 0.68 | 12.1136 |
| 0.5 | 0.0766 | 0.76 | 22.8208 |
| 0.6 | 0.1316 | 1.97 | 39.8708 |
| 0.7 | 0.208 | 4.13 | 64.034 |
| 0.8 | 0.3101 | 6.89 | 96.1988 |
| 0.9 | 0.4408 | 10.15 | 137.1004 |
| 1 | 0.604 | 13.83 | 187.782 |
| 1.1 | 0.8033 | 17.90 | 249.2504 |
| 2 | 1.27 | 67.83 | 433.59 |
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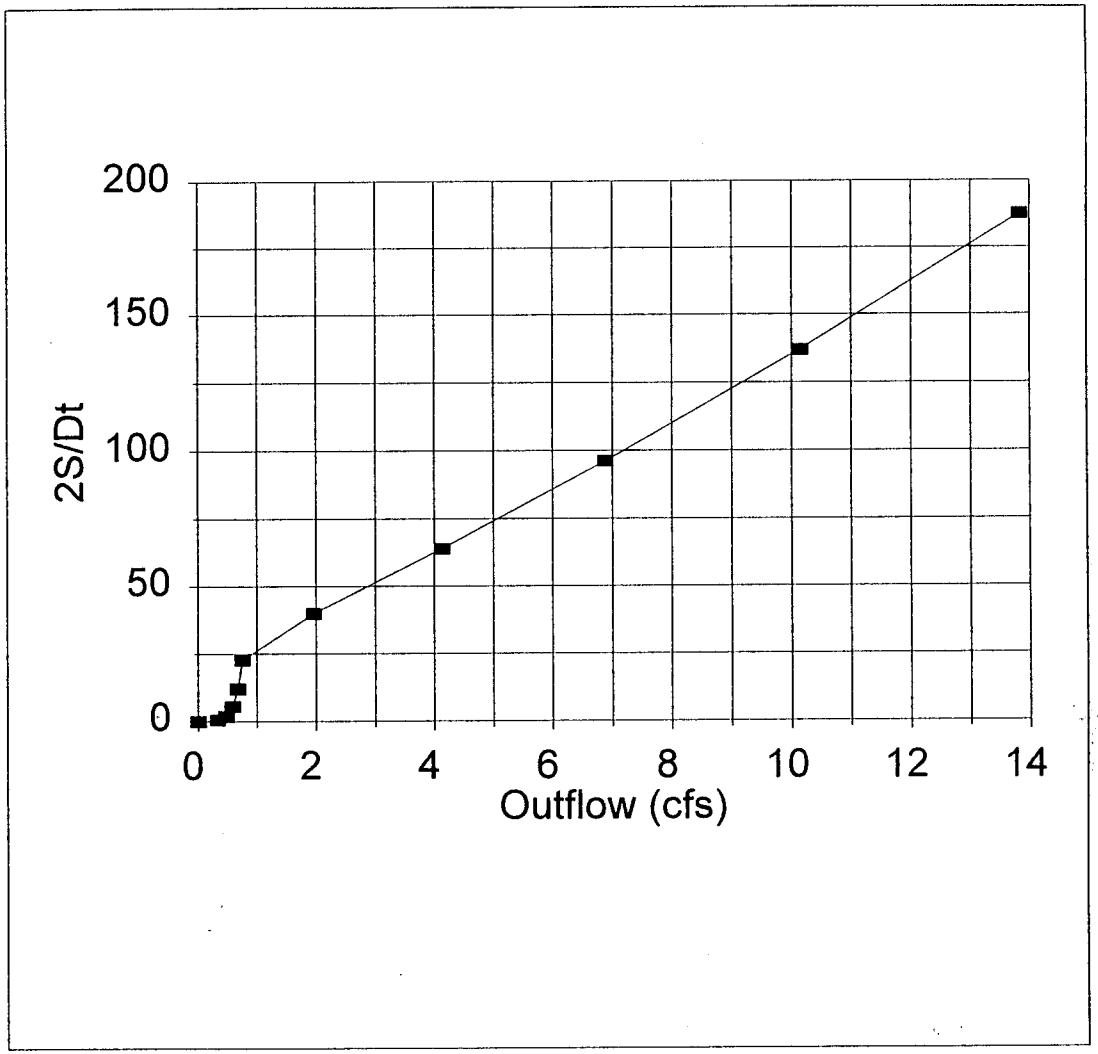


Davis Moore 0.77 acre D.A.

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*            VERSION 4.0.1E             *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/03/99  TIME  14:01:10   *
*****************************************
```


```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```


```
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  DAVIS MOORE FACILITY
  2           IT       5 21JAN99       0     300
  3           IO       0       0
              *
  4           KK    MAIN
  5           BA   .0012
              *      0       0    0.86  1.8425    3.73     4.6    5.04    5.94
              *     10       0  0.6175   1.305    2.53     3.1    3.39    4.02
  6           PH      20       0   0.544    1.14    2.15    2.66    2.91    3.42
              *     50       0   0.464  0.9575    1.69    1.98    2.16    2.52
  7           UD     .15
  8           LS       0      98
              *
  9           ZZ
```


```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*            VERSION 4.0.1E             *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/03/99  TIME  14:01:10   *
*****************************************
```

*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************


DAVIS MOORE FACILITY

```
3 IO          OUTPUT CONTROL VARIABLES
                    IPRNT          0  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

  IT          HYDROGRAPH TIME DATA
                     NMIN          5  MINUTES IN COMPUTATION INTERVAL
```

| | | |
|---|---|---|
| IDATE | 21JAN99 | STARTING DATE |
| ITIME | 0000 | STARTING TIME |
| NQ | 300 | NUMBER OF HYDROGRAPH ORDINATES |
| NDDATE | 22JAN99 | ENDING DATE |
| NDTIME | 0055 | ENDING TIME |
| ICENT | 19 | CENTURY MARK |

COMPUTATION INTERVAL 0.08 HOURS
TOTAL TIME BASE 24.92 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 |

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

```
**************
*            *
4 KK    *      MAIN  *
*            *
**************
```

SUBBASIN RUNOFF DATA

5 BA SUBBASIN CHARACTERISTICS

| | | |
|---|---|---|
| TAREA | 0.00 | SUBBASIN AREA |

PRECIPITATION DATA

6 PH DEPTHS FOR 20-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 |
| 0.54 | 1.14 | 2.15 | 2.66 | 2.91 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

STORM AREA = 0.00

8 LS SCS LOSS RATE

| | | |
|---|---|---|
| STRTL | 0.04 | INITIAL ABSTRACTION |
| CRVNBR | 98.00 | CURVE NUMBER |
| RTIMP | 0.00 | PERCENT IMPERVIOUS AREA |

7 UD SCS DIMENSIONLESS UNITGRAPH

| | | |
|---|---|---|
| TLAG | 0.15 | LAG |

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1. | 3. | 3. | 1. | 1. | 0. | 0. | 0. | 0. | 0. |
| 0. | | | | | | | | | |

HYDROGRAPH AT STATION MAIN

| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | JAN | 0000 | 1 | 0.00 | 0.00 | 0.00 | 0. | 21 | JAN | 1230 | 151 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0005 | 2 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1235 | 152 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0010 | 3 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1240 | 153 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0015 | 4 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1245 | 154 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0020 | 5 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1250 | 155 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0025 | 6 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1255 | 156 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0030 | 7 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1300 | 157 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0035 | 8 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1305 | 158 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0040 | 9 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1310 | 159 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0045 | 10 | 0.01 | 0.01 | 0.01 | 0. | 21 | JAN | 1315 | 160 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0050 | 11 | 0.01 | 0.01 | 0.01 | 0. | 21 | JAN | 1320 | 161 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0055 | 12 | 0.01 | 0.01 | 0.01 | 0. | 21 | JAN | 1325 | 162 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0100 | 13 | 0.01 | 0.01 | 0.01 | 0. | 21 | JAN | 1330 | 163 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0105 | 14 | 0.01 | 0.01 | 0.01 | 0. | 21 | JAN | 1335 | 164 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0110 | 15 | 0.02 | 0.01 | 0.01 | 0. | 21 | JAN | 1340 | 165 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0115 | 16 | 0.02 | 0.01 | 0.01 | 0. | 21 | JAN | 1345 | 166 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0120 | 17 | 0.02 | 0.01 | 0.01 | 0. | 21 | JAN | 1350 | 167 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0125 | 18 | 0.02 | 0.00 | 0.01 | 0. | 21 | JAN | 1355 | 168 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0130 | 19 | 0.02 | 0.00 | 0.01 | 0. | 21 | JAN | 1400 | 169 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0135 | 20 | 0.02 | 0.00 | 0.01 | 0. | 21 | JAN | 1405 | 170 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0140 | 21 | 0.02 | 0.00 | 0.01 | 0. | 21 | JAN | 1410 | 171 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0145 | 22 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1415 | 172 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0150 | 23 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1420 | 173 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0155 | 24 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1425 | 174 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0200 | 25 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1430 | 175 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0205 | 26 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1435 | 176 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0210 | 27 | 0.04 | 0.00 | 0.03 | 0. | 21 | JAN | 1440 | 177 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0215 | 28 | 0.04 | 0.00 | 0.03 | 0. | 21 | JAN | 1445 | 178 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0220 | 29 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1450 | 179 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0225 | 30 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1455 | 180 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0230 | 31 | 0.05 | 0.00 | 0.04 | 0. | 21 | JAN | 1500 | 181 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0235 | 32 | 0.07 | 0.00 | 0.07 | 0. | 21 | JAN | 1505 | 182 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0240 | 33 | 0.08 | 0.00 | 0.07 | 0. | 21 | JAN | 1510 | 183 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0245 | 34 | 0.09 | 0.00 | 0.09 | 1. | 21 | JAN | 1515 | 184 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0250 | 35 | 0.14 | 0.01 | 0.14 | 1. | 21 | JAN | 1520 | 185 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0255 | 36 | 0.18 | 0.00 | 0.17 | 1. | 21 | JAN | 1525 | 186 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0300 | 37 | 0.34 | 0.01 | 0.33 | 1. | 21 | JAN | 1530 | 187 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0305 | 38 | 0.52 | 0.01 | 0.52 | 2. | 21 | JAN | 1535 | 188 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0310 | 39 | 0.23 | 0.00 | 0.23 | 3. | 21 | JAN | 1540 | 189 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0315 | 40 | 0.16 | 0.00 | 0.16 | 3. | 21 | JAN | 1545 | 190 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0320 | 41 | 0.10 | 0.00 | 0.10 | 2. | 21 | JAN | 1550 | 191 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0325 | 42 | 0.08 | 0.00 | 0.08 | 2. | 21 | JAN | 1555 | 192 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0330 | 43 | 0.07 | 0.00 | 0.07 | 1. | 21 | JAN | 1600 | 193 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0335 | 44 | 0.05 | 0.00 | 0.05 | 1. | 21 | JAN | 1605 | 194 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0340 | 45 | 0.05 | 0.00 | 0.05 | 1. | 21 | JAN | 1610 | 195 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0345 | 46 | 0.04 | 0.00 | 0.04 | 1. | 21 | JAN | 1615 | 196 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0350 | 47 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1620 | 197 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0355 | 48 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1625 | 198 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0400 | 49 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1630 | 199 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0405 | 50 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1635 | 200 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0410 | 51 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1640 | 201 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0415 | 52 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1645 | 202 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0420 | 53 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1650 | 203 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0425 | 54 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1655 | 204 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0430 | 55 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1700 | 205 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0435 | 56 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1705 | 206 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0440 | 57 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1710 | 207 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0445 | 58 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1715 | 208 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0450 | 59 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1720 | 209 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0455 | 60 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1725 | 210 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0500 | 61 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1730 | 211 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0505 | 62 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1735 | 212 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0510 | 63 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1740 | 213 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0515 | 64 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1745 | 214 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0520 | 65 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1750 | 215 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0525 | 66 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1755 | 216 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0530 | 67 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1800 | 217 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0535 | 68 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1805 | 218 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0540 | 69 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1810 | 219 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0545 | 70 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1815 | 220 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 JAN 0550 | 71 | 0.01 | 0.00 | 0.01 | 0. | * | 21 JAN 1820 | 221 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0555 | 72 | 0.01 | 0.00 | 0.01 | 0. | * | 21 JAN 1825 | 222 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0600 | 73 | 0.01 | 0.00 | 0.01 | 0. | * | 21 JAN 1830 | 223 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0605 | 74 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1835 | 224 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0610 | 75 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1840 | 225 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0615 | 76 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1845 | 226 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0620 | 77 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1850 | 227 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0625 | 78 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1855 | 228 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0630 | 79 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1900 | 229 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0635 | 80 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1905 | 230 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0640 | 81 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1910 | 231 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0645 | 82 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1915 | 232 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0650 | 83 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1920 | 233 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0655 | 84 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1925 | 234 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0700 | 85 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1930 | 235 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0705 | 86 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1935 | 236 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0710 | 87 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1940 | 237 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0715 | 88 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1945 | 238 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0720 | 89 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1950 | 239 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0725 | 90 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1955 | 240 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0730 | 91 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2000 | 241 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0735 | 92 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2005 | 242 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0740 | 93 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2010 | 243 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0745 | 94 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2015 | 244 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0750 | 95 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2020 | 245 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0755 | 96 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2025 | 246 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0800 | 97 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2030 | 247 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0805 | 98 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2035 | 248 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0810 | 99 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2040 | 249 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0815 | 100 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2045 | 250 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0820 | 101 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2050 | 251 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0825 | 102 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2055 | 252 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0830 | 103 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2100 | 253 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0835 | 104 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2105 | 254 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0840 | 105 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2110 | 255 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0845 | 106 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2115 | 256 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0850 | 107 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2120 | 257 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0855 | 108 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2125 | 258 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0900 | 109 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2130 | 259 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0905 | 110 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2135 | 260 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0910 | 111 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2140 | 261 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0915 | 112 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2145 | 262 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0920 | 113 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2150 | 263 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0925 | 114 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2155 | 264 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0930 | 115 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2200 | 265 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0935 | 116 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2205 | 266 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0940 | 117 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2210 | 267 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0945 | 118 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2215 | 268 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0950 | 119 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2220 | 269 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 0955 | 120 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2225 | 270 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1000 | 121 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2230 | 271 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1005 | 122 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2235 | 272 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1010 | 123 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2240 | 273 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1015 | 124 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2245 | 274 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1020 | 125 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2250 | 275 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1025 | 126 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2255 | 276 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1030 | 127 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2300 | 277 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1035 | 128 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2305 | 278 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1040 | 129 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2310 | 279 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1045 | 130 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2315 | 280 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1050 | 131 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2320 | 281 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1055 | 132 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2325 | 282 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1100 | 133 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2330 | 283 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1105 | 134 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2335 | 284 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1110 | 135 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2340 | 285 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1115 | 136 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2345 | 286 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1120 | 137 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2350 | 287 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1125 | 138 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2355 | 288 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1130 | 139 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0000 | 289 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1135 | 140 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0005 | 290 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1140 | 141 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0010 | 291 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1145 | 142 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0015 | 292 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1150 | 143 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0020 | 293 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1155 | 144 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0025 | 294 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1200 | 145 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0030 | 295 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1205 | 146 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0035 | 296 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1210 | 147 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0040 | 297 | 0.00 | 0.00 | 0.00 | 0. | * |
| 21 JAN 1215 | 148 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0045 | 298 | 0.00 | 0.00 | 0.00 | 0. | * |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 JAN | 1220 | 149 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN | 0050 | 299 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN | 1225 | 150 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN | 0055 | 300 | 0.00 | 0.00 | 0.00 | 0. |
| | | | | | | | * | | | | | | | |

**********

TOTAL RAINFALL = 3.28, TOTAL LOSS = 0.23, TOTAL EXCESS = 3.05

| PEAK FLOW | TIME | | MAXIMUM AVERAGE FLOW | | | |
|---|---|---|---|---|---|---|
| | | | 6-HR | 24-HR | 72-HR | 24.92-HR |
| (CFS) | (HR) | (CFS) | | | | |
| 3. | 3.17 | | 0. | 0. | 0. | 0. |
| | | (INCHES) | 3.049 | 3.050 | 3.050 | 3.050 |
| | | (AC-FT) | 0. | 0. | 0. | 0. |

CUMULATIVE AREA = 0.00 SQ MI

1

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

| OPERATION | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD | | | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6-HOUR | 24-HOUR | 72-HOUR | | | |
| HYDROGRAPH AT | MAIN | 3. | 3.17 | 0. | 0. | 0. | 0.00 | | |

*** NORMAL END OF HEC-1 ***

5-yr Detention Routing , one 6" PVC pipe

| n | Time min | Time hr | Ii cfs | Ii+Ii+1 | 2Si/Dt-Oi | 2Si+1/Dt-Oi+1 | Oi cfs |
|---|---|---|---|---|---|---|---|
| 0 | 5 | 0.08 | 1.0 | 2 | 0.0000 | 2.0000 | 0.0 |
| 1 | 10 | 0.17 | 1.0 | 2 | 1.0469 | 3.0469 | 0.5 |
| 2 | 15 | 0.25 | 1.0 | 2 | 2.0229 | 4.0229 | 0.5 |
| 3 | 20 | 0.33 | 1.0 | 3 | 2.9372 | 5.9372 | 0.5 |
| 4 | 25 | 0.42 | 2.0 | 5 | 4.7457 | 9.7457 | 0.6 |
| 5 | 30 | 0.50 | 3.0 | 6 | 8.4503 | 14.4503 | 0.6 |
| 6 | 35 | 0.58 | 3.0 | 5 | 13.0554 | 18.0554 | 0.7 |
| 7 | 40 | 0.67 | 2.0 | 4 | 16.6066 | 20.6066 | 0.7 |
| 8 | 45 | 0.75 | 2.0 | 3 | 19.1197 | 22.1197 | 0.7 |
| 9 | 50 | 0.83 | 1.0 | 2 | 20.6102 | 22.6102 | 0.8 |
| 10 | 55 | 0.92 | 1.0 | 2 | 21.0933 | 23.0933 | 0.8 |
| 11 | 60 | 1.00 | 1.0 | 2 | 21.5346 | 23.5346 | 0.8 |
| 12 | 65 | 1.08 | 1.0 | 1 | 21.9133 | 22.9133 | 0.8 |
| 13 | 70 | 1.17 | 0.0 | 0 | 21.3802 | 21.3802 | 0.8 |
| 14 | 75 | 1.25 | 0.0 | 0 | 19.8817 | 19.8817 | 0.7 |
| 15 | 80 | 1.33 | 0.0 | 0 | 18.4056 | 18.4056 | 0.7 |
| 16 | 85 | 1.42 | 0.0 | 0 | 16.9516 | 16.9516 | 0.7 |
| 17 | 90 | 1.50 | 0.0 | 0 | 15.5193 | 15.5193 | 0.7 |
| 18 | 95 | 1.58 | 0.0 | 0 | 14.1084 | 14.1084 | 0.7 |
| 19 | 100 | 1.67 | 0.0 | 0 | 12.7186 | 12.7186 | 0.7 |
| 20 | 105 | 1.75 | 0.0 | 0 | 11.3496 | 11.3496 | 0.7 |
| 21 | 110 | 1.83 | 0.0 | 0 | 10.0104 | 10.0104 | 0.7 |
| 22 | 115 | 1.92 | 0.0 | 0 | 8.7078 | 8.7078 | 0.7 |
| 23 | 120 | 2.00 | 0.0 | 0 | 7.4407 | 7.4407 | 0.6 |
| 24 | 125 | 2.08 | 0.0 | 0 | 6.2081 | 6.2081 | 0.6 |
| 25 | 130 | 2.17 | 0.0 | 0 | 5.0092 | 5.0092 | 0.6 |
| 26 | 135 | 2.25 | 0.0 | 0 | 3.8612 | 3.8612 | 0.6 |
| 27 | 140 | 2.33 | 0.0 | 0 | 2.7857 | 2.7857 | 0.5 |
| 28 | 145 | 2.42 | 0.0 | 0 | 1.7783 | 1.7783 | 0.5 |
| 29 | 150 | 2.50 | 0.0 | 0 | 0.8684 | 0.8684 | 0.5 |
| 30 | 155 | 2.58 | 0.0 | 0 | 0.1359 | 0.1359 | 0.4 |
| 31 | 160 | 2.67 | 0.0 | 0 | -0.0183 | -0.0183 | 0.1 |
| 32 | 165 | 2.75 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 33 | 170 | 2.83 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 34 | 175 | 2.92 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 35 | 180 | 3.00 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 36 | 185 | 3.08 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 37 | 190 | 3.17 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 38 | 195 | 3.25 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 39 | 200 | 3.33 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 40 | 205 | 3.42 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 41 | 210 | 3.50 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 42 | 215 | 3.58 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 43 | 220 | 3.67 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 44 | 225 | 3.75 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 45 | 230 | 3.83 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 46 | 235 | 3.92 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 47 | 48 | 0.80 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 48 | 49 | 0.82 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 49 | 50 | 0.83 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |
| 50 | 51 | 0.85 | 0.0 | 0 | -0.0183 | -0.0183 | 0.0 |

Davis Moore 0.77 acre D.A.

