

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

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					

Davis Moore Site, 100-yr Area #1, D.A.=077 acres

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

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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

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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

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   .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

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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

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE

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IT

HYDROGRAPH TIME DATA

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NMIN      5  MINUTES IN COMPUTATION INTERVAL
IDATE     21JAN99  STARTING DATE

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COMPUTATION INTERVAL	0.08 HOURS
TOTAL TIME BASE	24.92 HOURS

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

4 KK

5 BA

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.

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	0.0		

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
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			

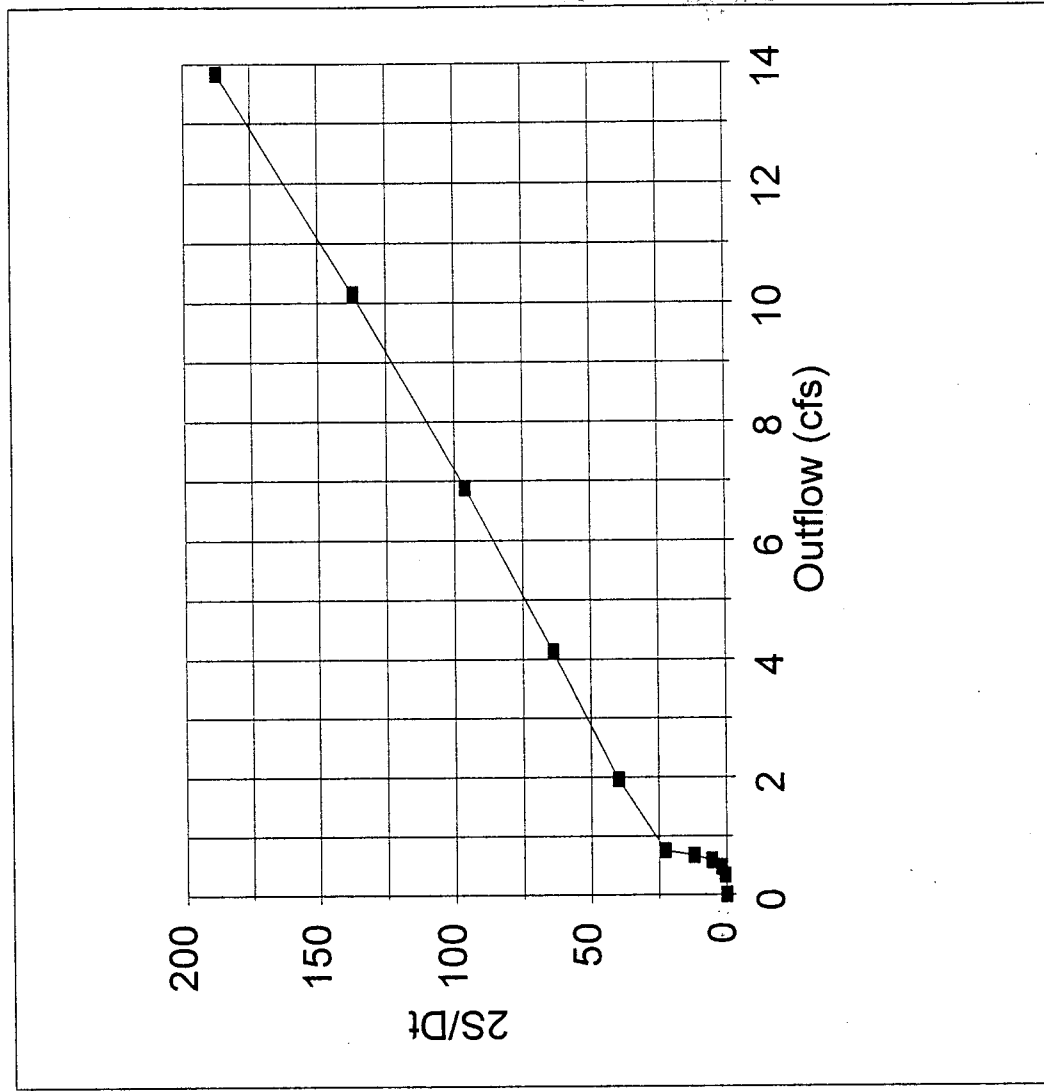
+	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT									
+		MAIN	5.	3.17	1.	0.	0.	0.00		

