

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			
1											
2											
3	+										
4											
5		HYDROGRAPH AT									
6	+		SB1	312.	1.83	44.	44.	44.	.24		
7											
8		ROUTED TO									
9	+		ROUTE	311.	1.83	44.	44.	44.	.24		
10											
11		HYDROGRAPH AT									
12	+		SB3	724.	1.77	87.	87.	87.	.36		
13											
14		2 COMBINED AT									
15	+		SUMPT1	1022.	1.80	130.	130.	130.	.60		
16											
17		ROUTED TO									
18	+		DF#2	281.	2.33	130.	130.	130.	.60		
19	+									6976.67	2.33
20											
21		ROUTED TO									
22	+		ROUTE	281.	2.43	129.	129.	129.	.60		
23											
24		HYDROGRAPH AT									
25	+		SB9	269.	1.70	30.	30.	30.	.18		
26											
27		HYDROGRAPH AT									
28	+		SB10	216.	1.87	33.	33.	33.	.15		
29											
30		3 COMBINED AT									
31	+		SUMPT4	645.	1.83	191.	191.	191.	.92		
32											
33		HYDROGRAPH AT									
34	+		SB15UP	658.	1.83	198.	198.	198.	.97		
35											
36		HYDROGRAPH AT									
37	+		SB2	338.	1.67	33.	33.	33.	.18		
38											
39		ROUTED TO									
40	+		ROUTE	334.	1.67	33.	33.	33.	.18		
41											
42		HYDROGRAPH AT									
43	+		SB4A	424.	1.70	43.	43.	43.	.21		
44											
45		2 COMBINED AT									
46	+		SUMPT2A	758.	1.70	75.	75.	75.	.39		
47											
48		ROUTED TO									
49	+		DF#3	256.	2.00	75.	75.	75.	.39		
50	+									7088.54	2.00
51											
52		ROUTED TO									
53	+		ROUTE	256.	2.03	75.	75.	75.	.39		
54											
55		HYDROGRAPH AT									
56	+		SB4B	331.	1.77	38.	38.	38.	.15		
57											
58		HYDROGRAPH AT									
59	+		SB5	372.	1.93	59.	59.	59.	.24		

3 COMBINED AT

SUMPT2B

909.

1.83

171.

171.

171.

.77

ROUTED TO

DF#4

668.

2.13

170.

170.

170.

.77

7026.64

2.13

HYDROGRAPH AT

SB7UP

686.

2.10

175.

175.

175.

.79

ROUTED TO

DF#5

498.

2.73

174.

174.

174.

.79

6997.00

2.73

ROUTED TO

ROUTE

498.

2.77

174.

174.

174.

.79

HYDROGRAPH AT

SB6

129.

1.87

19.

19.

19.

.08

2 COMBINED AT

COMBINE

540.

2.07

193.

193.

193.

.87

ROUTED TO

ROUTE

539.

2.07

193.

193.

193.

.87

HYDROGRAPH AT

SB7

400.

1.80

52.

52.

52.

.24

HYDROGRAPH AT

SB8

320.

1.67

29.

29.

29.

.14

3 COMBINED AT

SUMPT3

1042.

1.80

274.

274.

274.

1.25

HYDROGRAPH AT

SB12

1062.

1.83

297.

297.

297.

1.42

HYDROGRAPH AT

SB11

223.

1.73

25.

25.

25.

.13

2 COMBINED AT

SUMPT5

1265.

1.80

322.

322.

322.

1.55

ROUTED TO

ROUTE

1264.

1.80

322.

322.

322.

1.55

HYDROGRAPH AT

SB13

179.

2.03

34.

34.

34.

.17

2 COMBINED AT

COMBINE

1398.

1.83

356.

356.

356.

1.71

HYDROGRAPH AT

SB15LOW

1412.

1.83

362.

362.

362.

1.76

2 COMBINED AT

SUMPT6

2070.

1.83

560.

560.

560.

2.72

HYDROGRAPH AT

SB16

2068.

1.87

563.

563.

563.

2.76

HYDROGRAPH AT

SB14

192.

1.87

31.

31.

31.

.30

2 COMBINED AT

1	+		SUMPT7	2259.	1.87	594.	594.	594.	3.05		
2			ROUTED TO								
3	+		ROUTE	2258.	1.87	594.	594.	594.	3.05		
4			HYDROGRAPH AT								
5	+		SB19	160.	2.00	30.	30.	30.	.22		
6			ROUTED TO								
7	+		ROUTE	160.	2.00	30.	30.	30.	.22		
8			HYDROGRAPH AT								
9	+		SB17	119.	1.70	14.	14.	14.	.12		
10			2 COMBINED AT								
11	+		COMBINE	220.	1.83	44.	44.	44.	.34		
12			HYDROGRAPH AT								
13	+		SB18	209.	1.63	17.	17.	17.	.11		
14			3 COMBINED AT								
15	+		SUMPT8	2549.	1.87	655.	655.	655.	3.50		
16			ROUTED TO								
17	+		ROUTE	2497.	1.93	647.	647.	647.	3.50		
18			HYDROGRAPH AT								
19	+		SB20	315.	1.63	29.	29.	29.	.26		
20			HYDROGRAPH AT								
21	+		SB21	155.	1.83	22.	22.	22.	.12		
22			HYDROGRAPH AT								
23	+		SB22	199.	1.87	31.	31.	31.	.16		
24			ROUTED TO								
25	+		ROUTE	197.	1.93	30.	30.	30.	.16		
26			HYDROGRAPH AT								
27	+		SB25A	169.	1.83	24.	24.	24.	.09		
28			2 COMBINED AT								
29	+		COMBINE	361.	1.90	54.	54.	54.	.25		
30			4 COMBINED AT								
31	+		SUMPT9	3091.	1.93	751.	751.	751.	4.14		
32			ROUTED TO								
33	+		DF#1	1865.	2.40	748.	748.	748.	4.14	70.66	2.40
34	+										
35			ROUTED TO								
36	+		ROUTE	1865.	2.40	747.	747.	747.	4.14		
37			HYDROGRAPH AT								
38	+		SB25B	136.	1.73	14.	14.	14.	.05		
39			2 COMBINED AT								
40	+		SUMPT10	1883.	2.37	762.	762.	762.	4.19		
41			HYDROGRAPH AT								
42	+		SB23	261.	2.03	49.	49.	49.	.25		
43			ROUTED TO								
44	+		ROUTE	259.	2.07	49.	49.	49.	.25		

1	+	HYDROGRAPH AT	SB24	324.	1.90	50.	50.	50.	.19
2									
3	+	2 COMBINED AT	SUMPT11	562.	1.97	99.	99.	99.	.44
4									
5	+	HYDROGRAPH AT	SB26	23.	2.40	8.	8.	8.	.17
6									
7	+	3 COMBINED AT	SUMP12	2344.	2.13	868.	868.	868.	4.80
8									
9	+	HYDROGRAPH AT	SB28	2351.	2.20	872.	872.	872.	4.96
10									
11	+	HYDROGRAPH AT	SB27	17.	1.57	2.	2.	2.	.03
12									
13	+	2 COMBINED AT	SUMPT13	2353.	2.20	874.	874.	874.	4.99
14									
15	+	HYDROGRAPH AT	ROUTE	2376.	2.23	888.	888.	888.	5.12
16									
17	+	HYDROGRAPH AT	CHAPEL	2503.	2.10	538.	538.	538.	3.61
18									
19	+	2 COMBINED AT	SUMPT	4841.	2.13	1426.	1426.	1426.	8.73
20									
21	+	ROUTED TO	ROUTE	4833.	2.13	1424.	1424.	1424.	8.73
22									
23	+	HYDROGRAPH AT	NCOTTONW	769.	2.00	145.	145.	145.	.81
24									
25	+	2 COMBINED AT	SUMPT	5557.	2.13	1569.	1569.	1569.	9.54
26									

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

DEVELOPED-
ONSITE & REGIONAL DETENTION

2		5
4		
H	—	Y
O		E
U		A
R		R

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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*** FREE ***	1	ID	PINE CREEK DRAINAGE BASIN - 24HR, DEV. W/ 35% & PONDS (5 YEAR)									
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*DIAGRAM

2	IT	8	0	0	181						
3	IO	5									
4	KK	SB1									
5	KM	SCS RUNOFF COMPUTATION									
6	BA	.2421									
7	IN	15									
8	PB	2.6									
9	PC	.0022	.0066	.0132	.0198	.0264	.0352	.0440	.0528	.0629	.0726
10	PC	.0827	.0924	.1025	.1122	.1223	.1408	.1716	.2024	.2332	.2640
11	PC	.3300	.4400	1.7600	3.0800	3.1900	3.3000	3.3660	3.4320	3.4760	3.5200
12	PC	3.5640	3.6080	3.6300	3.6520	3.6740	3.6960	3.7180	3.7400	3.7620	3.7840
13	PC	3.8007	3.8170	3.8337	3.8500	3.8667	3.8830	3.8997	3.9160	3.9327	3.9490
14	PC	3.9657	3.9820	3.9965	4.0106	4.0251	4.0392	4.0524	4.0656	4.0788	4.0920
15	PC	4.1030	4.1140	4.1250	4.1360	4.1470	4.1580	4.1690	4.1800	4.1910	4.2020
16	PC	4.2130	4.2240	4.2350	4.2460	4.2570	4.2680	4.2790	4.2900	4.3010	4.3120
17	PC	4.3177	4.3230	4.3287	4.3340	4.3397	4.3450	4.3507	4.3560	4.3617	4.3670
18	PC	4.3727	4.3802	4.3837	4.3890	4.3947	4.4000				
19	LS	0	81								
20	UD	.30									

21	KK	ROUTESB1 TO PT. 1									
22	RK	1750	.025	.019	TRAP	34	0				

23	KK	SB3									
24	KM	SCS RUNOFF COMPUTATION									
25	BA	.3593									
26	LS	0	88								
27	UD	.32									

28	KK	SUMMPT1									
29	KM	COMBINE 1 AND 3									
30	HC	2									

31	KK	DF#2									
32	KM	ROUTE FLOWS THRU DETENTION FACILITY NO. 2									

33	RS	1	STOR	0						
34	SA	0	.0001	.3500	.7900	1.6800	3.0100	4.7300	6.7600	
35	SE	6953	6955	6960	6965	6970	6975	6980	6985	
36	SL	6955	12.566	.60	0.5					
37	SS	6985								

38	KK	ROUTETO PT.4								
39	RK	4880	.03	.04		TRAP	10	2.5		

40	KK	SB9								
41	KM	SCS RUNOFF - SUBBASIN NO. 9								
42	BA	.1765								
43	LS	0	79.5							
44	UD	.28								

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LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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45	KK	SB10								
46	KM	SCS RUNOFF - SUBBASIN NO 10								
47	BA	.1468								
48	LS	0	86							
49	UD	.48								
50	KK	SUMPT4								
51	KM	COMBINE PT. 1, 9 AND 10								
52	HC	3								
53	KK	SB15UP								
54	KM	SCS RUNOFF - SUBBASIN NO 15 UPPER / WITH MAIN CHANNEL								
55	BA	.0422								
56	LS	0	82							
57	UK	1600	.025	.25	100					
58	RK	1600	.015	.015		TRAP	10	1.5	YES	

59	KK	SB2								
60	KM	SCS RUNOFF SUBBASIN NO. 2								
61	BA	.1796								
62	LS	0	81							
63	UD	.24								

64	KK	ROUTETO DF#3								
65	RK	1085	.04	.019		TRAP	34	0		
66	RK	915	.015	.015		TRAP	8	1.5		

67	KK	SB4A								
68	KM	SCS RUNOFF - SUBBASIN NO. 4A ABOVE POND NO. 3								
69	BA	.2062								
70	LS	0	84							
71	UD	.26								

72	KK	SUMPT2A								
73	KM	SUMM FLOWS AT DF#3								
74	HC	2								

75	KK	DF#3								
76	KM	ROUTE FLOWS THRU DETENTION FACILITY NO. 3								
77	RS	1	STOR	0						
78	SA	0	.5510	2.9511						
79	SE	7075	7080	7090						
80	SL	7077.25	15.904	.60	50					
81	SS	7090								

82	KK	ROUTETO PT. 2B								
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83	RK	2400	.028	.015	TRAP	8	1.5
84	KK	SB4B					
85	KM	SCS RUNOFF - SUBBASIN NO. 4B BELOW POND NO 3					
86	BA	.1460					
87	LS	0	90				
88	UD	.42					

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LINE	ID	1	2	3	4	5	6	7	8	9	10
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89	KK	SB5									
90	KM	SCS RUNOFF - SUBBASIN NO. 5									
91	BA	.2359									
92	LS	0	89								
93	UD	.33									
94	KK	SUMPT2B									
95	KM	COMBINE SUBBASINS 2,4 AND 5									
96	HC	3									
97	KK	DF#4									
98	KM	ROUTE FLOWS THRU DETENTION FACILITY NO. 4									
99	RS	1	STOR	0							
100	SA	0	1.6102	3.1054	4.6006						
101	SE	7015	7023	7028	7033						
102	SL	7019	50.266	.60	.50						
103	SS	7033									
104	KK	SB7UP									
105	KM	SCS RUNOFF - SUBBASIN NO 7 ABOVE POND NO 5									
106	BA	.0272									
107	LS	0	86								
108	UK	1000	.02	.15	100						
109	RK	400	.02	.015	TRAP	8	1.5	YES			

110	KK	DF#5									
111	KM	ROUTE FLOWS THRU DETENTION FACILITY NO 5									
112	RS	1	STOR	0							
113	SA	0	1.100	1.6669	7.30						
114	SE	6984	6989	6994	6999						
115	SL	6987.25	33.183	.60	.50						
116	SS	6999									

117	KK	ROUTEPT.2 TO SB6									
118	RK	2100	.025	.015	TRAP	8	1.5				

119	KK	SB6									
120	KM	SCS RUNOFF - SUBBASIN NO. 6									
121	BA	.0797									
122	LS	0	88								
123	UD	.42									

124	KK	COMBINEPT.2 ROUTED WITH SB6									
125	HC	2									

126	KK	ROUTETO PT. 3									
127	RK	1340	.025	.015	TRAP	8	1.5				

128	KK	SB7									
129	KM	SCS RUNOFF - SUBBASIN NO. 7									
130	BA	.2352									
131	LS	0	86								
132	UD	.44									

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

134 KK SCS RUNOFF - SUBBASIN NO. 8

135 BA .1406

136 LS 0 84

137 UD .23

138 KK SUMPT3

139 KM COMBINE PT. 2 ROUTED WITH 6,7 AND 8

140 HC 3

141 KK SB12

142 KM SCS RUNOFF - SUBBASIN NO. 12 / WITH MAIN CHANNEL

143 BA .1718

144 LS 0 85

145 UK 4450 .025 .30 100

146 RK 2900 .020 .015 TRAP 10 1.5 YES

147 KK SB11

148 KM SCS RUNOFF - SUBBASIN NO. 11

149 BA .1250

150 LS 0 83

151 UD .31

152 KK SUMPT5

153 KM COMBINE PT. 3 WITH SUBBASINS 11 AND 12

154 HC 2

155 KK ROUTE PT. 5 TO SB13

156 RK 700 .015 .015 TRAP 12 1.5

157 KK SB13

158 KM SCS RUNOFF - SUBBASIN NO. 13

159 BA .1664

160 LS 0 84

161 UD .40

162 KK COMBINESB13 WITH PT5 ROUTED

163 HC 2

164 KK SB15LOW

165 KM SCS RUNOFF - SUBBASIN NO. 15 LOWER WITH MAIN CHANNEL

166 BA .0422

167 LS 0 82

168 UK 1600 .025 .25 100

169 RK 1020 .015 .015 TRAP 12 1.5 YES

170 KK SUMPT6

171 KM COMBINE PT. 4, PT. 5, WITH SUBBASINS 13 AND 15

172 HC 2

1

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PAGE 5

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

173 KK SB16

174 KM SCS RUNOFF - SUBBASIN NO. 16 / WITH MAIN CHANNEL

175 BA .0359

176 LS 0 75.5

177 UK 2100 .03 .30 100

178 RK 1850 .010 .015 TRAP 12 1.5 YES

179 KK SB14

180 KM SCS RUNOFF - SUBBASIN NO. 17

180
181 BA .2952
182 LS 0 70
183 UD .39

184 KK SUMPT7
185 KM COMBINE PT.6, SUBBASIN NO.14 AND 16
186 HC 2

187 KK ROUTEPT.7 TO PT.8
188 RK 1100 .01 .040 TRAP 30 5
189 RK 640 .01 .015 TRAP 20 1.5

190 KK SB19
191 KM SCS RUNOFF - SUBBASIN NO. 19
192 BA .2210
193 LS 0 75
194 UD .43

195 KK ROUTESB19 TO PT.8
196 RK 1600 .035 .019 TRAP 36 0

197 KK SB17
198 KM SCS RUNOFF - SUBBASIN NO. 17
199 BA .1203
200 LS 0 71
201 UD .25

202 KK COMBINESUBBASINS NO 17 AND 19
203 HC 2

204 KK SB18
205 KM SCS RUNOFF - SUBBASIN NO. 18
206 BA .1062
207 LS 0 78.5
208 UD .25

209 KK SUMPT8
210 KM COMBINE PT.7, SUBBASINS 17,18,19
211 HC 3

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

212 KK ROUTEPT.8 TO PT.9
213 RK 3960 .01 .040 TRAP 30 5

214 KK SB20
215 KM SCS RUNOFF - SUBBASIN NO. 20
216 BA .2640
217 LS 0 70.5
218 UD .19

219 KK SB21
220 KM SCS RUNOFF - SUBBASIN NO. 21
221 BA .1234
222 LS 0 80.5
223 UD .41

224 KK SB22
225 KM SCS RUNOFF - SUBBASIN NO. 22
226 BA .1624
227 LS 0 82
228 UD .44

229 KK ROUTEPT.9 TO PT.9

229 230 KK 3200 .04 .019 TRAP 72 0

231 KK SB25A
232 KM SCS RUNOFF - SUBBASIN NO. 25A
233 BA .0875
234 LS 0 91
235 UD .45

236 KK COMBINESB22 AND SB25A
237 HC 2

238 KK SUMPT9
239 KM COMBINE PT.8, SUBBASINS 20 AND 21, AND 22 AND 25A
240 HC 4

241 KK DF#1
242 KM ROUTE FLOW THRU DETENTION FACILITY NO. 1
243 KO 1 2
244 RS 1 STOR 0
245 SA 0 1.4700 2.5959 4.5650 5.6100 6.4570
246 SE 50.0 55.0 60.0 65.0 70.0 75.0
247 SL 54.0 95.030 0.60 0.50
248 SS 75.0

