

Area #1

Residential Conditions		
D.A. =	0.77	acres
Tc =	15	min.
"15" =	4.56	in/hr.
"1100" =	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.
"15" =	4.56	in/hr.
"1100" =	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.
"15" =	4.56	in/hr.
"1100" =	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.
"15" =	4.56	in/hr.
"1100" =	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.
"15" =	4.56	in/hr.
"1100" =	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.
"15" =	4.56	in/hr.
"1100" =	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.
"15" =	4.56	in/hr.
"1100" =	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.
"15" =	4.56	in/hr.
"1100" =	7.37	in/hr.
"C5" =	0.87	
"C100" =	0.89	
Q5 =	12.9	cfs
Q100 =	21.3	cfs

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

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

Detention Volume

Depth ft.	Area sq. ft.	Avg. Area sq. ft.	Delta z ft	Incremental Volume cu. ft.	Cumulative Volume cu. ft.	Cumulative 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					

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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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*
* 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
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X X XXXXXXX XXXXX X
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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

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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* VERSION 4.0.1E
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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 0-PERCENT HYPOTHETICAL STORM
 HYDRO-35 TP-40 TP-49
 5-MIN 15-MIN 60-MIN 2-HR 3-HR 6-HR 12-HR 24-HR 2-DAY 4-DAY 7-DAY 10-DAY
 0.86 1.84 3.73 4.60 5.04 5.94 0.00 0.00 0.00 0.00 0.00 0.00

STORM AREA = 0.00

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

7 UD SCS DIMENSIONLESS UNITGRAPH
 TLAG 0.15 LAG

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

UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

1. 3. 3. 1. 1. 0. 0. 0. 0. 0.
 0.

HYDROGRAPH AT STATION MAIN

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

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

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

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

CUMULATIVE AREA = 0.00 SQ MI

1
 RUNOFF SUMMARY
 FLOW IN CUBIC FEET PER SECOND
 TIME IN HOURS, AREA IN SQUARE MILES

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

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

100-yr Detention Routing , one 6" PVC pipe

n	Time min	Time hr	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	48	0.80	0.0	0	-0.0538	-0.0538	0.0
48	49	0.82	0.0	0	-0.0538	-0.0538	0.0
49	50	0.83	0.0	0	-0.0538	-0.0538	0.0
50	51	0.85	0.0	0	-0.0538	-0.0538	0.0

Davis Moore 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
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

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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```

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

DAVIS MOORE FACILITY

```

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

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

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

COMPUTATION INTERVAL 0.08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

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

*** **

 * *
 4 KK * MAIN *
 * *

SUBBASIN RUNOFF DATA

5 BA SUBBASIN CHARACTERISTICS
 TAREA 0.00 SUBBASIN AREA

PRECIPITATION DATA

6 PH DEPTHS FOR 20-PERCENT HYPOTHETICAL STORM
 HYDRO-35 TP-40 TP-49
 5-MIN 15-MIN 60-MIN 2-HR 3-HR 6-HR 12-HR 24-HR 2-DAY 4-DAY 7-DAY 10-DAY
 0.54 1.14 2.15 2.66 2.91 3.42 0.00 0.00 0.00 0.00 0.00 0.00

STORM AREA = 0.00

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

7 UD SCS DIMENSIONLESS UNITGRAPH
 TLAG 0.15 LAG

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

UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

1. 3. 3. 1. 1. 0. 0. 0. 0. 0.
 0.

HYDROGRAPH AT STATION MAIN

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

21 JAN 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)	(CFS)	6-HR	24-HR	72-HR	24.92-HR
+	3.	3.17	0.	0.	0.	0.
		(INCHES)	3.049	3.050	3.050	3.050
		(AC-FT)	0.	0.	0.	0.
		CUMULATIVE AREA =	0.00 SQ MI			

1

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

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

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

5-yr Detention Routing , one 6" PVC pipe

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

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

```

*****
*
* 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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X X XXXXXXX XXXXX X
X X X X X XX
X X X X X X
XXXXXXXX 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

```

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

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


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

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

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 3.	3.17	0.	0.	0.	0.	0.
		(INCHES)	5.697	5.702	5.702	5.702
		(AC-FT)	0.	0.	0.	0.
		CUMULATIVE AREA =	0.00 SQ MI			

1

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

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

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

100-yr Detention Routing , one 6" PVC pipe

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

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 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 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

```

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
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9 ZZ
    
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```

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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
*****
    