Detention Routing , one 6" PVC pipe

| Elev. ft | S ac-ft | O cfs | 2S/Dt cfs |
|---|---|---|---|
| 0 | 0 | 0.00 | 0 |
| 0.1 | 0.0009 | 0.34 | 0.5992 |
| 0.2 | 0.0054 | 0.48 | 2.0352 |
| 0.3 | 0.0171 | 0.59 | 5.5148 |
| 0.4 | 0.0397 | 0.68 | 12.1136 |
| 0.5 | 0.0766 | 0.76 | 22.8208 |
| 0.6 | 0.1316 | 1.97 | 39.8708 |
| 0.7 | 0.208 | 4.13 | 64.034 |
| 0.8 | 0.3101 | 6.89 | 96.1988 |
| 0.9 | 0.4408 | 10.15 | 137.1004 |
| 1 | 0.604 | 13.83 | 187.782 |
| 1.1 | 0.8033 | 17.90 | 249.2504 |
| 2 | 1.27 | 67.83 | 433.59 |
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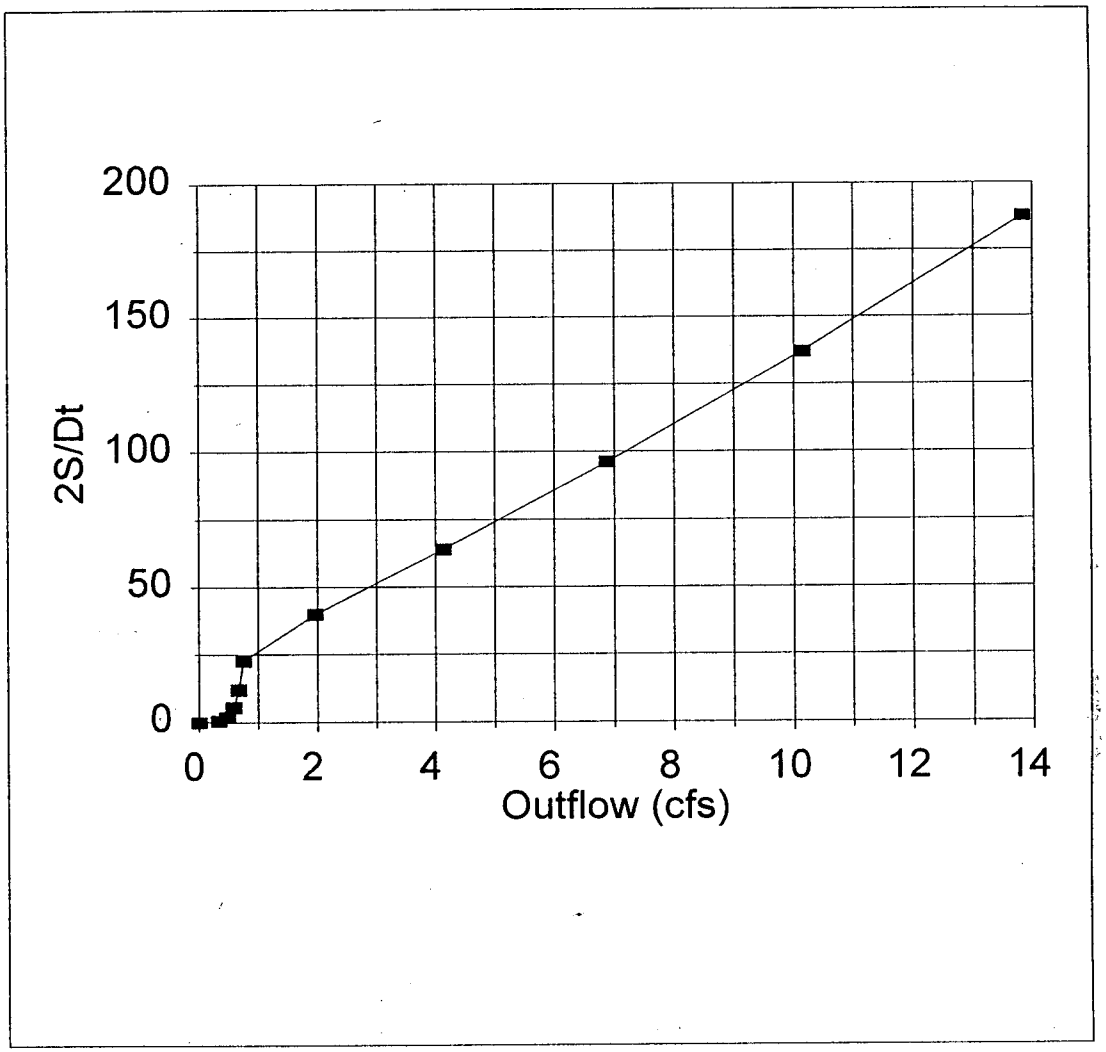


Davis Moore 0.77 acre D.A.

Davis Moore Site, 100-yr Storm, Area #2, D.A. = 0.52 ac.

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*           VERSION 4.0.1E              *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  11:21:56   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```

```
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  DAVIS MOORE FACILITY
        2           IT       5 21JAN99       0     300
        3           IO       0       0
                    *

        4           KK    MAIN
        5           BA   .0008
        6           PH       0       0    0.86  1.8425    3.73     4.6    5.04    5.94
                    *     10       0  0.6175   1.305    2.53     3.1    3.39    4.02
                    *     20       0   0.544    1.14    2.15    2.66    2.91    3.42
                    *     50       0   0.464  0.9575    1.69    1.98    2.16    2.52
        7           UD     .15
        8           LS       0      98
                    *
        9           ZZ
```

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*           VERSION 4.0.1E              *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  11:21:56   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```

DAVIS MOORE FACILITY

```
  3 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          0  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE     21JAN99  STARTING DATE
                     ITIME        0000  STARTING TIME
```

```
                NQ         300  NUMBER OF HYDROGRAPH ORDINATES
            NDDATE    22JAN99  ENDING DATE
            NDTIME        0055  ENDING TIME
            ICENT           19  CENTURY MARK

       COMPUTATION INTERVAL     0.08 HOURS
           TOTAL TIME BASE   24.92 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


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


      **************
      *            *
4 KK  *      MAIN  *
      *            *
      **************

   SUBBASIN RUNOFF DATA

5 BA    SUBBASIN CHARACTERISTICS
            TAREA        0.00  SUBBASIN AREA

        PRECIPITATION DATA

6 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
         0.86    1.84    3.73    4.60    5.04    5.94    0.00    0.00    0.00    0.00    0.00    0.00

                                              STORM AREA =     0.00

8 LS    SCS LOSS RATE
            STRTL        0.04  INITIAL ABSTRACTION
           CRVNBR       98.00  CURVE NUMBER
            RTIMP        0.00  PERCENT IMPERVIOUS AREA

7 UD    SCS DIMENSIONLESS UNITGRAPH
            TLAG        0.15  LAG

                                                  ***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

                                          UNIT HYDROGRAPH
                                       11 END-OF-PERIOD ORDINATES
        1.       2.       2.       1.       0.       0.       0.       0.       0.       0.
        0.
```

HYDROGRAPH AT STATION MAIN

| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | JAN | 0000 | 1 | 0.00 | 0.00 | 0.00 | 0. | 21 | JAN | 1230 | 151 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0005 | 2 | 0.02 | 0.02 | 0.00 | 0. | 21 | JAN | 1235 | 152 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0010 | 3 | 0.02 | 0.02 | 0.00 | 0. | 21 | JAN | 1240 | 153 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0015 | 4 | 0.02 | 0.02 | 0.00 | 0. | 21 | JAN | 1245 | 154 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0020 | 5 | 0.02 | 0.02 | 0.01 | 0. | 21 | JAN | 1250 | 155 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0025 | 6 | 0.02 | 0.01 | 0.01 | 0. | 21 | JAN | 1255 | 156 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0030 | 7 | 0.02 | 0.01 | 0.01 | 0. | 21 | JAN | 1300 | 157 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0035 | 8 | 0.02 | 0.01 | 0.01 | 0. | 21 | JAN | 1305 | 158 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0040 | 9 | 0.02 | 0.01 | 0.01 | 0. | 21 | JAN | 1310 | 159 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0045 | 10 | 0.02 | 0.01 | 0.02 | 0. | 21 | JAN | 1315 | 160 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0050 | 11 | 0.02 | 0.01 | 0.02 | 0. | 21 | JAN | 1320 | 161 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0055 | 12 | 0.03 | 0.01 | 0.02 | 0. | 21 | JAN | 1325 | 162 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0100 | 13 | 0.03 | 0.01 | 0.02 | 0. | 21 | JAN | 1330 | 163 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0105 | 14 | 0.03 | 0.01 | 0.02 | 0. | 21 | JAN | 1335 | 164 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0110 | 15 | 0.03 | 0.01 | 0.02 | 0. | 21 | JAN | 1340 | 165 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0115 | 16 | 0.03 | 0.00 | 0.02 | 0. | 21 | JAN | 1345 | 166 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0120 | 17 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1350 | 167 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0125 | 18 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1355 | 168 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0130 | 19 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1400 | 169 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0135 | 20 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1405 | 170 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0140 | 21 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1410 | 171 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0145 | 22 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1415 | 172 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0150 | 23 | 0.04 | 0.00 | 0.03 | 0. | 21 | JAN | 1420 | 173 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0155 | 24 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1425 | 174 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0200 | 25 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1430 | 175 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0205 | 26 | 0.06 | 0.00 | 0.06 | 0. | 21 | JAN | 1435 | 176 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0210 | 27 | 0.06 | 0.00 | 0.06 | 0. | 21 | JAN | 1440 | 177 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0215 | 28 | 0.07 | 0.00 | 0.06 | 0. | 21 | JAN | 1445 | 178 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0220 | 29 | 0.07 | 0.00 | 0.07 | 0. | 21 | JAN | 1450 | 179 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0225 | 30 | 0.08 | 0.00 | 0.08 | 0. | 21 | JAN | 1455 | 180 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0230 | 31 | 0.09 | 0.00 | 0.08 | 0. | 21 | JAN | 1500 | 181 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0235 | 32 | 0.14 | 0.00 | 0.13 | 1. | 21 | JAN | 1505 | 182 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0240 | 33 | 0.15 | 0.00 | 0.15 | 1. | 21 | JAN | 1510 | 183 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0245 | 34 | 0.18 | 0.00 | 0.17 | 1. | 21 | JAN | 1515 | 184 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0250 | 35 | 0.28 | 0.00 | 0.28 | 1. | 21 | JAN | 1520 | 185 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0255 | 36 | 0.34 | 0.00 | 0.34 | 1. | 21 | JAN | 1525 | 186 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0300 | 37 | 0.58 | 0.00 | 0.58 | 2. | 21 | JAN | 1530 | 187 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0305 | 38 | 0.86 | 0.00 | 0.86 | 3. | 21 | JAN | 1535 | 188 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0310 | 39 | 0.40 | 0.00 | 0.40 | 3. | 21 | JAN | 1540 | 189 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0315 | 40 | 0.31 | 0.00 | 0.30 | 3. | 21 | JAN | 1545 | 190 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0320 | 41 | 0.19 | 0.00 | 0.19 | 3. | 21 | JAN | 1550 | 191 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0325 | 42 | 0.16 | 0.00 | 0.16 | 2. | 21 | JAN | 1555 | 192 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0330 | 43 | 0.14 | 0.00 | 0.14 | 1. | 21 | JAN | 1600 | 193 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0335 | 44 | 0.09 | 0.00 | 0.09 | 1. | 21 | JAN | 1605 | 194 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0340 | 45 | 0.08 | 0.00 | 0.08 | 1. | 21 | JAN | 1610 | 195 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0345 | 46 | 0.08 | 0.00 | 0.08 | 1. | 21 | JAN | 1615 | 196 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0350 | 47 | 0.07 | 0.00 | 0.07 | 1. | 21 | JAN | 1620 | 197 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0355 | 48 | 0.06 | 0.00 | 0.06 | 1. | 21 | JAN | 1625 | 198 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0400 | 49 | 0.06 | 0.00 | 0.06 | 0. | 21 | JAN | 1630 | 199 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0405 | 50 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1635 | 200 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0410 | 51 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1640 | 201 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0415 | 52 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1645 | 202 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0420 | 53 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1650 | 203 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0425 | 54 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1655 | 204 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0430 | 55 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1700 | 205 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0435 | 56 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1705 | 206 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0440 | 57 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1710 | 207 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0445 | 58 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1715 | 208 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0450 | 59 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1720 | 209 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0455 | 60 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1725 | 210 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0500 | 61 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1730 | 211 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0505 | 62 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1735 | 212 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0510 | 63 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1740 | 213 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0515 | 64 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1745 | 214 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0520 | 65 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1750 | 215 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0525 | 66 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1755 | 216 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0530 | 67 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1800 | 217 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0535 | 68 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1805 | 218 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0540 | 69 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1810 | 219 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0545 | 70 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1815 | 220 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | JAN | 0550 | 71 | 0.02 | 0.00 | 0.02 | 0. | * | 21 | JAN | 1820 | 221 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0555 | 72 | 0.02 | 0.00 | 0.02 | 0. | * | 21 | JAN | 1825 | 222 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0600 | 73 | 0.02 | 0.00 | 0.02 | 0. | * | 21 | JAN | 1830 | 223 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0605 | 74 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1835 | 224 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0610 | 75 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1840 | 225 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0615 | 76 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1845 | 226 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0620 | 77 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1850 | 227 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0625 | 78 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1855 | 228 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0630 | 79 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1900 | 229 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0635 | 80 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1905 | 230 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0640 | 81 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1910 | 231 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0645 | 82 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1915 | 232 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0650 | 83 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1920 | 233 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0655 | 84 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1925 | 234 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0700 | 85 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1930 | 235 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0705 | 86 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1935 | 236 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0710 | 87 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1940 | 237 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0715 | 88 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1945 | 238 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0720 | 89 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1950 | 239 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0725 | 90 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 1955 | 240 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0730 | 91 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2000 | 241 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0735 | 92 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2005 | 242 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0740 | 93 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2010 | 243 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0745 | 94 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2015 | 244 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0750 | 95 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2020 | 245 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0755 | 96 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2025 | 246 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0800 | 97 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2030 | 247 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0805 | 98 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2035 | 248 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0810 | 99 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2040 | 249 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0815 | 100 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2045 | 250 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0820 | 101 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2050 | 251 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0825 | 102 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2055 | 252 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0830 | 103 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2100 | 253 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0835 | 104 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2105 | 254 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0840 | 105 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2110 | 255 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0845 | 106 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2115 | 256 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0850 | 107 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2120 | 257 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0855 | 108 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2125 | 258 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0900 | 109 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2130 | 259 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0905 | 110 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2135 | 260 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0910 | 111 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2140 | 261 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0915 | 112 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2145 | 262 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0920 | 113 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2150 | 263 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0925 | 114 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2155 | 264 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0930 | 115 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2200 | 265 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0935 | 116 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2205 | 266 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0940 | 117 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2210 | 267 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0945 | 118 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2215 | 268 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0950 | 119 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2220 | 269 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0955 | 120 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2225 | 270 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1000 | 121 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2230 | 271 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1005 | 122 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2235 | 272 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1010 | 123 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2240 | 273 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1015 | 124 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2245 | 274 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1020 | 125 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2250 | 275 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1025 | 126 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2255 | 276 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1030 | 127 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2300 | 277 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1035 | 128 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2305 | 278 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1040 | 129 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2310 | 279 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1045 | 130 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2315 | 280 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1050 | 131 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2320 | 281 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1055 | 132 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2325 | 282 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1100 | 133 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2330 | 283 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1105 | 134 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2335 | 284 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1110 | 135 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2340 | 285 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1115 | 136 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2345 | 286 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1120 | 137 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2350 | 287 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1125 | 138 | 0.00 | 0.00 | 0.00 | 0. | * | 21 | JAN | 2355 | 288 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1130 | 139 | 0.00 | 0.00 | 0.00 | 0. | * | 22 | JAN | 0000 | 289 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1135 | 140 | 0.00 | 0.00 | 0.00 | 0. | * | 22 | JAN | 0005 | 290 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1140 | 141 | 0.00 | 0.00 | 0.00 | 0. | * | 22 | JAN | 0010 | 291 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1145 | 142 | 0.00 | 0.00 | 0.00 | 0. | * | 22 | JAN | 0015 | 292 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1150 | 143 | 0.00 | 0.00 | 0.00 | 0. | * | 22 | JAN | 0020 | 293 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1155 | 144 | 0.00 | 0.00 | 0.00 | 0. | * | 22 | JAN | 0025 | 294 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1200 | 145 | 0.00 | 0.00 | 0.00 | 0. | * | 22 | JAN | 0030 | 295 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1205 | 146 | 0.00 | 0.00 | 0.00 | 0. | * | 22 | JAN | 0035 | 296 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1210 | 147 | 0.00 | 0.00 | 0.00 | 0. | * | 22 | JAN | 0040 | 297 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 1215 | 148 | 0.00 | 0.00 | 0.00 | 0. | * | 22 | JAN | 0045 | 298 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 21 JAN 1220 | 149 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0050 | 299 | 0.00 | 0.00 | 0.00 | 0. |
| | 21 JAN 1225 | 150 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0055 | 300 | 0.00 | 0.00 | 0.00 | 0. |
| | | | | | | | * | | | | | | |

**********

TOTAL RAINFALL = 5.94, TOTAL LOSS = 0.24, TOTAL EXCESS = 5.70

| PEAK FLOW | TIME | | MAXIMUM AVERAGE FLOW | | | |
|---|---|---|---|---|---|---|
| | | | 6-HR | 24-HR | 72-HR | 24.92-HR |
| (CFS) | (HR) | | | | | |
| | | (CFS) | | | | |
| 3. | 3.17 | | 0. | 0. | 0. | 0. |
| | | (INCHES) | 5.697 | 5.702 | 5.702 | 5.702 |
| | | (AC-FT) | 0. | 0. | 0. | 0. |

CUMULATIVE AREA = 0.00 SQ MI

1

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

| OPERATION | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD | | | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6-HOUR | 24-HOUR | 72-HOUR | | | |
| HYDROGRAPH AT | MAIN | 3. | 3.17 | 0. | 0. | 0. | 0.00 | | |

*** NORMAL END OF HEC-1 ***

100-yr Detention Routing , one 6" PVC pipe

| n | Time min | Time hr | Ii cfs | Ii+Ii+1 | 2Si/Dt-Oi | 2Si+1/Dt-Oi+1 | Oi cfs |
|---|---|---|---|---|---|---|---|
| 0 | 5 | 0.08 | 1.0 | 2 | 0.0000 | 2.0000 | 0.0 |
| 1 | 10 | 0.17 | 1.0 | 2 | 1.0469 | 3.0469 | 0.5 |
| 2 | 15 | 0.25 | 1.0 | 2 | 2.0229 | 4.0229 | 0.5 |
| 3 | 20 | 0.33 | 1.0 | 2 | 2.9372 | 4.9372 | 0.5 |
| 4 | 25 | 0.42 | 1.0 | 3 | 3.7937 | 6.7937 | 0.6 |
| 5 | 30 | 0.50 | 2.0 | 5 | 5.5789 | 10.5789 | 0.6 |
| 6 | 35 | 0.58 | 3.0 | 6 | 9.2607 | 15.2607 | 0.7 |
| 7 | 40 | 0.67 | 3.0 | 6 | 13.8537 | 19.8537 | 0.7 |
| 8 | 45 | 0.75 | 3.0 | 6 | 18.3780 | 24.3780 | 0.7 |
| 9 | 50 | 0.83 | 3.0 | 5 | 22.6370 | 27.6370 | 0.9 |
| 10 | 55 | 0.92 | 2.0 | 3 | 25.4334 | 28.4334 | 1.1 |
| 11 | 60 | 1.00 | 1.0 | 2 | 26.1168 | 28.1168 | 1.2 |
| 12 | 65 | 1.08 | 1.0 | 2 | 25.8451 | 27.8451 | 1.1 |
| 13 | 70 | 1.17 | 1.0 | 2 | 25.6120 | 27.6120 | 1.1 |
| 14 | 75 | 1.25 | 1.0 | 2 | 25.4119 | 27.4119 | 1.1 |
| 15 | 80 | 1.33 | 1.0 | 2 | 25.2403 | 27.2403 | 1.1 |
| 16 | 85 | 1.42 | 1.0 | 1 | 25.0930 | 26.0930 | 1.1 |
| 17 | 90 | 1.50 | 0.0 | 0 | 24.1086 | 24.1086 | 1.0 |
| 18 | 95 | 1.58 | 0.0 | 0 | 22.4058 | 22.4058 | 0.9 |
| 19 | 100 | 1.67 | 0.0 | 0 | 20.8920 | 20.8920 | 0.8 |
| 20 | 105 | 1.75 | 0.0 | 0 | 19.4008 | 19.4008 | 0.7 |
| 21 | 110 | 1.83 | 0.0 | 0 | 17.9319 | 17.9319 | 0.7 |
| 22 | 115 | 1.92 | 0.0 | 0 | 16.4850 | 16.4850 | 0.7 |
| 23 | 120 | 2.00 | 0.0 | 0 | 15.0596 | 15.0596 | 0.7 |
| 24 | 125 | 2.08 | 0.0 | 0 | 13.6556 | 13.6556 | 0.7 |
| 25 | 130 | 2.17 | 0.0 | 0 | 12.2726 | 12.2726 | 0.7 |
| 26 | 135 | 2.25 | 0.0 | 0 | 10.9102 | 10.9102 | 0.7 |
| 27 | 140 | 2.33 | 0.0 | 0 | 9.5830 | 9.5830 | 0.7 |
| 28 | 145 | 2.42 | 0.0 | 0 | 8.2921 | 8.2921 | 0.6 |
| 29 | 150 | 2.50 | 0.0 | 0 | 7.0363 | 7.0363 | 0.6 |
| 30 | 155 | 2.58 | 0.0 | 0 | 5.8148 | 5.8148 | 0.6 |
| 31 | 160 | 2.67 | 0.0 | 0 | 4.6266 | 4.6266 | 0.6 |
| 32 | 165 | 2.75 | 0.0 | 0 | 3.5028 | 3.5028 | 0.6 |
| 33 | 170 | 2.83 | 0.0 | 0 | 2.4500 | 2.4500 | 0.5 |
| 34 | 175 | 2.92 | 0.0 | 0 | 1.4638 | 1.4638 | 0.5 |
| 35 | 180 | 3.00 | 0.0 | 0 | 0.6152 | 0.6152 | 0.4 |
| 36 | 185 | 3.08 | 0.0 | 0 | -0.0679 | -0.0679 | 0.3 |
| 37 | 190 | 3.17 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 38 | 195 | 3.25 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 39 | 200 | 3.33 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 40 | 205 | 3.42 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 41 | 210 | 3.50 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 42 | 215 | 3.58 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 43 | 220 | 3.67 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 44 | 225 | 3.75 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 45 | 230 | 3.83 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 46 | 235 | 3.92 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 47 | 48 | 0.80 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 48 | 49 | 0.82 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 49 | 50 | 0.83 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |
| 50 | 51 | 0.85 | 0.0 | 0 | -0.0679 | -0.0679 | 0.0 |