249 KK ROUTEPT.9 TO PT. 10
250 RK 1450 .02 .015 DEEP 11.5 0

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

251 KK SB25B
252 KM SCS RUNOFF - SUBBASIN NO 25B
253 BA .0531
254 LS 0 91
255 UD .37

256 KK SUMPT10
257 KM SUMMARY SB25B & POND 1 ROUTED
258 HC 2

259 KK SB23
260 KM SCS RUNOFF - SUBBASIN NO. 23
261 BA .2515
262 LS 0 83
263 UD .41

264 KK ROUTESB23 TO PT.11
265 RK 4100 .03 .019 TRAP 30 2

266 KK SB24
267 KM SCS RUNOFF - SUBBASIN NO. 24
268 BA .1874
269 LS 0 91
270 UD .47

271 KK SUMPT11
272 KM SUMMARY SUBBASIN NO 23 AND 24
273 HC 2

274 KK SB26
275 KM SCS RUNOFF - SUBBASIN NO 26
276 BA .1703
277 LS 0 58
278 UD .80

279 KK SUMPT12
280 KM SUMMARY OF PTS 10 AND 11 AND SUBBASIN NO. 26
281 HC 3

282 KK SB28
283 KM SCS RUNOFF - SUBBASIN NO 28 WITH MAIN CHANNEL

284 BA .1609
285 LS 0 65
286 UK 1980 .033 .35 100
287 RK 4707 .0075 .015 TRAP 25.5 3 YES

288 KK SB27
289 KM SCS RUNOFF - SUBBASIN NO 27
290 BA .0312
291 LS 0 58
292 UD .12

1

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

293 KK SUMPT13
294 KM SUMMARY PT.12, SUBBASIN 27 AND 28
295 HC 2

296 KK ROUTETHRU LDTL#15 TO PT 14
297 BA .1312
298 LS 0 80
299 UK 2200 .025 .35 100
300 RK 2200 .025 .040 TRAP 50 3 YES

301 KK CHAPELHILLS MALL OUTFALL
302 KM LDTL BASIN DATA
303 BA 3.6098
304 LS 0 77
305 UD .62

306 KK SUMPT14
307 KM SUMMARY PT 13 ROUTED AND CHAPEL HILLS MALL
308 HC 2

309 KK ROUTETO PT 15
310 RK 1000 .025 .040 TRAP 50 3

311 KKNCOTTONWOOD
312 KM LDTL BASIN DATA
313 BA .8107
314 LS 0 81
315 UD .55

316 KK SUMPT15
317 KM SUMMARY PT 14 ROUTED WITH N COTTONWOOD CREEK
318 HC 2
319 ZZ

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT
LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW

NO. (.) CONNECTOR ((---)) RETURN OF DIVERTED OR PUMPED FLOW

4 SB1
V
V
21 ROUTE

23	.	SB3	
28	SUMMPT1.....		
31	DF#2		
38	ROUTE		
40	.	SB9	
45	.	SB10	
50	SUMPT4.....		
53	SB15UP ***		
59	.	SB2	
64	ROUTE		
67	.	SB4A	
72	SUMPT2A.....		
75	DF#3		
82	ROUTE		
84	.	SB4B	
89	.	SB5	
94	SUMPT2B.....		
97	DF#4		
104	SB7UP ***		
110	DF#5		
117	ROUTE		
119	.	SB6	

124	COMBINE.....	
	V	
126	ROUTE	
128		SB7
133		SB8
138	SUMPT3.....	
	V	
141	SB12 ***	
147		SB11
152	SUMPT5.....	
	V	
155	ROUTE	
157		SB13
162	COMBINE.....	
	V	
164	SB15LOW ***	
170	SUMPT6.....	
	V	
173	SB16 ***	
179		SB14
184	SUMPT7.....	
	V	
187	ROUTE	
190		SB19
	V	
195	ROUTE	
197		SB17
202	COMBINE.....	
204		SB18

209 SUMPT8.....

V
V

212 ROUTE

214 SB20

219 SB21

224 SB22

229 ROUTE

231 SB25A

236 COMBINE.....

238 SUMPT9.....

V
V

241 DF#1

V
V

249 ROUTE

251 SB25B

256 SUMPT10.....

259 SB23

V
V

264 ROUTE

266 SB24

271 SUMPT11.....

274 SB26

279 SUMPT12.....

V
V

282 SB23 ***

288 SB27

293 SUMPT13.....

296	V ROUTE ***	
301	V CHAPEL	
306	V SUMPT14.....	
309	V ROUTE	
311	V NCOTTONW	
316	V SUMPT15.....	

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1 *****

FLOOD-HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

PINE CREEK DRAINAGE BASIN - 24HR, DEV. W/ 35% & PONDS (5 YEAR)

3 IO OUTPUT CONTROL VARIABLES

IPRNT	5	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA

NMIN	8	MINUTES IN COMPUTATION INTERVAL
IDATE	1 0	STARTING DATE
ITIME	0000	STARTING TIME
NO	181	NUMBER OF HYDROGRAPH ORDINATES
NDDATE	2 0	ENDING DATE
NDTIME	0000	ENDING TIME

COMPUTATION INTERVAL .13 HOURS
TOTAL TIME BASE 24.00 HOURS

*** **

31 KK *****
*
* DF#2 *
*

33 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	2	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

34 RS STORAGE ROUTING

NSTPS	1	NUMBER OF SUBREACHES
ITYP		STOR TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
V		OR WORKING B AND C COEFFICIENT

35 SA AREA .0 .0 .3 .8 1.7 3.0 4.7 6.8

36 SE ELEVATION 6953.00 6955.00 6960.00 6965.00 6970.00 6975.00 6980.00 6985.00

37 SL LOW-LEVEL OUTLET 6955.00 ELEVATION AT CENTER OF OUTLET

CAREA 12.57 CROSS-SECTIONAL AREA
COOL .60 COEFFICIENT
EXPL .50 EXPONENT OF HEAD

38 SS

SPILLWAY

GREL 6985.00 SPILLWAY CREST ELEVATION
SPWID .00 SPILLWAY WIDTH
COQW .00 WEIR COEFFICIENT
EXPW 1.50 EXPONENT OF HEAD

COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.00	.59	3.37	9.41	20.97	40.16	68.73
ELEVATION	6953.00	6955.00	6960.00	6965.00	6970.00	6975.00	6980.00	6985.00

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	.00	86.91	97.15	110.12	127.08	150.23	183.69	236.31	331.19
ELEVATION	6953.00	6955.00	6957.07	6957.58	6958.32	6959.42	6961.17	6964.23	6970.27	6985.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.00	.05	.09	.18	.41	.59	1.05	2.79	3.37
OUTFLOW	.00	.00	86.91	97.15	110.12	127.08	135.21	150.23	183.69	191.22
ELEVATION	6953.00	6955.00	6957.07	6957.58	6958.32	6959.42	6960.00	6961.17	6964.23	6965.00

STORAGE	9.41	9.87	20.97	40.16	68.73
OUTFLOW	234.19	236.31	270.42	302.34	331.19
ELEVATION	6970.00	6970.27	6975.00	6980.00	6985.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 97.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

HYDROGRAPH AT STATION DF#2

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	6953.0	*	1	0808	62	22.	.0	6955.5	*	1	1616	123	8.	.0	6955.2	
1	0008	2	0.	.0	6953.0	*	1	0816	63	22.	.0	6955.5	*	1	1624	124	8.	.0	6955.2	
1	0016	3	0.	.0	6953.0	*	1	0824	64	17.	.0	6955.4	*	1	1632	125	8.	.0	6955.2	
1	0024	4	0.	.0	6953.0	*	1	0832	65	18.	.0	6955.4	*	1	1640	126	8.	.0	6955.2	
1	0032	5	0.	.0	6953.0	*	1	0840	66	15.	.0	6955.4	*	1	1648	127	8.	.0	6955.2	
1	0040	6	0.	.0	6953.0	*	1	0848	67	17.	.0	6955.4	*	1	1656	128	8.	.0	6955.2	
1	0048	7	0.	.0	6953.0	*	1	0856	68	15.	.0	6955.4	*	1	1704	129	8.	.0	6955.2	
1	0056	8	0.	.0	6953.0	*	1	0904	69	16.	.0	6955.4	*	1	1712	130	8.	.0	6955.2	
1	0104	9	0.	.0	6953.0	*	1	0912	70	15.	.0	6955.4	*	1	1720	131	8.	.0	6955.2	
1	0112	10	0.	.0	6953.0	*	1	0920	71	16.	.0	6955.4	*	1	1728	132	8.	.0	6955.2	
1	0120	11	0.	.0	6953.0	*	1	0928	72	15.	.0	6955.4	*	1	1736	133	8.	.0	6955.2	
1	0128	12	0.	.0	6953.0	*	1	0936	73	16.	.0	6955.4	*	1	1744	134	8.	.0	6955.2	
1	0136	13	0.	.0	6953.0	*	1	0944	74	15.	.0	6955.4	*	1	1752	135	8.	.0	6955.2	
1	0144	14	0.	.0	6953.0	*	1	0952	75	15.	.0	6955.4	*	1	1800	136	8.	.0	6955.2	
1	0152	15	0.	.0	6953.0	*	1	1000	76	15.	.0	6955.4	*	1	1808	137	8.	.0	6955.2	

1	0200	16	0.	0.	6953.0	*	1	1008	77	14.	0.	6955.3	*	1	1816	138	8.	0.	6955.2
1	0208	17	0.	0.	6953.0	*	1	1016	78	13.	0.	6955.3	*	1	1824	139	8.	0.	6955.2
1	0216	18	0.	0.	6953.0	*	1	1024	79	12.	0.	6955.3	*	1	1832	140	8.	0.	6955.2
1	0224	19	0.	0.	6953.0	*	1	1032	80	12.	0.	6955.3	*	1	1840	141	8.	0.	6955.2
1	0232	20	0.	0.	6953.0	*	1	1040	81	12.	0.	6955.3	*	1	1848	142	8.	0.	6955.2
1	0240	21	0.	0.	6953.0	*	1	1048	82	12.	0.	6955.3	*	1	1856	143	8.	0.	6955.2
1	0248	22	0.	0.	6953.0	*	1	1056	83	12.	0.	6955.3	*	1	1904	144	8.	0.	6955.2
1	0256	23	0.	0.	6953.0	*	1	1104	84	12.	0.	6955.3	*	1	1912	145	8.	0.	6955.2
1	0304	24	0.	0.	6953.0	*	1	1112	85	12.	0.	6955.3	*	1	1920	146	8.	0.	6955.2
1	0312	25	0.	0.	6953.0	*	1	1120	86	12.	0.	6955.3	*	1	1928	147	8.	0.	6955.2
1	0320	26	0.	0.	6953.0	*	1	1128	87	12.	0.	6955.3	*	1	1936	148	8.	0.	6955.2
1	0328	27	0.	0.	6953.0	*	1	1136	88	12.	0.	6955.3	*	1	1944	149	8.	0.	6955.2
1	0336	28	0.	0.	6953.0	*	1	1144	89	12.	0.	6955.3	*	1	1952	150	8.	0.	6955.2
1	0344	29	0.	0.	6953.0	*	1	1152	90	12.	0.	6955.3	*	1	2000	151	7.	0.	6955.2
1	0352	30	0.	0.	6953.0	*	1	1200	91	12.	0.	6955.3	*	1	2008	152	6.	0.	6955.2
1	0400	31	0.	0.	6953.0	*	1	1208	92	12.	0.	6955.3	*	1	2016	153	6.	0.	6955.1
1	0408	32	0.	0.	6953.0	*	1	1216	93	12.	0.	6955.3	*	1	2024	154	5.	0.	6955.1
1	0416	33	0.	0.	6953.0	*	1	1224	94	12.	0.	6955.3	*	1	2032	155	5.	0.	6955.1
1	0424	34	0.	0.	6953.0	*	1	1232	95	12.	0.	6955.3	*	1	2040	156	4.	0.	6955.1
1	0432	35	0.	0.	6953.0	*	1	1240	96	12.	0.	6955.3	*	1	2048	157	4.	0.	6955.1
1	0440	36	0.	0.	6953.0	*	1	1248	97	12.	0.	6955.3	*	1	2056	158	4.	0.	6955.1
1	0448	37	0.	0.	6953.0	*	1	1256	98	12.	0.	6955.3	*	1	2104	159	4.	0.	6955.1
1	0456	38	0.	0.	6953.0	*	1	1304	99	11.	0.	6955.3	*	1	2112	160	4.	0.	6955.1
1	0504	39	0.	0.	6953.0	*	1	1312	100	11.	0.	6955.3	*	1	2120	161	4.	0.	6955.1
1	0512	40	0.	0.	6953.0	*	1	1320	101	11.	0.	6955.3	*	1	2128	162	4.	0.	6955.1
1	0520	41	4.	0.	6955.1	*	1	1328	102	11.	0.	6955.3	*	1	2136	163	4.	0.	6955.1
1	0528	42	31.	0.	6955.7	*	1	1336	103	10.	0.	6955.2	*	1	2144	164	4.	0.	6955.1
1	0536	43	110.	2.	6958.3	*	1	1344	104	10.	0.	6955.2	*	1	2152	165	4.	0.	6955.1
1	0544	44	151.	1.1	6961.2	*	1	1352	105	10.	0.	6955.2	*	1	2200	166	4.	0.	6955.1
1	0552	45	188.	3.1	6964.7	*	1	1400	106	10.	0.	6955.2	*	1	2208	167	4.	0.	6955.1
1	0600	46	208.	5.7	6966.9	*	1	1408	107	10.	0.	6955.2	*	1	2216	168	4.	0.	6955.1
1	0608	47	221.	7.5	6968.4	*	1	1416	108	10.	0.	6955.2	*	1	2224	169	4.	0.	6955.1
1	0616	48	225.	8.2	6969.0	*	1	1424	109	10.	0.	6955.2	*	1	2232	170	4.	0.	6955.1
1	0624	49	223.	7.8	6968.7	*	1	1432	110	10.	0.	6955.2	*	1	2240	171	4.	0.	6955.1
1	0632	50	217.	6.9	6967.9	*	1	1440	111	10.	0.	6955.2	*	1	2248	172	4.	0.	6955.1
1	0640	51	208.	5.7	6966.9	*	1	1448	112	10.	0.	6955.2	*	1	2256	173	5.	0.	6955.1
1	0648	52	198.	4.3	6965.8	*	1	1456	113	9.	0.	6955.2	*	1	2304	174	4.	0.	6955.1
1	0656	53	185.	2.9	6964.4	*	1	1504	114	9.	0.	6955.2	*	1	2312	175	4.	0.	6955.1
1	0704	54	160.	1.6	6962.1	*	1	1512	115	9.	0.	6955.2	*	1	2320	176	4.	0.	6955.1
1	0712	55	130.	.5	6959.6	*	1	1520	116	8.	0.	6955.2	*	1	2328	177	4.	0.	6955.1
1	0720	56	30.	0.	6955.7	*	1	1528	117	8.	0.	6955.2	*	1	2336	178	4.	0.	6955.1
1	0728	57	38.	0.	6955.9	*	1	1536	118	8.	0.	6955.2	*	1	2344	179	4.	0.	6955.1
1	0736	58	28.	0.	6955.7	*	1	1544	119	8.	0.	6955.2	*	1	2352	180	4.	0.	6955.1
1	0744	59	34.	0.	6955.8	*	1	1552	120	8.	0.	6955.2	*	2	0000	181	3.	0.	6955.1
1	0752	60	27.	0.	6955.6	*	1	1600	121	8.	0.	6955.2	*						
1	0800	61	30.	0.	6955.7	*	1	1608	122	8.	0.	6955.2	*						

PEAK FLOW		TIME		MAXIMUM AVERAGE FLOW															
				6-HR 24-HR 72-HR 24.00-HR															
+ (CFS)		(HR)																	
+ 225.		6.27		67. 21. 21. 21.															
				(INCHES)															
				1.033 1.286 1.286 1.286															
				(AC-FT)															
				33. 41. 41. 41.															
PEAK STORAGE		TIME		MAXIMUM AVERAGE STORAGE															
				6-HR 24-HR 72-HR 24.00-HR															
+ (AC-FT)		(HR)																	
8.		6.27		1. 0. 0. 0.															
PEAK STAGE		TIME		MAXIMUM AVERAGE STAGE															
				6-HR 24-HR 72-HR 24.00-HR															
+ (FEET)		(HR)																	
6969.06		6.27		6959.10 6955.45 6955.45 6955.45															

FORM 101-V-02

CUMULATIVE AREA = .60 SQ MI

1

(I) INFLOW. (O) OUTFLOW

STATION DF#2

		0.	50.	100.	150.	200.	250.	300.	350.	400.	450.	0.	0.	0.
		0.	0.	0.	0.	0.	0.	0.	4.	8.	12.	0.	0.	0.
		(S) STORAGE												
DAHRMN PER														
10000	1I													
10008	2I													
10016	3I													
10024	4I													
10032	5I													
10040	6I													
10048	7I													
10056	8I													
10104	9I													
10112	10I													
10120	11I													
10128	12I													
10136	13I													
10144	14I													
10152	15I													
10200	16I													
10208	17I													
10216	18I													
10224	19I													
10232	20I													
10240	21I													
10248	22I													
10256	23I													
10304	24I													
10312	25I													
10320	26I													
10328	27I													
10336	28I													
10344	29I													
10352	30I													
10400	31I													
10408	32I													
10416	33I													
10424	34I													
10432	35I													
10440	36I													
10448	37I													
10456	38I													
10504	39I													
10512	40I													
10520	41I													
10528	42.	OI												
10536	43.			O	I									
10544	44.				O			I	S					
10552	45.					O			S		I			
10600	46.					O				S		I		
10608	47.						O			I				
10616	48.						O	OI						
10624	49.							O						
10632	50.				I			O			S			
10640	51.							O			S			
10648	52.			I						S				
10656	53.							O		S				
10704	54.						O			S				
10712	55.		I						S					
10720	56.	OI							S					

FORN & CO

POKAL & CO.