```

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. 2. 2. 1. 0. 0. 0. 0. 0. 0.
 0.

HYDROGRAPH AT STATION MAIN

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

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

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

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 2.	3.17	0.	0.	0.	0.	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	Oi cfs
0	5	0.08	1.0	2	0.0000	2.0000	0.0
1	10	0.17	1.0	3	1.0469	4.0469	0.5
2	15	0.25	2.0	4	2.9597	6.9597	0.5
3	20	0.33	2.0	4	5.7403	9.7403	0.6
4	25	0.42	2.0	3	8.4450	11.4450	0.6
5	30	0.50	1.0	2	10.1032	12.1032	0.7
6	35	0.58	1.0	2	10.7435	12.7435	0.7
7	40	0.67	1.0	2	11.3741	13.3741	0.7
8	45	0.75	1.0	1	11.9953	12.9953	0.7
9	50	0.83	0.0	0	11.6221	11.6221	0.7
10	55	0.92	0.0	0	10.2755	10.2755	0.7
11	60	1.00	0.0	0	8.9656	8.9656	0.7
12	65	1.08	0.0	0	7.6915	7.6915	0.6
13	70	1.17	0.0	0	6.4521	6.4521	0.6
14	75	1.25	0.0	0	5.2466	5.2466	0.6
15	80	1.33	0.0	0	4.0835	4.0835	0.6
16	85	1.42	0.0	0	2.9940	2.9940	0.5
17	90	1.50	0.0	0	1.9734	1.9734	0.5
18	95	1.58	0.0	0	1.0254	1.0254	0.5
19	100	1.67	0.0	0	0.2623	0.2623	0.4
20	105	1.75	0.0	0	-0.0354	-0.0354	0.1
21	110	1.83	0.0	0	-0.0354	-0.0354	0.0
22	115	1.92	0.0	0	-0.0354	-0.0354	0.0
23	120	2.00	0.0	0	-0.0354	-0.0354	0.0
24	125	2.08	0.0	0	-0.0354	-0.0354	0.0
25	130	2.17	0.0	0	-0.0354	-0.0354	0.0
26	135	2.25	0.0	0	-0.0354	-0.0354	0.0
27	140	2.33	0.0	0	-0.0354	-0.0354	0.0
28	145	2.42	0.0	0	-0.0354	-0.0354	0.0
29	150	2.50	0.0	0	-0.0354	-0.0354	0.0
30	155	2.58	0.0	0	-0.0354	-0.0354	0.0
31	160	2.67	0.0	0	-0.0354	-0.0354	0.0
32	165	2.75	0.0	0	-0.0354	-0.0354	0.0
33	170	2.83	0.0	0	-0.0354	-0.0354	0.0
34	175	2.92	0.0	0	-0.0354	-0.0354	0.0
35	180	3.00	0.0	0	-0.0354	-0.0354	0.0
36	185	3.08	0.0	0	-0.0354	-0.0354	0.0
37	190	3.17	0.0	0	-0.0354	-0.0354	0.0
38	195	3.25	0.0	0	-0.0354	-0.0354	0.0
39	200	3.33	0.0	0	-0.0354	-0.0354	0.0
40	205	3.42	0.0	0	-0.0354	-0.0354	0.0
41	210	3.50	0.0	0	-0.0354	-0.0354	0.0
42	215	3.58	0.0	0	-0.0354	-0.0354	0.0
43	220	3.67	0.0	0	-0.0354	-0.0354	0.0
44	225	3.75	0.0	0	-0.0354	-0.0354	0.0
45	230	3.83	0.0	0	-0.0354	-0.0354	0.0
46	235	3.92	0.0	0	-0.0354	-0.0354	0.0
47	48	0.80	0.0	0	-0.0354	-0.0354	0.0
48	49	0.82	0.0	0	-0.0354	-0.0354	0.0
49	50	0.83	0.0	0	-0.0354	-0.0354	0.0
50	51	0.85	0.0	0	-0.0354	-0.0354	0.0


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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 XXXXX X
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X X X X X
XXXXXX 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

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1
LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID DAVIS MOORE FACILITY
2 IT 5 04FEB99 0 300
3 IO 0 0
*
4 KK MAIN
5 BA .0017
6 PH 0 0 0.86 1.8425 3.73 4.6 5.04 5.94
* 10 0 0.6175 1.305 2.53 3.1 3.39 4.02
* 20 0 0.544 1.14 2.15 2.66 2.91 3.42
* 50 0 0.464 0.9575 1.69 7.98 2.16 2.52
7 UD 0.15
8 LS 0 98
*
9 ZZ
    
```

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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
*****
    