Detention Routing , one 6" PVC pipe

| Elev. ft | S ac-ft | O cfs | 2S/Dt cfs |
|---|---|---|---|
| 0 | 0 | 0.00 | 0 |
| 0.1 | 0.0009 | 0.34 | 0.5992 |
| 0.2 | 0.0054 | 0.48 | 2.0352 |
| 0.3 | 0.0171 | 0.59 | 5.5148 |
| 0.4 | 0.0397 | 0.68 | 12.1136 |
| 0.5 | 0.0766 | 0.76 | 22.8208 |
| 0.6 | 0.1316 | 1.97 | 39.8708 |
| 0.7 | 0.208 | 4.13 | 64.034 |
| 0.8 | 0.3101 | 6.89 | 96.1988 |
| 0.9 | 0.4408 | 10.15 | 137.1004 |
| 1 | 0.604 | 13.83 | 187.782 |
| 1.1 | 0.8033 | 17.90 | 249.2504 |
| 2 | 1.27 | 67.83 | 433.59 |
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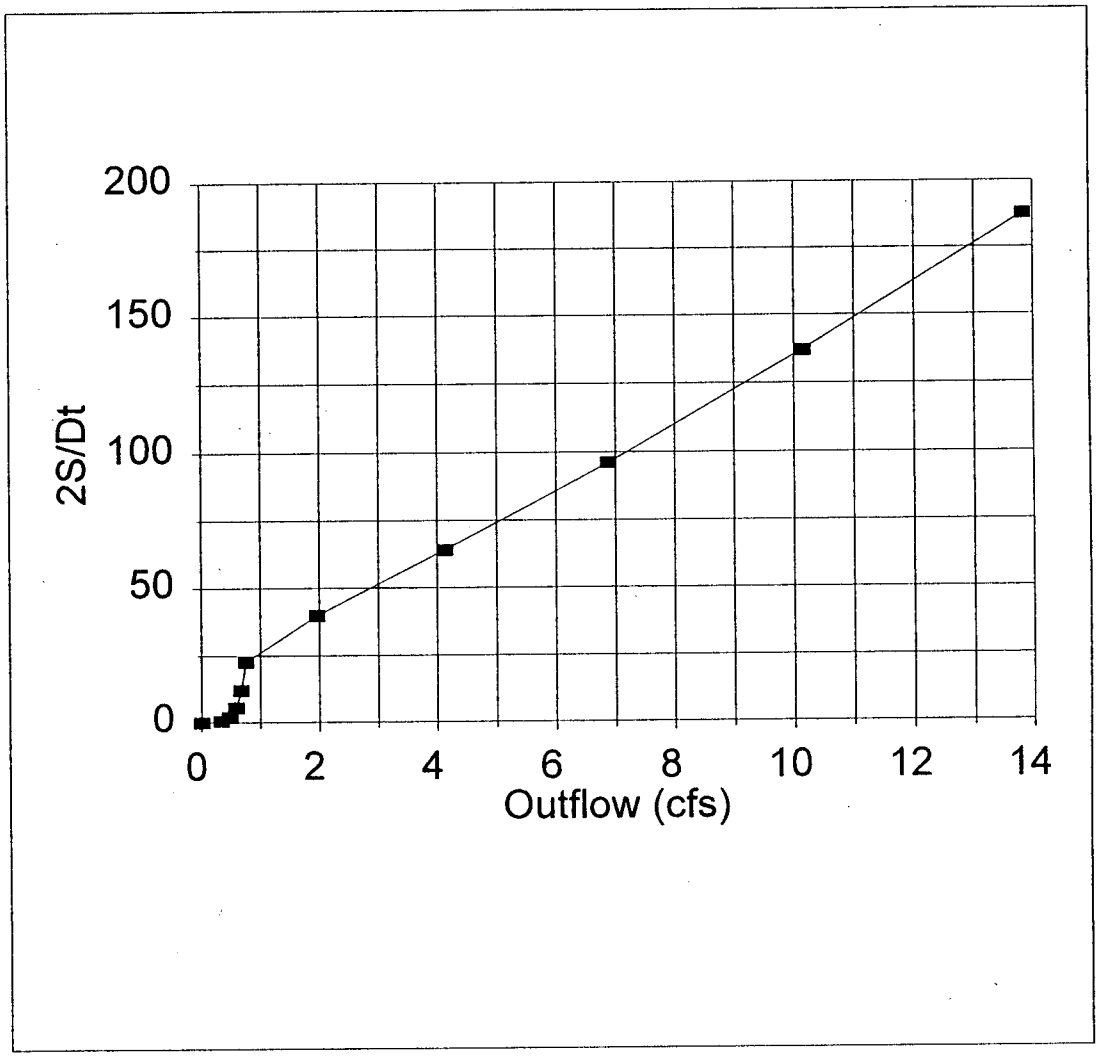


Davis Moore 0.52 acre D.A.

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             MAY   1991                *
*          VERSION 4.0.1E               *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  11:23:22   *
*****************************************
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*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```

```
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

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

        1           ID  DAVIS MOORE FACILITY
        2           IT       5 21JAN99       0     300
        3           IO       0       0
                    *
        4           KK    MAIN
        5           BA   .0008
                    *      0       0    0.86  1.8425    3.73     4.6    5.04    5.94
                    *     10       0  0.6175   1.305    2.53     3.1    3.39    4.02
        6           PH      20       0   0.544    1.14    2.15    2.66    2.91    3.42
                    *     50       0   0.464  0.9575    1.69    1.98    2.16    2.52
        7           UD     .15
        8           LS       0      98
                    *
        9           ZZ
```

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1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             MAY   1991                *
*          VERSION 4.0.1E               *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  11:23:22   *
*****************************************
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*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
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DAVIS MOORE FACILITY

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  3 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          0  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE     21JAN99  STARTING DATE
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                ITIME        0000  STARTING TIME
                   NQ         300  NUMBER OF HYDROGRAPH ORDINATES
               NDDATE    22JAN99  ENDING DATE
               NDTIME        0055  ENDING TIME
               ICENT           19  CENTURY MARK

          COMPUTATION INTERVAL     0.08 HOURS
              TOTAL TIME BASE    24.92 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


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


          **************
          *            *
4 KK      *      MAIN  *
          *            *
          **************

          SUBBASIN RUNOFF DATA

5 BA        SUBBASIN CHARACTERISTICS
                  TAREA        0.00  SUBBASIN AREA

            PRECIPITATION DATA

6 PH                                DEPTHS FOR  20-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
             0.54    1.14    2.15    2.66    2.91    3.42    0.00    0.00    0.00    0.00    0.00    0.00

                                                STORM AREA =     0.00

8 LS        SCS LOSS RATE
                  STRTL        0.04  INITIAL ABSTRACTION
                 CRVNBR       98.00  CURVE NUMBER
                  RTIMP        0.00  PERCENT IMPERVIOUS AREA

7 UD        SCS DIMENSIONLESS UNITGRAPH
                  TLAG        0.15  LAG

                                                     ***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

                                                UNIT HYDROGRAPH
                                            11 END-OF-PERIOD ORDINATES
            1.        2.        2.        1.        0.        0.        0.        0.        0.        0.
            0.
```

HYDROGRAPH AT STATION MAIN

| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | JAN | 0000 | 1 | 0.00 | 0.00 | 0.00 | 0. | 21 | JAN | 1230 | 151 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0005 | 2 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1235 | 152 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0010 | 3 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1240 | 153 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0015 | 4 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1245 | 154 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0020 | 5 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1250 | 155 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0025 | 6 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1255 | 156 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0030 | 7 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1300 | 157 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0035 | 8 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1305 | 158 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0040 | 9 | 0.01 | 0.01 | 0.00 | 0. | 21 | JAN | 1310 | 159 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0045 | 10 | 0.01 | 0.01 | 0.01 | 0. | 21 | JAN | 1315 | 160 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0050 | 11 | 0.01 | 0.01 | 0.01 | 0. | 21 | JAN | 1320 | 161 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0055 | 12 | 0.01 | 0.01 | 0.01 | 0. | 21 | JAN | 1325 | 162 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0100 | 13 | 0.01 | 0.01 | 0.01 | 0. | 21 | JAN | 1330 | 163 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0105 | 14 | 0.01 | 0.01 | 0.01 | 0. | 21 | JAN | 1335 | 164 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0110 | 15 | 0.02 | 0.01 | 0.01 | 0. | 21 | JAN | 1340 | 165 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0115 | 16 | 0.02 | 0.01 | 0.01 | 0. | 21 | JAN | 1345 | 166 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0120 | 17 | 0.02 | 0.01 | 0.01 | 0. | 21 | JAN | 1350 | 167 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0125 | 18 | 0.02 | 0.00 | 0.01 | 0. | 21 | JAN | 1355 | 168 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0130 | 19 | 0.02 | 0.00 | 0.01 | 0. | 21 | JAN | 1400 | 169 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0135 | 20 | 0.02 | 0.00 | 0.01 | 0. | 21 | JAN | 1405 | 170 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0140 | 21 | 0.02 | 0.00 | 0.01 | 0. | 21 | JAN | 1410 | 171 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0145 | 22 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1415 | 172 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0150 | 23 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1420 | 173 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0155 | 24 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1425 | 174 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0200 | 25 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1430 | 175 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0205 | 26 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1435 | 176 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0210 | 27 | 0.04 | 0.00 | 0.03 | 0. | 21 | JAN | 1440 | 177 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0215 | 28 | 0.04 | 0.00 | 0.03 | 0. | 21 | JAN | 1445 | 178 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0220 | 29 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1450 | 179 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0225 | 30 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1455 | 180 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0230 | 31 | 0.05 | 0.00 | 0.04 | 0. | 21 | JAN | 1500 | 181 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0235 | 32 | 0.07 | 0.00 | 0.07 | 0. | 21 | JAN | 1505 | 182 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0240 | 33 | 0.08 | 0.00 | 0.07 | 0. | 21 | JAN | 1510 | 183 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0245 | 34 | 0.09 | 0.00 | 0.09 | 0. | 21 | JAN | 1515 | 184 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0250 | 35 | 0.14 | 0.01 | 0.14 | 0. | 21 | JAN | 1520 | 185 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0255 | 36 | 0.18 | 0.00 | 0.17 | 1. | 21 | JAN | 1525 | 186 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0300 | 37 | 0.34 | 0.01 | 0.33 | 1. | 21 | JAN | 1530 | 187 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0305 | 38 | 0.52 | 0.01 | 0.52 | 2. | 21 | JAN | 1535 | 188 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0310 | 39 | 0.23 | 0.00 | 0.23 | 2. | 21 | JAN | 1540 | 189 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0315 | 40 | 0.16 | 0.00 | 0.16 | 2. | 21 | JAN | 1545 | 190 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0320 | 41 | 0.10 | 0.00 | 0.10 | 1. | 21 | JAN | 1550 | 191 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0325 | 42 | 0.08 | 0.00 | 0.08 | 1. | 21 | JAN | 1555 | 192 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0330 | 43 | 0.07 | 0.00 | 0.07 | 1. | 21 | JAN | 1600 | 193 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0335 | 44 | 0.05 | 0.00 | 0.05 | 1. | 21 | JAN | 1605 | 194 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0340 | 45 | 0.05 | 0.00 | 0.05 | 0. | 21 | JAN | 1610 | 195 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0345 | 46 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1615 | 196 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0350 | 47 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1620 | 197 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0355 | 48 | 0.04 | 0.00 | 0.04 | 0. | 21 | JAN | 1625 | 198 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0400 | 49 | 0.03 | 0.00 | 0.03 | 0. | 21 | JAN | 1630 | 199 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0405 | 50 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1635 | 200 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0410 | 51 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1640 | 201 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0415 | 52 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1645 | 202 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0420 | 53 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1650 | 203 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0425 | 54 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1655 | 204 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0430 | 55 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1700 | 205 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0435 | 56 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1705 | 206 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0440 | 57 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1710 | 207 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0445 | 58 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1715 | 208 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0450 | 59 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1720 | 209 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0455 | 60 | 0.02 | 0.00 | 0.02 | 0. | 21 | JAN | 1725 | 210 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0500 | 61 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1730 | 211 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0505 | 62 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1735 | 212 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0510 | 63 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1740 | 213 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0515 | 64 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1745 | 214 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0520 | 65 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1750 | 215 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0525 | 66 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1755 | 216 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0530 | 67 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1800 | 217 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0535 | 68 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1805 | 218 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0540 | 69 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1810 | 219 | 0.00 | 0.00 | 0.00 | 0. |
| 21 | JAN | 0545 | 70 | 0.01 | 0.00 | 0.01 | 0. | 21 | JAN | 1815 | 220 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 JAN 0550 | 71 | 0.01 | 0.00 | 0.01 | 0. | * | 21 JAN 1820 | 221 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0555 | 72 | 0.01 | 0.00 | 0.01 | 0. | * | 21 JAN 1825 | 222 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0600 | 73 | 0.01 | 0.00 | 0.01 | 0. | * | 21 JAN 1830 | 223 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0605 | 74 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1835 | 224 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0610 | 75 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1840 | 225 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0615 | 76 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1845 | 226 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0620 | 77 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1850 | 227 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0625 | 78 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1855 | 228 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0630 | 79 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1900 | 229 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0635 | 80 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1905 | 230 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0640 | 81 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1910 | 231 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0645 | 82 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1915 | 232 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0650 | 83 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1920 | 233 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0655 | 84 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1925 | 234 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0700 | 85 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1930 | 235 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0705 | 86 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1935 | 236 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0710 | 87 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1940 | 237 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0715 | 88 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1945 | 238 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0720 | 89 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1950 | 239 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0725 | 90 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 1955 | 240 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0730 | 91 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2000 | 241 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0735 | 92 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2005 | 242 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0740 | 93 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2010 | 243 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0745 | 94 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2015 | 244 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0750 | 95 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2020 | 245 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0755 | 96 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2025 | 246 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0800 | 97 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2030 | 247 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0805 | 98 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2035 | 248 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0810 | 99 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2040 | 249 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0815 | 100 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2045 | 250 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0820 | 101 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2050 | 251 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0825 | 102 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2055 | 252 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0830 | 103 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2100 | 253 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0835 | 104 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2105 | 254 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0840 | 105 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2110 | 255 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0845 | 106 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2115 | 256 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0850 | 107 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2120 | 257 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0855 | 108 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2125 | 258 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0900 | 109 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2130 | 259 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0905 | 110 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2135 | 260 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0910 | 111 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2140 | 261 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0915 | 112 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2145 | 262 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0920 | 113 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2150 | 263 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0925 | 114 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2155 | 264 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0930 | 115 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2200 | 265 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0935 | 116 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2205 | 266 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0940 | 117 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2210 | 267 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0945 | 118 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2215 | 268 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0950 | 119 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2220 | 269 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 0955 | 120 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2225 | 270 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1000 | 121 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2230 | 271 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1005 | 122 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2235 | 272 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1010 | 123 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2240 | 273 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1015 | 124 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2245 | 274 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1020 | 125 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2250 | 275 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1025 | 126 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2255 | 276 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1030 | 127 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2300 | 277 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1035 | 128 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2305 | 278 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1040 | 129 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2310 | 279 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1045 | 130 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2315 | 280 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1050 | 131 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2320 | 281 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1055 | 132 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2325 | 282 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1100 | 133 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2330 | 283 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1105 | 134 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2335 | 284 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1110 | 135 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2340 | 285 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1115 | 136 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2345 | 286 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1120 | 137 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2350 | 287 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1125 | 138 | 0.00 | 0.00 | 0.00 | 0. | * | 21 JAN 2355 | 288 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1130 | 139 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0000 | 289 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1135 | 140 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0005 | 290 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1140 | 141 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0010 | 291 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1145 | 142 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0015 | 292 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1150 | 143 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0020 | 293 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1155 | 144 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0025 | 294 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1200 | 145 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0030 | 295 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1205 | 146 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0035 | 296 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1210 | 147 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0040 | 297 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN 1215 | 148 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN 0045 | 298 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 JAN | 1220 | 149 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN | 0050 | 299 | 0.00 | 0.00 | 0.00 | 0. |
| 21 JAN | 1225 | 150 | 0.00 | 0.00 | 0.00 | 0. | * | 22 JAN | 0055 | 300 | 0.00 | 0.00 | 0.00 | 0. |
| | | | | | | | * | | | | | | | |

**********

TOTAL RAINFALL = 3.28, TOTAL LOSS = 0.23, TOTAL EXCESS = 3.05

| PEAK FLOW | TIME | | MAXIMUM AVERAGE FLOW | | | |
|---|---|---|---|---|---|---|
| | | | 6-HR | 24-HR | 72-HR | 24.92-HR |
| (CFS) | (HR) | | | | | |
| | | (CFS) | | | | |
| 2. | 3.17 | | 0. | 0. | 0. | 0. |
| | | (INCHES) | 3.049 | 3.050 | 3.050 | 3.050 |
| | | (AC-FT) | 0. | 0. | 0. | 0. |

CUMULATIVE AREA = 0.00 SQ MI

1

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

| OPERATION | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD | | | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6-HOUR | 24-HOUR | 72-HOUR | | | |
| HYDROGRAPH AT | MAIN | 2. | 3.17 | 0. | 0. | 0. | 0.00 | | |

*** NORMAL END OF HEC-1 ***

5-yrDetention Routing , one 6" PVC pipe

| n | Time min | Time hr | Ii cfs | Ii+Ii+1 | 2Si/Dt-Oi | 2Si+1/Dt-Oi+1 | Oi cfs |
|---|---|---|---|---|---|---|---|
| 0 | 5 | 0.08 | 1.0 | 2 | 0.0000 | 2.0000 | 0.0 |
| 1 | 10 | 0.17 | 1.0 | 3 | 1.0469 | 4.0469 | 0.5 |
| 2 | 15 | 0.25 | 2.0 | 4 | 2.9597 | 6.9597 | 0.5 |
| 3 | 20 | 0.33 | 2.0 | 4 | 5.7403 | 9.7403 | 0.6 |
| 4 | 25 | 0.42 | 2.0 | 3 | 8.4450 | 11.4450 | 0.6 |
| 5 | 30 | 0.50 | 1.0 | 2 | 10.1032 | 12.1032 | 0.7 |
| 6 | 35 | 0.58 | 1.0 | 2 | 10.7435 | 12.7435 | 0.7 |
| 7 | 40 | 0.67 | 1.0 | 2 | 11.3741 | 13.3741 | 0.7 |
| 8 | 45 | 0.75 | 1.0 | 1 | 11.9953 | 12.9953 | 0.7 |
| 9 | 50 | 0.83 | 0.0 | 0 | 11.6221 | 11.6221 | 0.7 |
| 10 | 55 | 0.92 | 0.0 | 0 | 10.2755 | 10.2755 | 0.7 |
| 11 | 60 | 1.00 | 0.0 | 0 | 8.9656 | 8.9656 | 0.7 |
| 12 | 65 | 1.08 | 0.0 | 0 | 7.6915 | 7.6915 | 0.6 |
| 13 | 70 | 1.17 | 0.0 | 0 | 6.4521 | 6.4521 | 0.6 |
| 14 | 75 | 1.25 | 0.0 | 0 | 5.2466 | 5.2466 | 0.6 |
| 15 | 80 | 1.33 | 0.0 | 0 | 4.0835 | 4.0835 | 0.6 |
| 16 | 85 | 1.42 | 0.0 | 0 | 2.9940 | 2.9940 | 0.5 |
| 17 | 90 | 1.50 | 0.0 | 0 | 1.9734 | 1.9734 | 0.5 |
| 18 | 95 | 1.58 | 0.0 | 0 | 1.0254 | 1.0254 | 0.5 |
| 19 | 100 | 1.67 | 0.0 | 0 | 0.2623 | 0.2623 | 0.4 |
| 20 | 105 | 1.75 | 0.0 | 0 | -0.0354 | -0.0354 | 0.1 |
| 21 | 110 | 1.83 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 22 | 115 | 1.92 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 23 | 120 | 2.00 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 24 | 125 | 2.08 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 25 | 130 | 2.17 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 26 | 135 | 2.25 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 27 | 140 | 2.33 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 28 | 145 | 2.42 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 29 | 150 | 2.50 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 30 | 155 | 2.58 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 31 | 160 | 2.67 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 32 | 165 | 2.75 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 33 | 170 | 2.83 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 34 | 175 | 2.92 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 35 | 180 | 3.00 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 36 | 185 | 3.08 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 37 | 190 | 3.17 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 38 | 195 | 3.25 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 39 | 200 | 3.33 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 40 | 205 | 3.42 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 41 | 210 | 3.50 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 42 | 215 | 3.58 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 43 | 220 | 3.67 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 44 | 225 | 3.75 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 45 | 230 | 3.83 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 46 | 235 | 3.92 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 47 | 48 | 0.80 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 48 | 49 | 0.82 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 49 | 50 | 0.83 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |
| 50 | 51 | 0.85 | 0.0 | 0 | -0.0354 | -0.0354 | 0.0 |

Davis Moore 0.52 acre D.A.

Detention Routing , one 6" PVC pipe

| Elev. ft | S ac-ft | O cfs | 2S/Dt cfs |
|---|---|---|---|
| 0 | 0 | 0.00 | 0 |
| 0.1 | 0.0009 | 0.34 | 0.5992 |
| 0.2 | 0.0054 | 0.48 | 2.0352 |
| 0.3 | 0.0171 | 0.59 | 5.5148 |
| 0.4 | 0.0397 | 0.68 | 12.1136 |
| 0.5 | 0.0766 | 0.76 | 22.8208 |
| 0.6 | 0.1316 | 1.97 | 39.8708 |
| 0.7 | 0.208 | 4.13 | 64.034 |
| 0.8 | 0.3101 | 6.89 | 96.1988 |
| 0.9 | 0.4408 | 10.15 | 137.1004 |
| 1 | 0.604 | 13.83 | 187.782 |
| 1.1 | 0.8033 | 17.90 | 249.2504 |
| 2 | 1.27 | 67.83 | 433.59 |
| | | | |
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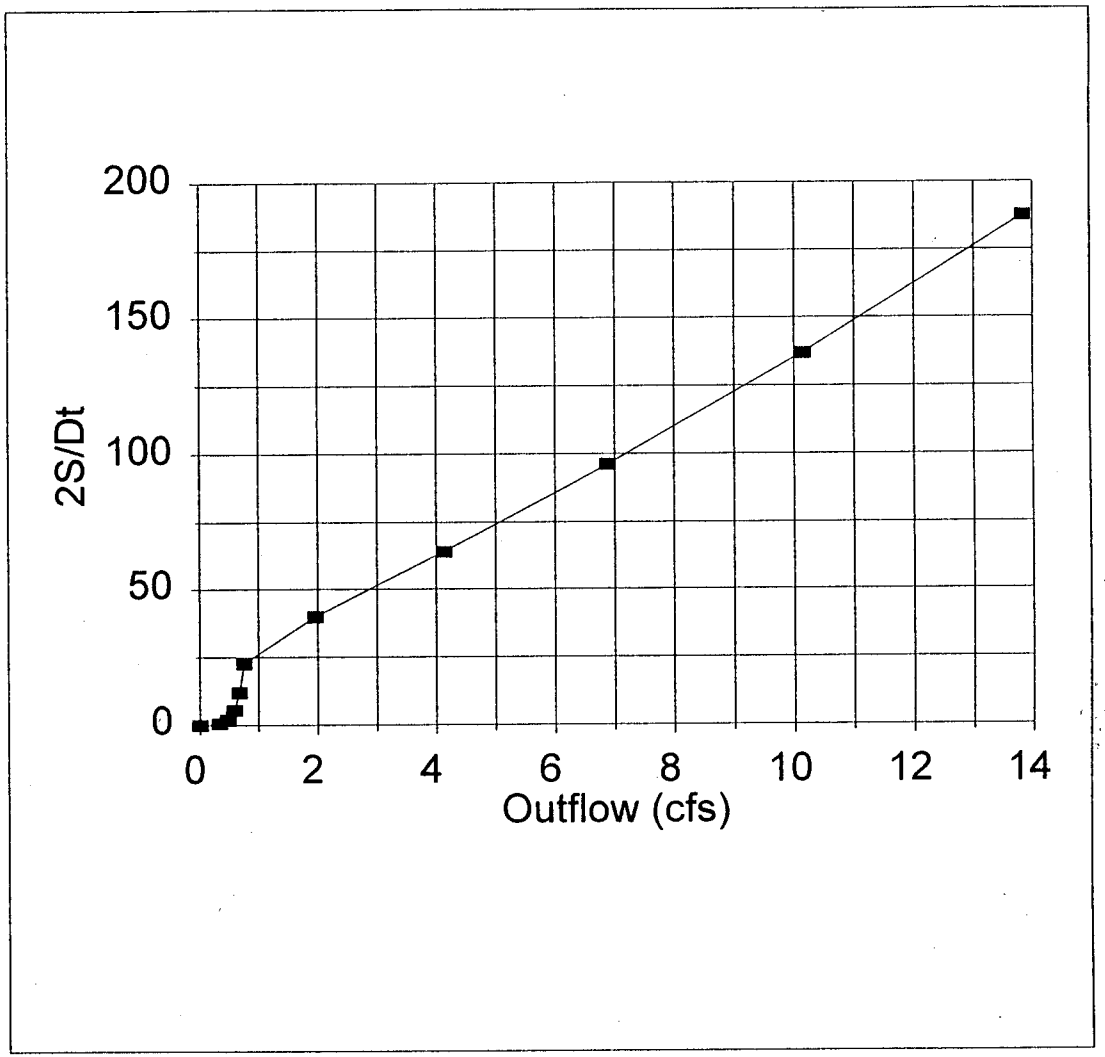


Davis Moore 0.52 acre D.A.

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             MAY   1991                *
*          VERSION 4.0.1E               *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  13:50:52   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*            (916) 551-1748             *
*                                       *
*****************************************
```

```
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  DAVIS MOORE FACILITY
  2           IT       5 04FEB99       0     300
  3           IO       0       0
              *
  4           KK    MAIN
  5           BA   .0017
  6           PH       0       0    0.86  1.8425    3.73     4.6    5.04    5.94
              *     10       0  0.6175   1.305    2.53     3.1    3.39    4.02
              *     20       0   0.544    1.14    2.15    2.66    2.91    3.42
              *     50       0   0.464  0.9575    1.69    7.98    2.16    2.52
  7           UD    0.15
  8           LS       0      98
              *
  9           ZZ
```