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 114.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.

HYDROGRAPH AT STATION DF#3

	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
								*							
1	1	0000	1	0.	.0	7075.0	*	1	0808	62	14.	.2	7077.5	*	1
2	1	0008	2	0.	.0	7075.0	*	1	0816	63	12.	.1	7077.5	*	1
3	1	0016	3	0.	.0	7075.0	*	1	0824	64	10.	.1	7077.5	*	1
4	1	0024	4	0.	.0	7075.0	*	1	0832	65	10.	.1	7077.4	*	1
5	1	0032	5	0.	.0	7075.0	*	1	0840	66	9.	.1	7077.4	*	1
6	1	0040	6	0.	.0	7075.0	*	1	0848	67	9.	.1	7077.4	*	1
7	1	0048	7	0.	.0	7075.0	*	1	0856	68	9.	.1	7077.4	*	1
8	1	0056	8	0.	.0	7075.0	*	1	0904	69	9.	.1	7077.4	*	1
9	1	0104	9	0.	.0	7075.0	*	1	0912	70	9.	.1	7077.4	*	1
10	1	0112	10	0.	.0	7075.0	*	1	0920	71	9.	.1	7077.4	*	1
11	1	0120	11	0.	.0	7075.0	*	1	0928	72	9.	.1	7077.4	*	1
12	1	0128	12	0.	.0	7075.0	*	1	0936	73	9.	.1	7077.4	*	1
13	1	0136	13	0.	.0	7075.0	*	1	0944	74	9.	.1	7077.4	*	1
14	1	0144	14	0.	.0	7075.0	*	1	0952	75	9.	.1	7077.4	*	1
15	1	0152	15	0.	.0	7075.0	*	1	1000	76	9.	.1	7077.4	*	1
16	1	0200	16	0.	.0	7075.0	*	1	1008	77	8.	.1	7077.4	*	1
17	1	0208	17	0.	.0	7075.0	*	1	1016	78	8.	.1	7077.4	*	1
18	1	0216	18	0.	.0	7075.0	*	1	1024	79	7.	.1	7077.4	*	1
19	1	0224	19	0.	.0	7075.0	*	1	1032	80	7.	.1	7077.4	*	1
20	1	0232	20	0.	.0	7075.0	*	1	1040	81	7.	.1	7077.4	*	1
21	1	0240	21	0.	.0	7075.0	*	1	1048	82	7.	.1	7077.4	*	1
22	1	0248	22	0.	.0	7075.0	*	1	1056	83	7.	.1	7077.4	*	1
23	1	0256	23	0.	.0	7075.0	*	1	1104	84	7.	.1	7077.4	*	1
24	1	0304	24	0.	.0	7075.0	*	1	1112	85	7.	.1	7077.4	*	1
25	1	0312	25	0.	.0	7075.0	*	1	1120	86	7.	.1	7077.4	*	1
26	1	0320	26	0.	.0	7075.0	*	1	1128	87	7.	.1	7077.4	*	1
27	1	0328	27	0.	.0	7075.0	*	1	1136	88	7.	.1	7077.4	*	1
28	1	0336	28	0.	.0	7075.0	*	1	1144	89	7.	.1	7077.4	*	1
29	1	0344	29	0.	.0	7075.0	*	1	1152	90	7.	.1	7077.4	*	1
30	1	0352	30	0.	.0	7075.0	*	1	1200	91	7.	.1	7077.4	*	1
31	1	0400	31	0.	.0	7075.0	*	1	1208	92	7.	.1	7077.4	*	1
32	1	0408	32	0.	.0	7075.0	*	1	1216	93	7.	.1	7077.4	*	1
33	1	0416	33	0.	.0	7075.0	*	1	1224	94	7.	.1	7077.4	*	1
34	1	0424	34	0.	.0	7075.0	*	1	1232	95	7.	.1	7077.4	*	1
35	1	0432	35	0.	.0	7075.0	*	1	1240	96	7.	.1	7077.4	*	1
36	1	0440	36	0.	.0	7075.0	*	1	1248	97	7.	.1	7077.4	*	1
37	1	0448	37	0.	.0	7075.0	*	1	1256	98	7.	.1	7077.4	*	1
38	1	0456	38	0.	.0	7075.0	*	1	1304	99	7.	.1	7077.4	*	1
39	1	0504	39	0.	.0	7075.0	*	1	1312	100	7.	.1	7077.4	*	1
40	1	0512	40	0.	.0	7075.0	*	1	1320	101	6.	.1	7077.4	*	1
41	1	0520	41	0.	.0	7075.1	*	1	1328	102	6.	.1	7077.4	*	1
42	1	0528	42	3.	.1	7077.3	*	1	1336	103	6.	.1	7077.4	*	1
43	1	0536	43	57.	.4	7078.4	*	1	1344	104	6.	.1	7077.4	*	1
44	1	0544	44	128.	.9	7080.0	*	1	1352	105	6.	.1	7077.4	*	1
45	1	0552	45	158.	1.9	7081.5	*	1	1400	106	6.	.1	7077.4	*	1
46	1	0600	46	175.	2.9	7082.5	*	1	1408	107	6.	.1	7077.4	*	1
47	1	0608	47	178.	3.0	7082.7	*	1	1416	108	6.	.1	7077.4	*	1
48	1	0616	48	170.	2.5	7082.2	*	1	1424	109	6.	.1	7077.4	*	1
49	1	0624	49	151.	1.7	7081.1	*	1	1432	110	6.	.1	7077.4	*	1
50	1	0632	50	122.	.8	7079.8	*	1	1440	111	6.	.1	7077.4	*	1
51	1	0640	51	52.	.3	7078.3	*	1	1448	112	6.	.1	7077.4	*	1
52	1	0648	52	35.	.3	7077.9	*	1	1456	113	6.	.1	7077.4	*	1
53	1	0656	53	30.	.2	7077.8	*	1	1504	114	5.	.1	7077.4	*	1
54	1	0704	54	25.	.2	7077.7	*	1	1512	115	5.	.1	7077.4	*	1
55	1	0712	55	22.	.2	7077.7	*	1	1520	116	5.	.1	7077.3	*	1
56	1	0720	56	20.	.2	7077.6	*	1	1528	117	5.	.1	7077.3	*	1

PEAK FLOW		TIME	MAXIMUM AVERAGE FLOW											
			6-HR	24-HR	72-HR	24.00-HR								
+	(CFS)	(HR)												
+	178.	6.13	36.	11.	11.	11.								
			(INCHES)	.874	1.105	1.105	1.105							
			(AC-FT)	18.	23.	23.	23.							
PEAK STORAGE		TIME	MAXIMUM AVERAGE STORAGE											
			6-HR	24-HR	72-HR	24.00-HR								
+	(AC-FT)	(HR)												
+	3.	6.13	0.	0.	0.	0.								
PEAK STAGE		TIME	MAXIMUM AVERAGE STAGE											
			6-HR	24-HR	72-HR	24.00-HR								
+	(FEET)	(HR)												
+	7082.67	6.13	7078.13	7077.01	7077.01	7077.01								
CUMULATIVE AREA =			.39 SQ MI											
1			STATION					DF#3						
			(I) INFLOW, (O) OUTFLOW											
			0.	40.	80.	120.	160.	200.	240.	280.	0.	0.	0.	0.
			(S) STORAGE											
DAHRMN PER			0.	0.	0.	0.	0.	0.	1.	2.	3.	4.	0.	0.
10000	1I	-----S-----												
10008	2I	.	.	.	.	.	.	S	.	.	.	.	.	
10016	3I	.	.	.	.	.	.	S	.	.	.	.	.	
10024	4I	.	.	.	.	.	.	S	.	.	.	.	.	
10032	5I	.	.	.	.	.	.	S	.	.	.	.	.	
10040	6I	.	.	.	.	.	.	S	.	.	.	.	.	
10048	7I	.	.	.	.	.	.	S	.	.	.	.	.	
10056	8I	.	.	.	.	.	.	S	.	.	.	.	.	
10104	9I	.	.	.	.	.	.	S	.	.	.	.	.	
10112	10I	.	.	.	.	.	.	S	.	.	.	.	.	
10120	11I	.	.	.	.	.	.	S	.	.	.	.	.	
10128	12I	.	.	.	.	.	.	S	.	.	.	.	.	
10136	13I	.	.	.	.	.	.	S	.	.	.	.	.	
10144	14I	.	.	.	.	.	.	S	.	.	.	.	.	
10152	15I	.	.	.	.	.	.	S	.	.	.	.	.	
10200	16I	.	.	.	.	.	.	S	.	.	.	.	.	
10208	17I	.	.	.	.	.	.	S	.	.	.	.	.	
10216	18I	.	.	.	.	.	.	S	.	.	.	.	.	
10224	19I	.	.	.	.	.	.	S	.	.	.	.	.	
10232	20I	.	.	.	.	.	.	S	.	.	.	.	.	
10240	21I	.	.	.	.	.	.	S	.	.	.	.	.	
10248	22I	.	.	.	.	.	.	S	.	.	.	.	.	
10256	23I	.	.	.	.	.	.	S	.	.	.	.	.	
10304	24I	.	.	.	.	.	.	S	.	.	.	.	.	
10312	25I	.	.	.	.	.	.	S	.	.	.	.	.	
10320	26I	.	.	.	.	.	.	S	.	.	.	.	.	
10328	27I	.	.	.	.	.	.	S	.	.	.	.	.	
10336	28I	.	.	.	.	.	.	S	.	.	.	.	.	
10344	29I	.	.	.	.	.	.	S	.	.	.	.	.	
10352	30I	.	.	.	.	.	.	S	.	.	.	.	.	
10400	31I	.	.	.	.	.	.	S	.	.	.	.	.	

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COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	4.29	15.88	35.02
ELEVATION	7015.00	7023.00	7028.00	7033.00

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	.00	475.00	509.59	549.61	596.47	652.05	719.04	801.39	905.03
ELEVATION	7015.00	7019.00	7022.86	7023.44	7024.16	7025.08	7026.27	7027.84	7029.98	7033.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.54	4.07	4.29	5.02	6.34	8.22	11.00	15.38	15.88
OUTFLOW	.00	.00	475.00	483.76	509.59	549.61	596.47	652.05	719.04	725.64
ELEVATION	7015.00	7019.00	7022.86	7023.00	7023.44	7024.16	7025.08	7026.27	7027.84	7028.00

STORAGE	22.56	35.02
OUTFLOW	801.39	905.03
ELEVATION	7029.98	7033.00

HYDROGRAPH AT STATION DF#4

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	7015.0	*	1	0808	62	35.	.8	7019.3	*	1	1616	123	10.	.6	7019.1	
1	0008	2	0.	.0	7015.0	*	1	0816	63	31.	.8	7019.3	*	1	1624	124	10.	.6	7019.1	
1	0016	3	0.	.0	7015.0	*	1	0824	64	27.	.7	7019.2	*	1	1632	125	10.	.6	7019.1	
1	0024	4	0.	.0	7015.0	*	1	0832	65	24.	.7	7019.2	*	1	1640	126	10.	.6	7019.1	
1	0032	5	0.	.0	7015.0	*	1	0840	66	22.	.7	7019.2	*	1	1648	127	10.	.6	7019.1	
1	0040	6	0.	.0	7015.0	*	1	0848	67	21.	.7	7019.2	*	1	1656	128	10.	.6	7019.1	
1	0048	7	0.	.0	7015.0	*	1	0856	68	21.	.7	7019.2	*	1	1704	129	10.	.6	7019.1	
1	0056	8	0.	.0	7015.0	*	1	0904	69	20.	.7	7019.2	*	1	1712	130	10.	.6	7019.1	
1	0104	9	0.	.0	7015.0	*	1	0912	70	20.	.7	7019.2	*	1	1720	131	10.	.6	7019.1	
1	0112	10	0.	.0	7015.0	*	1	0920	71	20.	.7	7019.2	*	1	1728	132	10.	.6	7019.1	
1	0120	11	0.	.0	7015.0	*	1	0928	72	20.	.7	7019.2	*	1	1736	133	10.	.6	7019.1	
1	0128	12	0.	.0	7015.0	*	1	0936	73	20.	.7	7019.2	*	1	1744	134	10.	.6	7019.1	
1	0136	13	0.	.0	7015.0	*	1	0944	74	20.	.7	7019.2	*	1	1752	135	10.	.6	7019.1	
1	0144	14	0.	.0	7015.0	*	1	0952	75	20.	.7	7019.2	*	1	1800	136	10.	.6	7019.1	
1	0152	15	0.	.0	7015.0	*	1	1000	76	20.	.7	7019.2	*	1	1808	137	10.	.6	7019.1	
1	0200	16	0.	.0	7015.0	*	1	1008	77	19.	.7	7019.2	*	1	1816	138	10.	.6	7019.1	
1	0208	17	0.	.0	7015.0	*	1	1016	78	18.	.7	7019.1	*	1	1824	139	10.	.6	7019.1	
1	0216	18	0.	.0	7015.0	*	1	1024	79	17.	.7	7019.1	*	1	1832	140	10.	.6	7019.1	
1	0224	19	0.	.0	7015.0	*	1	1032	80	16.	.7	7019.1	*	1	1840	141	10.	.6	7019.1	
1	0232	20	0.	.0	7015.0	*	1	1040	81	16.	.7	7019.1	*	1	1848	142	10.	.6	7019.1	
1	0240	21	0.	.0	7015.0	*	1	1048	82	16.	.7	7019.1	*	1	1856	143	10.	.6	7019.1	
1	0248	22	0.	.0	7015.0	*	1	1056	83	15.	.7	7019.1	*	1	1904	144	11.	.6	7019.1	
1	0256	23	0.	.0	7015.0	*	1	1104	84	15.	.7	7019.1	*	1	1912	145	11.	.6	7019.1	
1	0304	24	0.	.0	7015.0	*	1	1112	85	15.	.7	7019.1	*	1	1920	146	11.	.6	7019.1	
1	0312	25	0.	.0	7015.0	*	1	1120	86	15.	.7	7019.1	*	1	1928	147	11.	.6	7019.1	
1	0320	26	0.	.0	7015.0	*	1	1128	87	15.	.7	7019.1	*	1	1936	148	11.	.6	7019.1	
1	0328	27	0.	.0	7015.0	*	1	1136	88	15.	.7	7019.1	*	1	1944	149	11.	.6	7019.1	
1	0336	28	0.	.0	7015.0	*	1	1144	89	15.	.7	7019.1	*	1	1952	150	10.	.6	7019.1	
1	0344	29	0.	.0	7015.0	*	1	1152	90	15.	.7	7019.1	*	1	2000	151	10.	.6	7019.1	
1	0352	30	0.	.0	7015.0	*	1	1200	91	15.	.7	7019.1	*	1	2008	152	9.	.6	7019.1	
1	0400	31	0.	.0	7015.0	*	1	1208	92	15.	.7	7019.1	*	1	2016	153	8.	.6	7019.1	
1	0408	32	0.	.0	7015.0	*	1	1216	93	15.	.7	7019.1	*	1	2024	154	7.	.6	7019.1	
1	0416	33	0.	.0	7015.0	*	1	1224	94	15.	.7	7019.1	*	1	2032	155	6.	.6	7019.1	
1	0424	34	0.	.0	7015.0	*	1	1232	95	15.	.7	7019.1	*	1	2040	156	6.	.6	7019.0	
1	0432	35	0.	.0	7015.0	*	1	1240	96	15.	.7	7019.1	*	1	2048	157	6.	.6	7019.0	
1	0440	36	0.	.0	7015.0	*	1	1248	97	15.	.7	7019.1	*	1	2056	158	5.	.6	7019.0	