```

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 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 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.

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 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			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 7.	3.17		1.	0.	0.	0.
		(INCHES)	5.697	5.702	5.702	5.702
		(AC-FT)	1.	1.	1.	1.
CUMULATIVE AREA =			0.00 SQ MI			

1

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

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

Davis Moore Facility, 5-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 13:53:32
*****
  
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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 -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

HEC-1 INPUT

PAGE 1

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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
  
```

```

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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 13:53:32
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*****
*
* 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 1220	149	0.00	0.00	0.00	0.	*	5 FEB 0050	299	0.00	0.00	0.00	0.
4 FEB 1225	150	0.00	0.00	0.00	0.	*	5 FEB 0055	300	0.00	0.00	0.00	0.

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

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
+	4.	3.17	1.	0.	0.	0.
		(CFS)				
		(INCHES)	3.049	3.050	3.050	3.050
		(AC-FT)	0.	0.	0.	0.
		CUMULATIVE AREA =	0.00 SQ MI			

1

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

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

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

5-yr Detention Routing , one 6" PVC pipe

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

Davis Moore Facility, 100-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 14:13:41
*****
  
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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

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
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 14:13:41
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*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*****
  
```

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 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 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			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 22.	3.17	3.	1.	1.	1.	
		(INCHES)	5.697	5.702	5.702	5.702
		(AC-FT)	2.	2.	2.	2.
		CUMULATIVE AREA =	0.01 SQ MI			

1

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

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

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

100-yr Detention Routing , one 6" PVC pipe

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

100-yr Detention Routing , one 6" PVC pipe

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

Davis Moore 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 -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

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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
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*****
  