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             MAY   1991                *
*          VERSION 4.0.1E               *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  13:50:52   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*            (916) 551-1748             *
*                                       *
*****************************************
```

DAVIS MOORE FACILITY

```
3 IO          OUTPUT CONTROL VARIABLES
                   IPRNT          0  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL         0.  HYDROGRAPH PLOT SCALE

  IT          HYDROGRAPH TIME DATA
                    NMIN          5  MINUTES IN COMPUTATION INTERVAL
                   IDATE     4FEB99  STARTING DATE
```

| | | | |
|---|---|---|---|
| | ITIME | 0000 | STARTING TIME |
| | NQ | 300 | NUMBER OF HYDROGRAPH ORDINATES |
| | NDDATE | 5FEB99 | ENDING DATE |
| | NDTIME | 0055 | ENDING TIME |
| | ICENT | 19 | CENTURY MARK |

COMPUTATION INTERVAL 0.08 HOURS
TOTAL TIME BASE 24.92 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 |

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

```
**************
*            *
*      MAIN  *
*            *
**************
```

4 KK

SUBBASIN RUNOFF DATA

5 BA SUBBASIN CHARACTERISTICS

| | | |
|---|---|---|
| TAREA | 0.00 | SUBBASIN AREA |

PRECIPITATION DATA

6 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 |
| 0.86 | 1.84 | 3.73 | 4.60 | 5.04 | 5.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

STORM AREA = 0.00

8 LS SCS LOSS RATE

| | | |
|---|---|---|
| STRTL | 0.04 | INITIAL ABSTRACTION |
| CRVNBR | 98.00 | CURVE NUMBER |
| RTIMP | 0.00 | PERCENT IMPERVIOUS AREA |

7 UD SCS DIMENSIONLESS UNITGRAPH

| | | |
|---|---|---|
| TLAG | 0.15 | LAG |

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2. | 4. | 4. | 2. | 1. | 0. | 0. | 0. | 0. | 0. |
| 0. | | | | | | | | | |

HYDROGRAPH AT STATION MAIN

| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | FEB | 0000 | 1 | 0.00 | 0.00 | 0.00 | 0. | 4 | FEB | 1230 | 151 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0005 | 2 | 0.02 | 0.02 | 0.00 | 0. | 4 | FEB | 1235 | 152 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0010 | 3 | 0.02 | 0.02 | 0.00 | 0. | 4 | FEB | 1240 | 153 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0015 | 4 | 0.02 | 0.02 | 0.00 | 0. | 4 | FEB | 1245 | 154 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0020 | 5 | 0.02 | 0.02 | 0.01 | 0. | 4 | FEB | 1250 | 155 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0025 | 6 | 0.02 | 0.01 | 0.01 | 0. | 4 | FEB | 1255 | 156 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0030 | 7 | 0.02 | 0.01 | 0.01 | 0. | 4 | FEB | 1300 | 157 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0035 | 8 | 0.02 | 0.01 | 0.01 | 0. | 4 | FEB | 1305 | 158 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0040 | 9 | 0.02 | 0.01 | 0.01 | 0. | 4 | FEB | 1310 | 159 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0045 | 10 | 0.02 | 0.01 | 0.02 | 0. | 4 | FEB | 1315 | 160 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0050 | 11 | 0.02 | 0.01 | 0.02 | 0. | 4 | FEB | 1320 | 161 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0055 | 12 | 0.03 | 0.01 | 0.02 | 0. | 4 | FEB | 1325 | 162 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0100 | 13 | 0.03 | 0.01 | 0.02 | 0. | 4 | FEB | 1330 | 163 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0105 | 14 | 0.03 | 0.01 | 0.02 | 0. | 4 | FEB | 1335 | 164 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0110 | 15 | 0.03 | 0.01 | 0.02 | 0. | 4 | FEB | 1340 | 165 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0115 | 16 | 0.03 | 0.00 | 0.02 | 0. | 4 | FEB | 1345 | 166 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0120 | 17 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1350 | 167 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0125 | 18 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1355 | 168 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0130 | 19 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1400 | 169 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0135 | 20 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1405 | 170 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0140 | 21 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1410 | 171 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0145 | 22 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1415 | 172 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0150 | 23 | 0.04 | 0.00 | 0.03 | 0. | 4 | FEB | 1420 | 173 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0155 | 24 | 0.04 | 0.00 | 0.04 | 0. | 4 | FEB | 1425 | 174 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0200 | 25 | 0.04 | 0.00 | 0.04 | 0. | 4 | FEB | 1430 | 175 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0205 | 26 | 0.06 | 0.00 | 0.06 | 1. | 4 | FEB | 1435 | 176 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0210 | 27 | 0.06 | 0.00 | 0.06 | 1. | 4 | FEB | 1440 | 177 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0215 | 28 | 0.07 | 0.00 | 0.06 | 1. | 4 | FEB | 1445 | 178 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0220 | 29 | 0.07 | 0.00 | 0.07 | 1. | 4 | FEB | 1450 | 179 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0225 | 30 | 0.08 | 0.00 | 0.08 | 1. | 4 | FEB | 1455 | 180 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0230 | 31 | 0.09 | 0.00 | 0.08 | 1. | 4 | FEB | 1500 | 181 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0235 | 32 | 0.14 | 0.00 | 0.13 | 1. | 4 | FEB | 1505 | 182 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0240 | 33 | 0.15 | 0.00 | 0.15 | 1. | 4 | FEB | 1510 | 183 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0245 | 34 | 0.18 | 0.00 | 0.17 | 2. | 4 | FEB | 1515 | 184 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0250 | 35 | 0.28 | 0.00 | 0.28 | 2. | 4 | FEB | 1520 | 185 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0255 | 36 | 0.34 | 0.00 | 0.34 | 3. | 4 | FEB | 1525 | 186 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0300 | 37 | 0.58 | 0.00 | 0.58 | 4. | 4 | FEB | 1530 | 187 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0305 | 38 | 0.86 | 0.00 | 0.86 | 6. | 4 | FEB | 1535 | 188 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0310 | 39 | 0.40 | 0.00 | 0.40 | 7. | 4 | FEB | 1540 | 189 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0315 | 40 | 0.31 | 0.00 | 0.30 | 7. | 4 | FEB | 1545 | 190 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0320 | 41 | 0.19 | 0.00 | 0.19 | 5. | 4 | FEB | 1550 | 191 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0325 | 42 | 0.16 | 0.00 | 0.16 | 4. | 4 | FEB | 1555 | 192 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0330 | 43 | 0.14 | 0.00 | 0.14 | 3. | 4 | FEB | 1600 | 193 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0335 | 44 | 0.09 | 0.00 | 0.09 | 2. | 4 | FEB | 1605 | 194 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0340 | 45 | 0.08 | 0.00 | 0.08 | 2. | 4 | FEB | 1610 | 195 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0345 | 46 | 0.08 | 0.00 | 0.08 | 1. | 4 | FEB | 1615 | 196 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0350 | 47 | 0.07 | 0.00 | 0.07 | 1. | 4 | FEB | 1620 | 197 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0355 | 48 | 0.06 | 0.00 | 0.06 | 1. | 4 | FEB | 1625 | 198 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0400 | 49 | 0.06 | 0.00 | 0.06 | 1. | 4 | FEB | 1630 | 199 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0405 | 50 | 0.04 | 0.00 | 0.04 | 1. | 4 | FEB | 1635 | 200 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0410 | 51 | 0.04 | 0.00 | 0.04 | 1. | 4 | FEB | 1640 | 201 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0415 | 52 | 0.04 | 0.00 | 0.04 | 1. | 4 | FEB | 1645 | 202 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0420 | 53 | 0.04 | 0.00 | 0.04 | 1. | 4 | FEB | 1650 | 203 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0425 | 54 | 0.03 | 0.00 | 0.03 | 1. | 4 | FEB | 1655 | 204 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0430 | 55 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1700 | 205 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0435 | 56 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1705 | 206 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0440 | 57 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1710 | 207 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0445 | 58 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1715 | 208 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0450 | 59 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1720 | 209 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0455 | 60 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1725 | 210 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0500 | 61 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1730 | 211 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0505 | 62 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1735 | 212 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0510 | 63 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1740 | 213 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0515 | 64 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1745 | 214 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0520 | 65 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1750 | 215 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0525 | 66 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1755 | 216 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0530 | 67 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1800 | 217 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0535 | 68 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1805 | 218 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0540 | 69 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1810 | 219 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0545 | 70 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1815 | 220 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 FEB 0550 | 71 | 0.02 | 0.00 | 0.02 | 0. | * | 4 FEB 1820 | 221 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0555 | 72 | 0.02 | 0.00 | 0.02 | 0. | * | 4 FEB 1825 | 222 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0600 | 73 | 0.02 | 0.00 | 0.02 | 0. | * | 4 FEB 1830 | 223 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0605 | 74 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1835 | 224 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0610 | 75 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1840 | 225 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0615 | 76 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1845 | 226 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0620 | 77 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1850 | 227 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0625 | 78 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1855 | 228 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0630 | 79 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1900 | 229 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0635 | 80 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1905 | 230 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0640 | 81 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1910 | 231 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0645 | 82 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1915 | 232 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0650 | 83 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1920 | 233 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0655 | 84 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1925 | 234 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0700 | 85 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1930 | 235 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0705 | 86 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1935 | 236 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0710 | 87 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1940 | 237 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0715 | 88 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1945 | 238 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0720 | 89 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1950 | 239 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0725 | 90 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1955 | 240 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0730 | 91 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2000 | 241 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0735 | 92 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2005 | 242 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0740 | 93 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2010 | 243 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0745 | 94 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2015 | 244 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0750 | 95 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2020 | 245 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0755 | 96 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2025 | 246 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0800 | 97 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2030 | 247 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0805 | 98 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2035 | 248 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0810 | 99 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2040 | 249 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0815 | 100 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2045 | 250 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0820 | 101 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2050 | 251 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0825 | 102 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2055 | 252 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0830 | 103 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2100 | 253 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0835 | 104 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2105 | 254 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0840 | 105 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2110 | 255 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0845 | 106 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2115 | 256 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0850 | 107 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2120 | 257 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0855 | 108 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2125 | 258 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0900 | 109 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2130 | 259 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0905 | 110 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2135 | 260 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0910 | 111 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2140 | 261 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0915 | 112 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2145 | 262 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0920 | 113 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2150 | 263 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0925 | 114 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2155 | 264 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0930 | 115 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2200 | 265 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0935 | 116 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2205 | 266 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0940 | 117 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2210 | 267 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0945 | 118 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2215 | 268 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0950 | 119 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2220 | 269 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0955 | 120 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2225 | 270 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1000 | 121 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2230 | 271 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1005 | 122 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2235 | 272 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1010 | 123 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2240 | 273 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1015 | 124 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2245 | 274 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1020 | 125 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2250 | 275 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1025 | 126 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2255 | 276 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1030 | 127 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2300 | 277 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1035 | 128 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2305 | 278 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1040 | 129 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2310 | 279 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1045 | 130 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2315 | 280 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1050 | 131 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2320 | 281 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1055 | 132 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2325 | 282 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1100 | 133 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2330 | 283 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1105 | 134 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2335 | 284 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1110 | 135 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2340 | 285 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1115 | 136 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2345 | 286 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1120 | 137 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2350 | 287 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1125 | 138 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2355 | 288 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1130 | 139 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0000 | 289 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1135 | 140 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0005 | 290 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1140 | 141 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0010 | 291 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1145 | 142 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0015 | 292 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1150 | 143 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0020 | 293 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1155 | 144 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0025 | 294 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1200 | 145 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0030 | 295 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1205 | 146 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0035 | 296 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1210 | 147 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0040 | 297 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1215 | 148 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0045 | 298 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | FEB | 1220 | 149 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0050 | 299 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1225 | 150 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0055 | 300 | 0.00 | 0.00 | 0.00 | 0. |
| | | | | | | | | * | | | | | | | | |

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TOTAL RAINFALL = 5.94, TOTAL LOSS = 0.24, TOTAL EXCESS = 5.70

| PEAK FLOW | TIME | | MAXIMUM AVERAGE FLOW 6-HR | 24-HR | 72-HR | 24.92-HR |
|---|---|---|---|---|---|---|
| (CFS) | (HR) | | | | | |
| | | (CFS) | | | | |
| 7. | 3.17 | | 1. | 0. | 0. | 0. |
| | | (INCHES) | 5.697 | 5.702 | 5.702 | 5.702 |
| | | (AC-FT) | 1. | 1. | 1. | 1. |

CUMULATIVE AREA = 0.00 SQ MI

1

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

| OPERATION | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR | 24-HOUR | 72-HOUR | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---|---|---|---|---|---|---|---|---|---|
| HYDROGRAPH AT | MAIN | 7. | 3.17 | 1. | 0. | 0. | 0.00 | | |

*** NORMAL END OF HEC-1 ***

100-yr Detention Routing , one 6" PVC pipe

| n | Time min | Time hr | Ii cfs | Ii+Ii+1 | 2Si/Dt-Oi | 2Si+1/Dt-Oi+1 | Oi cfs |
|---|---|---|---|---|---|---|---|
| 0 | 5 | 0.08 | 1.0 | 2 | 0.0000 | 2.0000 | 0.0 |
| 1 | 10 | 0.17 | 1.0 | 2 | 1.0469 | 3.0469 | 0.5 |
| 2 | 15 | 0.25 | 1.0 | 2 | 2.0229 | 4.0229 | 0.5 |
| 3 | 20 | 0.33 | 1.0 | 2 | 2.9372 | 4.9372 | 0.5 |
| 4 | 25 | 0.42 | 1.0 | 2 | 3.7937 | 5.7937 | 0.6 |
| 5 | 30 | 0.50 | 1.0 | 2 | 4.6061 | 6.6061 | 0.6 |
| 6 | 35 | 0.58 | 1.0 | 2 | 5.3964 | 7.3964 | 0.6 |
| 7 | 40 | 0.67 | 1.0 | 3 | 6.1650 | 9.1650 | 0.6 |
| 8 | 45 | 0.75 | 2.0 | 4 | 7.8855 | 11.8855 | 0.6 |
| 9 | 50 | 0.83 | 2.0 | 5 | 10.5317 | 15.5317 | 0.7 |
| 10 | 55 | 0.92 | 3.0 | 7 | 14.1206 | 21.1206 | 0.7 |
| 11 | 60 | 1.00 | 4.0 | 10 | 19.6260 | 29.6260 | 0.7 |
| 12 | 65 | 1.08 | 6.0 | 13 | 27.1401 | 40.1401 | 1.2 |
| 13 | 70 | 1.17 | 7.0 | 14 | 36.1520 | 50.1520 | 2.0 |
| 14 | 75 | 1.25 | 7.0 | 12 | 44.3739 | 56.3739 | 2.9 |
| 15 | 80 | 1.33 | 5.0 | 9 | 49.4834 | 58.4834 | 3.4 |
| 16 | 85 | 1.42 | 4.0 | 7 | 51.2157 | 58.2157 | 3.6 |
| 17 | 90 | 1.50 | 3.0 | 5 | 50.9960 | 55.9960 | 3.6 |
| 18 | 95 | 1.58 | 2.0 | 4 | 49.1730 | 53.1730 | 3.4 |
| 19 | 100 | 1.67 | 2.0 | 3 | 46.8548 | 49.8548 | 3.2 |
| 20 | 105 | 1.75 | 1.0 | 2 | 44.1298 | 46.1298 | 2.9 |
| 21 | 110 | 1.83 | 1.0 | 2 | 41.0708 | 43.0708 | 2.5 |
| 22 | 115 | 1.92 | 1.0 | 2 | 38.5587 | 40.5587 | 2.3 |
| 23 | 120 | 2.00 | 1.0 | 2 | 36.4957 | 38.4957 | 2.0 |
| 24 | 125 | 2.08 | 1.0 | 2 | 34.7509 | 36.7509 | 1.9 |
| 25 | 130 | 2.17 | 1.0 | 2 | 33.2537 | 35.2537 | 1.7 |
| 26 | 135 | 2.25 | 1.0 | 2 | 31.9690 | 33.9690 | 1.6 |
| 27 | 140 | 2.33 | 1.0 | 2 | 30.8667 | 32.8667 | 1.6 |
| 28 | 145 | 2.42 | 1.0 | 1 | 29.9208 | 30.9208 | 1.5 |
| 29 | 150 | 2.50 | 0.0 | 0 | 28.2512 | 28.2512 | 1.3 |
| 30 | 155 | 2.58 | 0.0 | 0 | 25.9604 | 25.9604 | 1.1 |
| 31 | 160 | 2.67 | 0.0 | 0 | 23.9948 | 23.9948 | 1.0 |
| 32 | 165 | 2.75 | 0.0 | 0 | 22.3081 | 22.3081 | 0.8 |
| 33 | 170 | 2.83 | 0.0 | 0 | 20.7958 | 20.7958 | 0.8 |
| 34 | 175 | 2.92 | 0.0 | 0 | 19.3061 | 19.3061 | 0.7 |
| 35 | 180 | 3.00 | 0.0 | 0 | 17.8386 | 17.8386 | 0.7 |
| 36 | 185 | 3.08 | 0.0 | 0 | 16.3930 | 16.3930 | 0.7 |
| 37 | 190 | 3.17 | 0.0 | 0 | 14.9691 | 14.9691 | 0.7 |
| 38 | 195 | 3.25 | 0.0 | 0 | 13.5664 | 13.5664 | 0.7 |
| 39 | 200 | 3.33 | 0.0 | 0 | 12.1847 | 12.1847 | 0.7 |
| 40 | 205 | 3.42 | 0.0 | 0 | 10.8236 | 10.8236 | 0.7 |
| 41 | 210 | 3.50 | 0.0 | 0 | 9.4988 | 9.4988 | 0.7 |
| 42 | 215 | 3.58 | 0.0 | 0 | 8.2102 | 8.2102 | 0.6 |
| 43 | 220 | 3.67 | 0.0 | 0 | 6.9566 | 6.9566 | 0.6 |
| 44 | 225 | 3.75 | 0.0 | 0 | 5.7373 | 5.7373 | 0.6 |
| 45 | 230 | 3.83 | 0.0 | 0 | 4.5512 | 4.5512 | 0.6 |
| 46 | 235 | 3.92 | 0.0 | 0 | 3.4322 | 3.4322 | 0.6 |
| 47 | 48 | 0.80 | 0.0 | 0 | 2.3838 | 2.3838 | 0.5 |
| 48 | 49 | 0.82 | 0.0 | 0 | 1.4018 | 1.4018 | 0.5 |
| 49 | 50 | 0.83 | 0.0 | 0 | 0.5653 | 0.5653 | 0.4 |
| 50 | 51 | 0.85 | 0.0 | 0 | -0.0762 | -0.0762 | 0.3 |

Davis Moore 1.07 acre D.A:

Detention Routing , one 6" PVC pipe

| Elev. ft | S ac-ft | O cfs | 2S/Dt cfs |
|---|---|---|---|
| 0 | 0 | 0.00 | 0 |
| 0.1 | 0.0009 | 0.34 | 0.5992 |
| 0.2 | 0.0054 | 0.48 | 2.0352 |
| 0.3 | 0.0171 | 0.59 | 5.5148 |
| 0.4 | 0.0397 | 0.68 | 12.1136 |
| 0.5 | 0.0766 | 0.76 | 22.8208 |
| 0.6 | 0.1316 | 1.97 | 39.8708 |
| 0.7 | 0.208 | 4.13 | 64.034 |
| 0.8 | 0.3101 | 6.89 | 96.1988 |
| 0.9 | 0.4408 | 10.15 | 137.1004 |
| 1 | 0.604 | 13.83 | 187.782 |
| 1.1 | 0.8033 | 17.90 | 249.2504 |
| 2 | 1.27 | 67.83 | 433.59 |
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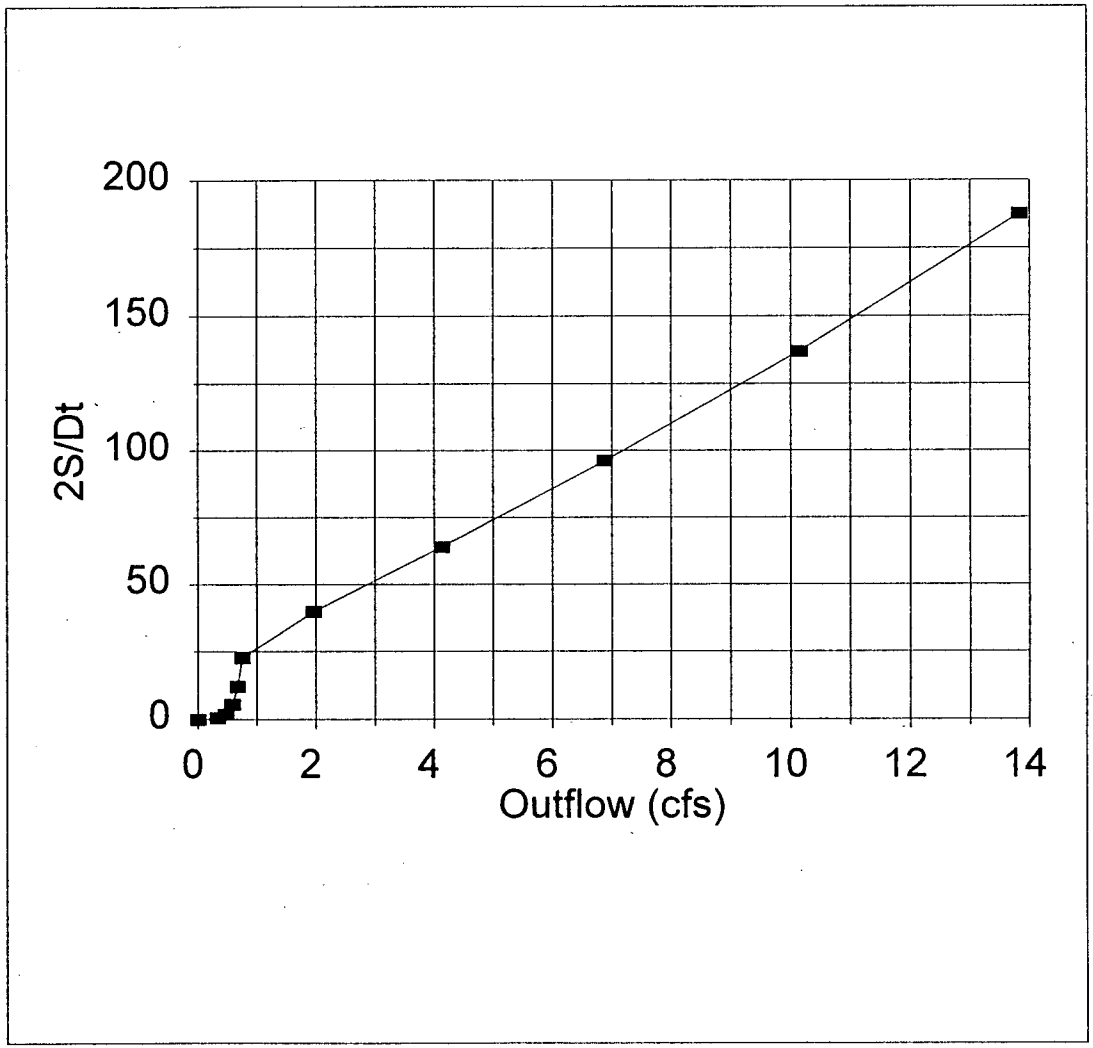


Davis Moore 1.07 acre D.A.

Davis Moore Facility, 5-yr Storm, Area #3, D.A. = 1.07 acres

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*           VERSION 4.0.1E              *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  13:53:32   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```