1	0448	37	0.	.0	7015.0	*	1	1256	98	15.	.7	7019.1	*	1	2104	159	5.	.6	7019.0
1	0456	38	0.	.0	7015.0	*	1	1304	99	15.	.6	7019.1	*	1	2112	160	5.	.6	7019.0
1	0504	39	0.	.0	7015.0	*	1	1312	100	15.	.6	7019.1	*	1	2120	161	5.	.6	7019.0
1	0512	40	0.	.0	7015.0	*	1	1320	101	14.	.6	7019.1	*	1	2128	162	5.	.6	7019.0
1	0520	41	0.	.0	7015.2	*	1	1328	102	14.	.6	7019.1	*	1	2136	163	5.	.6	7019.0
1	0528	42	0.	.2	7016.8	*	1	1336	103	14.	.6	7019.1	*	1	2144	164	5.	.6	7019.0
1	0536	43	55.	.9	7019.4	*	1	1344	104	14.	.6	7019.1	*	1	2152	165	5.	.6	7019.0
2	0544	44	211.	2.1	7020.7	*	1	1352	105	14.	.6	7019.1	*	1	2200	166	5.	.6	7019.0
3	0552	45	369.	3.3	7022.0	*	1	1400	106	13.	.6	7019.1	*	1	2208	167	5.	.6	7019.0
4	0600	46	465.	4.0	7022.8	*	1	1408	107	13.	.6	7019.1	*	1	2216	168	5.	.6	7019.0
5	0608	47	472.	4.0	7022.8	*	1	1416	108	13.	.6	7019.1	*	1	2224	169	5.	.6	7019.0
6	0616	48	418.	3.6	7022.4	*	1	1424	109	13.	.6	7019.1	*	1	2232	170	5.	.6	7019.0
7	0624	49	345.	3.1	7021.8	*	1	1432	110	13.	.6	7019.1	*	1	2240	171	5.	.6	7019.0
8	0632	50	275.	2.6	7021.2	*	1	1440	111	13.	.6	7019.1	*	1	2248	172	6.	.6	7019.0
9	0640	51	203.	2.0	7020.6	*	1	1448	112	12.	.6	7019.1	*	1	2256	173	6.	.6	7019.0
10	0648	52	136.	1.6	7020.1	*	1	1456	113	12.	.6	7019.1	*	1	2304	174	6.	.6	7019.0
11	0656	53	97.	1.3	7019.8	*	1	1504	114	12.	.6	7019.1	*	1	2312	175	5.	.6	7019.0
12	0704	54	77.	1.1	7019.6	*	1	1512	115	12.	.6	7019.1	*	1	2320	176	5.	.6	7019.0
13	0712	55	64.	1.0	7019.5	*	1	1520	116	11.	.6	7019.1	*	1	2328	177	5.	.6	7019.0
14	0720	56	54.	.9	7019.4	*	1	1528	117	11.	.6	7019.1	*	1	2336	178	5.	.6	7019.0
15	0728	57	48.	.9	7019.4	*	1	1536	118	11.	.6	7019.1	*	1	2344	179	5.	.6	7019.0
16	0736	58	44.	.9	7019.4	*	1	1544	119	11.	.6	7019.1	*	1	2352	180	5.	.6	7019.0
17	0744	59	42.	.9	7019.3	*	1	1552	120	10.	.6	7019.1	*	2	0000	181	5.	.6	7019.0
18	0752	60	41.	.8	7019.3	*	1	1600	121	10.	.6	7019.1	*						
19	0800	61	39.	.8	7019.3	*	1	1608	122	10.	.6	7019.1	*						
20						*							*						

23	PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
24			6-HR	24-HR	72-HR	24.00-HR
25	+	(CFS)	(HR)			
26			(CFS)			
27	+	472.	6.13	88.	27.	27.
28			(INCHES)	1.068	1.323	1.323
29			(AC-FT)	44.	54.	54.

31	PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
32			6-HR	24-HR	72-HR	24.00-HR
33	+ (AC-FT)	(HR)				
34	4.	6.13	1.	1.	1.	1.

36	PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
37			6-HR	24-HR	72-HR	24.00-HR
38	+	(FEET)	(HR)			
39		7022.83	6.13	7019.71	7018.30	7018.30

CUMULATIVE AREA = .77 SQ MI

1		STATION						DF#4						
		(I) INFLOW			(O) OUTFLOW			(S) STORAGE						
		0.	100.	200.	300.	400.	500.	0.	0.	0.	0.	0.	0.	0.
		0.	0.	0.	0.	0.	0.	0.	2.	4.	6.	0.	0.	0.
DAHRMN PER														
10000	1I							S						
10008	2I							S						
10016	3I							S						
10024	4I							S						
10032	5I							S						
10040	6I							S						
10048	7I							S						
10056	8I							S						
10104	9I							S						
10112	10I							S						

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11000	76.	I
11008	77.	I
11016	78.	I
11024	79.	I
11032	80.	I
11040	81.	I
11048	82.	I
11056	83.	I
11104	84.	I
11112	85.	I
11120	86.	I
11128	87.	I
11136	88.	I
11144	89.	I
11152	90.	I
11200	91.	I
11208	92.	I
11216	93.	I
11224	94.	I
11232	95.	I
11240	96.	I
11248	97.	I
11256	98.	I
11304	99.	IO
11312	100.	I
11320	101.	I.
11328	102.	I
11336	103.	I
11344	104.	I
11352	105.	I
11400	106.	I
11408	107.	I
11416	108.	I
11424	109.	I
11432	110.	I
11440	111.	I
11448	112.	I
11456	113.	I
11504	114.	I
11512	115.	I
11520	116.	I
11528	117.	I
11536	118.	I
11544	119.	I
11552	120.	I
11600	121.	I.
11608	122.	I
11616	123.	I
11624	124.	I
11632	125.	I
11640	126.	I
11648	127.	I
11656	128.	I
11704	129.	I
11712	130.	I
11720	131.	I.
11728	132.	I
11736	133.	I
11744	134.	I
11752	135.	I
11800	136.	I
11808	137.	I
11816	138.	I
11824	139.	I
11832	140.	I
11840	141.	I

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FORM 1171-2 (01)

11848 142.I
 11856 143.I
 11904 144.I
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 11936 148.I
 11944 149.I
 11952 150.I
 12000 151.I
 12008 152.I
 12016 153.I
 12024 154.I
 12032 155.I
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 12104 159.I
 12112 160.I
 12120 161.I
 12128 162.I
 12136 163.I
 12144 164.I
 12152 165.I
 12200 166.I
 12208 167.I
 12216 168.I
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 12232 170.I
 12240 171.I
 12248 172.I
 12256 173.I
 12304 174.I
 12312 175.I
 12320 176.I
 12328 177.I
 12336 178.I
 12344 179.I
 12352 180.I
 20000 181.I

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113 KK

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 * DF#5 *
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115 KO

OUTPUT CONTROL VARIABLES

IPRNT 1 PRINT CONTROL
 IPLOT 2 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

116 RS

STORAGE ROUTING

NSTPS 1 NUMBER OF SUBREACHES
 ITYP STOR TYPE OF INITIAL CONDITION
 RSVRIC .00 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

117 SA AREA .0 1.1 1.7 7.3

118 SE ELEVATION 6984.00 6989.00 6994.00 6999.00

119 SL LOW-LEVEL OUTLET

ELEV 6987.25 ELEVATION AT CENTER OF OUTLET
CAREA 33.18 CROSS-SECTIONAL AREA
COQL .60 COEFFICIENT
EXPL .50 EXPONENT OF HEAD

120 SS SPILLWAY

CREL 6999.00 SPILLWAY CREST ELEVATION
SPWID .00 SPILLWAY WIDTH
COQW .00 WEIR COEFFICIENT
EXPW 1.50 EXPONENT OF HEAD

COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	1.83	8.70	29.46
ELEVATION	6984.00	6989.00	6994.00	6999.00

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	.00	282.95	303.91	328.25	356.82	390.82	432.01	482.89	547.34
ELEVATION	6984.00	6987.25	6990.39	6990.87	6991.48	6992.24	6993.24	6994.57	6996.40	6999.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.50	1.83	3.46	4.08	4.88	5.96	7.47	8.70	9.77
OUTFLOW	.00	.00	211.23	282.95	303.91	328.25	356.82	390.82	414.85	432.01
ELEVATION	6984.00	6987.25	6989.00	6990.39	6990.87	6991.48	6992.24	6993.24	6994.00	6994.57

STORAGE	15.15	29.46
OUTFLOW	482.89	547.34
ELEVATION	6996.40	6999.00

HYDROGRAPH AT STATION DF#5

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	6984.0	1		0808	62	39.	.8	6987.6	1		1616	123	11.	.6	6987.3
1		0008	2	0.	.0	6984.0	1		0816	63	35.	.7	6987.5	1		1624	124	11.	.6	6987.3
1		0016	3	0.	.0	6984.0	1		0824	64	31.	.7	6987.5	1		1632	125	11.	.6	6987.3
1		0024	4	0.	.0	6984.0	1		0832	65	27.	.7	6987.5	1		1640	126	11.	.6	6987.3
1		0032	5	0.	.0	6984.0	1		0840	66	25.	.7	6987.5	1		1648	127	11.	.6	6987.3
1		0040	6	0.	.0	6984.0	1		0848	67	23.	.7	6987.4	1		1656	128	11.	.6	6987.3
1		0048	7	0.	.0	6984.0	1		0856	68	22.	.6	6987.4	1		1704	129	11.	.6	6987.3
1		0056	8	0.	.0	6984.0	1		0904	69	22.	.6	6987.4	1		1712	130	11.	.6	6987.3
1		0104	9	0.	.0	6984.0	1		0912	70	22.	.6	6987.4	1		1720	131	11.	.6	6987.3
1		0112	10	0.	.0	6984.0	1		0920	71	21.	.6	6987.4	1		1728	132	11.	.6	6987.3
1		0120	11	0.	.0	6984.0	1		0928	72	21.	.6	6987.4	1		1736	133	11.	.6	6987.3
1		0128	12	0.	.0	6984.0	1		0936	73	21.	.6	6987.4	1		1744	134	11.	.6	6987.3
1		0136	13	0.	.0	6984.0	1		0944	74	21.	.6	6987.4	1		1752	135	11.	.6	6987.3
1		0144	14	0.	.0	6984.0	1		0952	75	21.	.6	6987.4	1		1800	136	11.	.6	6987.3
1		0152	15	0.	.0	6984.0	1		1000	76	21.	.6	6987.4	1		1808	137	11.	.6	6987.3
1		0200	16	0.	.0	6984.0	1		1008	77	20.	.6	6987.4	1		1816	138	11.	.6	6987.3
1		0208	17	0.	.0	6984.0	1		1016	78	20.	.6	6987.4	1		1824	139	11.	.6	6987.3
1		0216	18	0.	.0	6984.0	1		1024	79	18.	.6	6987.4	1		1832	140	11.	.6	6987.3

1	0232	20	0.	0	6984.0	*	1	1040	81	17.	6	6987.4	*	1	1840	141	11.	6	6987.3
1	0240	21	0.	0	6984.0	*	1	1048	82	16.	6	6987.4	*	1	1848	142	11.	6	6987.3
1	0248	22	0.	0	6984.0	*	1	1056	83	16.	6	6987.4	*	1	1856	143	11.	6	6987.3
1	0256	23	0.	0	6984.0	*	1	1104	84	16.	6	6987.4	*	1	1904	144	11.	6	6987.3
1	0304	24	0.	0	6984.0	*	1	1112	85	16.	6	6987.4	*	1	1912	145	11.	6	6987.3
1	0312	25	0.	0	6984.0	*	1	1120	86	16.	6	6987.4	*	1	1920	146	11.	6	6987.3
1	0320	26	0.	0	6984.0	*	1	1128	87	16.	6	6987.4	*	1	1928	147	11.	6	6987.3
1	0328	27	0.	0	6984.0	*	1	1136	88	16.	6	6987.4	*	1	1936	148	11.	6	6987.3
1	0336	28	0.	0	6984.0	*	1	1144	89	16.	6	6987.4	*	1	1944	149	11.	6	6987.3
1	0344	29	0.	0	6984.0	*	1	1152	90	16.	6	6987.4	*	1	1952	150	11.	6	6987.3
1	0352	30	0.	0	6984.0	*	1	1200	91	16.	6	6987.4	*	1	2000	151	11.	6	6987.3
1	0400	31	0.	0	6984.0	*	1	1208	92	16.	6	6987.4	*	1	2008	152	10.	6	6987.3
1	0408	32	0.	0	6984.0	*	1	1216	93	16.	6	6987.4	*	1	2016	153	9.	6	6987.3
1	0416	33	0.	0	6984.0	*	1	1224	94	16.	6	6987.4	*	1	2024	154	8.	6	6987.3
1	0424	34	0.	0	6984.0	*	1	1232	95	16.	6	6987.4	*	1	2032	155	7.	5	6987.3
1	0432	35	0.	0	6984.0	*	1	1240	96	16.	6	6987.4	*	1	2040	156	7.	5	6987.3
1	0440	36	0.	0	6984.0	*	1	1248	97	16.	6	6987.4	*	1	2048	157	6.	5	6987.3
1	0448	37	0.	0	6984.0	*	1	1256	98	16.	6	6987.4	*	1	2056	158	6.	5	6987.3
1	0456	38	0.	0	6984.0	*	1	1304	99	16.	6	6987.4	*	1	2104	159	6.	5	6987.3
1	0504	39	0.	0	6984.0	*	1	1312	100	16.	6	6987.4	*	1	2112	160	6.	5	6987.3
1	0512	40	0.	0	6984.0	*	1	1320	101	15.	6	6987.4	*	1	2120	161	6.	5	6987.3
1	0520	41	0.	0	6984.0	*	1	1328	102	15.	6	6987.4	*	1	2128	162	6.	5	6987.3
1	0528	42	0.	0	6984.0	*	1	1336	103	14.	6	6987.4	*	1	2136	163	6.	5	6987.3
1	0536	43	0.	0	6985.8	*	1	1344	104	14.	6	6987.4	*	1	2144	164	6.	5	6987.3
1	0544	44	101.	1.1	6988.1	*	1	1352	105	14.	6	6987.4	*	1	2152	165	6.	5	6987.3
1	0552	45	239.	2.5	6989.5	*	1	1400	106	14.	6	6987.4	*	1	2200	166	6.	5	6987.3
1	0600	46	305.	4.1	6990.9	*	1	1408	107	14.	6	6987.4	*	1	2208	167	6.	5	6987.3
1	0608	47	351.	5.8	6992.1	*	1	1416	108	14.	6	6987.4	*	1	2216	168	6.	5	6987.3
1	0616	48	375.	6.8	6992.8	*	1	1424	109	13.	6	6987.4	*	1	2224	169	6.	5	6987.3
1	0624	49	379.	7.0	6992.9	*	1	1432	110	13.	6	6987.4	*	1	2232	170	6.	5	6987.3
1	0632	50	366.	6.4	6992.5	*	1	1440	111	13.	6	6987.4	*	1	2240	171	6.	5	6987.3
1	0640	51	338.	5.2	6991.7	*	1	1448	112	13.	6	6987.4	*	1	2248	172	6.	5	6987.3
1	0648	52	292.	3.7	6990.6	*	1	1456	113	13.	6	6987.4	*	1	2256	173	6.	5	6987.3
1	0656	53	229.	2.2	6989.3	*	1	1504	114	13.	6	6987.4	*	1	2304	174	6.	5	6987.3
1	0704	54	126.	1.3	6988.3	*	1	1512	115	12.	6	6987.4	*	1	2312	175	6.	5	6987.3
1	0712	55	78.	1.0	6987.9	*	1	1520	116	12.	6	6987.3	*	1	2320	176	6.	5	6987.3
1	0720	56	64.	.9	6987.8	*	1	1528	117	12.	6	6987.3	*	1	2328	177	5.	5	6987.3
1	0728	57	55.	.9	6987.7	*	1	1536	118	11.	6	6987.3	*	1	2336	178	5.	5	6987.3
1	0736	58	50.	.8	6987.7	*	1	1544	119	11.	6	6987.3	*	1	2344	179	5.	5	6987.3
1	0744	59	46.	.8	6987.6	*	1	1552	120	11.	6	6987.3	*	2	2352	180	5.	5	6987.3
1	0752	60	44.	.8	6987.6	*	1	1600	121	11.	6	6987.3	*		0000	181	5.	5	6987.3
1	0800	61	42.	.8	6987.6	*	1	1608	122	11.	6	6987.3	*						

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.00-HR
+	(CFS)	(HR)	(CFS)		
+	379.	6.40	90.	28.	28.
			(INCHES)	1.054	1.308
			(AC-FT)	45.	55.
				55.	55.
PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.00-HR
+	(AC-FT)	(HR)			
+	7.	6.40	2.	1.	1.
PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.00-HR
+	(FEET)	(HR)			
+	6992.90	6.40	6988.29	6986.79	6986.79

CUMULATIVE AREA = .79 SQ MI

0.	100.	200.	300.	400.	500.	0.	0.	0.	0.	0.	0.	0.
(S) STORAGE												
0.	0.	0.	0.	0.	0.	0.	2.	4.	6.	8.	0.	0.