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

100-yr Detention Routing , one 6" PVC pipe

n	Time min	Time hr	I cfs	I+I+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	240	4.00	0.0	0	-0.0538	-0.0538	0.0
48	245	4.08	0.0	0	-0.0538	-0.0538	0.0
49	250	4.17	0.0	0	-0.0538	-0.0538	0.0
50	255	4.25	0.0	0	-0.0538	-0.0538	0.0

100-yr Detention Routing , one 6" PVC pipe

[illegible]

Davis Moore Site, Area #1, D.A. = 0.77 acres, 5-yr Storm

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

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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

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										

```
*****
*
* 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
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* 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.

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.			

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		
(CFS)	(HR)		6-HR	24-HR	72-HR
3.	3.17	(CFS)	0.	0.	0.
		(INCHES)	3.049	3.050	3.050
		(AC-FT)	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

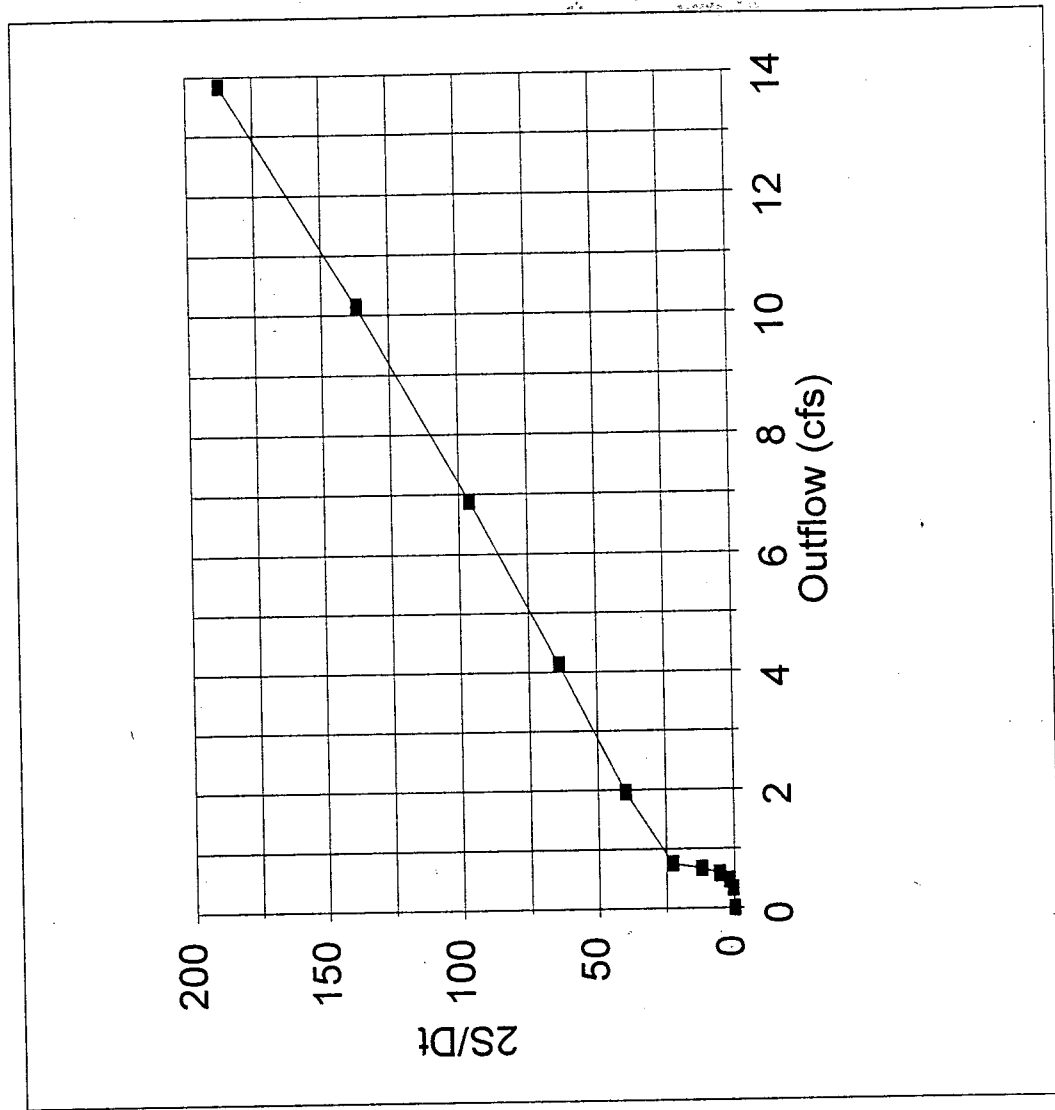
OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	MAIN	3.	3.17	0.	0.	0.	0.00		

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

5-yr Detention Routing , one 6" PVC pipe

n	Time min	Time hr	li cfs	li+li+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

attention Routing , one 6" PVC pipe

[illegible]

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

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

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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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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

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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

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
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