```
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  DAVIS MOORE FACILITY
        2           IT       5 04FEB99       0     300
        3           IO       0       0
                    *
        4           KK    MAIN
        5           BA   .0017
                    *      0       0    0.86  1.8425    3.73     4.6    5.04    5.94
                    *     10       0  0.6175   1.305    2.53     3.1    3.39    4.02
        6           PH      20       0   0.544    1.14    2.15    2.66    2.91    3.42
                    *     50       0   0.464  0.9575    1.69    7.98    2.16    2.52
        7           UD    0.15
        8           LS       0      98
                    *
        9           ZZ
```

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*           VERSION 4.0.1E              *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  13:53:32   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```

DAVIS MOORE FACILITY

```
  3 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          0  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE     4FEB99  STARTING DATE
```

| | | |
|---|---|---|
| ITIME | 0000 | STARTING TIME |
| NQ | 300 | NUMBER OF HYDROGRAPH ORDINATES |
| NDDATE | 5FEB99 | ENDING DATE |
| NDTIME | 0055 | ENDING TIME |
| ICENT | 19 | CENTURY MARK |

COMPUTATION INTERVAL 0.08 HOURS
TOTAL TIME BASE 24.92 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 |

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

```
**************
*            *
*      MAIN  *
*            *
**************
```

4 KK

SUBBASIN RUNOFF DATA

5 BA SUBBASIN CHARACTERISTICS

| | | |
|---|---|---|
| TAREA | 0.00 | SUBBASIN AREA |

PRECIPITATION DATA

6 PH DEPTHS FOR 20-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 |
| 0.54 | 1.14 | 2.15 | 2.66 | 2.91 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

STORM AREA = 0.00

8 LS SCS LOSS RATE

| | | |
|---|---|---|
| STRTL | 0.04 | INITIAL ABSTRACTION |
| CRVNBR | 98.00 | CURVE NUMBER |
| RTIMP | 0.00 | PERCENT IMPERVIOUS AREA |

7 UD SCS DIMENSIONLESS UNITGRAPH

| | | |
|---|---|---|
| TLAG | 0.15 | LAG |

***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2. | 4. | 4. | 2. | 1. | 0. | 0. | 0. | 0. | 0. |
| 0. | | | | | | | | | |

HYDROGRAPH AT STATION MAIN

| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | FEB | 0000 | 1 | 0.00 | 0.00 | 0.00 | 0. | 4 | FEB | 1230 | 151 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0005 | 2 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1235 | 152 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0010 | 3 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1240 | 153 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0015 | 4 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1245 | 154 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0020 | 5 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1250 | 155 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0025 | 6 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1255 | 156 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0030 | 7 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1300 | 157 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0035 | 8 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1305 | 158 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0040 | 9 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1310 | 159 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0045 | 10 | 0.01 | 0.01 | 0.01 | 0. | 4 | FEB | 1315 | 160 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0050 | 11 | 0.01 | 0.01 | 0.01 | 0. | 4 | FEB | 1320 | 161 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0055 | 12 | 0.01 | 0.01 | 0.01 | 0. | 4 | FEB | 1325 | 162 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0100 | 13 | 0.01 | 0.01 | 0.01 | 0. | 4 | FEB | 1330 | 163 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0105 | 14 | 0.01 | 0.01 | 0.01 | 0. | 4 | FEB | 1335 | 164 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0110 | 15 | 0.02 | 0.01 | 0.01 | 0. | 4 | FEB | 1340 | 165 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0115 | 16 | 0.02 | 0.01 | 0.01 | 0. | 4 | FEB | 1345 | 166 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0120 | 17 | 0.02 | 0.01 | 0.01 | 0. | 4 | FEB | 1350 | 167 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0125 | 18 | 0.02 | 0.00 | 0.01 | 0. | 4 | FEB | 1355 | 168 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0130 | 19 | 0.02 | 0.00 | 0.01 | 0. | 4 | FEB | 1400 | 169 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0135 | 20 | 0.02 | 0.00 | 0.01 | 0. | 4 | FEB | 1405 | 170 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0140 | 21 | 0.02 | 0.00 | 0.01 | 0. | 4 | FEB | 1410 | 171 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0145 | 22 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1415 | 172 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0150 | 23 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1420 | 173 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0155 | 24 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1425 | 174 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0200 | 25 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1430 | 175 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0205 | 26 | 0.03 | 0.00 | 0.03 | 0. | 4 | FEB | 1435 | 176 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0210 | 27 | 0.04 | 0.00 | 0.03 | 0. | 4 | FEB | 1440 | 177 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0215 | 28 | 0.04 | 0.00 | 0.03 | 0. | 4 | FEB | 1445 | 178 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0220 | 29 | 0.04 | 0.00 | 0.04 | 0. | 4 | FEB | 1450 | 179 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0225 | 30 | 0.04 | 0.00 | 0.04 | 0. | 4 | FEB | 1455 | 180 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0230 | 31 | 0.05 | 0.00 | 0.04 | 0. | 4 | FEB | 1500 | 181 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0235 | 32 | 0.07 | 0.00 | 0.07 | 1. | 4 | FEB | 1505 | 182 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0240 | 33 | 0.08 | 0.00 | 0.07 | 1. | 4 | FEB | 1510 | 183 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0245 | 34 | 0.09 | 0.00 | 0.09 | 1. | 4 | FEB | 1515 | 184 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0250 | 35 | 0.14 | 0.01 | 0.14 | 1. | 4 | FEB | 1520 | 185 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0255 | 36 | 0.18 | 0.00 | 0.17 | 1. | 4 | FEB | 1525 | 186 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0300 | 37 | 0.34 | 0.01 | 0.33 | 2. | 4 | FEB | 1530 | 187 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0305 | 38 | 0.52 | 0.01 | 0.52 | 3. | 4 | FEB | 1535 | 188 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0310 | 39 | 0.23 | 0.00 | 0.23 | 4. | 4 | FEB | 1540 | 189 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0315 | 40 | 0.16 | 0.00 | 0.16 | 4. | 4 | FEB | 1545 | 190 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0320 | 41 | 0.10 | 0.00 | 0.10 | 3. | 4 | FEB | 1550 | 191 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0325 | 42 | 0.08 | 0.00 | 0.08 | 2. | 4 | FEB | 1555 | 192 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0330 | 43 | 0.07 | 0.00 | 0.07 | 2. | 4 | FEB | 1600 | 193 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0335 | 44 | 0.05 | 0.00 | 0.05 | 1. | 4 | FEB | 1605 | 194 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0340 | 45 | 0.05 | 0.00 | 0.05 | 1. | 4 | FEB | 1610 | 195 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0345 | 46 | 0.04 | 0.00 | 0.04 | 1. | 4 | FEB | 1615 | 196 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0350 | 47 | 0.04 | 0.00 | 0.04 | 1. | 4 | FEB | 1620 | 197 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0355 | 48 | 0.04 | 0.00 | 0.04 | 1. | 4 | FEB | 1625 | 198 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0400 | 49 | 0.03 | 0.00 | 0.03 | 1. | 4 | FEB | 1630 | 199 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0405 | 50 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1635 | 200 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0410 | 51 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1640 | 201 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0415 | 52 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1645 | 202 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0420 | 53 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1650 | 203 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0425 | 54 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1655 | 204 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0430 | 55 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1700 | 205 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0435 | 56 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1705 | 206 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0440 | 57 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1710 | 207 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0445 | 58 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1715 | 208 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0450 | 59 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1720 | 209 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0455 | 60 | 0.02 | 0.00 | 0.02 | 0. | 4 | FEB | 1725 | 210 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0500 | 61 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1730 | 211 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0505 | 62 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1735 | 212 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0510 | 63 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1740 | 213 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0515 | 64 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1745 | 214 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0520 | 65 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1750 | 215 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0525 | 66 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1755 | 216 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0530 | 67 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1800 | 217 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0535 | 68 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1805 | 218 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0540 | 69 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1810 | 219 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0545 | 70 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1815 | 220 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 FEB 0550 | 71 | 0.01 | 0.00 | 0.01 | 0. | * | 4 FEB 1820 | 221 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0555 | 72 | 0.01 | 0.00 | 0.01 | 0. | * | 4 FEB 1825 | 222 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0600 | 73 | 0.01 | 0.00 | 0.01 | 0. | * | 4 FEB 1830 | 223 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0605 | 74 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1835 | 224 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0610 | 75 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1840 | 225 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0615 | 76 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1845 | 226 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0620 | 77 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1850 | 227 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0625 | 78 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1855 | 228 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0630 | 79 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1900 | 229 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0635 | 80 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1905 | 230 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0640 | 81 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1910 | 231 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0645 | 82 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1915 | 232 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0650 | 83 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1920 | 233 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0655 | 84 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1925 | 234 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0700 | 85 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1930 | 235 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0705 | 86 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1935 | 236 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0710 | 87 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1940 | 237 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0715 | 88 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1945 | 238 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0720 | 89 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1950 | 239 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0725 | 90 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1955 | 240 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0730 | 91 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2000 | 241 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0735 | 92 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2005 | 242 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0740 | 93 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2010 | 243 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0745 | 94 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2015 | 244 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0750 | 95 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2020 | 245 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0755 | 96 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2025 | 246 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0800 | 97 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2030 | 247 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0805 | 98 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2035 | 248 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0810 | 99 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2040 | 249 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0815 | 100 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2045 | 250 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0820 | 101 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2050 | 251 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0825 | 102 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2055 | 252 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0830 | 103 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2100 | 253 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0835 | 104 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2105 | 254 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0840 | 105 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2110 | 255 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0845 | 106 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2115 | 256 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0850 | 107 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2120 | 257 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0855 | 108 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2125 | 258 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0900 | 109 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2130 | 259 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0905 | 110 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2135 | 260 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0910 | 111 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2140 | 261 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0915 | 112 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2145 | 262 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0920 | 113 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2150 | 263 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0925 | 114 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2155 | 264 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0930 | 115 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2200 | 265 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0935 | 116 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2205 | 266 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0940 | 117 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2210 | 267 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0945 | 118 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2215 | 268 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0950 | 119 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2220 | 269 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0955 | 120 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2225 | 270 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1000 | 121 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2230 | 271 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1005 | 122 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2235 | 272 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1010 | 123 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2240 | 273 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1015 | 124 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2245 | 274 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1020 | 125 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2250 | 275 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1025 | 126 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2255 | 276 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1030 | 127 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2300 | 277 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1035 | 128 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2305 | 278 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1040 | 129 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2310 | 279 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1045 | 130 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2315 | 280 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1050 | 131 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2320 | 281 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1055 | 132 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2325 | 282 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1100 | 133 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2330 | 283 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1105 | 134 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2335 | 284 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1110 | 135 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2340 | 285 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1115 | 136 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2345 | 286 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1120 | 137 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2350 | 287 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1125 | 138 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2355 | 288 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1130 | 139 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0000 | 289 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1135 | 140 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0005 | 290 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1140 | 141 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0010 | 291 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1145 | 142 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0015 | 292 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1150 | 143 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0020 | 293 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1155 | 144 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0025 | 294 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1200 | 145 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0030 | 295 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1205 | 146 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0035 | 296 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1210 | 147 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0040 | 297 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1215 | 148 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0045 | 298 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | FEB | 1220 | 149 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0050 | 299 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1225 | 150 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0055 | 300 | 0.00 | 0.00 | 0.00 | 0. |

**********

TOTAL RAINFALL = 3.28, TOTAL LOSS = 0.23, TOTAL EXCESS = 3.05

| PEAK FLOW | TIME | | MAXIMUM AVERAGE FLOW | | | |
|---|---|---|---|---|---|---|
| | | | 6-HR | 24-HR | 72-HR | 24.92-HR |
| (CFS) | (HR) | | | | | |
| | | (CFS) | | | | |
| 4. | 3.17 | | 1. | 0. | 0. | 0. |
| | | (INCHES) | 3.049 | 3.050 | 3.050 | 3.050 |
| | | (AC-FT) | 0. | 0. | 0. | 0. |

CUMULATIVE AREA = 0.00 SQ MI

1

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

| OPERATION | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD | | | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6-HOUR | 24-HOUR | 72-HOUR | | | |
| HYDROGRAPH AT | MAIN | 4. | 3.17 | 1. | 0. | 0. | 0.00 | | |

*** NORMAL END OF HEC-1 ***

5-yr Detention Routing , one 6" PVC pipe

| n | Time min | Time hr | Ii cfs | Ii+Ii+1 | 2Si/Dt-Oi | 2Si+1/Dt-Oi+1 | Oi cfs |
|---|---|---|---|---|---|---|---|
| 0 | 5 | 0.08 | 1.0 | 2 | 0.0000 | 2.0000 | 0.0 |
| 1 | 10 | 0.17 | 1.0 | 2 | 1.0469 | 3.0469 | 0.5 |
| 2 | 15 | 0.25 | 1.0 | 2 | 2.0229 | 4.0229 | 0.5 |
| 3 | 20 | 0.33 | 1.0 | 2 | 2.9372 | 4.9372 | 0.5 |
| 4 | 25 | 0.42 | 1.0 | 3 | 3.7937 | 6.7937 | 0.6 |
| 5 | 30 | 0.50 | 2.0 | 5 | 5.5789 | 10.5789 | 0.6 |
| 6 | 35 | 0.58 | 3.0 | 7 | 9.2607 | 16.2607 | 0.7 |
| 7 | 40 | 0.67 | 4.0 | 8 | 14.8388 | 22.8388 | 0.7 |
| 8 | 45 | 0.75 | 4.0 | 7 | 21.3162 | 28.3162 | 0.8 |
| 9 | 50 | 0.83 | 3.0 | 5 | 26.0162 | 31.0162 | 1.1 |
| 10 | 55 | 0.92 | 2.0 | 4 | 28.3330 | 32.3330 | 1.3 |
| 11 | 60 | 1.00 | 2.0 | 3 | 29.4629 | 32.4629 | 1.4 |
| 12 | 65 | 1.08 | 1.0 | 2 | 29.5743 | 31.5743 | 1.4 |
| 13 | 70 | 1.17 | 1.0 | 2 | 28.8119 | 30.8119 | 1.4 |
| 14 | 75 | 1.25 | 1.0 | 2 | 28.1577 | 30.1577 | 1.3 |
| 15 | 80 | 1.33 | 1.0 | 2 | 27.5963 | 29.5963 | 1.3 |
| 16 | 85 | 1.42 | 1.0 | 2 | 27.1146 | 29.1146 | 1.2 |
| 17 | 90 | 1.50 | 1.0 | 1 | 26.7013 | 27.7013 | 1.2 |
| 18 | 95 | 1.58 | 0.0 | 0 | 25.4886 | 25.4886 | 1.1 |
| 19 | 100 | 1.67 | 0.0 | 0 | 23.5899 | 23.5899 | 0.9 |
| 20 | 105 | 1.75 | 0.0 | 0 | 21.9608 | 21.9608 | 0.8 |
| 21 | 110 | 1.83 | 0.0 | 0 | 20.4536 | 20.4536 | 0.8 |
| 22 | 115 | 1.92 | 0.0 | 0 | 18.9690 | 18.9690 | 0.7 |
| 23 | 120 | 2.00 | 0.0 | 0 | 17.5065 | 17.5065 | 0.7 |
| 24 | 125 | 2.08 | 0.0 | 0 | 16.0660 | 16.0660 | 0.7 |
| 25 | 130 | 2.17 | 0.0 | 0 | 14.6469 | 14.6469 | 0.7 |
| 26 | 135 | 2.25 | 0.0 | 0 | 13.2490 | 13.2490 | 0.7 |
| 27 | 140 | 2.33 | 0.0 | 0 | 11.8721 | 11.8721 | 0.7 |
| 28 | 145 | 2.42 | 0.0 | 0 | 10.5187 | 10.5187 | 0.7 |
| 29 | 150 | 2.50 | 0.0 | 0 | 9.2022 | 9.2022 | 0.7 |
| 30 | 155 | 2.58 | 0.0 | 0 | 7.9216 | 7.9216 | 0.6 |
| 31 | 160 | 2.67 | 0.0 | 0 | 6.6759 | 6.6759 | 0.6 |
| 32 | 165 | 2.75 | 0.0 | 0 | 5.4643 | 5.4643 | 0.6 |
| 33 | 170 | 2.83 | 0.0 | 0 | 4.2875 | 4.2875 | 0.6 |
| 34 | 175 | 2.92 | 0.0 | 0 | 3.1851 | 3.1851 | 0.6 |
| 35 | 180 | 3.00 | 0.0 | 0 | 2.1524 | 2.1524 | 0.5 |
| 36 | 185 | 3.08 | 0.0 | 0 | 1.1850 | 1.1850 | 0.5 |
| 37 | 190 | 3.17 | 0.0 | 0 | 0.3907 | 0.3907 | 0.4 |
| 38 | 195 | 3.25 | 0.0 | 0 | -0.0527 | -0.0527 | 0.2 |
| 39 | 200 | 3.33 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 40 | 205 | 3.42 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 41 | 210 | 3.50 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 42 | 215 | 3.58 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 43 | 220 | 3.67 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 44 | 225 | 3.75 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 45 | 230 | 3.83 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 46 | 235 | 3.92 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 47 | 48 | 0.80 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 48 | 49 | 0.82 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 49 | 50 | 0.83 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |
| 50 | 51 | 0.85 | 0.0 | 0 | -0.0527 | -0.0527 | 0.0 |

Davis Moore 1.07 acre D.A:

Detention Routing , one 6" PVC pipe

| Elev. ft | S ac-ft | O cfs | 2S/Dt cfs |
|---|---|---|---|
| 0 | 0 | 0.00 | 0 |
| 0.1 | 0.0009 | 0.34 | 0.5992 |
| 0.2 | 0.0054 | 0.48 | 2.0352 |
| 0.3 | 0.0171 | 0.59 | 5.5148 |
| 0.4 | 0.0397 | 0.68 | 12.1136 |
| 0.5 | 0.0766 | 0.76 | 22.8208 |
| 0.6 | 0.1316 | 1.97 | 39.8708 |
| 0.7 | 0.208 | 4.13 | 64.034 |
| 0.8 | 0.3101 | 6.89 | 96.1988 |
| 0.9 | 0.4408 | 10.15 | 137.1004 |
| 1 | 0.604 | 13.83 | 187.782 |
| 1.1 | 0.8033 | 17.90 | 249.2504 |
| 2 | 1.27 | 67.83 | 433.59 |
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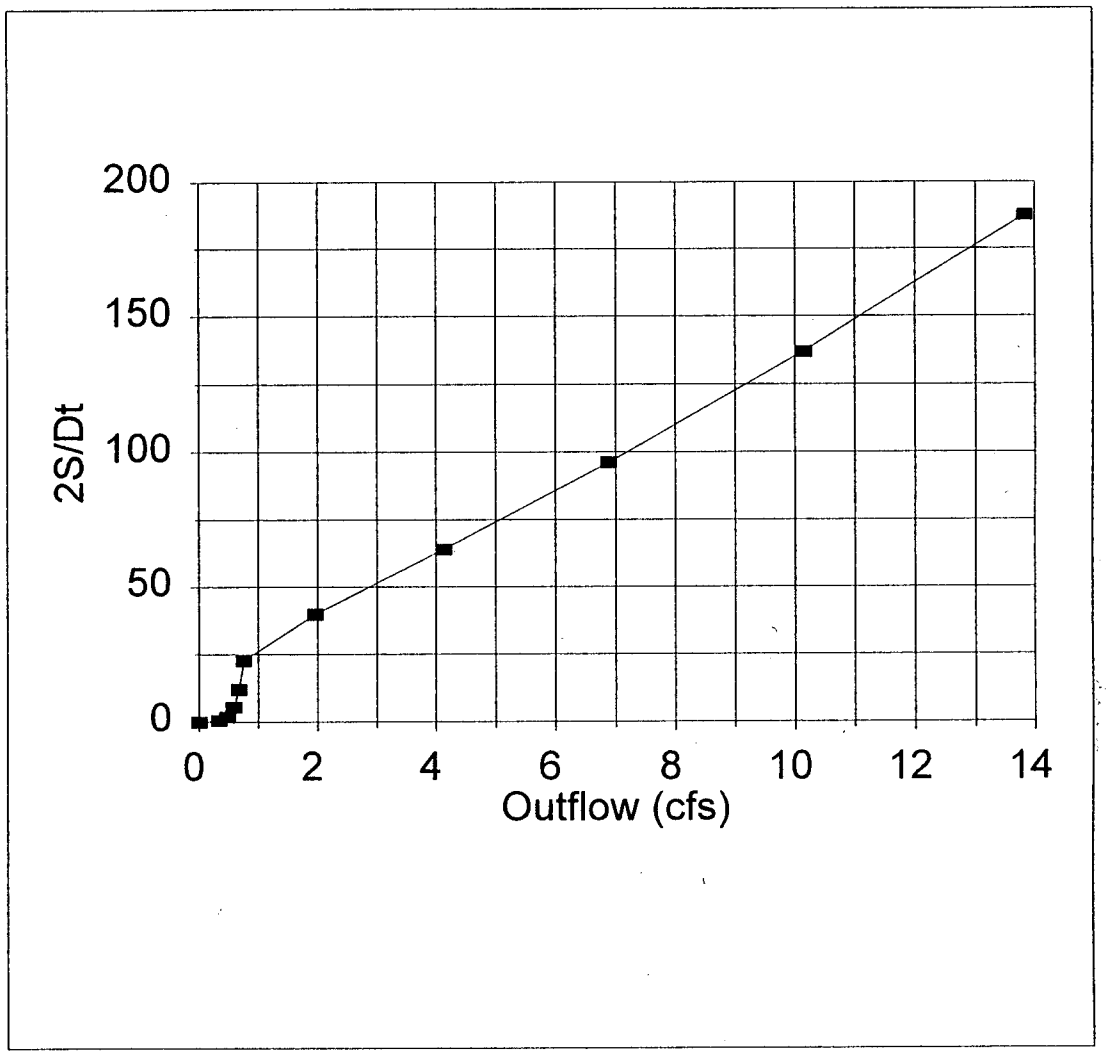


Davis Moore 1.07 acre D.A.

Davis Moore Facility, 100-yr Storm, Area #4, D.A. = 3.24 acres

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*           VERSION 4.0.1E              *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  14:13:41   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```