PRINTED IN U.S.A.

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241 KK * DF#1 *

243 KO OUTPUT CONTROL VARIABLES

IPRNT 1 PRINT CONTROL
IPLOT 2 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

244 RS STORAGE ROUTING

NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC .00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

245 SA AREA .0 1.5 2.6 4.6 5.6 6.5

246 SE ELEVATION 50.00 55.00 60.00 65.00 70.00 75.00

247 SL LOW-LEVEL OUTLET

ELEVL 54.00 ELEVATION AT CENTER OF OUTLET
CAREA 95.03 CROSS-SECTIONAL AREA
COQL .60 COEFFICIENT
EXPL .50 EXPONENT OF HEAD

248 SS SPILLWAY

CREL 75.00 SPILLWAY CREST ELEVATION

JFWIL .00 S. ALLWAY WIDTH
 COGW .00 WEIR COEFFICIENT
 EXPW 1.50 EXPONENT OF HEAD

COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	2.45	12.48	30.15	55.55	85.69
ELEVATION	50.00	55.00	60.00	65.00	70.00	75.00

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	.00	1055.96	1136.50	1230.35	1341.09	1473.74	1635.50	1837.16	2095.54
ELEVATION	50.00	54.00	59.33	60.18	61.24	62.60	64.39	66.79	70.14	75.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	1.25	2.45	10.81	12.48	12.95	15.97	20.44	27.44	30.15
OUTFLOW	.00	.00	457.28	1055.96	1120.11	1136.50	1230.35	1341.09	1473.74	1516.64
ELEVATION	50.00	54.00	55.00	59.33	60.00	60.18	61.24	62.60	64.39	65.00
STORAGE	38.66	55.55	56.34	85.69						
OUTFLOW	1635.50	1829.14	1837.16	2095.54						
ELEVATION	66.79	70.00	70.14	75.00						

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 457.
 THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
 THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

HYDROGRAPH AT STATION OF#1

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	50.0	1		0808	62	197.	1.8	54.4	1		1616	123	54.	1.4	54.1
1		0008	2	0.	.0	50.0	1		0816	63	182.	1.7	54.4	1		1624	124	53.	1.4	54.1
1		0016	3	0.	.0	50.0	1		0824	64	168.	1.7	54.4	1		1632	125	53.	1.4	54.1
1		0024	4	0.	.0	50.0	1		0832	65	154.	1.7	54.3	1		1640	126	53.	1.4	54.1
1		0032	5	0.	.0	50.0	1		0840	66	142.	1.6	54.3	1		1648	127	53.	1.4	54.1
1		0040	6	0.	.0	50.0	1		0848	67	132.	1.6	54.3	1		1656	128	52.	1.4	54.1
1		0048	7	0.	.0	50.0	1		0856	68	124.	1.6	54.3	1		1704	129	52.	1.4	54.1
1		0056	8	0.	.0	50.0	1		0904	69	119.	1.6	54.3	1		1712	130	52.	1.4	54.1
1		0104	9	0.	.0	50.0	1		0912	70	114.	1.6	54.3	1		1720	131	52.	1.4	54.1
1		0112	10	0.	.0	50.0	1		0920	71	111.	1.5	54.2	1		1728	132	52.	1.4	54.1
1		0120	11	0.	.0	50.0	1		0928	72	109.	1.5	54.2	1		1736	133	52.	1.4	54.1
1		0128	12	0.	.0	50.0	1		0936	73	108.	1.5	54.2	1		1744	134	52.	1.4	54.1
1		0136	13	0.	.0	50.0	1		0944	74	107.	1.5	54.2	1		1752	135	52.	1.4	54.1
1		0144	14	0.	.0	50.0	1		0952	75	107.	1.5	54.2	1		1800	136	52.	1.4	54.1
1		0152	15	0.	.0	50.0	1		1000	76	106.	1.5	54.2	1		1808	137	52.	1.4	54.1
1		0200	16	0.	.0	50.0	1		1008	77	104.	1.5	54.2	1		1816	138	52.	1.4	54.1
1		0208	17	0.	.0	50.0	1		1016	78	102.	1.5	54.2	1		1824	139	52.	1.4	54.1
1		0216	18	0.	.0	50.0	1		1024	79	99.	1.5	54.2	1		1832	140	52.	1.4	54.1
1		0224	19	0.	.0	50.0	1		1032	80	96.	1.5	54.2	1		1840	141	52.	1.4	54.1
1		0232	20	0.	.0	50.0	1		1040	81	93.	1.5	54.2	1		1848	142	52.	1.4	54.1
1		0240	21	0.	.0	50.0	1		1048	82	90.	1.5	54.2	1		1856	143	52.	1.4	54.1
1		0248	22	0.	.0	50.0	1		1056	83	88.	1.5	54.2	1		1904	144	52.	1.4	54.1
1		0256	23	0.	.0	50.0	1		1104	84	86.	1.5	54.2	1		1912	145	52.	1.4	54.1
1		0304	24	0.	.0	50.0	1		1112	85	84.	1.5	54.2	1		1920	146	52.	1.4	54.1
1		0312	25	0.	.0	50.0	1		1120	86	83.	1.5	54.2	1		1928	147	52.	1.4	54.1
1		0320	26	0.	.0	50.0	1		1128	87	82.	1.5	54.2	1		1936	148	52.	1.4	54.1
1		0328	27	0.	.0	50.0	1		1136	88	82.	1.5	54.2	1		1944	149	52.	1.4	54.1

1	0336	29	0.	0.	50.0	*	1	1152	90	81.	1.5	54.2	*	1	1952	150	51.	1.4	54.1
1	0344	29	0.	0.	50.0	*	1	1152	90	81.	1.5	54.2	*	1	2000	151	51.	1.4	54.1
1	0352	30	0.	0.	50.0	*	1	1200	91	80.	1.5	54.2	*	1	2008	152	50.	1.4	54.1
1	0400	31	0.	0.	50.0	*	1	1208	92	80.	1.5	54.2	*	1	2016	153	48.	1.4	54.1
1	0408	32	0.	0.	50.0	*	1	1216	93	80.	1.5	54.2	*	1	2024	154	46.	1.4	54.1
1	0416	33	0.	0.	50.0	*	1	1224	94	79.	1.5	54.2	*	1	2032	155	44.	1.4	54.1
1	0424	34	0.	0.	50.0	*	1	1232	95	79.	1.5	54.2	*	1	2040	156	41.	1.4	54.1
1	0432	35	0.	0.	50.0	*	1	1240	96	79.	1.5	54.2	*	1	2048	157	39.	1.4	54.1
1	0440	36	0.	0.	50.0	*	1	1248	97	79.	1.5	54.2	*	1	2056	158	36.	1.3	54.1
1	0448	37	0.	0.	50.0	*	1	1256	98	78.	1.5	54.2	*	1	2104	159	34.	1.3	54.1
1	0456	38	0.	0.	50.0	*	1	1304	99	78.	1.5	54.2	*	1	2112	160	33.	1.3	54.1
1	0504	39	0.	0.	50.0	*	1	1312	100	77.	1.5	54.2	*	1	2120	161	31.	1.3	54.1
1	0512	40	0.	0.	50.0	*	1	1320	101	76.	1.5	54.2	*	1	2128	162	30.	1.3	54.1
1	0520	41	0.	0.	50.0	*	1	1328	102	75.	1.5	54.2	*	1	2136	163	29.	1.3	54.1
1	0528	42	0.	0.	50.2	*	1	1336	103	74.	1.4	54.2	*	1	2144	164	29.	1.3	54.1
1	0536	43	0.	0.	51.1	*	1	1344	104	73.	1.4	54.2	*	1	2152	165	28.	1.3	54.1
1	0544	44	56.	1.4	54.1	*	1	1352	105	71.	1.4	54.2	*	1	2200	166	28.	1.3	54.1
1	0552	45	552.	3.8	55.7	*	1	1400	106	70.	1.4	54.2	*	1	2208	167	28.	1.3	54.1
1	0600	46	816.	7.5	57.6	*	1	1408	107	69.	1.4	54.2	*	1	2216	168	28.	1.3	54.1
1	0608	47	1087.	11.6	59.7	*	1	1416	108	68.	1.4	54.1	*	1	2224	169	28.	1.3	54.1
1	0616	48	1202.	15.1	60.9	*	1	1424	109	67.	1.4	54.1	*	1	2232	170	27.	1.3	54.1
1	0624	49	1254.	16.9	61.5	*	1	1432	110	66.	1.4	54.1	*	1	2240	171	28.	1.3	54.1
1	0632	50	1256.	17.0	61.6	*	1	1440	111	66.	1.4	54.1	*	1	2248	172	28.	1.3	54.1
1	0640	51	1222.	15.7	61.1	*	1	1448	112	65.	1.4	54.1	*	1	2256	173	28.	1.3	54.1
1	0648	52	1156.	13.6	60.4	*	1	1456	113	64.	1.4	54.1	*	1	2304	174	28.	1.3	54.1
1	0656	53	1066.	11.1	59.4	*	1	1504	114	63.	1.4	54.1	*	1	2312	175	28.	1.3	54.1
1	0704	54	910.	8.8	58.3	*	1	1512	115	62.	1.4	54.1	*	1	2320	176	28.	1.3	54.1
1	0712	55	763.	6.7	57.2	*	1	1520	116	61.	1.4	54.1	*	1	2328	177	28.	1.3	54.1
1	0720	56	620.	4.7	56.2	*	1	1528	117	60.	1.4	54.1	*	1	2336	178	27.	1.3	54.1
1	0728	57	501.	3.1	55.3	*	1	1536	118	59.	1.4	54.1	*	1	2344	179	27.	1.3	54.1
1	0736	58	325.	2.1	54.7	*	1	1544	119	57.	1.4	54.1	*	1	2352	180	27.	1.3	54.1
1	0744	59	251.	1.9	54.5	*	1	1552	120	56.	1.4	54.1	*	2	0000	181	26.	1.3	54.1
1	0752	60	232.	1.9	54.5	*	1	1600	121	55.	1.4	54.1	*						
1	0800	61	210.	1.8	54.5	*	1	1608	122	55.	1.4	54.1	*						

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.00-HR
(CFS)	(HR)				
1256.	6.53	368.	119.	119.	119.
(INCHES)		1.827	1.068	1.068	1.068
(AC-FT)		183.	236.	236.	236.
PEAK STORAGE	TIME	6-HR	24-HR	72-HR	24.00-HR
(AC-FT)	(HR)				
17.	6.53	4.	2.	2.	2.
PEAK STAGE	TIME	6-HR	24-HR	72-HR	24.00-HR
(FEET)	(HR)				
61.55	6.53	55.60	53.52	53.52	53.52

CUMULATIVE AREA = 4.14 SQ MI

STATION	DF#1
(I) INFLOW, (O) OUTFLOW	
0. 200. 400. 600. 800. 1000. 1200. 1400. 1600. 0. 0. 0. 0.	
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	
DAHRMN PER	
10000 11-----S-----	
10003 21-----S-----	

ROUTED TO	ROUTE	132.	6.00	21.	7.	7.	.24	
HYDROGRAPH AT	SB3	305.	5.87	46.	14.	14.	.36	
2 COMBINED AT	SUMMPT1	428.	6.00	67.	21.	21.	.60	
ROUTED TO	DF#2	225.	6.27	67.	21.	21.	.60	6963.96 6.27
ROUTED TO	ROUTE	225.	6.40	67.	21.	21.	.60	
HYDROGRAPH AT	SB9	92.	5.87	14.	4.	4.	.18	
HYDROGRAPH AT	SB10	87.	6.13	17.	5.	5.	.15	
3 COMBINED AT	SUMPT4	360.	6.00	97.	30.	30.	.92	
HYDROGRAPH AT	SB15UP	363.	6.13	100.	31.	31.	.97	
HYDROGRAPH AT	SB2	116.	5.87	15.	5.	5.	.18	
ROUTED TO	ROUTE	112.	5.87	15.	5.	5.	.18	
HYDROGRAPH AT	SB4A	156.	5.87	21.	7.	7.	.21	
2 COMBINED AT	SUMPT2A	268.	5.87	36.	12.	12.	.39	
ROUTED TO	DF#3	178.	6.13	36.	11.	11.	.39	7082.67 6.13
ROUTED TO	ROUTE	177.	6.13	36.	11.	11.	.39	
HYDROGRAPH AT	SB4B	123.	6.00	21.	6.	6.	.15	
HYDROGRAPH AT	SB5	208.	5.87	32.	10.	10.	.24	
3 COMBINED AT	SUMPT2B	499.	6.00	89.	28.	28.	.77	
ROUTED TO	DF#4	472.	6.13	88.	27.	27.	.77	7022.83 6.13
HYDROGRAPH AT	SB7UP	483.	6.13	91.	28.	28.	.79	
ROUTED TO	DF#5	379.	6.40	90.	28.	28.	.79	6992.90 6.40

1	ROUTED TO						
2		ROUTE	379.	6.40	90.	28.	28.
3							.79
4	HYDROGRAPH AT						
5		SB6	59.	6.00	10.	3.	3.
6							.08
7	2 COMBINED AT						
8		COMBINE	415.	6.27	100.	31.	31.
9							.87
10	ROUTED TO						
11		ROUTE	413.	6.27	100.	31.	31.
12							.87
13	HYDROGRAPH AT						
14		SB7	148.	6.00	27.	8.	8.
15							.24
16	HYDROGRAPH AT						
17		SB8	112.	5.87	14.	5.	5.
18							.14
19	3 COMBINED AT						
20		SUMPT3	590.	6.13	141.	44.	44.
21							1.25
22	HYDROGRAPH AT						
23		SB12	593.	6.13	151.	49.	49.
24							1.42
25	HYDROGRAPH AT						
26		SB11	78.	5.87	12.	4.	4.
27							.13
28	2 COMBINED AT						
29		SUMPT5	652.	6.13	163.	53.	53.
30							1.55
31	ROUTED TO						
32		ROUTE	651.	6.13	163.	53.	53.
33							1.55
34	HYDROGRAPH AT						
35		SB13	99.	6.00	17.	5.	5.
36							.17
37	2 COMBINED AT						
38		COMBINE	742.	6.13	180.	58.	58.
39							1.71
40	HYDROGRAPH AT						
41		SB15LOW	745.	6.13	183.	59.	59.
42							1.76
43	2 COMBINED AT						
44		SUMPT6	1107.	6.13	283.	91.	91.
45							2.72
46	HYDROGRAPH AT						
47		SB16	1102.	6.13	284.	91.	91.
48							2.76
49	HYDROGRAPH AT						
50		SB14	55.	6.13	11.	4.	4.
51							.30
52	2 COMBINED AT						
53		SUMPT7	1157.	6.13	295.	95.	95.
54							3.05
55	ROUTED TO						
56		ROUTE	1153.	6.13	296.	95.	95.
57							3.05
58	HYDROGRAPH AT						
59		SB19	63.	6.13	13.	4.	4.
60							.22
61	ROUTED TO						
62		ROUTE	62.	6.13	13.	4.	4.
63							.22
64	HYDROGRAPH AT						
65		SB17	33.	5.87	5.	2.	2.
66							.12

2	COMBINED AT							
+	COMBINE	85.	6.00	18.	6.	6.	.34	
	HYDROGRAPH AT							
+	SB18	56.	5.87	8.	3.	3.	.11	
1	3 COMBINED AT							
2	SUMPT8	1268.	6.13	321.	104.	104.	3.50	
3	ROUTED TO							
4	ROUTE	1255.	6.27	322.	104.	104.	3.50	
5	HYDROGRAPH AT							
6	SB20	80.	5.87	11.	4.	4.	.26	
7	HYDROGRAPH AT							
8	SB21	56.	6.00	10.	3.	3.	.12	
9	HYDROGRAPH AT							
10	SB22	77.	6.00	15.	5.	5.	.16	
11	ROUTED TO							
12	ROUTE	77.	6.13	15.	5.	5.	.16	
13	HYDROGRAPH AT							
14	SB25A	74.	6.00	13.	4.	4.	.09	
15	2 COMBINED AT							
16	COMBINE	148.	6.13	28.	9.	9.	.25	
17	4 COMBINED AT							
18	SUMPT9	1458.	6.13	369.	120.	120.	4.14	
19	ROUTED TO							
20	DF#1	1256.	6.53	368.	119.	119.	4.14	
21	ROUTED TO							61.55 6.53
22	ROUTE	1256.	6.53	368.	119.	119.	4.14	
23	HYDROGRAPH AT							
24	SB25B	50.	6.00	8.	2.	2.	.05	
25	2 COMBINED AT							
26	SUMPT10	1271.	6.53	375.	121.	121.	4.19	
27	HYDROGRAPH AT							
28	SB23	137.	6.00	24.	8.	8.	.25	
29	ROUTED TO							
30	ROUTE	134.	6.13	24.	8.	8.	.25	
31	HYDROGRAPH AT							
32	SB24	153.	6.00	28.	9.	9.	.19	
33	2 COMBINED AT							
34	SUMPT11	285.	6.13	52.	16.	16.	.44	
35	HYDROGRAPH AT							
36	SB26	3.	6.80	2.	1.	1.	.17	
37	3 COMBINED AT							
38	SUMPT12	1473.	6.27	428.	138.	138.	4.80	
39	HYDROGRAPH AT							

