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***NORMAL END OF HEC-1***
THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC108, HEC108, AND HEC140.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTDOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.

THE DEFINITION OF -AMSSK- 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.
<p>| LINE | ID | Type | RRA | Area | B | IBO | PB | IN | PC | 0.0165 | 0.0600 | 0.0800 | 0.0600 | 0.9975 | 0.9300 | 0.9500 | 0.9800 | 0.9925 |
|------|----|------|-----|------|---|-----|----|----|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1    |    | Type II A storm | |    |    | 488 |    |    |    |        |        |        |        |        |        |        |        |        |
| 2    |    | SC205 | |    |    |    |    |    |    |        |        |        |        |        |        |        |        |        |
| 3    |    | Smith Creek 205 Runoff | |    |    |    |    |    |    |        |        |        |        |        |        |        |        |        |
| 4    |    | Smith Creek Route 205 to 215 | |    |    |    |    |    |    |        |        |        |        |        |        |        |        |        |
| 5    |    | Smith Creek Route 213 to 215 | |    |    |    |    |    |    |        |        |        |        |        |        |        |        |        |</p>
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10 year future-Alternate 2
HEC 5/8 1343001969   H8Version 6.33  Data File C:\WINNT\TEMP\vbh135E IMP

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** U.S. ARMY CORPS OF ENGINEERS **
** HYDROLOGIC ENGINEERING CENTER **
** VERSION 4.0.1E **
** 609 SECOND STREET **
** DAVIS, CALIFORNIA 95616 **
** RUN DATE 06/19/2001 TIME 16:14:12 **
** (916) 756-1104 **

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Full Microcomputer Implementation
by
Haestad Methods, Inc.

37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC-1 (JAN 73), HEC10, HEC11, AND HEC12.

THE DEFINITIONS OF VARIABLES -RTMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSXX- 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.
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367  KK  RT109
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| SC05A | DP05 | RT05 | 13 | 6.00 | 2 | 1 | 0 | 0.05 |
| SC05B | DP05 | RT05 | 37 | 6.00 | 6 | 2 | 1 | 0.09 |

<p>| HYDROGRAPH AT | COMBINED AT | ROUTED TO | 6021.91 | 6.50 |
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| SC05B | DP05 | RT05 | 37 | 6.00 | 6 | 2 | 1 | 0.09 |</p>
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### SUMMARY OF KINEMATIC WAVE - HUSKINGUM-CUNING RURITING
(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

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<th>DT</th>
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**CONTINUITY SUMMARY (AC-FT)** - INFLOW=0.3242E+01 EXCESS=0.0000E+00 OUTFLOW=0.3242E+01 BASIN STORAGE=0.6137E-09 PERCENT ERROR= 0.0

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**CONTINUITY SUMMARY (AC-FT)** - INFLOW=0.1115E+02 EXCESS=0.0000E+00 OUTFLOW=0.1115E+02 BASIN STORAGE=0.2688E+08 PERCENT ERROR= 0.0

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**CONTINUITY SUMMARY (AC-FT)** - INFLOW=0.1798E+02 EXCESS=0.0000E+00 OUTFLOW=0.1798E+02 BASIN STORAGE=0.1018E+17 PERCENT ERROR= 0.0

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**CONTINUITY SUMMARY (AC-FT)** - INFLOW=0.2807E+01 EXCESS=0.0000E+00 OUTFLOW=0.2807E+01 BASIN STORAGE=0.9395E-09 PERCENT ERROR= 0.0

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**CONTINUITY SUMMARY (AC-FT)** - INFLOW=0.4988E+01 EXCESS=0.0000E+00 OUTFLOW=0.4988E+01 BASIN STORAGE=0.7796E-08 PERCENT ERROR= 0.0

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**CONTINUITY SUMMARY (AC-FT)** - INFLOW=0.2698E+01 EXCESS=0.0000E+00 OUTFLOW=0.2698E+01 BASIN STORAGE=0.1957E-07 PERCENT ERROR= 0.0

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**CONTINUITY SUMMARY (AC-FT)** - INFLOW=0.8341E+01 EXCESS=0.0000E+00 OUTFLOW=0.8341E+01 BASIN STORAGE=0.1536E-09 PERCENT ERROR= 0.0

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**CONTINUITY SUMMARY (AC-FT)** - INFLOW=0.1047E+02 EXCESS=0.0000E+00 OUTFLOW=0.1048E+02 BASIN STORAGE=0.3675E-08 PERCENT ERROR= 0.0

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***NORMAL END OF HEC-1***
THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HECIDS, HEC10B, AND HECIRK.