```
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  DAVIS MOORE FACILITY
         2          IT       5 04FEB99       0     300
         3          IO       0       0
                    *

         4          KK    MAIN
         5          BA   .0051
         6          PH       0       0    0.86  1.8425    3.73     4.6    5.04    5.94
                    *     10       0  0.6175   1.305    2.53     3.1    3.39    4.02
                    *     20       0   0.544    1.14    2.15    2.66    2.91    3.42
                    *     50       0   0.464  0.9575    1.69    7.98    2.16    2.52
         7          UD   0.15
         8          LS       0      98
                    *
         9          ZZ
```

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              MAY   1991               *
*           VERSION 4.0.1E              *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  14:13:41   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```

DAVIS MOORE FACILITY

```
  3 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          0  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE     4FEB99  STARTING DATE
```

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                ITIME        0000  STARTING TIME
                   NQ         300  NUMBER OF HYDROGRAPH ORDINATES
               NDDATE      5FEB99  ENDING DATE
               NDTIME        0055  ENDING TIME
               ICENT           19  CENTURY MARK

          COMPUTATION INTERVAL    0.08 HOURS
              TOTAL TIME BASE   24.92 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


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


        **************
        *            *
4 KK    *      MAIN  *
        *            *
        **************

      SUBBASIN RUNOFF DATA

5 BA    SUBBASIN CHARACTERISTICS
              TAREA        0.01  SUBBASIN AREA

      PRECIPITATION DATA

6 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
       0.86    1.84    3.73    4.60    5.04    5.94    0.00    0.00    0.00    0.00    0.00    0.00

                                          STORM AREA =     0.01

8 LS    SCS LOSS RATE
              STRTL        0.04  INITIAL ABSTRACTION
             CRVNBR       98.00  CURVE NUMBER
              RTIMP        0.00  PERCENT IMPERVIOUS AREA

7 UD    SCS DIMENSIONLESS UNITGRAPH
              TLAG        0.15  LAG

                                                  ***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

                                              UNIT HYDROGRAPH
                                          11 END-OF-PERIOD ORDINATES
      5.      13.      11.       6.       3.       1.       1.       0.       0.       0.
      0.
```

HYDROGRAPH AT STATION MAIN

| DA MON HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | DA MON HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 FEB 0000 | 1 | 0.00 | 0.00 | 0.00 | 0. | 4 FEB 1230 | 151 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0005 | 2 | 0.02 | 0.02 | 0.00 | 0. | 4 FEB 1235 | 152 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0010 | 3 | 0.02 | 0.02 | 0.00 | 0. | 4 FEB 1240 | 153 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0015 | 4 | 0.02 | 0.02 | 0.00 | 0. | 4 FEB 1245 | 154 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0020 | 5 | 0.02 | 0.02 | 0.01 | 0. | 4 FEB 1250 | 155 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0025 | 6 | 0.02 | 0.01 | 0.01 | 0. | 4 FEB 1255 | 156 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0030 | 7 | 0.02 | 0.01 | 0.01 | 0. | 4 FEB 1300 | 157 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0035 | 8 | 0.02 | 0.01 | 0.01 | 0. | 4 FEB 1305 | 158 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0040 | 9 | 0.02 | 0.01 | 0.01 | 0. | 4 FEB 1310 | 159 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0045 | 10 | 0.02 | 0.01 | 0.02 | 0. | 4 FEB 1315 | 160 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0050 | 11 | 0.02 | 0.01 | 0.02 | 1. | 4 FEB 1320 | 161 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0055 | 12 | 0.03 | 0.01 | 0.02 | 1. | 4 FEB 1325 | 162 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0100 | 13 | 0.03 | 0.01 | 0.02 | 1. | 4 FEB 1330 | 163 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0105 | 14 | 0.03 | 0.01 | 0.02 | 1. | 4 FEB 1335 | 164 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0110 | 15 | 0.03 | 0.01 | 0.02 | 1. | 4 FEB 1340 | 165 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0115 | 16 | 0.03 | 0.00 | 0.02 | 1. | 4 FEB 1345 | 166 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0120 | 17 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1350 | 167 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0125 | 18 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1355 | 168 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0130 | 19 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1400 | 169 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0135 | 20 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1405 | 170 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0140 | 21 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1410 | 171 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0145 | 22 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1415 | 172 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0150 | 23 | 0.04 | 0.00 | 0.03 | 1. | 4 FEB 1420 | 173 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0155 | 24 | 0.04 | 0.00 | 0.04 | 1. | 4 FEB 1425 | 174 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0200 | 25 | 0.04 | 0.00 | 0.04 | 1. | 4 FEB 1430 | 175 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0205 | 26 | 0.06 | 0.00 | 0.06 | 2. | 4 FEB 1435 | 176 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0210 | 27 | 0.06 | 0.00 | 0.06 | 2. | 4 FEB 1440 | 177 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0215 | 28 | 0.07 | 0.00 | 0.06 | 2. | 4 FEB 1445 | 178 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0220 | 29 | 0.07 | 0.00 | 0.07 | 2. | 4 FEB 1450 | 179 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0225 | 30 | 0.08 | 0.00 | 0.08 | 3. | 4 FEB 1455 | 180 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0230 | 31 | 0.09 | 0.00 | 0.08 | 3. | 4 FEB 1500 | 181 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0235 | 32 | 0.14 | 0.00 | 0.13 | 3. | 4 FEB 1505 | 182 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0240 | 33 | 0.15 | 0.00 | 0.15 | 4. | 4 FEB 1510 | 183 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0245 | 34 | 0.18 | 0.00 | 0.17 | 5. | 4 FEB 1515 | 184 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0250 | 35 | 0.28 | 0.00 | 0.28 | 6. | 4 FEB 1520 | 185 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0255 | 36 | 0.34 | 0.00 | 0.34 | 8. | 4 FEB 1525 | 186 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0300 | 37 | 0.58 | 0.00 | 0.58 | 12. | 4 FEB 1530 | 187 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0305 | 38 | 0.86 | 0.00 | 0.86 | 17. | 4 FEB 1535 | 188 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0310 | 39 | 0.40 | 0.00 | 0.40 | 22. | 4 FEB 1540 | 189 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0315 | 40 | 0.31 | 0.00 | 0.30 | 21. | 4 FEB 1545 | 190 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0320 | 41 | 0.19 | 0.00 | 0.19 | 16. | 4 FEB 1550 | 191 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0325 | 42 | 0.16 | 0.00 | 0.16 | 12. | 4 FEB 1555 | 192 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0330 | 43 | 0.14 | 0.00 | 0.14 | 9. | 4 FEB 1600 | 193 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0335 | 44 | 0.09 | 0.00 | 0.09 | 7. | 4 FEB 1605 | 194 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0340 | 45 | 0.08 | 0.00 | 0.08 | 6. | 4 FEB 1610 | 195 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0345 | 46 | 0.08 | 0.00 | 0.08 | 4. | 4 FEB 1615 | 196 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0350 | 47 | 0.07 | 0.00 | 0.07 | 4. | 4 FEB 1620 | 197 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0355 | 48 | 0.06 | 0.00 | 0.06 | 3. | 4 FEB 1625 | 198 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0400 | 49 | 0.06 | 0.00 | 0.06 | 3. | 4 FEB 1630 | 199 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0405 | 50 | 0.04 | 0.00 | 0.04 | 3. | 4 FEB 1635 | 200 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0410 | 51 | 0.04 | 0.00 | 0.04 | 2. | 4 FEB 1640 | 201 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0415 | 52 | 0.04 | 0.00 | 0.04 | 2. | 4 FEB 1645 | 202 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0420 | 53 | 0.04 | 0.00 | 0.04 | 2. | 4 FEB 1650 | 203 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0425 | 54 | 0.03 | 0.00 | 0.03 | 2. | 4 FEB 1655 | 204 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0430 | 55 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1700 | 205 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0435 | 56 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1705 | 206 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0440 | 57 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1710 | 207 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0445 | 58 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1715 | 208 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0450 | 59 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1720 | 209 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0455 | 60 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1725 | 210 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0500 | 61 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1730 | 211 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0505 | 62 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1735 | 212 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0510 | 63 | 0.03 | 0.00 | 0.03 | 1. | 4 FEB 1740 | 213 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0515 | 64 | 0.02 | 0.00 | 0.02 | 1. | 4 FEB 1745 | 214 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0520 | 65 | 0.02 | 0.00 | 0.02 | 1. | 4 FEB 1750 | 215 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0525 | 66 | 0.02 | 0.00 | 0.02 | 1. | 4 FEB 1755 | 216 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0530 | 67 | 0.02 | 0.00 | 0.02 | 1. | 4 FEB 1800 | 217 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0535 | 68 | 0.02 | 0.00 | 0.02 | 1. | 4 FEB 1805 | 218 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0540 | 69 | 0.02 | 0.00 | 0.02 | 1. | 4 FEB 1810 | 219 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0545 | 70 | 0.02 | 0.00 | 0.02 | 1. | 4 FEB 1815 | 220 | 0.00 | 0.00 | 0.00 | 0. |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 FEB 0550 | 71 | 0.02 | 0.00 | 0.02 | 1. | * | 4 FEB 1820 | 221 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0555 | 72 | 0.02 | 0.00 | 0.02 | 1. | * | 4 FEB 1825 | 222 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0600 | 73 | 0.02 | 0.00 | 0.02 | 1. | * | 4 FEB 1830 | 223 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0605 | 74 | 0.00 | 0.00 | 0.00 | 1. | * | 4 FEB 1835 | 224 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0610 | 75 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1840 | 225 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0615 | 76 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1845 | 226 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0620 | 77 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1850 | 227 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0625 | 78 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1855 | 228 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0630 | 79 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1900 | 229 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0635 | 80 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1905 | 230 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0640 | 81 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1910 | 231 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0645 | 82 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1915 | 232 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0650 | 83 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1920 | 233 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0655 | 84 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1925 | 234 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0700 | 85 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1930 | 235 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0705 | 86 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1935 | 236 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0710 | 87 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1940 | 237 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0715 | 88 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1945 | 238 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0720 | 89 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1950 | 239 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0725 | 90 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 1955 | 240 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0730 | 91 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2000 | 241 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0735 | 92 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2005 | 242 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0740 | 93 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2010 | 243 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0745 | 94 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2015 | 244 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0750 | 95 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2020 | 245 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0755 | 96 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2025 | 246 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0800 | 97 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2030 | 247 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0805 | 98 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2035 | 248 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0810 | 99 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2040 | 249 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0815 | 100 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2045 | 250 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0820 | 101 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2050 | 251 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0825 | 102 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2055 | 252 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0830 | 103 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2100 | 253 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0835 | 104 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2105 | 254 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0840 | 105 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2110 | 255 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0845 | 106 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2115 | 256 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0850 | 107 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2120 | 257 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0855 | 108 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2125 | 258 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0900 | 109 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2130 | 259 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0905 | 110 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2135 | 260 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0910 | 111 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2140 | 261 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0915 | 112 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2145 | 262 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0920 | 113 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2150 | 263 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0925 | 114 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2155 | 264 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0930 | 115 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2200 | 265 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0935 | 116 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2205 | 266 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0940 | 117 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2210 | 267 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0945 | 118 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2215 | 268 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0950 | 119 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2220 | 269 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 0955 | 120 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2225 | 270 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1000 | 121 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2230 | 271 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1005 | 122 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2235 | 272 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1010 | 123 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2240 | 273 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1015 | 124 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2245 | 274 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1020 | 125 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2250 | 275 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1025 | 126 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2255 | 276 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1030 | 127 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2300 | 277 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1035 | 128 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2305 | 278 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1040 | 129 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2310 | 279 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1045 | 130 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2315 | 280 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1050 | 131 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2320 | 281 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1055 | 132 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2325 | 282 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1100 | 133 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2330 | 283 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1105 | 134 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2335 | 284 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1110 | 135 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2340 | 285 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1115 | 136 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2345 | 286 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1120 | 137 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2350 | 287 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1125 | 138 | 0.00 | 0.00 | 0.00 | 0. | * | 4 FEB 2355 | 288 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1130 | 139 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0000 | 289 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1135 | 140 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0005 | 290 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1140 | 141 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0010 | 291 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1145 | 142 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0015 | 292 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1150 | 143 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0020 | 293 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1155 | 144 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0025 | 294 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1200 | 145 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0030 | 295 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1205 | 146 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0035 | 296 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1210 | 147 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0040 | 297 | 0.00 | 0.00 | 0.00 | 0. |
| 4 FEB 1215 | 148 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB 0045 | 298 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | FEB | 1220 | 149 | 0.00 | 0.00 | 0.00 | 0. | * | | 5 | FEB | 0050 | 299 | 0.00 | 0.00 | 0.00 | 0. |
| | 4 | FEB | 1225 | 150 | 0.00 | 0.00 | 0.00 | 0. | * | | 5 | FEB | 0055 | 300 | 0.00 | 0.00 | 0.00 | 0. |
| | | | | | | | | | * | | | | | | | | | |

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TOTAL RAINFALL = 5.94, TOTAL LOSS = 0.24, TOTAL EXCESS = 5.70

| PEAK FLOW | TIME | | MAXIMUM AVERAGE FLOW | | | |
|---|---|---|---|---|---|---|
| | | | 6-HR | 24-HR | 72-HR | 24.92-HR |
| (CFS) | (HR) | | | | | |
| | | (CFS) | | | | |
| 22. | 3.17 | | 3. | 1. | 1. | 1. |
| | | (INCHES) | 5.697 | 5.702 | 5.702 | 5.702 |
| | | (AC-FT) | 2. | 2. | 2. | 2. |

CUMULATIVE AREA = 0.01 SQ MI

1

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

| OPERATION | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD | | | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6-HOUR | 24-HOUR | 72-HOUR | | | |
| HYDROGRAPH AT | | | | | | | | | |
| | MAIN | 22. | 3.17 | 3. | 1. | 1. | 0.01 | | |