SB26 1467. 6.40 429. 139. 139. 4.96

HYDROGRAPH AT

SB27 1. 5.87 0. 0. 0. .03

2 COMBINED AT

SUMPT13 1467. 6.40 430. 139. 139. 4.99

HYDROGRAPH AT

ROUTE 1457. 6.40 436. 142. 142. 5.12

HYDROGRAPH AT

CHAPEL 944. 6.27 234. 78. 78. 3.61

2 COMBINED AT

SUMPT14 2370. 6.40 669. 220. 220. 8.73

ROUTED TO

ROUTE 2363. 6.40 669. 220. 220. 8.73

HYDROGRAPH AT

NCOTTONW 311. 6.13 68. 22. 22. .81

2 COMBINED AT

SUMPT15 2635. 6.40 736. 242. 242. 9.54

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

DEVELOPED-
ONSITE & REGIONAL DETENTION

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FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

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

1 ID PINE CREEK DRAINAGE BASIN - 24HR, DEV. W/ 35% & PONDS (100 YEAR)

*** FREE ***

*DIAGRAM

IT 8 0 0 181
IO 5

KK SB1
KM SCS RUNOFF COMPUTATION

BA .2421
IN 15
PB 4.4

9	PC	.0022	.0066	.0132	.0198	.0264	.0352	.0440	.0528	.0629	.0726
10	PC	.0827	.0924	.1025	.1122	.1223	.1408	.1716	.2024	.2332	.2640
11	PC	.3300	.4400	1.7600	3.0800	3.1900	3.3000	3.3660	3.4320	3.4760	3.5200
12	PC	3.5640	3.6080	3.6300	3.6520	3.6740	3.6960	3.7180	3.7400	3.7620	3.7840
13	PC	3.8007	3.8170	3.8337	3.8500	3.8667	3.8830	3.8997	3.9160	3.9327	3.9490
14	PC	3.9657	3.9820	3.9965	4.0106	4.0251	4.0392	4.0524	4.0656	4.0788	4.0920
15	PC	4.1030	4.1140	4.1250	4.1360	4.1470	4.1580	4.1690	4.1800	4.1910	4.2020
16	PC	4.2130	4.2240	4.2350	4.2460	4.2570	4.2680	4.2790	4.2900	4.3010	4.3120
17	PC	4.3177	4.3230	4.3287	4.3340	4.3397	4.3450	4.3507	4.3560	4.3617	4.3670
18	PC	4.3727	4.3802	4.3837	4.3890	4.3947	4.4000				
19	LS	0	81								
20	UD	.38									

KK ROUTESB1 TO PT. 1
RK 1750 .025 .019 TRAP 34 0

KK SB3
KM SCS RUNOFF COMPUTATION

BA .3593
LS 0 88
UD .35

KK SUMMPT1
KM COMBINE 1 AND 3
HC 2

KK DF#2

32	KM	ROUTE FLOWS THRU DETENTION FACILITY NO. 2							
33	RS	1	STOR	0					
34	SA	0	.0001	.3500	.7900	1.6800	3.0100	4.7300	6.7600
35	SE	6953	6955	6960	6965	6970	6975	6980	6985
36	SL	6955	12.566	.60	0.5				
37	SS	6985							

38	KK	ROUTETO PT.4							
39	RK	4880	.03	.04		TRAP	10	2.5	

40	KK	SB9							
41	KM	SCS RUNOFF - SUBBASIN NO. 9							
42	BA	.1765							
43	LS	0	79.5						
44	UD	.28							

1 HEC-1 INPUT PAGE 2

LINE	ID	1	2	3	4	5	6	7	8	9	10
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45	KK	SB10								
46	KM	SCS RUNOFF - SUBBASIN NO 10								
47	BA	.1468								
48	LS	0	36							
49	UD	.47								
50	KK	SUMPT4								
51	KM	COMBINE PT.1, 9 AND 10								
52	HC	3								
53	KK	SB15UP								
54	KM	SCS RUNOFF - SUBBASIN NO 15 UPPER / WITH MAIN CHANNEL								
55	BA	.0422								
56	LS	0	82							
57	UK	1600	.025	.25	100					
58	RK	1600	.015	.015		TRAP	10	1.5	YES	

59	KK	SB2								
60	KM	SCS RUNOFF SUBBASIN NO. 2								
61	BA	.1796								
62	LS	0	81							
63	UD	.24								

64	KK	ROUTETO DF#3								
65	RK	1085	.04	.019		TRAP	34	0		
66	RK	915	.015	.015		TRAP	8	1.5		

67	KK	SB4A								
68	KM	SCS RUNOFF - SUBBASIN NO. 4A ABOVE POND NO. 3								
69	BA	.2062								
70	LS	0	84							
71	UD	.26								

72	KK	SUMPT2A								
73	KM	SUMM FLOWS AT DF#3								
74	HC	2								

75	KK	DF#3								
76	KM	ROUTE FLOWS THRU DETENTION FACILITY NO. 3								
77	RS	1	STOR	0						
78	SA	0	.5510	2.9511						
79	SE	7075	7080	7090						
80	SL	7077.25	15.904	.60	.50					
81	SS	7090								

82	KK	ROUTETO PT. 2B							
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83	RK	2400	.028	.015	TRAP	8	1.5
84	KK	SB4B					
85	KM	SCS RUNOFF - SUBBASIN NO. 4B BELOW POND NO 3					
86	BA	.1460					
87	LS	0	90				
88	UD	.36					

HEC-1 INPUT

PAGE 3

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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89	KK	SB5					
90	KM	SCS RUNOFF - SUBBASIN NO. 5					
91	BA	.2359					
92	LS	0	89				
93	UD	.53					
94	KK	SUMPT2B					
95	KM	COMBINE SUBBASINS 2.4 AND 5					
96	HC	3					
97	KK	DF#4					
98	KM	ROUTE FLOWS THRU DETENTION FACILITY NO. 4					
99	RS	1	STOR	0			
100	SA	0	1.6102	3.1054	4.6006		
101	SE	7015	7023	7028	7033		
102	SL	7019	50.266	.60	.50		
103	SS	7033					
104	KK	SB7UP					
105	KM	SCS RUNOFF - SUBBASIN NO 7 ABOVE POND NO 5					
106	BA	.0272					
107	LS	0	86				
108	UK	1000	.02	.15	100		
109	RK	400	.02	.015	TRAP	8	1.5
						YES	
110	KK	DF#5					
111	KM	ROUTE FLOWS THRU DETENTION FACILITY NO 5					
112	RS	1	STOR	0			
113	SA	0	1.100	1.6669	7.30		
114	SE	6984	6989	6994	6999		
115	SL	6987.25	33.183	.60	.50		
116	SS	6999					
117	KK	ROUTEPT.2 TO SB6					
118	RK	2100	.025	.015	TRAP	8	1.5
119	KK	SB6					
120	KM	SCS RUNOFF - SUBBASIN NO. 6					
121	BA	.0797					
122	LS	0	88				
123	UD	.48					
124	KK	COMBINEPT.2 ROUTED WITH SB6					
125	HC	2					
126	KK	ROUTETO PT. 3					
127	RK	1340	.025	.015	TRAP	8	1.5
128	KK	SB7					
129	KM	SCS RUNOFF - SUBBASIN NO. 7					
130	BA	.2352					
131	LS	0	86				
132	UD	.42					

HEC-1 INPUT

PAGE 4

180	KM	SCS RUNOFF - SUBBASIN NO. 14
181	BA	.2952
182	LS	0 70
183	UD	.39

184	KK	SUMPT7
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185	KM	COMBINE PT.6, SUBBASIN NO. 14 AND 16
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186	HC	2
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187	KK	ROUTEPT.7 TO PT.3
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188	RK	1100 .01 .040	TRAP	30	5
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189	RK	640 .01 .015	TRAP	20	1.5
-----	----	--------------	------	----	-----

190	KK	SB19
-----	----	------

191	KM	SCS RUNOFF - SUBBASIN NO. 19
-----	----	------------------------------

192	BA	.2210
-----	----	-------

193	LS	0 75
-----	----	------

194	UD	.51
-----	----	-----

195	KK	ROUTE SB19 TO PT.8
-----	----	--------------------

196	RK	1600 .035 .019	TRAP	36	0
-----	----	----------------	------	----	---

197	KK	SB17
-----	----	------

198	KM	SCS RUNOFF - SUBBASIN NO. 17
-----	----	------------------------------

199	BA	.1203
-----	----	-------

200	LS	0 71
-----	----	------

201	UD	.25
-----	----	-----

202	KK	COMBINESUBBASINS NO 17 AND 19
-----	----	-------------------------------

203	HC	2
-----	----	---

204	KK	SB18
-----	----	------

205	KM	SCS RUNOFF - SUBBASIN NO. 18
-----	----	------------------------------

206	BA	.1062
-----	----	-------

207	LS	0 78.5
-----	----	--------

208	UD	.24
-----	----	-----

209	KK	SUMPT8
-----	----	--------

210	KM	COMBINE PT.7, SUBBASINS 17,18,19
-----	----	----------------------------------

211	HC	3
-----	----	---

1

HEC-1 INPUT

PAGE 6

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

212	KK	ROUTEPT.8 TO PT.9
-----	----	-------------------

213	RK	3960 .01 .040	TRAP	30	5
-----	----	---------------	------	----	---

214	KK	SB20
-----	----	------

215	KM	SCS RUNOFF - SUBBASIN NO. 20
-----	----	------------------------------

216	BA	.2640
-----	----	-------

217	LS	0 70.5
-----	----	--------

218	UD	.23
-----	----	-----

219	KK	SB21
-----	----	------

220	KM	SCS RUNOFF - SUBBASIN NO. 21
-----	----	------------------------------

221	BA	.1234
-----	----	-------

222	LS	0 80.5
-----	----	--------

223	UD	.43
-----	----	-----

224	KK	SB22
-----	----	------

225	KM	SCS RUNOFF - SUBBASIN NO. 22
-----	----	------------------------------

226	BA	.1624
-----	----	-------

227	LS	0 82
-----	----	------

228	UD	.47
-----	----	-----

229 KK ROUTESB22 TO PT.9
230 RK 3200 .04 .019 TRAP 72 0

231 KK SB25A
232 KM SCS RUNOFF - SUBBASIN NO. 25A
233 BA .0875

234 LS 0 91
235 UD .52

236 KK COMBINESB22 AND SB25A
237 HC 2

238 KK SUMPT9
239 KM COMBINE PT.8, SUBBASINS 20 AND 21, AND 22 AND 25A
240 HC 4

241 KK DF#1
242 KM ROUTE FLOW THRU DETENTION FACILITY NO. 1

243 KO 1 2
244 RS 1 STOR 0
245 SA 0 1.4700 2.5959 4.5650 5.6100 6.4570
246 SE 50.0 55.0 60.0 65.0 70.0 75.0
247 SL 54.0 95.030 0.60 0.50
248 SS 75.0

249 KK ROUTEPT.9 TO PT. 10
250 RK 1450 .02 .015 DEEP 11.5 0

1 HEC-1 INPUT PAGE 7

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

251 KK SB25B
252 KM SCS RUNOFF - SUBBASIN NO 25B
253 BA .0531
254 LS 0 91
255 UD .35

256 KK SMPT10
257 KM SUMMARY SB25B AND POND 1 ROUTED
258 HC 2

259 KK SB23
260 KM SCS RUNOFF - SUBBASIN NO. 23
261 BA .2515
262 LS 0 83
263 UD .57

264 KK ROUTESB23 TO PT.11
265 RK 4100 .03 .019 TRAP 30 2

266 KK SB24
267 KM SCS RUNOFF - SUBBASIN NO. 24
268 BA .1374
269 LS 0 91
270 UD .58

271 KK SUMPT11
272 KM SUMMARY SUBBASIN NO 23 AND 24
273 HC 2

274 KK SB26
275 KM SCS RUNOFF - SUBBASIN NO 26
276 BA .1703
277 LS 0 58
278 UD .80

279 KK SUMPT12
280 KM SUMMARY OF PTS 10 AND 11 AND SUBBASIN NO. 26
281 HC 3

282 KK SB28

283 KM SCS RUNOFF - SUBBASIN NO 28 WITH MAIN CHANNEL

284 BA .1609

285 LS 0 65

286 UK 1980 .038 .35 100

287 RK 4707 .0075 .015 TRAP 25.5 3 YES

288 KK SB27

289 KM SCS RUNOFF - SUBBASIN NO 27

290 BA .0312

291 LS 0 58

292 UD .12

HEC-1 INPUT

PAGE 8

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

293 KK SUMPT13

294 KM SUMMARY PT.12, SUBBASIN 27 AND 28

295 HC 2

296 KK ROUTETHRU LDTL#15 TO PT 14

297 BA .1312

298 LS 0 80

299 UK 2200 .025 .35 100

300 RK 2200 .025 .040 TRAP 50 3 YES

301 KK CHAPELHILLS MALL OUTFALL

302 KM LDTL BASIN DATA

303 BA 3.6098

304 LS 0 77

305 UD .62

306 KK SUMPT14

307 KM SUMMARY PT 13 ROUTED AND CHAPEL HILLS MALL

308 HC 2

309 KK ROUTETO PT 15

310 RK 1000 .025 .040 TRAP 50 3

311 KKNCOTTONWOOD

312 KM LDTL BASIN DATA

313 BA .8107

314 LS 0 81

315 UD .55

316 KK SUMPT15

317 KM SUMMARY PT 14 ROUTED WITH N COTTONWOOD CREEK

318 HC 2

319 KK ROUTETO PT 16

320 RK 2904 .02 .045 TRAP 20 3

321 KK LDTLSB13&14

322 KM SCS RUNOFF LDTL SUBBASINS NO 13 AND 14

323 BA .6264

324 LS 0 81

325 UD .44

326 KK SUMPT16

327 KM SUMMARY PT15 ROUTED WITH LDTL BASINS 13 & 14

328
329HC
ZZ

2

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

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

4	SB1	
	V	
	V	
21	ROUTE	
	.	
23	.	SB3
	.	.
	.	.
28	SUMPT1.....	
	V	
	V	
31	DF#2	
	V	
	V	
38	ROUTE	
	.	
40	.	SB9
	.	.
	.	.
45	.	SB10
	.	.
	.	.
50	SUMPT4.....	
	V	
	V	
53	SB15UP ***	
	.	
	.	
59	.	SB2
	.	V
	.	V
64	.	ROUTE
	.	.
	.	.
67	.	SB4A
	.	.
	.	.
72	.	SUMPT2A.....
	.	V
	.	V
75	.	DF#3
	.	V
	.	V
82	.	ROUTE
	.	.
	.	.
84	.	SB4B
	.	.
	.	.
89	.	SB5
	.	.
	.	.
94	.	SUMPT2B.....
	.	V
	.	V

97

DF#4

V

V

104

SB7UP ***

V

V

110

DF#5

V

V

117

ROUTE

119

SB6

124

COMBINE.....

V

V

126

ROUTE

128

SB7

133

SB8

138

SUMPT3.....

V

V

141

SB12 ***

147

SB11

152

SUMPT5.....

V

V

155

ROUTE

157

SB13

162

COMBINE.....

V

V

164

SB15LOW ***

170

SUMPT6.....

V

V

173

SB16 ***

179

SB14

184

SUMPT7.....

V

V

187

ROUTE

190 . SB19
V
V
195 . ROUTE
.

197 . SB17

202 . COMBINE.....

204 . SB18

209 . SUMPT8.....

V

V

212 . ROUTE

214 . SB20

219 . SB21

224 . SB22

V

V

229 . ROUTE

231 . SB25A

236 . COMBINE.....

238 . SUMPT9.....

V

V

241 . DF#1

V

V

249 . ROUTE

251 . SB25B

256 . SMPT10.....

259 . SB23

V

V

264 . ROUTE

266 . SB24

271 . SUMPT11.....

