

oak2o.txt

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* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* CORPS OF ENGINEERS
* JUN 1998
* ENGINEERING CENTER
* VERSION 4.1
* SECOND STREET
* CALIFORNIA 95616
* RUN DATE 27JUL06 TIME 08:37:50
* (916) 756-1104
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*
* U.S. ARMY
* HYDROLOGIC
* 609
* DAVIS,
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X X XXXXXXXX XXXXX X
X X X X XXXX X
X X X X X XX
XXXXXXX XXXX X
X X X X XXXX X
X X X X X X
X X X XXXXXXXX XXXX
X X X XXXXXXXX XXXX

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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

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

1 HEC-1 ANALYSIS FOR HOOVER ROAD BASIN  
2 PROPOSED DRAINAGE ALONG RAILROAD  
3 100-YEAR STORM

\*\*\* LIST \*\*\*  
\*\*\* FREE \*\*\*

\*DIAGRAM  
IT 15 27SEP99 1200 0 28SEP99 2000  
IN 15 27SEP99 1200  
IO 0 5  
JR PREC 7.8

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8 KK A  
9 KO 5  
10 BA 0.0440  
11 PB 1.00  
12 PC 0.000  
13 PC 0.029  
14 PC 0.064  
15 PC 0.110  
16 PC 0.181  
17 PC 0.735  
18 PC 0.850  
19 PC 0.907  
20 PC 0.952  
21 PC 0.982  
22 LS 0  
23 UD 0.850

0.003 0.006 0.008 0.011 0.014 0.017 0.019 0.022 0.025  
0.032 0.035 0.038 0.042 0.045 0.048 0.052 0.056 0.060  
0.068 0.072 0.076 0.080 0.085 0.090 0.095 0.100 0.105  
0.115 0.120 0.127 0.134 0.140 0.147 0.155 0.163 0.172  
0.193 0.204 0.220 0.235 0.259 0.283 0.387 0.663 0.699  
0.754 0.772 0.786 0.799 0.810 0.820 0.828 0.835 0.843  
0.858 0.865 0.873 0.880 0.885 0.889 0.894 0.898 0.903  
0.912 0.916 0.921 0.925 0.929 0.934 0.938 0.943 0.947  
0.955 0.958 0.961 0.964 0.967 0.970 0.973 0.976 0.979  
0.985 0.988 0.991 0.994 0.997 1.000

24 KK POND5  
25 KO 5  
26 RS 1  
27 SA 0.00 ELEV 1362.0  
28 SE 1362.0 1366.0 1372.0  
29 SQ 0 7 14  
30 SQ 70  
31 SE 1362.0 1363.32 1363.99 1364.72 1365.65 1366.79 1368.23 1369.96 1370.14  
32 SE 1370.2

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SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (->>>) DIVERSION OR PUMP FLOW  
NO. (.) CONNECTOR (<>>>) RETURN OF DIVERTED OR PUMPED FLOW

8 A  
V V  
24 POND5

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*  
\*  
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\* U.S. ARMY  
\* HYDROLOGIC  
\* 609  
\* DAVIS,  
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6 IO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 5 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
Page 3

HEC-1 ANALYSIS FOR HOOVER ROAD BASIN  
PROPOSED DRAINAGE ALONG RAILROAD  
100-YEAR STORM

IT HYDROGRAPH TIME DATA 15 MINUTES IN COMPUTATION INTERVAL  
 NMIN 27SEP99 IDATE STARTING DATE  
 ITIME 1200 STARTING TIME  
 NQ 129 NUMBER OF HYDROGRAPH ORDINATES  
 NDDATE 28SEP99 ENDING DATE  
 NDTIME 2000 ENDING TIME  
 ICENT 19 CENTURY MARK

COMPUTATION INTERVAL .25 HOURS  
 TOTAL TIME BASE 32.00 HOURS

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

JP MULTI-PLAN OPTION 1 NUMBER OF PLANS  
 NPLAN

JR MULTI-RATIO OPTION  
 RATIOS OF PRECIPITATION  
 7.80

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 \*  
 \* A \*  
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 \*\*\*\*\*

8 KK

9 KO OUTPUT CONTROL VARIABLES  
 IPRINT 5 PRINT CONTROL  
 IPLOT 5 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE

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* POND5 *
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24 KK
25 KO OUTPUT CONTROL VARIABLES
    IPRNT 5 PRINT CONTROL
    IPLOT 5 PLOT CONTROL
    QSCAL 0. HYDROGRAPH PLOT SCALE
1
  
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PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS  
 FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES  
 TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN	RATIO 1	RATIOS APPLIED TO PRECIPITATION
HYDROGRAPH AT	A	.04	1	77.	12.75
ROUTED TO	POND5	.04	1	37.	13.50
				** PEAK STAGES IN FEET **	
	1			STAGE 1367.28	
				TIME 13.50	

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