THE DEFINITIONS OF VARIABLES -RTIMF- AND -RTIDR- 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, ISS-WRITE STAGE FREQUENCY,

DSS: READ TIME SERIES AT DESIRED CALCULATION INTERVAL, LOSS RATE: GREEN AND AMPT INFILTRATION

KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM.
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Continuity Summary (AC-FT) - INFLOW=0.623E+01 EXCESS=0.000E+00 OUTFLOW=0.623E+01 BASIN STORAGE: 0.602E-09 PERCENT ERROR: 0.0

| RT213  | MANE   | 0.01    | 174.53 | 361.65 | 1.19 | 15.00 | 169.14 | 360.00 |
| 1.19   |        |         |       |       |      |       |       |       |

Continuity Summary (AC-FT) - INFLOW=0.215E+02 EXCESS=0.000E+00 OUTFLOW=0.215E+02 BASIN STORAGE: 0.256E-08 PERCENT ERROR: 0.0

| RT215  | MANE   | 1.34    | 274.29 | 362.58 | 1.09 | 15.00 | 257.54 | 360.00 |
| 1.09   |        |         |       |       |      |       |       |       |

Continuity Summary (AC-FT) - INFLOW=0.357E+02 EXCESS=0.000E+00 OUTFLOW=0.357E+02 BASIN STORAGE: 0.182E-07 PERCENT ERROR: 0.0

| RT201  | MANE   | 1.30    | 45.01  | 363.07 | 0.92 | 15.00 | 42.40  | 360.00 |
| 0.92   |        |         |       |       |      |       |       |       |

Continuity Summary (AC-FT) - INFLOW=0.595E+01 EXCESS=0.000E+00 OUTFLOW=0.595E+01 BASIN STORAGE: 0.610E-09 PERCENT ERROR: 0.0

| RT203  | MANE   | 1.63    | 77.63  | 363.47 | 0.87 | 15.00 | 74.38  | 360.00 |
| 0.87   |        |         |       |       |      |       |       |       |

Continuity Summary (AC-FT) - INFLOW=0.108E+02 EXCESS=0.000E+00 OUTFLOW=0.108E+02 BASIN STORAGE: 0.588E-08 PERCENT ERROR: 0.0

| RT206  | MANE   | 0.38    | 391.10 | 360.89 | 1.00 | 15.00 | 383.84 | 360.00 |
| 1.01   |        |         |       |       |      |       |       |       |

Continuity Summary (AC-FT) - INFLOW=0.552E+02 EXCESS=0.000E+00 OUTFLOW=0.552E+02 BASIN STORAGE: 0.192E-07 PERCENT ERROR: 0.0

| RT203  | MANE   | 0.68    | 137.43 | 361.44 | 1.21 | 15.00 | 135.79 | 360.00 |
| 1.21   |        |         |       |       |      |       |       |       |

Continuity Summary (AC-FT) - INFLOW=0.160E+02 EXCESS=0.000E+00 OUTFLOW=0.160E+02 BASIN STORAGE: 0.151E-09 PERCENT ERROR: 0.0

| RT305  | MANE   | 1.39    | 168.95 | 362.51 | 1.21 | 15.00 | 162.66 | 360.00 |
| 1.22   |        |         |       |       |      |       |       |       |

Continuity Summary (AC-FT) - INFLOW=0.201E+02 EXCESS=0.000E+00 OUTFLOW=0.201E+02 BASIN STORAGE: 0.283E-08 PERCENT ERROR: 0.0

<p>| PT311  | MANE   | 2.07    | 328.24 | 364.10 | 1.21 | 15.00 | 302.76 | 360.00 |
| 1.21   |        |         |       |       |      |       |       |       |</p>
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*** NORMAL END OF HEC-1 ***