274 . . . SB26

279 SUMP12.....

V
V

282 SB28 ***

288 . SB27

293 SUMPT13.....

V
V

296 ROUTE ***

301 . CHAPEL

306 SUMPT14.....

V
V

309 ROUTE

311 . NCOTTONW

316 SUMPT15.....

V
V

319 ROUTE

321 . LDTLSB13

326 SUMPT16.....

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

PINE CREEK DRAINAGE BASIN - 24HR, DEV. W/ 35% & PONDS (100 YEAR)

3 IO OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA

NMIN 8 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 181 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0000 ENDING TIME

COMPUTATION INTERVAL .13 HOURS
 TOTAL TIME BASE 24.00 HOURS

ENGLISH UNITS

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

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

*** **

 *
 *
 *

31 KK

DF#2

33 KO

OUTPUT CONTROL VARIABLES

IPRNT 1 PRINT CONTROL
 IPLOT 2 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

34 RS

STORAGE ROUTING

NSTPS 1 NUMBER OF SUBREACHES
 ITYP STOR TYPE OF INITIAL CONDITION
 RSVRIC .00 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

35 SA

AREA

.0 .0 .3 .8 1.7 3.0 4.7 6.8

36 SE ELEVATION 6953.00 6955.00 6960.00 6965.00 6970.00 6975.00 6980.00 6985.00

37 SL LOW-LEVEL OUTLET

ELEV 6955.00 ELEVATION AT CENTER OF OUTLET
CAREA 12.57 CROSS-SECTIONAL AREA
COQL .60 COEFFICIENT
EXPL .50 EXPONENT OF HEAD

38 SS SPILLWAY

CREL 6985.00 SPILLWAY CREST ELEVATION
SPWID .00 SPILLWAY WIDTH
COQW .00 WEIR COEFFICIENT
EXPW 1.50 EXPONENT OF HEAD

COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.00	.59	3.37	9.41	20.97	40.16	68.73
ELEVATION	6953.00	6955.00	6960.00	6965.00	6970.00	6975.00	6980.00	6985.00

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	.00	86.91	97.15	110.12	127.08	150.23	183.69	236.31	331.19
ELEVATION	6953.00	6955.00	6957.07	6957.58	6958.32	6959.42	6961.17	6964.23	6970.27	6985.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.00	.05	.09	.18	.41	.59	1.05	2.79	3.37
OUTFLOW	.00	.00	86.91	97.15	110.12	127.08	135.21	150.23	183.69	191.22
ELEVATION	6953.00	6955.00	6957.07	6957.58	6958.32	6959.42	6960.00	6961.17	6964.23	6965.00

STORAGE	9.41	9.87	20.97	40.16	68.73
OUTFLOW	234.19	236.31	270.42	302.34	331.19
ELEVATION	6970.00	6970.27	6975.00	6980.00	6985.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN Q. TO 97.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

HYDROGRAPH AT STATION DF#2

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	6953.0	*	1	0808	62	238.	10.5	6970.5	*	1	1616	123	15.	.0	6955.4	
1	0008	2	0.	.0	6953.0	*	1	0816	63	227.	8.4	6969.2	*	1	1624	124	15.	.0	6955.4	
1	0016	3	0.	.0	6953.0	*	1	0824	64	213.	6.4	6967.5	*	1	1632	125	15.	.0	6955.4	
1	0024	4	0.	.0	6953.0	*	1	0832	65	200.	4.5	6966.0	*	1	1640	126	15.	.0	6955.4	
1	0032	5	0.	.0	6953.0	*	1	0840	66	184.	2.8	6964.2	*	1	1648	127	15.	.0	6955.4	
1	0040	6	0.	.0	6953.0	*	1	0848	67	155.	1.3	6961.6	*	1	1656	128	15.	.0	6955.4	
1	0048	7	0.	.0	6953.0	*	1	0856	68	110.	.2	6958.3	*	1	1704	129	15.	.0	6955.4	
1	0056	8	0.	.0	6953.0	*	1	0904	69	0.	.0	6953.0	*	1	1712	130	15.	.0	6955.4	
1	0104	9	0.	.0	6953.0	*	1	0912	70	56.	.0	6956.3	*	1	1720	131	15.	.0	6955.4	
1	0112	10	0.	.0	6953.0	*	1	0920	71	9.	.0	6955.2	*	1	1728	132	15.	.0	6955.4	
1	0120	11	0.	.0	6953.0	*	1	0928	72	48.	.0	6956.1	*	1	1736	133	15.	.0	6955.4	
1	0128	12	0.	.0	6953.0	*	1	0936	73	16.	.0	6955.4	*	1	1744	134	15.	.0	6955.4	
1	0136	13	0.	.0	6953.0	*	1	0944	74	42.	.0	6956.0	*	1	1752	135	15.	.0	6955.4	
1	0144	14	0.	.0	6953.0	*	1	0952	75	20.	.0	6955.5	*	1	1800	136	15.	.0	6955.4	
1	0152	15	0.	.0	6953.0	*	1	1000	76	37.	.0	6955.9	*	1	1808	137	15.	.0	6955.4	
1	0200	16	0.	.0	6953.0	*	1	1008	77	21.	.0	6955.5	*	1	1816	138	15.	.0	6955.4	

CUMULATIVE AREA = .60 SQ MI

1

STATION DF#2

(I) INFLOW, (O) OUTFLOW

		0.	200.	400.	600.	800.	1000.	0.	0.	0.	0.	0.	0.	0.	0.
		0.	0.	0.	0.	0.	0.	0.	10.	20.	30.	40.	0.	0.	
	DAHRMN PER														
1	10000 1I							S							
2	10008 2I							S							
3	10016 3I							S							
4	10024 4I							S							
5	10032 5I							S							
6	10040 6I							S							
7	10048 7I							S							
8	10056 8I							S							
9	10104 9I							S							
10	10112 10I							S							
11	10120 11I							S							
12	10128 12I							S							
13	10136 13I							S							
14	10144 14I							S							
15	10152 15I							S							
16	10200 16I							S							
17	10208 17I							S							
18	10216 18I							S							
19	10224 19I							S							
20	10232 20I							S							
21	10240 21I							S							
22	10248 22I							S							
23	10256 23I							S							
24	10304 24I							S							
25	10312 25I							S							
26	10320 26I							S							
27	10328 27I							S							
28	10336 28I							S							
29	10344 29I							S							
30	10352 30I							S							
31	10400 31I							S							
32	10408 32I							S							
33	10416 33I							S							
34	10424 34I							S							
35	10432 35I							S							
36	10440 36I							S							
37	10448 37I							S							
38	10456 38I							S							
39	10504 39I							S							
40	10512 40I							S							
41	10520 41. I.							S							
42	10528 42. OI							S							
43	10536 43. O I							S							
44	10544 44. O I							S							
45	10552 45. O I							S							
46	10600 46. O I							S							
47	10608 47. O I							S							
48	10616 48. O I							S							
49	10624 49. O I							S							
50	10632 50. OI							S							
51	10640 51. I. O							S							
52	10648 52. I O							S							
53	10656 53. I O							S							
54	10704 54. I O							S							
55	10712 55. I O							S							
56	10720 56. I O							S							
57	10728 57. I O							S							

FORM 4-71 5-68

[illegible]

FORM 1041-10-100

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THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

HYDROGRAPH AT STATION DF#3

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	7075.0	1		0808	62	28.	.2	7077.8	1		1616	123	10.	.1	7077.4
1		0008	2	0.	.0	7075.0	1		0816	63	23.	.2	7077.7	1		1624	124	10.	.1	7077.4
1		0016	3	0.	.0	7075.0	1		0824	64	21.	.2	7077.7	1		1632	125	10.	.1	7077.4
1		0024	4	0.	.0	7075.0	1		0832	65	20.	.2	7077.6	1		1640	126	10.	.1	7077.4
1		0032	5	0.	.0	7075.0	1		0840	66	19.	.2	7077.6	1		1648	127	10.	.1	7077.4
1		0040	6	0.	.0	7075.0	1		0848	67	19.	.2	7077.6	1		1656	128	10.	.1	7077.4
1		0048	7	0.	.0	7075.0	1		0856	68	19.	.2	7077.6	1		1704	129	10.	.1	7077.4
1		0056	8	0.	.0	7075.0	1		0904	69	19.	.2	7077.6	1		1712	130	10.	.1	7077.4
1		0104	9	0.	.0	7075.0	1		0912	70	19.	.2	7077.6	1		1720	131	10.	.1	7077.4
1		0112	10	0.	.0	7075.0	1		0920	71	19.	.2	7077.6	1		1728	132	10.	.1	7077.4
1		0120	11	0.	.0	7075.0	1		0928	72	19.	.2	7077.6	1		1736	133	10.	.1	7077.4
1		0128	12	0.	.0	7075.0	1		0936	73	19.	.2	7077.6	1		1744	134	10.	.1	7077.4
1		0136	13	0.	.0	7075.0	1		0944	74	19.	.2	7077.6	1		1752	135	10.	.1	7077.4
1		0144	14	0.	.0	7075.0	1		0952	75	18.	.2	7077.6	1		1800	136	10.	.1	7077.4
1		0152	15	0.	.0	7075.0	1		1000	76	18.	.2	7077.6	1		1808	137	10.	.1	7077.4
1		0200	16	0.	.0	7075.0	1		1008	77	16.	.2	7077.6	1		1816	138	10.	.1	7077.4
1		0208	17	0.	.0	7075.0	1		1016	78	15.	.2	7077.5	1		1824	139	10.	.1	7077.4
1		0216	18	0.	.0	7075.0	1		1024	79	15.	.2	7077.5	1		1832	140	10.	.1	7077.4
1		0224	19	0.	.0	7075.0	1		1032	80	14.	.2	7077.5	1		1840	141	10.	.1	7077.4
1		0232	20	0.	.0	7075.0	1		1040	81	14.	.2	7077.5	1		1848	142	10.	.1	7077.4
1		0240	21	0.	.0	7075.0	1		1048	82	14.	.2	7077.5	1		1856	143	10.	.1	7077.4
1		0248	22	0.	.0	7075.0	1		1056	83	14.	.2	7077.5	1		1904	144	10.	.1	7077.4
1		0256	23	0.	.0	7075.0	1		1104	84	14.	.2	7077.5	1		1912	145	10.	.1	7077.4
1		0304	24	0.	.0	7075.0	1		1112	85	14.	.2	7077.5	1		1920	146	10.	.1	7077.4
1		0312	25	0.	.0	7075.0	1		1120	86	14.	.2	7077.5	1		1928	147	10.	.1	7077.4
1		0320	26	0.	.0	7075.0	1		1128	87	14.	.2	7077.5	1		1936	148	10.	.1	7077.4
1		0328	27	0.	.0	7075.0	1		1136	88	14.	.2	7077.5	1		1944	149	10.	.1	7077.4
1		0336	28	0.	.0	7075.0	1		1144	89	14.	.2	7077.5	1		1952	150	9.	.1	7077.4
1		0344	29	0.	.0	7075.0	1		1152	90	14.	.2	7077.5	1		2000	151	9.	.1	7077.4
1		0352	30	0.	.0	7075.0	1		1200	91	14.	.2	7077.5	1		2008	152	7.	.1	7077.4
1		0400	31	0.	.0	7075.0	1		1208	92	14.	.2	7077.5	1		2016	153	6.	.1	7077.4
1		0408	32	0.	.0	7075.0	1		1216	93	14.	.2	7077.5	1		2024	154	5.	.1	7077.4
1		0416	33	0.	.0	7075.0	1		1224	94	14.	.2	7077.5	1		2032	155	5.	.1	7077.4
1		0424	34	0.	.0	7075.0	1		1232	95	14.	.2	7077.5	1		2040	156	5.	.1	7077.3
1		0432	35	0.	.0	7075.0	1		1240	96	14.	.2	7077.5	1		2048	157	5.	.1	7077.3
1		0440	36	0.	.0	7075.0	1		1248	97	14.	.2	7077.5	1		2056	158	5.	.1	7077.3
1		0448	37	0.	.0	7075.0	1		1256	98	14.	.2	7077.5	1		2104	159	5.	.1	7077.3
1		0456	38	0.	.0	7075.0	1		1304	99	14.	.2	7077.5	1		2112	160	5.	.1	7077.3
1		0504	39	0.	.0	7075.0	1		1312	100	13.	.1	7077.5	1		2120	161	5.	.1	7077.3
1		0512	40	0.	.0	7075.0	1		1320	101	13.	.1	7077.5	1		2128	162	5.	.1	7077.3
1		0520	41	0.	.1	7077.2	1		1328	102	12.	.1	7077.5	1		2136	163	5.	.1	7077.3
1		0528	42	63.	.4	7078.5	1		1336	103	12.	.1	7077.5	1		2144	164	5.	.1	7077.3
1		0536	43	148.	1.5	7081.0	1		1344	104	12.	.1	7077.5	1		2152	165	5.	.1	7077.3
1		0544	44	198.	4.4	7083.9	1		1352	105	12.	.1	7077.5	1		2200	166	5.	.1	7077.3
1		0552	45	233.	8.8	7086.6	1		1400	106	12.	.1	7077.5	1		2208	167	5.	.1	7077.3
1		0600	46	254.	12.9	7088.3	1		1408	107	12.	.1	7077.5	1		2216	168	5.	.1	7077.3
1		0608	47	264.	15.0	7089.2	1		1416	108	12.	.1	7077.5	1		2224	169	5.	.1	7077.3
1		0616	48	265.	15.2	7089.3	1		1424	109	11.	.1	7077.5	1		2232	170	5.	.1	7077.3
1		0624	49	261.	14.4	7089.0	1		1432	110	11.	.1	7077.5	1		2240	171	5.	.1	7077.3
1		0632	50	254.	13.0	7088.4	1		1440	111	11.	.1	7077.5	1		2248	172	5.	.1	7077.4
1		0640	51	246.	11.3	7087.7	1		1448	112	11.	.1	7077.5	1		2256	173	5.	.1	7077.4
1		0648	52	237.	9.5	7086.9	1		1456	113	11.	.1	7077.5	1		2304	174	5.	.1	7077.3
1		0656	53	227.	7.7	7086.1	1		1504	114	11.	.1	7077.5	1		2312	175	5.	.1	7077.3
1		0704	54	211.	5.8	7084.9	1		1512	115	10.	.1	7077.5	1		2320	176	4.	.1	7077.3
1		0712	55	194.	4.1	7083.7	1		1520	116	10.	.1	7077.4	1		2328	177	4.	.1	7077.3
1		0720	56	171.	2.5	7082.2	1		1528	117	10.	.1	7077.4	1		2336	178	5.	.1	7077.3
1		0728	57	139.	1.3	7080.6	1		1536	118	10.	.1	7077.4	1						

[illegible]

11208	98.I	.	.	.	S
11304	99.I	.	.	.	S
11312	100.I	.	.	.	S
11320	101.I.	.	.	.	S
11328	102.I	.	.	.	S
11336	103.I	.	.	.	S
11344	104.I	.	.	.	S
11352	105.I	.	.	.	S
11400	106.I	.	.	.	S
11408	107.I	.	.	.	S
11416	108.I	.	.	.	S
11424	109.I	.	.	.	S
11432	110.I	.	.	.	S
11440	111.I.	.	.	.	S
11448	112.I	.	.	.	S
11456	113.I	.	.	.	S
11504	114.I	.	.	.	S
11512	115.I	.	.	.	S
11520	116.I	.	.	.	S
11528	117.I	.	.	.	S
11536	118.I	.	.	.	S
11544	119.I	.	.	.	S
11552	120.I	.	.	.	S
11600	121.I.	.	.	.	S
11608	122.I	.	.	.	S
11616	123.I	.	.	.	S
11624	124.I	.	.	.	S
11632	125.I	.	.	.	S
11640	126.I	.	.	.	S
11648	127.I	.	.	.	S
11656	128.I	.	.	.	S
11704	129.I	.	.	.	S
11712	130.I	.	.	.	S
11720	131.I.	.	.	.	S
11728	132.I	.	.	.	S
11736	133.I	.	.	.	S
11744	134.I	.	.	.	S
11752	135.I	.	.	.	S
11800	136.I	.	.	.	S
11808	137.I	.	.	.	S
11816	138.I	.	.	.	S
11824	139.I	.	.	.	S
11832	140.I	.	.	.	S
11840	141.I.	.	.	.	S
11848	142.I	.	.	.	S
11856	143.I	.	.	.	S
11904	144.I	.	.	.	S
11912	145.I	.	.	.	S
11920	146.I	.	.	.	S
11928	147.I	.	.	.	S
11936	148.I	.	.	.	S
11944	149.I	.	.	.	S
11952	150.I	.	.	.	S
12000	151.I.	.	.	.	S
12008	152.I	.	.	.	S
12016	153.I	.	.	.	S
12024	154.I	.	.	.	S
12032	155.I	.	.	.	S
12040	156.I	.	.	.	S
12048	157.I	.	.	.	S
12056	158.I	.	.	.	S
12064	159.I	.	.	.	S
12112	160.I	.	.	.	S
12120	161.I	.	.	.	S
12128	162.I	.	.	.	S
12136	163.I	.	.	.	S

STORAGE	.00	4.29	15.88	35.02
ELEVATION	7015.00	7023.00	7028.00	7033.00

COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	.00	475.00	509.59	549.61	596.47	652.05	719.04	801.39	905.03
ELEVATION	7015.00	7019.00	7022.86	7023.44	7024.16	7025.08	7026.27	7027.84	7029.98	7033.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.54	4.07	4.29	5.02	6.34	8.22	11.00	15.38	15.88
OUTFLOW	.00	.00	475.00	483.76	509.59	549.61	596.47	652.05	719.04	725.64
ELEVATION	7015.00	7019.00	7022.86	7023.00	7023.44	7024.16	7025.08	7026.27	7027.84	7028.00