```

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

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DAVIS MOORE FACILITY

3 IO OUTPUT CONTROL VARIABLES

```

IPRNT      0 PRINT CONTROL
IPLOT      0 PLOT CONTROL
QSCAL      0. HYDROGRAPH PLOT SCALE

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IT HYDROGRAPH TIME DATA

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NMIN      5 MINUTES IN COMPUTATION INTERVAL
IDATE     21JAN99 STARTING DATE
ITIME     0000 STARTING TIME

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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		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

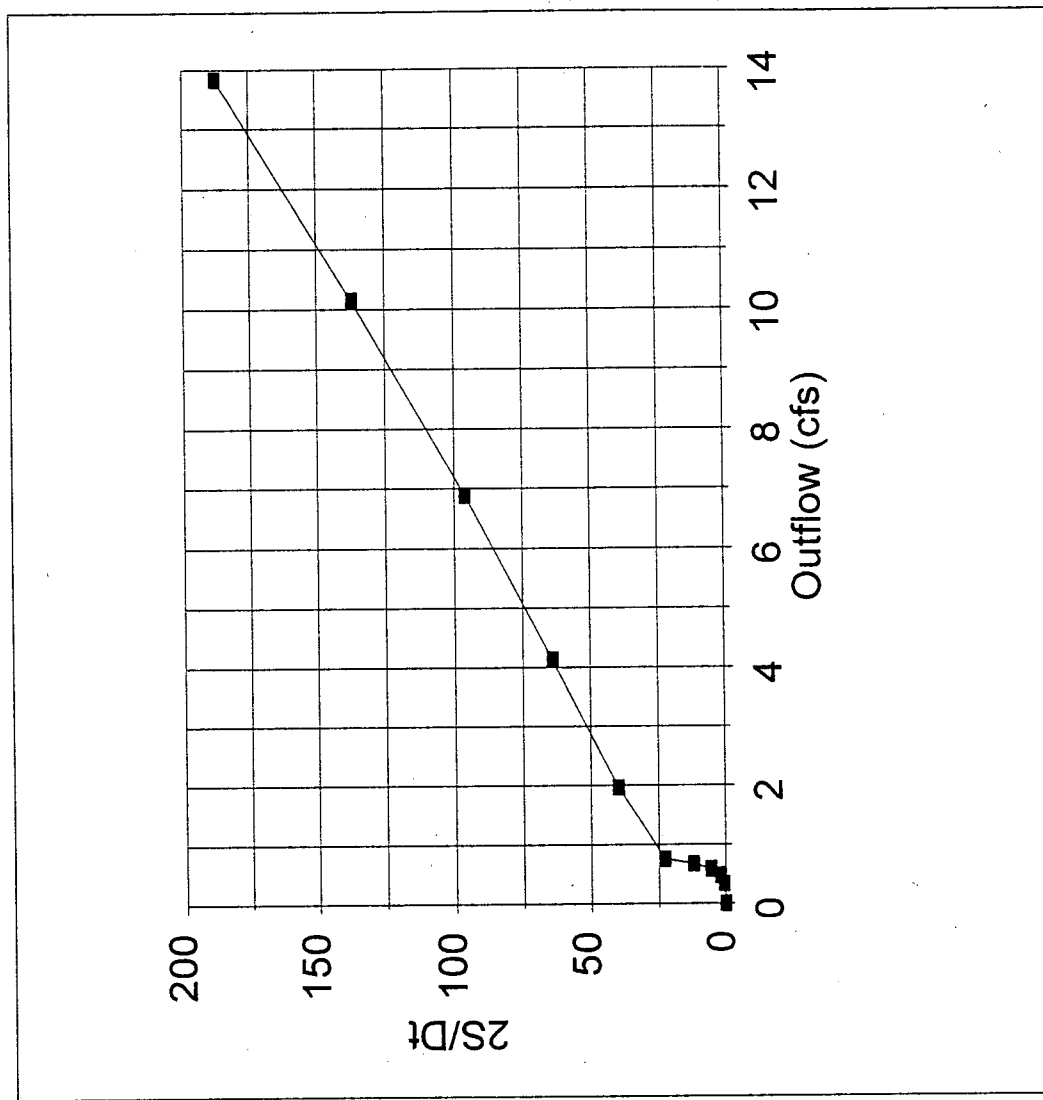
OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+									
	HYDROGRAPH AT								
+	MAIN	3.	3.17	0.	0.	0.	0.00		

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

100-yr Detention Routing , one 6" PVC pipe

n	Time min	Time hr	I _i cfs	I _i +I _{i+1}	2S _i /Dt-O _i	2S _i +1/Dt-O _i +1	O _i 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

[illegible]

Davis Moore 0.52 acre D.A.

Davis Moore Site, 5-yr Storm, Area #2, D.A.=0.52 acres

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*****
*
* 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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X X X X X
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X X XXXXXXX XXXXX XXX

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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