*** NORMAL END OF HEC-1 ***

100-yr Detention Routing , one 6" PVC pipe

| n | Time min | Time hr | Ii cfs | Ii+Ii+1 | 2Si/Dt-Oi | 2Si+1/Dt-Oi+1 | Oi cfs |
|---|---|---|---|---|---|---|---|
| 0 | 5 | 0.08 | 1.0 | 2 | 0.0000 | 2.0000 | 0.0 |
| 1 | 10 | 0.17 | 1.0 | 2 | 1.0469 | 3.0469 | 0.5 |
| 2 | 15 | 0.25 | 1.0 | 2 | 2.0229 | 4.0229 | 0.5 |
| 3 | 20 | 0.33 | 1.0 | 2 | 2.9372 | 4.9372 | 0.5 |
| 4 | 25 | 0.42 | 1.0 | 2 | 3.7937 | 5.7937 | 0.6 |
| 5 | 30 | 0.50 | 1.0 | 2 | 4.6061 | 6.6061 | 0.6 |
| 6 | 35 | 0.58 | 1.0 | 2 | 5.3964 | 7.3964 | 0.6 |
| 7 | 40 | 0.67 | 1.0 | 2 | 6.1650 | 8.1650 | 0.6 |
| 8 | 45 | 0.75 | 1.0 | 2 | 6.9127 | 8.9127 | 0.6 |
| 9 | 50 | 0.83 | 1.0 | 2 | 7.6401 | 9.6401 | 0.6 |
| 10 | 55 | 0.92 | 1.0 | 2 | 8.3475 | 10.3475 | 0.6 |
| 11 | 60 | 1.00 | 1.0 | 2 | 9.0357 | 11.0357 | 0.7 |
| 12 | 65 | 1.08 | 1.0 | 2 | 9.7051 | 11.7051 | 0.7 |
| 13 | 70 | 1.17 | 1.0 | 2 | 10.3563 | 12.3563 | 0.7 |
| 14 | 75 | 1.25 | 1.0 | 3 | 10.9926 | 13.9926 | 0.7 |
| 15 | 80 | 1.33 | 2.0 | 4 | 12.6045 | 16.6045 | 0.7 |
| 16 | 85 | 1.42 | 2.0 | 4 | 15.1774 | 19.1774 | 0.7 |
| 17 | 90 | 1.50 | 2.0 | 4 | 17.7119 | 21.7119 | 0.7 |
| 18 | 95 | 1.58 | 2.0 | 5 | 20.2085 | 25.2085 | 0.8 |
| 19 | 100 | 1.67 | 3.0 | 6 | 23.3496 | 29.3496 | 0.9 |
| 20 | 105 | 1.75 | 3.0 | 6 | 26.9029 | 32.9029 | 1.2 |
| 21 | 110 | 1.83 | 3.0 | 7 | 29.9519 | 36.9519 | 1.5 |
| 22 | 115 | 1.92 | 4.0 | 9 | 33.4262 | 42.4262 | 1.8 |
| 23 | 120 | 2.00 | 5.0 | 11 | 38.0293 | 49.0293 | 2.2 |
| 24 | 125 | 2.08 | 6.0 | 14 | 43.4519 | 57.4519 | 2.8 |
| 25 | 130 | 2.17 | 8.0 | 20 | 50.3687 | 70.3687 | 3.5 |
| 26 | 135 | 2.25 | 12.0 | 29 | 61.0216 | 90.0216 | 4.7 |
| 27 | 140 | 2.33 | 17.0 | 39 | 77.3017 | 116.3017 | 6.4 |
| 28 | 145 | 2.42 | 22.0 | 43 | 99.3171 | 142.3171 | 8.5 |
| 29 | 150 | 2.50 | 21.0 | 37 | 121.2596 | 158.2596 | 10.5 |
| 30 | 155 | 2.58 | 16.0 | 28 | 134.8868 | 162.8868 | 11.7 |
| 31 | 160 | 2.67 | 12.0 | 21 | 138.8421 | 159.8421 | 12.0 |
| 32 | 165 | 2.75 | 9.0 | 16 | 136.2395 | 152.2395 | 11.8 |
| 33 | 170 | 2.83 | 7.0 | 13 | 129.7410 | 142.7410 | 11.2 |
| 34 | 175 | 2.92 | 6.0 | 10 | 121.6219 | 131.6219 | 10.6 |
| 35 | 180 | 3.00 | 4.0 | 8 | 112.1952 | 120.1952 | 9.7 |
| 36 | 185 | 3.08 | 4.0 | 7 | 102.5900 | 109.5900 | 8.8 |
| 37 | 190 | 3.17 | 3.0 | 6 | 93.6754 | 99.6754 | 8.0 |
| 38 | 195 | 3.25 | 3.0 | 6 | 85.3412 | 91.3412 | 7.2 |
| 39 | 200 | 3.33 | 3.0 | 5 | 78.3948 | 83.3948 | 6.5 |
| 40 | 205 | 3.42 | 2.0 | 4 | 71.8122 | 75.8122 | 5.8 |
| 41 | 210 | 3.50 | 2.0 | 4 | 65.5309 | 69.5309 | 5.1 |
| 42 | 215 | 3.58 | 2.0 | 4 | 60.3275 | 64.3275 | 4.6 |
| 43 | 220 | 3.67 | 2.0 | 2 | 56.0171 | 58.0171 | 4.2 |
| 44 | 225 | 3.75 | 0.0 | 1 | 50.8329 | 51.8329 | 3.6 |
| 45 | 230 | 3.83 | 1.0 | 2 | 45.7542 | 47.7542 | 3.0 |
| 46 | 235 | 3.92 | 1.0 | 2 | 42.4048 | 44.4048 | 2.7 |
| 47 | 240 | 4.00 | 1.0 | 2 | 39.6542 | 41.6542 | 2.4 |
| 48 | 245 | 4.08 | 1.0 | 2 | 37.3953 | 39.3953 | 2.1 |
| 49 | 250 | 4.17 | 1.0 | 2 | 35.5228 | 37.5228 | 1.9 |
| 50 | 255 | 4.25 | 1.0 | 2 | 33.9161 | 35.9161 | 1.8 |

Davis Moore ~~1.67~~ acre D.A.

100-yr Detention Routing , one 6" PVC pipe

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 51 | 260 | 4.33 | 1.0 | 2 | 32.5374 | 34.5374 | 1.7 |
| 52 | 265 | 4.42 | 1.0 | 2 | 31.3544 | 33.3544 | 1.6 |
| 53 | 270 | 4.50 | 1.0 | 2 | 30.3393 | 32.3393 | 1.5 |
| 54 | 275 | 4.58 | 1.0 | 2 | 29.4683 | 31.4683 | 1.4 |
| 55 | 280 | 4.67 | 1.0 | 2 | 28.7209 | 30.7209 | 1.4 |
| 56 | 285 | 4.75 | 1.0 | 2 | 28.0796 | 30.0796 | 1.3 |
| 57 | 290 | 4.83 | 1.0 | 2 | 27.5293 | 29.5293 | 1.3 |
| 58 | 295 | 4.92 | 1.0 | 2 | 27.0571 | 29.0571 | 1.2 |
| 59 | 300 | 5.00 | 1.0 | 2 | 26.6520 | 28.6520 | 1.2 |
| 60 | 305 | 5.08 | 1.0 | 2 | 26.3043 | 28.3043 | 1.2 |
| 61 | 310 | 5.17 | 1.0 | 2 | 26.0060 | 28.0060 | 1.1 |
| 62 | 315 | 5.25 | 1.0 | 2 | 25.7501 | 27.7501 | 1.1 |
| 63 | 320 | 5.33 | 1.0 | 2 | 25.5304 | 27.5304 | 1.1 |
| 64 | 325 | 5.42 | 1.0 | 1 | 25.3420 | 26.3420 | 1.1 |
| 65 | 330 | 5.50 | 0.0 | 0 | 24.3222 | 24.3222 | 1.0 |
| 66 | 335 | 5.58 | 0.0 | 0 | 22.5891 | 22.5891 | 0.9 |
| 67 | 340 | 5.67 | 0.0 | 0 | 21.0725 | 21.0725 | 0.8 |
| 68 | 345 | 5.75 | 0.0 | 0 | 19.5787 | 19.5787 | 0.7 |
| 69 | 350 | 5.83 | 0.0 | 0 | 18.1071 | 18.1071 | 0.7 |
| 70 | 355 | 5.92 | 0.0 | 0 | 16.6576 | 16.6576 | 0.7 |
| 71 | 360 | 6.00 | 0.0 | 0 | 15.2297 | 15.2297 | 0.7 |
| 72 | 365 | 6.08 | 0.0 | 0 | 13.8231 | 13.8231 | 0.7 |
| 73 | 370 | 6.17 | 0.0 | 0 | 12.4375 | 12.4375 | 0.7 |
| 74 | 375 | 6.25 | 0.0 | 0 | 11.0727 | 11.0727 | 0.7 |
| 75 | 380 | 6.33 | 0.0 | 0 | 9.7411 | 9.7411 | 0.7 |
| 76 | 385 | 6.42 | 0.0 | 0 | 8.4458 | 8.4458 | 0.6 |
| 77 | 390 | 6.50 | 0.0 | 0 | 7.1859 | 7.1859 | 0.6 |
| 78 | 395 | 6.58 | 0.0 | 0 | 5.9603 | 5.9603 | 0.6 |
| 79 | 400 | 6.67 | 0.0 | 0 | 4.7681 | 4.7681 | 0.6 |
| 80 | 405 | 6.75 | 0.0 | 0 | 3.6353 | 3.6353 | 0.6 |
| 81 | 410 | 6.83 | 0.0 | 0 | 2.5742 | 2.5742 | 0.5 |
| 82 | 415 | 6.92 | 0.0 | 0 | 1.5801 | 1.5801 | 0.5 |
| 83 | 420 | 7.00 | 0.0 | 0 | 0.7088 | 0.7088 | 0.4 |
| 84 | 425 | 7.08 | 0.0 | 0 | 0.0075 | 0.0075 | 0.4 |
| 85 | 430 | 7.17 | 0.0 | 0 | -0.0010 | -0.0010 | 0.0 |
| 86 | 435 | 7.25 | 0.0 | 0 | -0.0010 | -0.0010 | 0.0 |
| 87 | 440 | 7.33 | 0.0 | 0 | -0.0010 | -0.0010 | 0.0 |
| 88 | 445 | 7.42 | 0.0 | 0 | -0.0010 | -0.0010 | 0.0 |
| 89 | 450 | 7.50 | 0.0 | 0 | -0.0010 | -0.0010 | 0.0 |
| 90 | 455 | 7.58 | 0.0 | 0 | -0.0010 | -0.0010 | 0.0 |
| 91 | 460 | 7.67 | 0.0 | 0 | -0.0010 | -0.0010 | 0.0 |
| 92 | 465 | 7.75 | 0.0 | 0 | -0.0010 | -0.0010 | 0.0 |
| 93 | 470 | 7.83 | 0.0 | 0 | -0.0010 | -0.0010 | 0.0 |
| 94 | 475 | 7.92 | 0.0 | 0 | -0.0010 | -0.0010 | 0.0 |

Davis Moore ~~1.07~~ acre D.A.

Detention Routing , one 6" PVC pipe

| Elev. ft | S ac-ft | O cfs | 2S/Dt cfs |
|---|---|---|---|
| 0 | 0 | 0.00 | 0 |
| 0.1 | 0.0009 | 0.34 | 0.5992 |
| 0.2 | 0.0054 | 0.48 | 2.0352 |
| 0.3 | 0.0171 | 0.59 | 5.5148 |
| 0.4 | 0.0397 | 0.68 | 12.1136 |
| 0.5 | 0.0766 | 0.76 | 22.8208 |
| 0.6 | 0.1316 | 1.97 | 39.8708 |
| 0.7 | 0.208 | 4.13 | 64.034 |
| 0.8 | 0.3101 | 6.89 | 96.1988 |
| 0.9 | 0.4408 | 10.15 | 137.1004 |
| 1 | 0.604 | 13.83 | 187.782 |
| 1.1 | 0.8033 | 17.90 | 249.2504 |
| 2 | 1.27 | 67.83 | 433.59 |
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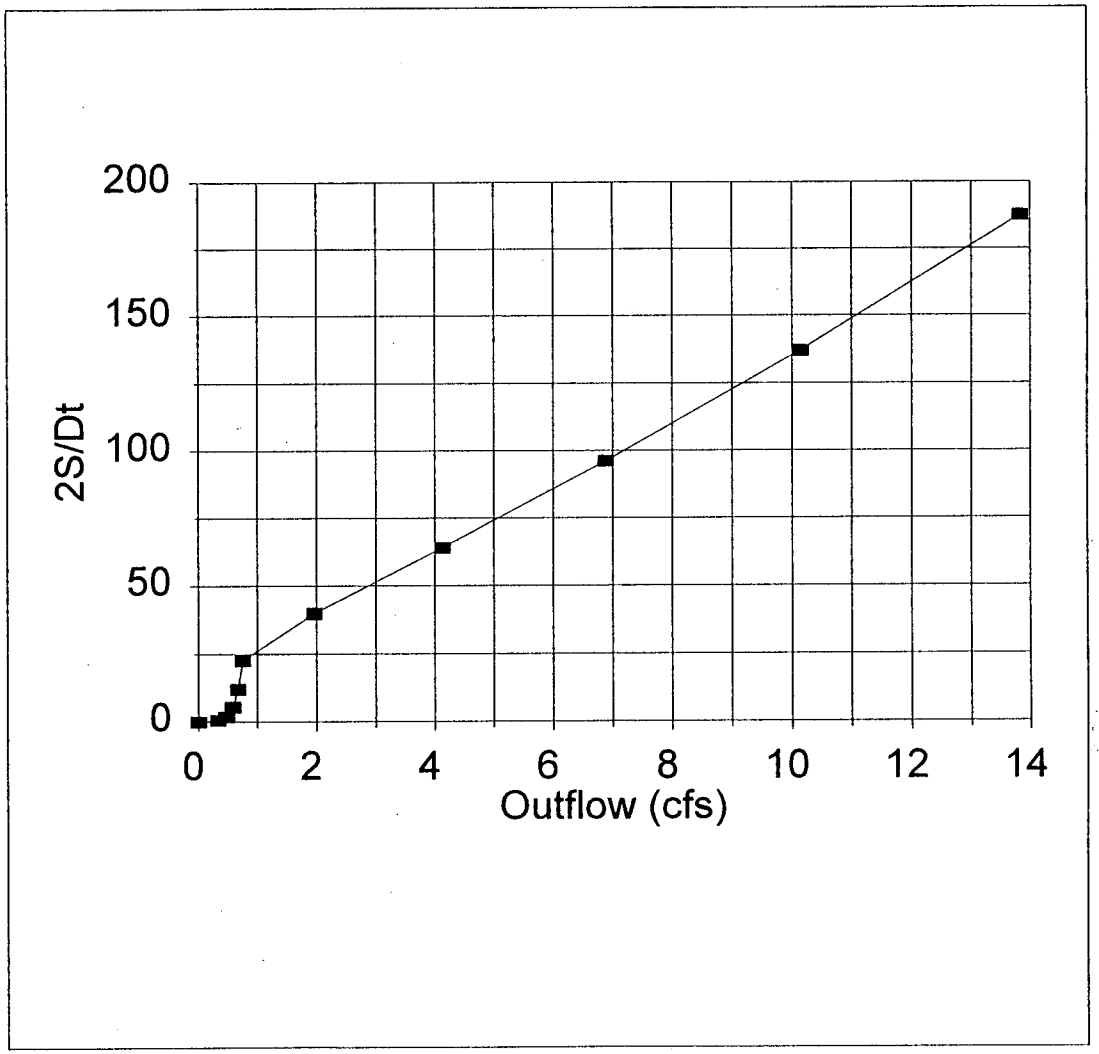


Davis Moore 3.24 acre D.A.

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             MAY   1991                *
*          VERSION 4.0.1E               *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  14:15:03   *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET             *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************
```

```
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  DAVIS MOORE FACILITY
            2          IT       5 04FEB99       0     300
            3          IO       0       0
                       *

            4          KK    MAIN
            5          BA   .0051
                       *      0       0    0.86  1.8425    3.73     4.6    5.04    5.94
                       *     10       0  0.6175   1.305    2.53     3.1    3.39    4.02
            6          PH     20       0   0.544    1.14    2.15    2.66    2.91    3.42
                       *     50       0   0.464  0.9575    1.69    7.98    2.16    2.52
            7          UD    0.15
            8          LS       0      98
                       *
            9          ZZ
```

1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             MAY   1991                *
*          VERSION 4.0.1E               *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/04/99  TIME  14:15:03   *
*****************************************

*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET             *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 551-1748              *
*                                       *
*****************************************

DAVIS MOORE FACILITY

```
  3 IO          OUTPUT CONTROL VARIABLES
                      IPRNT          0  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                       NMIN          5  MINUTES IN COMPUTATION INTERVAL
                      IDATE     4FEB99  STARTING DATE
```

```
                ITIME        0000  STARTING TIME
                   NQ         300  NUMBER OF HYDROGRAPH ORDINATES
               NDDATE      5FEB99  ENDING DATE
               NDTIME        0055  ENDING TIME
               ICENT           19  CENTURY MARK

          COMPUTATION INTERVAL    0.08 HOURS
              TOTAL TIME BASE   24.92 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


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


          **************
          *            *
   4 KK   *      MAIN  *
          *            *
          **************

          SUBBASIN RUNOFF DATA

   5 BA     SUBBASIN CHARACTERISTICS
                 TAREA        0.01  SUBBASIN AREA

            PRECIPITATION DATA

   6 PH                              DEPTHS FOR  20-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
             0.54    1.14    2.15    2.66    2.91    3.42    0.00    0.00    0.00    0.00    0.00    0.00

                                                STORM AREA =    0.01

   8 LS     SCS LOSS RATE
                 STRTL        0.04  INITIAL ABSTRACTION
                CRVNBR       98.00  CURVE NUMBER
                 RTIMP        0.00  PERCENT IMPERVIOUS AREA