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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 4FEB99 STARTING DATE
  
```

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

COMPUTATION INTERVAL 0.08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

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

*** **

 * *
 4 KK * MAIN *
 * *

SUBBASIN RUNOFF DATA

5 BA SUBBASIN CHARACTERISTICS
 TAREA 0.01 SUBBASIN AREA

PRECIPITATION DATA

6 PH DEPTHS FOR 20-PERCENT HYPOTHETICAL STORM
 HYDRO-35 TP-40 TP-49
 5-MIN 15-MIN 60-MIN 2-HR 3-HR 6-HR 12-HR 24-HR 2-DAY 4-DAY 7-DAY 10-DAY
 0.54 1.14 2.15 2.66 2.91 3.42 0.00 0.00 0.00 0.00 0.00 0.00

STORM AREA = 0.01

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

7 UD SCS DIMENSIONLESS UNITGRAPH
 TLAG 0.15 LAG

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

UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

5. 13. 11. 6. 3. 1. 1. 0. 0. 0.
 0.

HYDROGRAPH AT STATION MAIN

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

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

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

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
+	13.	3.17	2.	0.	0.	0.
		(CFS)				
		(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		

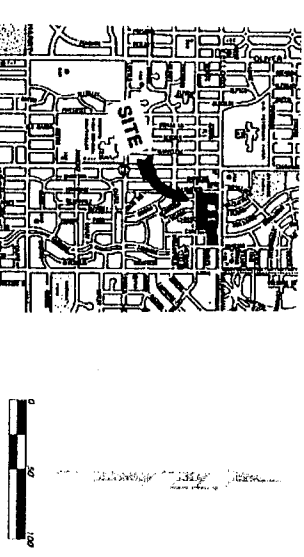
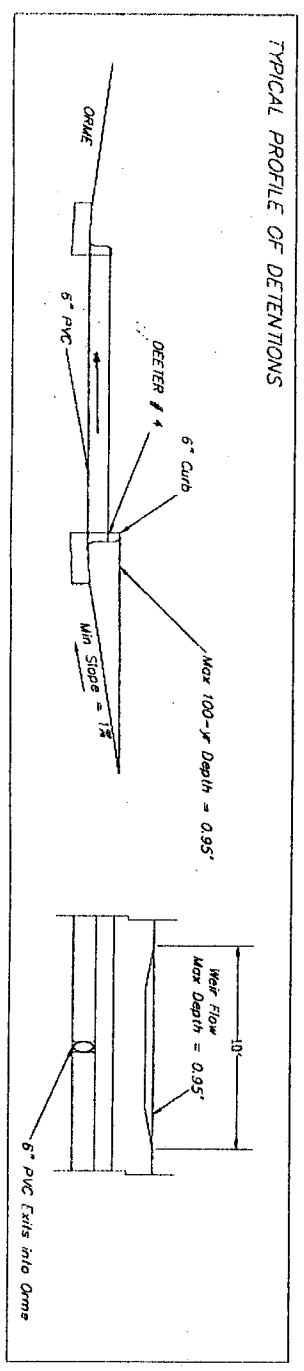
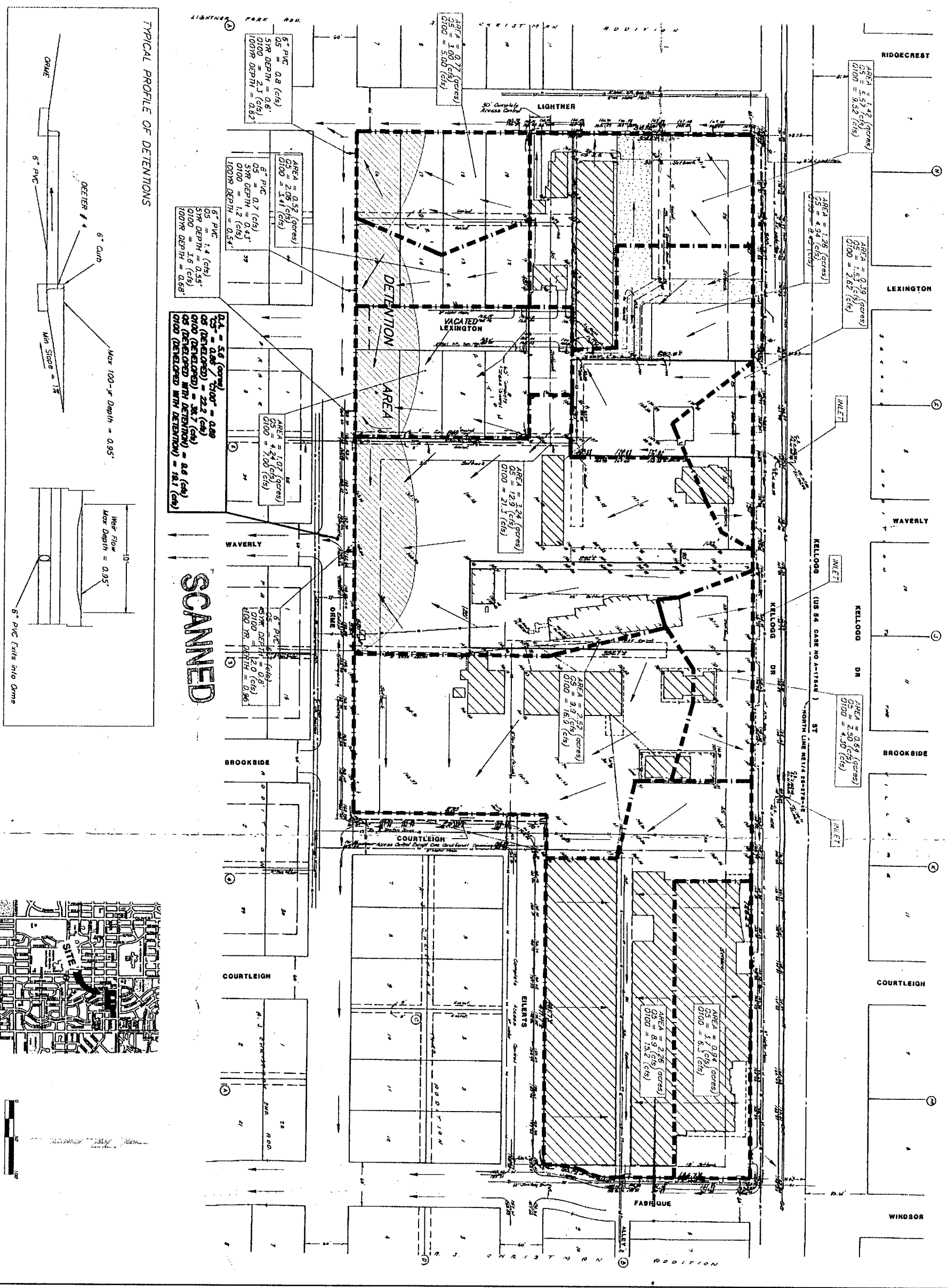
*** NORMAL END OF HEC-1 ***

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



DRAINAGE PLAN

DAVIS MOORE 5TH & 13TH ADDITIONS

Owner: D. and K. Investments, a partnership

This proposed Drainage Plan and design the peak runoff from existing and proposed areas, including the 13th Addition, by determining the runoff from the 100-year storm and drainage 1.25 (Cdn) feet with the proposed detention.

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