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									
	*	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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*****
*
* 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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```

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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.

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 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		6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)				
+	2.	3.17				
		(CFS)	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

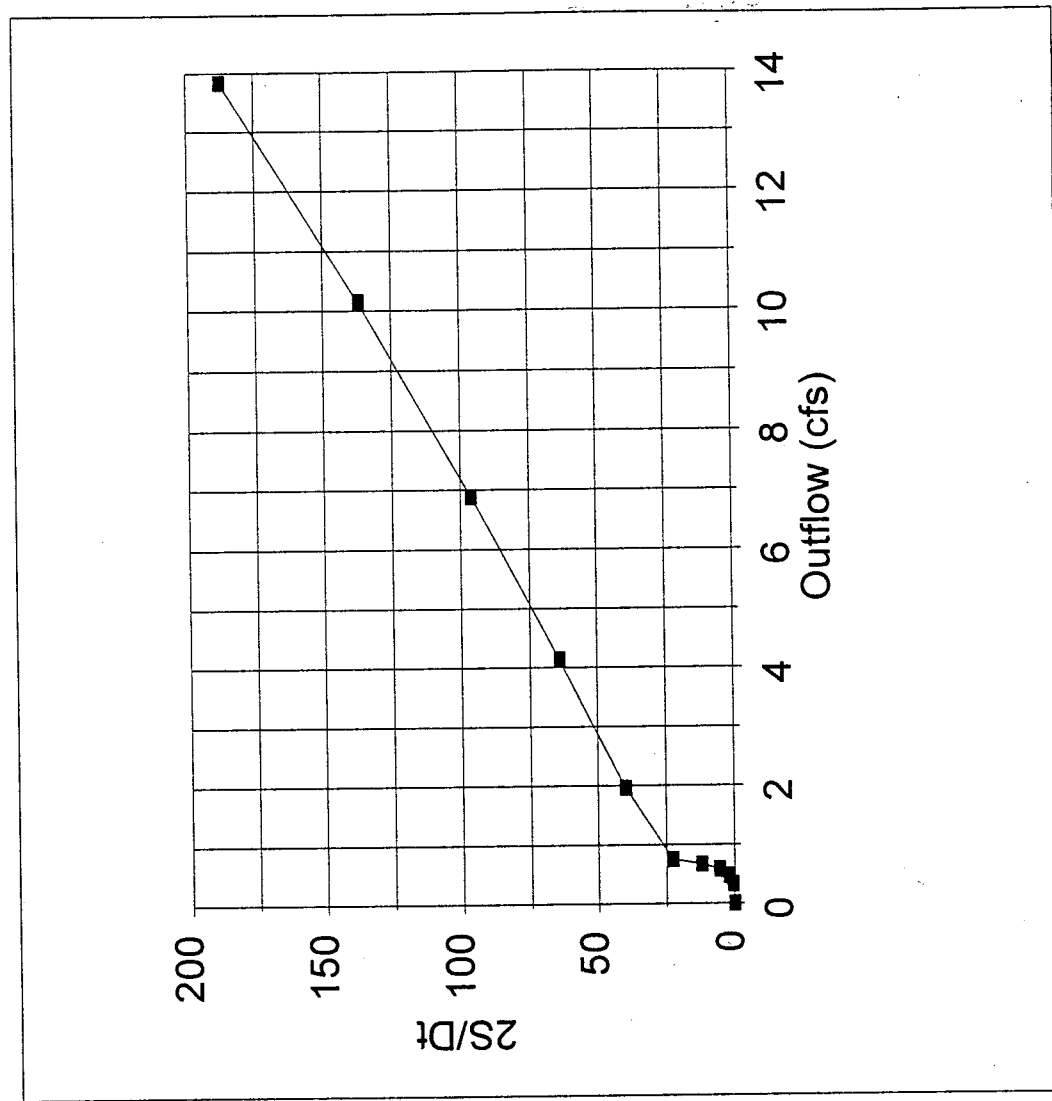
OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+									
+	HYDROGRAPH AT								
	MAIN	2.	3.17	0.	0.	0.	0.00		

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

5-yr Detention Routing , one 6" PVC pipe

n	Time min	Time hr	I cfs	I+I+1	2Si/Dt-Oi	2Si+1/Dt-Oi+1	O 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

Detention Routing , one 6" PVC pipe

[illegible]

Davis Moore Facility, 100-yr Storm, Area #3, D.A. = 1.07 acres

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*****
* 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 *
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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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X X XXXXXXX XXXX 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 XXXXXXX XXXXX XXX

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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