   7 UD     SCS DIMENSIONLESS UNITGRAPH
                 TLAG        0.15  LAG

                                                      ***

WARNING *** TIME INTERVAL IS GREATER THAN .29*LAG

                                                UNIT HYDROGRAPH
                                           11 END-OF-PERIOD ORDINATES
            5.      13.      11.       6.       3.       1.       1.       0.       0.       0.
            0.
```

HYDROGRAPH AT STATION MAIN

| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | FEB | 0000 | 1 | 0.00 | 0.00 | 0.00 | 0. | 4 | FEB | 1230 | 151 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0005 | 2 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1235 | 152 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0010 | 3 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1240 | 153 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0015 | 4 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1245 | 154 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0020 | 5 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1250 | 155 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0025 | 6 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1255 | 156 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0030 | 7 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1300 | 157 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0035 | 8 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1305 | 158 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0040 | 9 | 0.01 | 0.01 | 0.00 | 0. | 4 | FEB | 1310 | 159 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0045 | 10 | 0.01 | 0.01 | 0.01 | 0. | 4 | FEB | 1315 | 160 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0050 | 11 | 0.01 | 0.01 | 0.01 | 0. | 4 | FEB | 1320 | 161 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0055 | 12 | 0.01 | 0.01 | 0.01 | 0. | 4 | FEB | 1325 | 162 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0100 | 13 | 0.01 | 0.01 | 0.01 | 0. | 4 | FEB | 1330 | 163 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0105 | 14 | 0.01 | 0.01 | 0.01 | 0. | 4 | FEB | 1335 | 164 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0110 | 15 | 0.02 | 0.01 | 0.01 | 0. | 4 | FEB | 1340 | 165 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0115 | 16 | 0.02 | 0.01 | 0.01 | 0. | 4 | FEB | 1345 | 166 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0120 | 17 | 0.02 | 0.01 | 0.01 | 0. | 4 | FEB | 1350 | 167 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0125 | 18 | 0.02 | 0.00 | 0.01 | 0. | 4 | FEB | 1355 | 168 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0130 | 19 | 0.02 | 0.00 | 0.01 | 0. | 4 | FEB | 1400 | 169 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0135 | 20 | 0.02 | 0.00 | 0.01 | 0. | 4 | FEB | 1405 | 170 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0140 | 21 | 0.02 | 0.00 | 0.01 | 0. | 4 | FEB | 1410 | 171 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0145 | 22 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1415 | 172 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0150 | 23 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1420 | 173 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0155 | 24 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1425 | 174 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0200 | 25 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1430 | 175 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0205 | 26 | 0.03 | 0.00 | 0.03 | 1. | 4 | FEB | 1435 | 176 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0210 | 27 | 0.04 | 0.00 | 0.03 | 1. | 4 | FEB | 1440 | 177 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0215 | 28 | 0.04 | 0.00 | 0.03 | 1. | 4 | FEB | 1445 | 178 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0220 | 29 | 0.04 | 0.00 | 0.04 | 1. | 4 | FEB | 1450 | 179 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0225 | 30 | 0.04 | 0.00 | 0.04 | 1. | 4 | FEB | 1455 | 180 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0230 | 31 | 0.05 | 0.00 | 0.04 | 1. | 4 | FEB | 1500 | 181 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0235 | 32 | 0.07 | 0.00 | 0.07 | 2. | 4 | FEB | 1505 | 182 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0240 | 33 | 0.08 | 0.00 | 0.07 | 2. | 4 | FEB | 1510 | 183 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0245 | 34 | 0.09 | 0.00 | 0.09 | 3. | 4 | FEB | 1515 | 184 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0250 | 35 | 0.14 | 0.01 | 0.14 | 3. | 4 | FEB | 1520 | 185 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0255 | 36 | 0.18 | 0.00 | 0.17 | 4. | 4 | FEB | 1525 | 186 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0300 | 37 | 0.34 | 0.01 | 0.33 | 6. | 4 | FEB | 1530 | 187 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0305 | 38 | 0.52 | 0.01 | 0.52 | 10. | 4 | FEB | 1535 | 188 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0310 | 39 | 0.23 | 0.00 | 0.23 | 13. | 4 | FEB | 1540 | 189 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0315 | 40 | 0.16 | 0.00 | 0.16 | 12. | 4 | FEB | 1545 | 190 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0320 | 41 | 0.10 | 0.00 | 0.10 | 9. | 4 | FEB | 1550 | 191 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0325 | 42 | 0.08 | 0.00 | 0.08 | 7. | 4 | FEB | 1555 | 192 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0330 | 43 | 0.07 | 0.00 | 0.07 | 5. | 4 | FEB | 1600 | 193 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0335 | 44 | 0.05 | 0.00 | 0.05 | 4. | 4 | FEB | 1605 | 194 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0340 | 45 | 0.05 | 0.00 | 0.05 | 3. | 4 | FEB | 1610 | 195 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0345 | 46 | 0.04 | 0.00 | 0.04 | 2. | 4 | FEB | 1615 | 196 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0350 | 47 | 0.04 | 0.00 | 0.04 | 2. | 4 | FEB | 1620 | 197 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0355 | 48 | 0.04 | 0.00 | 0.04 | 2. | 4 | FEB | 1625 | 198 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0400 | 49 | 0.03 | 0.00 | 0.03 | 2. | 4 | FEB | 1630 | 199 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0405 | 50 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1635 | 200 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0410 | 51 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1640 | 201 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0415 | 52 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1645 | 202 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0420 | 53 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1650 | 203 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0425 | 54 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1655 | 204 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0430 | 55 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1700 | 205 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0435 | 56 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1705 | 206 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0440 | 57 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1710 | 207 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0445 | 58 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1715 | 208 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0450 | 59 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1720 | 209 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0455 | 60 | 0.02 | 0.00 | 0.02 | 1. | 4 | FEB | 1725 | 210 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0500 | 61 | 0.01 | 0.00 | 0.01 | 1. | 4 | FEB | 1730 | 211 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0505 | 62 | 0.01 | 0.00 | 0.01 | 1. | 4 | FEB | 1735 | 212 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0510 | 63 | 0.01 | 0.00 | 0.01 | 1. | 4 | FEB | 1740 | 213 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0515 | 64 | 0.01 | 0.00 | 0.01 | 1. | 4 | FEB | 1745 | 214 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0520 | 65 | 0.01 | 0.00 | 0.01 | 1. | 4 | FEB | 1750 | 215 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0525 | 66 | 0.01 | 0.00 | 0.01 | 1. | 4 | FEB | 1755 | 216 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0530 | 67 | 0.01 | 0.00 | 0.01 | 1. | 4 | FEB | 1800 | 217 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0535 | 68 | 0.01 | 0.00 | 0.01 | 1. | 4 | FEB | 1805 | 218 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0540 | 69 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1810 | 219 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0545 | 70 | 0.01 | 0.00 | 0.01 | 0. | 4 | FEB | 1815 | 220 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | FEB | 0550 | 71 | 0.01 | 0.00 | 0.01 | 0. | * | 4 | FEB | 1820 | 221 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0555 | 72 | 0.01 | 0.00 | 0.01 | 0. | * | 4 | FEB | 1825 | 222 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0600 | 73 | 0.01 | 0.00 | 0.01 | 0. | * | 4 | FEB | 1830 | 223 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0605 | 74 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1835 | 224 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0610 | 75 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1840 | 225 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0615 | 76 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1845 | 226 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0620 | 77 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1850 | 227 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0625 | 78 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1855 | 228 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0630 | 79 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1900 | 229 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0635 | 80 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1905 | 230 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0640 | 81 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1910 | 231 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0645 | 82 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1915 | 232 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0650 | 83 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1920 | 233 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0655 | 84 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1925 | 234 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0700 | 85 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1930 | 235 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0705 | 86 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1935 | 236 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0710 | 87 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1940 | 237 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0715 | 88 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1945 | 238 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0720 | 89 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1950 | 239 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0725 | 90 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 1955 | 240 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0730 | 91 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2000 | 241 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0735 | 92 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2005 | 242 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0740 | 93 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2010 | 243 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0745 | 94 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2015 | 244 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0750 | 95 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2020 | 245 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0755 | 96 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2025 | 246 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0800 | 97 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2030 | 247 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0805 | 98 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2035 | 248 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0810 | 99 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2040 | 249 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0815 | 100 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2045 | 250 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0820 | 101 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2050 | 251 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0825 | 102 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2055 | 252 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0830 | 103 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2100 | 253 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0835 | 104 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2105 | 254 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0840 | 105 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2110 | 255 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0845 | 106 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2115 | 256 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0850 | 107 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2120 | 257 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0855 | 108 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2125 | 258 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0900 | 109 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2130 | 259 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0905 | 110 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2135 | 260 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0910 | 111 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2140 | 261 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0915 | 112 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2145 | 262 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0920 | 113 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2150 | 263 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0925 | 114 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2155 | 264 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0930 | 115 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2200 | 265 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0935 | 116 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2205 | 266 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0940 | 117 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2210 | 267 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0945 | 118 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2215 | 268 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0950 | 119 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2220 | 269 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 0955 | 120 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2225 | 270 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1000 | 121 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2230 | 271 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1005 | 122 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2235 | 272 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1010 | 123 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2240 | 273 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1015 | 124 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2245 | 274 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1020 | 125 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2250 | 275 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1025 | 126 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2255 | 276 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1030 | 127 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2300 | 277 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1035 | 128 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2305 | 278 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1040 | 129 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2310 | 279 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1045 | 130 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2315 | 280 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1050 | 131 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2320 | 281 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1055 | 132 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2325 | 282 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1100 | 133 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2330 | 283 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1105 | 134 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2335 | 284 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1110 | 135 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2340 | 285 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1115 | 136 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2345 | 286 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1120 | 137 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2350 | 287 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1125 | 138 | 0.00 | 0.00 | 0.00 | 0. | * | 4 | FEB | 2355 | 288 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1130 | 139 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0000 | 289 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1135 | 140 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0005 | 290 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1140 | 141 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0010 | 291 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1145 | 142 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0015 | 292 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1150 | 143 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0020 | 293 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1155 | 144 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0025 | 294 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1200 | 145 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0030 | 295 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1205 | 146 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0035 | 296 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1210 | 147 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0040 | 297 | 0.00 | 0.00 | 0.00 | 0. |
| 4 | FEB | 1215 | 148 | 0.00 | 0.00 | 0.00 | 0. | * | 5 | FEB | 0045 | 298 | 0.00 | 0.00 | 0.00 | 0. |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 FEB | 1220 | 149 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB | 0050 | 299 | 0.00 | 0.00 | 0.00 | 0. |
| | 4 FEB | 1225 | 150 | 0.00 | 0.00 | 0.00 | 0. | * | 5 FEB | 0055 | 300 | 0.00 | 0.00 | 0.00 | 0. |
| | | | | | | | | * | | | | | | | |

**********

TOTAL RAINFALL = 3.28, TOTAL LOSS = 0.23, TOTAL EXCESS = 3.05

| PEAK FLOW | TIME | | MAXIMUM AVERAGE FLOW | | | |
|---|---|---|---|---|---|---|
| | | | 6-HR | 24-HR | 72-HR | 24.92-HR |
| (CFS) | (HR) | | | | | |
| | | (CFS) | | | | |
| 13. | 3.17 | | 2. | 0. | 0. | 0. |
| | | (INCHES) | 3.049 | 3.050 | 3.050 | 3.050 |
| | | (AC-FT) | 1. | 1. | 1. | 1. |

CUMULATIVE AREA = 0.01 SQ MI

1

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

| OPERATION | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD | | | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 6-HOUR | 24-HOUR | 72-HOUR | | | |
| HYDROGRAPH AT | | | | | | | | | |
| | MAIN | 13. | 3.17 | 2. | 0. | 0. | 0.01 | | |

*** NORMAL END OF HEC-1 ***

5-yr Detention Routing , one 6" PVC pipe

| n | Time min | Time hr | Ii cfs | Ii+Ii+1 | 2Si/Dt-Oi | 2Si+1/Dt-Oi+1 | Oi cfs |
|---|---|---|---|---|---|---|---|
| 0 | 5 | 0.08 | 1.0 | 2 | 0.0000 | 2.0000 | 0.0 |
| 1 | 10 | 0.17 | 1.0 | 2 | 1.0469 | 3.0469 | 0.5 |
| 2 | 15 | 0.25 | 1.0 | 2 | 2.0229 | 4.0229 | 0.5 |
| 3 | 20 | 0.33 | 1.0 | 2 | 2.9372 | 4.9372 | 0.5 |
| 4 | 25 | 0.42 | 1.0 | 2 | 3.7937 | 5.7937 | 0.6 |
| 5 | 30 | 0.50 | 1.0 | 2 | 4.6061 | 6.6061 | 0.6 |
| 6 | 35 | 0.58 | 1.0 | 2 | 5.3964 | 7.3964 | 0.6 |
| 7 | 40 | 0.67 | 1.0 | 2 | 6.1650 | 8.1650 | 0.6 |
| 8 | 45 | 0.75 | 1.0 | 2 | 6.9127 | 8.9127 | 0.6 |
| 9 | 50 | 0.83 | 1.0 | 3 | 7.6401 | 10.6401 | 0.6 |
| 10 | 55 | 0.92 | 2.0 | 4 | 9.3203 | 13.3203 | 0.7 |
| 11 | 60 | 1.00 | 2.0 | 5 | 11.9422 | 16.9422 | 0.7 |
| 12 | 65 | 1.08 | 3.0 | 6 | 15.5101 | 21.5101 | 0.7 |
| 13 | 70 | 1.17 | 3.0 | 7 | 20.0097 | 27.0097 | 0.8 |
| 14 | 75 | 1.25 | 4.0 | 10 | 24.8951 | 34.8951 | 1.1 |
| 15 | 80 | 1.33 | 6.0 | 16 | 31.6613 | 47.6613 | 1.6 |
| 16 | 85 | 1.42 | 10.0 | 23 | 42.3285 | 65.3285 | 2.7 |
| 17 | 90 | 1.50 | 13.0 | 25 | 56.8464 | 81.8464 | 4.2 |
| 18 | 95 | 1.58 | 12.0 | 21 | 70.5295 | 91.5295 | 5.7 |
| 19 | 100 | 1.67 | 9.0 | 16 | 78.5508 | 94.5508 | 6.5 |
| 20 | 105 | 1.75 | 7.0 | 12 | 81.0536 | 93.0536 | 6.7 |
| 21 | 110 | 1.83 | 5.0 | 9 | 79.8134 | 88.8134 | 6.6 |
| 22 | 115 | 1.92 | 4.0 | 7 | 76.3008 | 83.3008 | 6.3 |
| 23 | 120 | 2.00 | 3.0 | 5 | 71.7343 | 76.7343 | 5.8 |
| 24 | 125 | 2.08 | 2.0 | 4 | 66.2948 | 70.2948 | 5.2 |
| 25 | 130 | 2.17 | 2.0 | 4 | 60.9603 | 64.9603 | 4.7 |
| 26 | 135 | 2.25 | 2.0 | 4 | 56.5413 | 60.5413 | 4.2 |
| 27 | 140 | 2.33 | 2.0 | 3 | 52.9058 | 55.9058 | 3.8 |
| 28 | 145 | 2.42 | 1.0 | 2 | 49.0990 | 51.0990 | 3.4 |
| 29 | 150 | 2.50 | 1.0 | 2 | 45.1516 | 47.1516 | 3.0 |
| 30 | 155 | 2.58 | 1.0 | 2 | 41.9099 | 43.9099 | 2.6 |
| 31 | 160 | 2.67 | 1.0 | 2 | 39.2477 | 41.2477 | 2.3 |
| 32 | 165 | 2.75 | 1.0 | 2 | 37.0616 | 39.0616 | 2.1 |
| 33 | 170 | 2.83 | 1.0 | 2 | 35.2364 | 37.2364 | 1.9 |
| 34 | 175 | 2.92 | 1.0 | 2 | 33.6703 | 35.6703 | 1.8 |
| 35 | 180 | 3.00 | 1.0 | 2 | 32.3265 | 34.3265 | 1.7 |
| 36 | 185 | 3.08 | 1.0 | 2 | 31.1735 | 33.1735 | 1.6 |
| 37 | 190 | 3.17 | 1.0 | 2 | 30.1841 | 32.1841 | 1.5 |
| 38 | 195 | 3.25 | 1.0 | 2 | 29.3351 | 31.3351 | 1.4 |
| 39 | 200 | 3.33 | 1.0 | 2 | 28.6066 | 30.6066 | 1.4 |
| 40 | 205 | 3.42 | 1.0 | 2 | 27.9815 | 29.9815 | 1.3 |
| 41 | 210 | 3.50 | 1.0 | 2 | 27.4452 | 29.4452 | 1.3 |
| 42 | 215 | 3.58 | 1.0 | 2 | 26.9849 | 28.9849 | 1.2 |
| 43 | 220 | 3.67 | 1.0 | 2 | 26.5900 | 28.5900 | 1.2 |
| 44 | 225 | 3.75 | 1.0 | 2 | 26.2512 | 28.2512 | 1.2 |
| 45 | 230 | 3.83 | 1.0 | 2 | 25.9604 | 27.9604 | 1.1 |
| 46 | 235 | 3.92 | 1.0 | 1 | 25.7109 | 26.7109 | 1.1 |
| 47 | 240 | 4.00 | 0.0 | 0 | 24.6388 | 24.6388 | 1.0 |
| 48 | 245 | 4.08 | 0.0 | 0 | 22.8607 | 22.8607 | 0.9 |
| 49 | 250 | 4.17 | 0.0 | 0 | 21.3351 | 21.3351 | 0.8 |
| 50 | 255 | 4.25 | 0.0 | 0 | 19.8373 | 19.8373 | 0.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 51 | 260 | 4.33 | 0.0 | 0 | 18.3618 | 18.3618 | 0.7 |
| 52 | 265 | 4.42 | 0.0 | 0 | 16.9085 | 16.9085 | 0.7 |
| 53 | 270 | 4.50 | 0.0 | 0 | 15.4768 | 15.4768 | 0.7 |
| 54 | 275 | 4.58 | 0.0 | 0 | 14.0666 | 14.0666 | 0.7 |
| 55 | 280 | 4.67 | 0.0 | 0 | 12.6774 | 12.6774 | 0.7 |
| 56 | 285 | 4.75 | 0.0 | 0 | 11.3090 | 11.3090 | 0.7 |
| 57 | 290 | 4.83 | 0.0 | 0 | 9.9709 | 9.9709 | 0.7 |
| 58 | 295 | 4.92 | 0.0 | 0 | 8.6694 | 8.6694 | 0.7 |
| 59 | 300 | 5.00 | 0.0 | 0 | 7.4033 | 7.4033 | 0.6 |
| 60 | 305 | 5.08 | 0.0 | 0 | 6.1718 | 6.1718 | 0.6 |
| 61 | 310 | 5.17 | 0.0 | 0 | 4.9739 | 4.9739 | 0.6 |
| 62 | 315 | 5.25 | 0.0 | 0 | 3.8281 | 3.8281 | 0.6 |
| 63 | 320 | 5.33 | 0.0 | 0 | 2.7547 | 2.7547 | 0.5 |
| 64 | 325 | 5.42 | 0.0 | 0 | 1.7492 | 1.7492 | 0.5 |
| 65 | 330 | 5.50 | 0.0 | 0 | 0.8450 | 0.8450 | 0.5 |
| 66 | 335 | 5.58 | 0.0 | 0 | 0.1171 | 0.1171 | 0.4 |
| 67 | 340 | 5.67 | 0.0 | 0 | -0.0158 | -0.0158 | 0.1 |
| 68 | 345 | 5.75 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 69 | 350 | 5.83 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 70 | 355 | 5.92 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 71 | 360 | 6.00 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 72 | 365 | 6.08 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 73 | 370 | 6.17 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 74 | 375 | 6.25 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 75 | 380 | 6.33 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 76 | 385 | 6.42 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 77 | 390 | 6.50 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 78 | 395 | 6.58 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 79 | 400 | 6.67 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 80 | 405 | 6.75 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 81 | 410 | 6.83 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 82 | 415 | 6.92 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 83 | 420 | 7.00 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 84 | 425 | 7.08 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 85 | 430 | 7.17 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 86 | 435 | 7.25 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 87 | 440 | 7.33 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 88 | 445 | 7.42 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 89 | 450 | 7.50 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 90 | 455 | 7.58 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 91 | 460 | 7.67 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 92 | 465 | 7.75 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 93 | 470 | 7.83 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |
| 94 | 475 | 7.92 | 0.0 | 0 | -0.0158 | -0.0158 | 0.0 |

Detention Routing , one 6" PVC pipe

| Elev. ft | S ac-ft | O cfs | 2S/Dt cfs |
|---|---|---|---|
| 0 | 0 | 0.00 | 0 |
| 0.1 | 0.0009 | 0.34 | 0.5992 |
| 0.2 | 0.0054 | 0.48 | 2.0352 |
| 0.3 | 0.0171 | 0.59 | 5.5148 |
| 0.4 | 0.0397 | 0.68 | 12.1136 |
| 0.5 | 0.0766 | 0.76 | 22.8208 |
| 0.6 | 0.1316 | 1.97 | 39.8708 |
| 0.7 | 0.208 | 4.13 | 64.034 |
| 0.8 | 0.3101 | 6.89 | 96.1988 |
| 0.9 | 0.4408 | 10.15 | 137.1004 |
| 1 | 0.604 | 13.83 | 187.782 |
| 1.1 | 0.8033 | 17.90 | 249.2504 |
| 2 | 1.27 | 67.83 | 433.59 |
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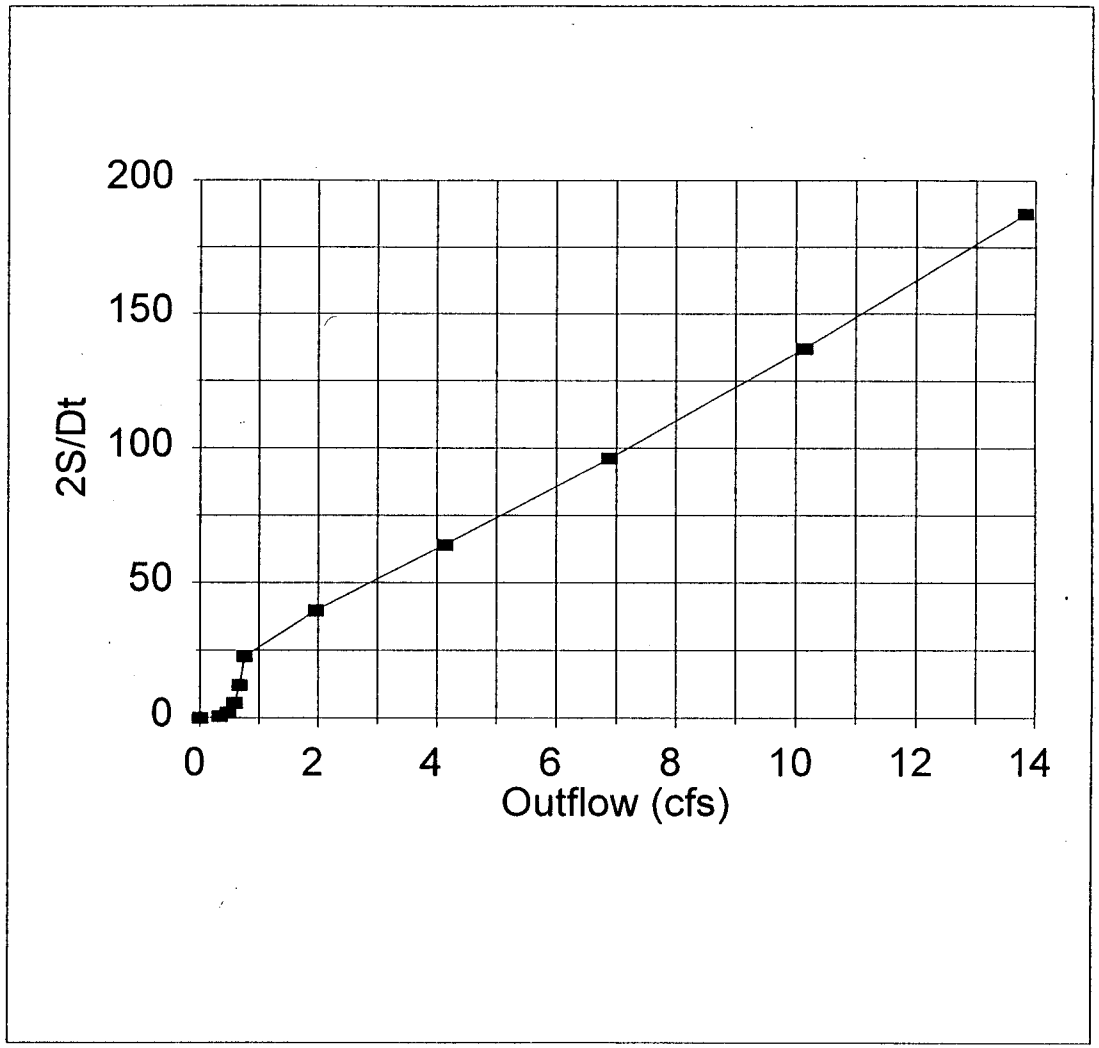


Davis Moore 3.24 acre D.A.