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 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

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*****
* 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 *
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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

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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 0.00 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
 CRVNR 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. |

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

| PEAK FLOW | TIME | | MAXIMUM AVERAGE FLOW | | | |
|-----------|------|----------|----------------------|-------|-------|----------|
| (CFS) | (HR) | (CFS) | 6-HR | 24-HR | 72-HR | 24.92-HR |
| + | 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

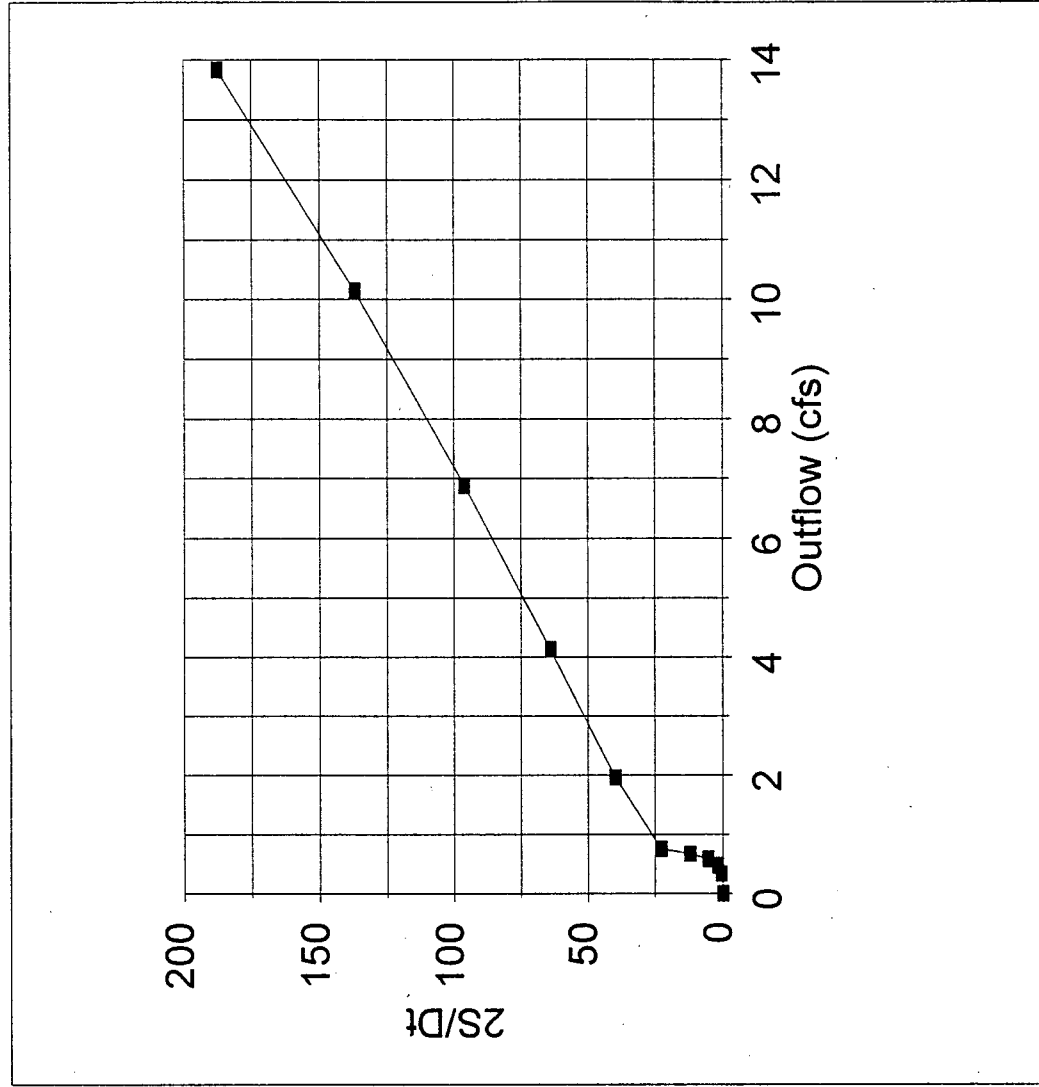
RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

| OPERATION | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD | | | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|-----------|---------------|-----------|--------------|---------------------------------|---------|---------|------------|---------------|-------------------|
| | | | | 6-HOUR | 24-HOUR | 72-HOUR | | | |
| + | | | | | | | | | |
| | 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 | I
cfs | I+I+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 |

[illegible]

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

```
*****
*
* 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 -AMSK- 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
```

```
*****
*
* 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

*** **

 *
 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

2. 4. 4. 2. 1. 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 | | | | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------|-----|------|------|------|----|---|------------|-----|------|------|------|----|
| 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 | | 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

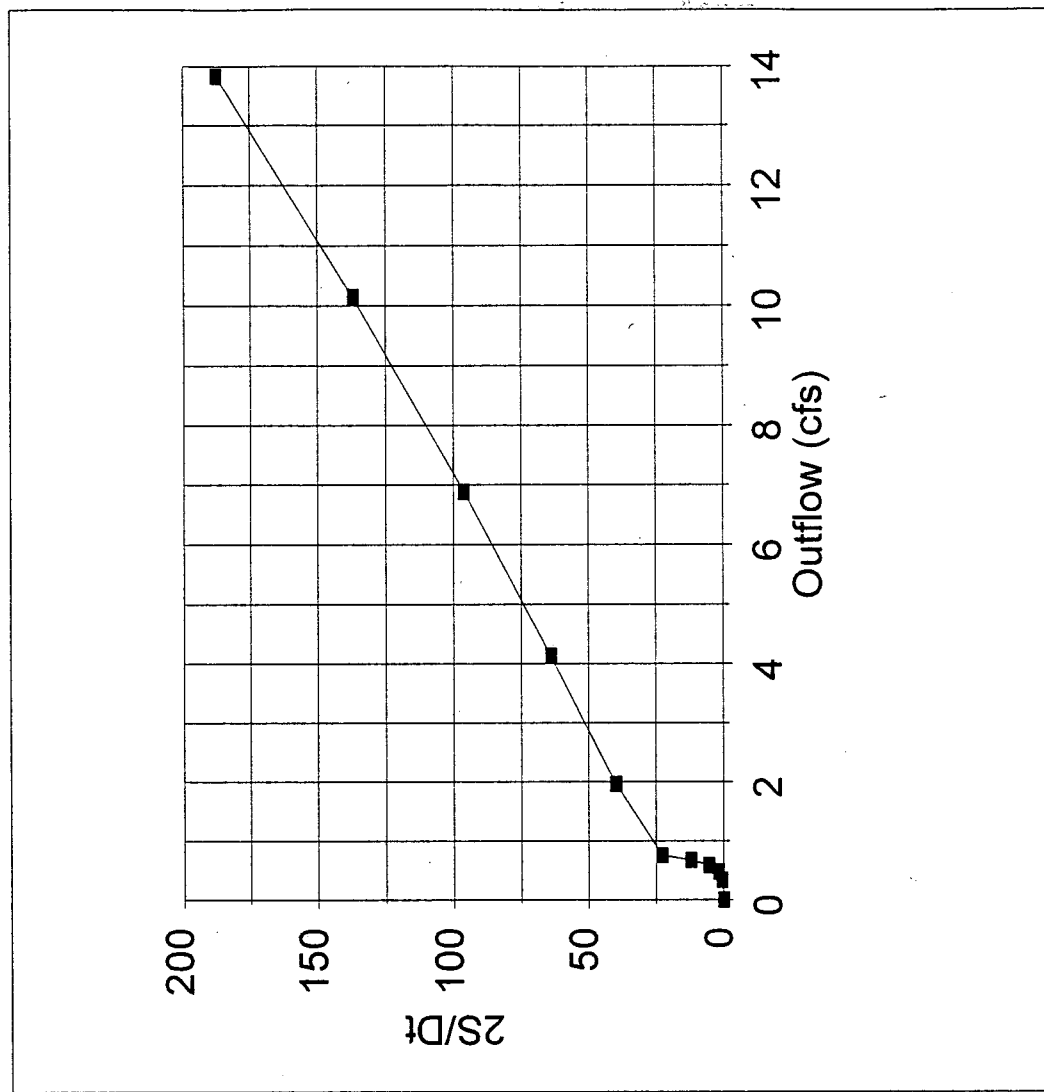
RUNOFF SUMMARY
 FLOW IN CUBIC FEET PER SECOND
 TIME IN HOURS, AREA IN SQUARE MILES

| 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 | I
cfs | I+I+1 | 2Si/Dt-Oi | 2Si+1/Dt-Oi+1 | O
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 |

[illegible]

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

```

*****
*
* 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   XXXXXX   XXXX   X
X   X   X       X     XX
X   X   X       X     X
XXXXXX   XXXX   X     XXXX   X
X   X   X       X     X
X   X   X       X     X
X   X   XXXXXX   XXXX   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

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

```

```

*****
*
* 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

```

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. |

| | | | | | | | | | | | | | | | | |
|---|-----|------|-----|------|------|------|----|---|---|-----|------|-----|------|------|------|----|
| 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 | | | | | | | | | | | | | |

| | | | | | | | | | | | | |
|------------|-----|------|------|------|----|---|------------|-----|------|------|------|----|
| 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 = 5.94, TOTAL LOSS = 0.24, TOTAL EXCESS = 5.70

| PEAK FLOW | TIME | | 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 | | |

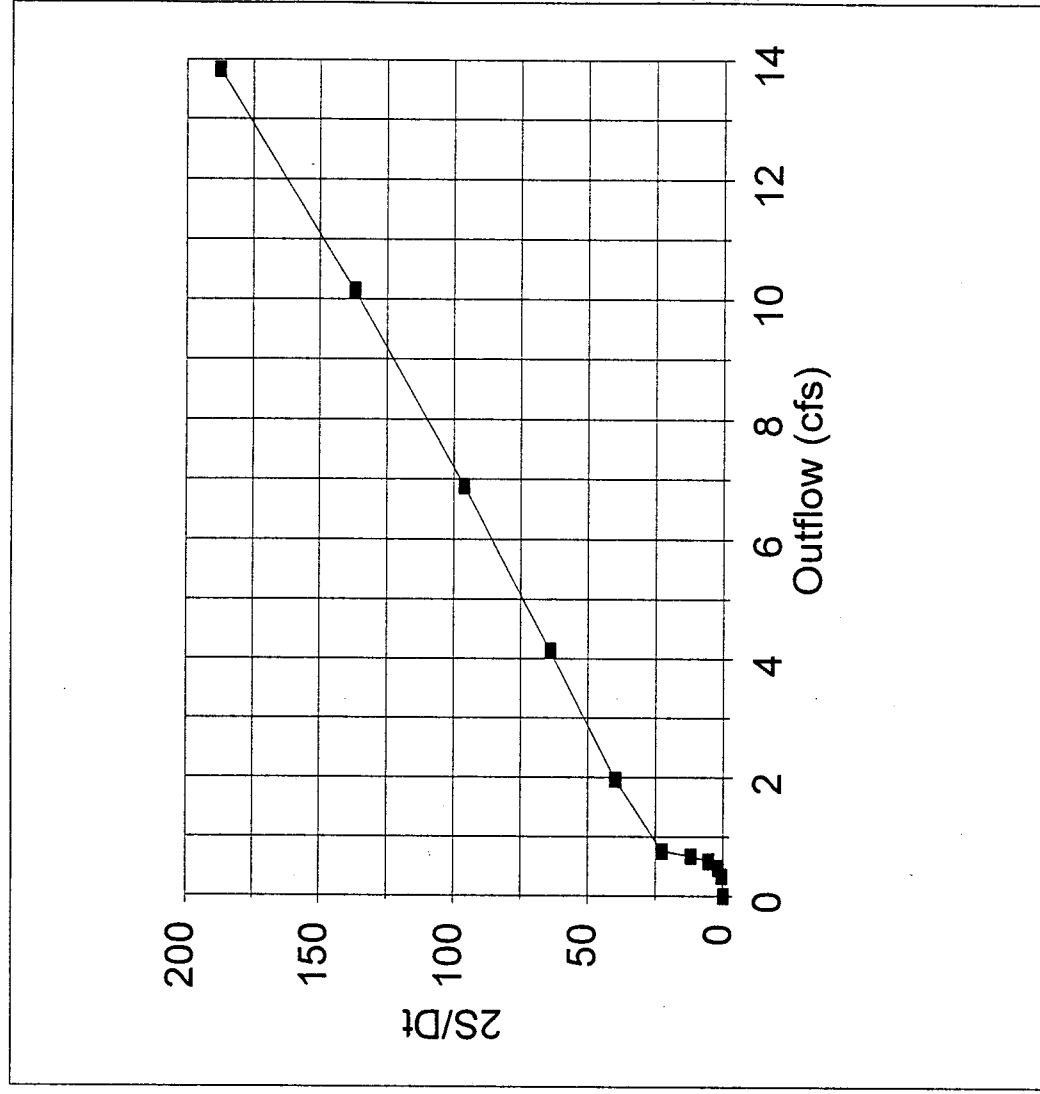
*** NORMAL END OF HEC-1 ***

100-yr Detention Routing , one 6" PVC pipe

| n | Time
min | Time
hr | I
cfs | I+I+1 | 2Si/Dt-Oi | 2Si+1/Dt-Oi+1 | O
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 |

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 |

[illegible]

Davis Moore Facility, 5-yr Storm, Area #4, D.A. = 3.24 acres

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

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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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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 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

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*****
* 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 *
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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

3 IO

OUTPUT CONTROL VARIABLES

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IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

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IT

HYDROGRAPH TIME DATA

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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 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 | | 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 | I _i
cfs | I _i +I _{i+1} | 2S _i /Dt-O _i | 2S _i +1/Dt-O _i +1 | O _i
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 |

5-yr Detention Routing , one 6" PVC pipe

| | | | | | | | |
|----|-----|------|-----|---|---------|---------|-----|
| 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 |

Figure 1 is a scatter plot with a line of best fit showing the relationship between the ratio of the rate of change of sediment storage to the rate of change of sediment transport ($2S/Dt$) and the outflow in cubic feet per second (cfs). The y-axis represents $2S/Dt$ and ranges from 0 to 200. The x-axis represents Outflow (cfs) and ranges from 0 to 14. The data points show a strong positive linear correlation, with a line of best fit drawn through them.

| Outflow (cfs) | $2S/Dt$ |
|---------------|---------|
| 0.5 | 5 |
| 0.8 | 10 |
| 1.0 | 15 |
| 1.2 | 20 |
| 1.5 | 30 |
| 2.0 | 45 |
| 4.0 | 60 |
| 7.0 | 105 |
| 10.0 | 165 |
| 13.5 | 185 |

[illegible]