STORAGE	22.56	35.02
OUTFLOW	801.39	905.03
ELEVATION	7029.98	7033.00

HYDROGRAPH AT STATION DF#4

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	7015.0	* 1	0808	62	74.	1.1	7019.6	* 1	1616	123	20.	.7	7019.2			
1	0008	2	0.	.0	7015.0	* 1	0816	63	65.	1.0	7019.5	* 1	1624	124	20.	.7	7019.2			
1	0016	3	0.	.0	7015.0	* 1	0824	64	56.	1.0	7019.5	* 1	1632	125	20.	.7	7019.2			
1	0024	4	0.	.0	7015.0	* 1	0832	65	50.	.9	7019.4	* 1	1640	126	20.	.7	7019.2			
1	0032	5	0.	.0	7015.0	* 1	0840	66	46.	.9	7019.4	* 1	1648	127	20.	.7	7019.2			
1	0040	6	0.	.0	7015.0	* 1	0848	67	43.	.9	7019.3	* 1	1656	128	20.	.7	7019.2			
1	0048	7	0.	.0	7015.0	* 1	0856	68	41.	.8	7019.3	* 1	1704	129	20.	.7	7019.2			
1	0056	8	0.	.0	7015.0	* 1	0904	69	41.	.8	7019.3	* 1	1712	130	20.	.7	7019.2			
1	0104	9	0.	.0	7015.0	* 1	0912	70	40.	.8	7019.3	* 1	1720	131	20.	.7	7019.2			
1	0112	10	0.	.0	7015.0	* 1	0920	71	40.	.8	7019.3	* 1	1728	132	20.	.7	7019.2			
1	0120	11	0.	.0	7015.0	* 1	0928	72	39.	.8	7019.3	* 1	1736	133	20.	.7	7019.2			
1	0128	12	0.	.0	7015.0	* 1	0936	73	39.	.8	7019.3	* 1	1744	134	20.	.7	7019.2			
1	0136	13	0.	.0	7015.0	* 1	0944	74	39.	.8	7019.3	* 1	1752	135	20.	.7	7019.2			
1	0144	14	0.	.0	7015.0	* 1	0952	75	39.	.8	7019.3	* 1	1800	136	20.	.7	7019.2			
1	0152	15	0.	.0	7015.0	* 1	1000	76	38.	.8	7019.3	* 1	1808	137	20.	.7	7019.2			
1	0200	16	0.	.0	7015.0	* 1	1008	77	37.	.8	7019.3	* 1	1816	138	20.	.7	7019.2			
1	0208	17	0.	.0	7015.0	* 1	1016	78	35.	.8	7019.3	* 1	1824	139	20.	.7	7019.2			
1	0216	18	0.	.0	7015.0	* 1	1024	79	33.	.8	7019.3	* 1	1832	140	20.	.7	7019.2			
1	0224	19	0.	.0	7015.0	* 1	1032	80	32.	.8	7019.3	* 1	1840	141	20.	.7	7019.2			
1	0232	20	0.	.0	7015.0	* 1	1040	81	31.	.8	7019.3	* 1	1848	142	20.	.7	7019.2			
1	0240	21	0.	.0	7015.0	* 1	1048	82	30.	.8	7019.2	* 1	1856	143	20.	.7	7019.2			
1	0248	22	0.	.0	7015.0	* 1	1056	83	30.	.8	7019.2	* 1	1904	144	20.	.7	7019.2			
1	0256	23	0.	.0	7015.0	* 1	1104	84	30.	.8	7019.2	* 1	1912	145	20.	.7	7019.2			
1	0304	24	0.	.0	7015.0	* 1	1112	85	30.	.8	7019.2	* 1	1920	146	20.	.7	7019.2			
1	0312	25	0.	.0	7015.0	* 1	1120	86	30.	.8	7019.2	* 1	1928	147	20.	.7	7019.2			
1	0320	26	0.	.0	7015.0	* 1	1128	87	29.	.8	7019.2	* 1	1936	148	20.	.7	7019.2			
1	0328	27	0.	.0	7015.0	* 1	1136	88	29.	.8	7019.2	* 1	1944	149	20.	.7	7019.2			
1	0336	28	0.	.0	7015.0	* 1	1144	89	29.	.8	7019.2	* 1	1952	150	20.	.7	7019.2			
1	0344	29	0.	.0	7015.0	* 1	1152	90	29.	.8	7019.2	* 1	2000	151	19.	.7	7019.2			
1	0352	30	0.	.0	7015.0	* 1	1200	91	29.	.8	7019.2	* 1	2008	152	18.	.7	7019.1			
1	0400	31	0.	.0	7015.0	* 1	1208	92	29.	.8	7019.2	* 1	2016	153	16.	.7	7019.1			
1	0408	32	0.	.0	7015.0	* 1	1216	93	29.	.8	7019.2	* 1	2024	154	14.	.6	7019.1			
1	0416	33	0.	.0	7015.0	* 1	1224	94	29.	.8	7019.2	* 1	2032	155	13.	.6	7019.1			
1	0424	34	0.	.0	7015.0	* 1	1232	95	29.	.8	7019.2	* 1	2040	156	12.	.6	7019.1			
1	0432	35	0.	.0	7015.0	* 1	1240	96	29.	.8	7019.2	* 1	2048	157	11.	.6	7019.1			
1	0440	36	0.	.0	7015.0	* 1	1248	97	29.	.8	7019.2	* 1	2056	158	11.	.6	7019.1			
1	0448	37	0.	.0	7015.0	* 1	1256	98	29.	.8	7019.2	* 1	2104	159	10.	.6	7019.1			
1	0456	38	0.	.0	7015.0	* 1	1304	99	29.	.8	7019.2	* 1	2112	160	10.	.6	7019.1			

1	0504	39	0.	.0	7015.1	*	1	1312	100	27.	.7	7019.2	*	1	2112	160	10.	.6	7019.1
1	0512	40	0.	.0	7015.3	*	1	1320	101	28.	.7	7019.2	*	1	2120	161	10.	.6	7019.1
1	0520	41	0.	.2	7016.2	*	1	1328	102	27.	.7	7019.2	*	1	2128	162	10.	.6	7019.1
1	0528	42	27.	.7	7019.2	*	1	1336	103	26.	.7	7019.2	*	1	2136	163	10.	.6	7019.1
1	0536	43	191.	2.0	7020.5	*	1	1344	104	26.	.7	7019.2	*	1	2144	164	10.	.6	7019.1
1	0544	44	405.	3.5	7022.3	*	1	1352	105	26.	.7	7019.2	*	1	2152	165	10.	.6	7019.1
1	0552	45	530.	5.7	7023.8	*	1	1400	106	26.	.7	7019.2	*	1	2200	166	10.	.6	7019.1
1	0600	46	600.	8.4	7025.1	*	1	1408	107	25.	.7	7019.2	*	1	2208	167	10.	.6	7019.1
1	0608	47	648.	10.8	7026.2	*	1	1416	108	25.	.7	7019.2	*	1	2216	168	10.	.6	7019.1
1	0616	48	669.	12.1	7026.7	*	1	1424	109	24.	.7	7019.2	*	1	2224	169	10.	.6	7019.1
1	0624	49	671.	12.3	7026.7	*	1	1432	110	24.	.7	7019.2	*	1	2232	170	10.	.6	7019.1
1	0632	50	657.	11.3	7026.4	*	1	1440	111	24.	.7	7019.2	*	1	2240	171	10.	.6	7019.1
1	0640	51	626.	9.7	7025.7	*	1	1448	112	24.	.7	7019.2	*	1	2248	172	10.	.6	7019.1
1	0648	52	585.	7.7	7024.9	*	1	1456	113	24.	.7	7019.2	*	1	2256	173	11.	.6	7019.1
1	0656	53	532.	5.8	7023.8	*	1	1504	114	23.	.7	7019.2	*	1	2304	174	11.	.6	7019.1
1	0704	54	465.	4.0	7022.8	*	1	1512	115	23.	.7	7019.2	*	1	2312	175	10.	.6	7019.1
1	0712	55	325.	3.0	7021.6	*	1	1520	116	22.	.7	7019.2	*	1	2320	176	10.	.6	7019.1
1	0720	56	274.	2.6	7021.2	*	1	1528	117	21.	.7	7019.2	*	1	2328	177	9.	.6	7019.1
1	0728	57	235.	2.3	7020.9	*	1	1536	118	21.	.7	7019.2	*	1	2336	178	9.	.6	7019.1
1	0736	58	187.	1.9	7020.5	*	1	1544	119	20.	.7	7019.2	*	1	2344	179	10.	.6	7019.1
1	0744	59	134.	1.5	7020.1	*	1	1552	120	20.	.7	7019.2	*	2	2352	180	10.	.6	7019.1
1	0752	60	97.	1.3	7019.8	*	1	1600	121	20.	.7	7019.2	*		0000	181	9.	.6	7019.1
1	0800	61	82.	1.1	7019.7	*	1	1608	122	20.	.7	7019.2	*						

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

+ (CFS) (HR) 6-HR 24-HR 72-HR 24.00-HR

+ 671. 6.40 199. 60. 60. 60.

(INCHES) 2.408 2.899 2.899 2.899

(AC-FT) 99 119. 119. 119.

PEAK STORAGE TIME MAXIMUM AVERAGE STORAGE

+ (AC-FT) (HR) 6-HR 24-HR 72-HR 24.00-HR

12. 6.40 3. 1. 1. 1.

PEAK STAGE TIME MAXIMUM AVERAGE STAGE

+ (FEET) (HR) 6-HR 24-HR 72-HR 24.00-HR

7026.72 6.40 7020.91 7018.68 7018.68 7018.68

CUMULATIVE AREA = .77 SQ MI

1 STATION DF#4

(I) INFLOW, (O) OUTFLOW

0. 100. 200. 300. 400. 500. 600. 700. 800. 900. 0. 0. 0.

(S) STORAGE

0. 0. 0. 0. 0. 0. 0. 4. 8. 12. 16. 0. 0.

DAHRMN PER

10000 1I

10008 2I

10016 3I

10024 4I

10032 5I

10040 6I

10048 7I

10056 8I

10104 9I

10112 10I

10120 11I

10128 12I

10136 13I

LOW-LEVEL OUTLET

ELEV 6987.25 ELEVATION AT CENTER OF OUTLET
 CAREA 33.18 CROSS-SECTIONAL AREA
 COQL .60 COEFFICIENT
 EXPL .50 EXPONENT OF HEAD

120 SS

SPILLWAY

CREL 6999.00 SPILLWAY CREST ELEVATION
 SPWID .00 SPILLWAY WIDTH
 COQW .00 WEIR COEFFICIENT
 EXPW 1.50 EXPONENT OF HEAD

COMPUTED STORAGE-ELEVATION DATA

| STORAGE | .00 | 1.83 | 8.70 | 29.46 |
|-----------|---------|---------|---------|---------|
| ELEVATION | 6984.00 | 6989.00 | 6994.00 | 6999.00 |

COMPUTED OUTFLOW-ELEVATION DATA

| OUTFLOW | .00 | .00 | 282.95 | 303.91 | 328.25 | 356.82 | 390.82 | 432.01 | 482.89 | 547.34 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ELEVATION | 6984.00 | 6987.25 | 6990.39 | 6990.87 | 6991.48 | 6992.24 | 6993.24 | 6994.57 | 6996.40 | 6999.00 |

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

| STORAGE | .00 | .50 | 1.83 | 3.46 | 4.08 | 4.88 | 5.96 | 7.47 | 8.70 | 9.77 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| OUTFLOW | .00 | .00 | 211.23 | 282.95 | 303.91 | 328.25 | 356.82 | 390.82 | 414.85 | 432.01 |
| ELEVATION | 6984.00 | 6987.25 | 6989.00 | 6990.39 | 6990.87 | 6991.48 | 6992.24 | 6993.24 | 6994.00 | 6994.57 |

| STORAGE | 15.15 | 29.46 |
|-----------|---------|---------|
| OUTFLOW | 482.89 | 547.34 |
| ELEVATION | 6996.40 | 6999.00 |

HYDROGRAPH AT STATION DF#5

| DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE |
|----|------|------|-----|---------|---------|-------|----|------|------|------|---------|---------|-------|----|------|------|-----|---------|---------|-------|
| 1 | 0000 | 1 | 0. | .0 | 6984.0 | * | 1 | 0808 | 62 | 213. | 1.9 | 6989.0 | * | 1 | 1616 | 123 | 21. | .6 | 6987.4 | |
| 1 | 0008 | 2 | 0. | .0 | 6984.0 | * | 1 | 0816 | 63 | 85. | 1.0 | 6988.0 | * | 1 | 1624 | 124 | 21. | .6 | 6987.4 | |
| 1 | 0016 | 3 | 0. | .0 | 6984.0 | * | 1 | 0824 | 64 | 65. | .9 | 6987.8 | * | 1 | 1632 | 125 | 21. | .6 | 6987.4 | |
| 1 | 0024 | 4 | 0. | .0 | 6984.0 | * | 1 | 0832 | 65 | 57. | .9 | 6987.7 | * | 1 | 1640 | 126 | 21. | .6 | 6987.4 | |
| 1 | 0032 | 5 | 0. | .0 | 6984.0 | * | 1 | 0840 | 66 | 51. | .8 | 6987.7 | * | 1 | 1648 | 127 | 21. | .6 | 6987.4 | |
| 1 | 0040 | 6 | 0. | .0 | 6984.0 | * | 1 | 0848 | 67 | 47. | .8 | 6987.6 | * | 1 | 1656 | 128 | 21. | .6 | 6987.4 | |
| 1 | 0048 | 7 | 0. | .0 | 6984.0 | * | 1 | 0856 | 68 | 45. | .8 | 6987.6 | * | 1 | 1704 | 129 | 21. | .6 | 6987.4 | |
| 1 | 0056 | 8 | 0. | .0 | 6984.0 | * | 1 | 0904 | 69 | 43. | .8 | 6987.6 | * | 1 | 1712 | 130 | 21. | .6 | 6987.4 | |
| 1 | 0104 | 9 | 0. | .0 | 6984.0 | * | 1 | 0912 | 70 | 42. | .8 | 6987.6 | * | 1 | 1720 | 131 | 21. | .6 | 6987.4 | |
| 1 | 0112 | 10 | 0. | .0 | 6984.0 | * | 1 | 0920 | 71 | 42. | .8 | 6987.6 | * | 1 | 1728 | 132 | 21. | .6 | 6987.4 | |
| 1 | 0120 | 11 | 0. | .0 | 6984.0 | * | 1 | 0928 | 72 | 41. | .8 | 6987.6 | * | 1 | 1736 | 133 | 21. | .6 | 6987.4 | |
| 1 | 0128 | 12 | 0. | .0 | 6984.0 | * | 1 | 0936 | 73 | 41. | .8 | 6987.6 | * | 1 | 1744 | 134 | 21. | .6 | 6987.4 | |
| 1 | 0136 | 13 | 0. | .0 | 6984.0 | * | 1 | 0944 | 74 | 41. | .8 | 6987.6 | * | 1 | 1752 | 135 | 21. | .6 | 6987.4 | |
| 1 | 0144 | 14 | 0. | .0 | 6984.0 | * | 1 | 0952 | 75 | 41. | .8 | 6987.6 | * | 1 | 1800 | 136 | 21. | .6 | 6987.4 | |
| 1 | 0152 | 15 | 0. | .0 | 6984.0 | * | 1 | 1000 | 76 | 40. | .8 | 6987.6 | * | 1 | 1808 | 137 | 21. | .6 | 6987.4 | |
| 1 | 0200 | 16 | 0. | .0 | 6984.0 | * | 1 | 1008 | 77 | 39. | .8 | 6987.6 | * | 1 | 1816 | 138 | 21. | .6 | 6987.4 | |
| 1 | 0208 | 17 | 0. | .0 | 6984.0 | * | 1 | 1016 | 78 | 38. | .7 | 6987.6 | * | 1 | 1824 | 139 | 21. | .6 | 6987.4 | |
| 1 | 0216 | 18 | 0. | .0 | 6984.0 | * | 1 | 1024 | 79 | 36. | .7 | 6987.5 | * | 1 | 1832 | 140 | 21. | .6 | 6987.4 | |
| 1 | 0224 | 19 | 0. | .0 | 6984.0 | * | 1 | 1032 | 80 | 34. | .7 | 6987.5 | * | 1 | 1840 | 141 | 21. | .6 | 6987.4 | |
| 1 | 0232 | 20 | 0. | .0 | 6984.0 | * | 1 | 1040 | 81 | 33. | .7 | 6987.5 | * | 1 | 1848 | 142 | 21. | .6 | 6987.4 | |
| 1 | 0240 | 21 | 0. | .0 | 6984.0 | * | 1 | 1048 | 82 | 32. | .7 | 6987.5 | * | 1 | 1856 | 143 | 21. | .6 | 6987.4 | |
| 1 | 0248 | 22 | 0. | .0 | 6984.0 | * | 1 | 1056 | 83 | 31. | .7 | 6987.5 | * | 1 | 1904 | 144 | 21. | .6 | 6987.4 | |

| | | | | | | | | | | | | | | | | | | | |
|---|------|----|------|------|--------|---|---|------|-----|-----|----|--------|---|---|------|-----|-----|----|--------|
| 1 | 0300 | 20 | 0. | 0. | 6984.0 | * | 1 | 1104 | 84 | 31. | .7 | 6987.5 | * | 1 | 1912 | 145 | 21. | .6 | 6987.4 |
| 1 | 0304 | 24 | 0. | 0. | 6984.0 | * | 1 | 1112 | 85 | 31. | .7 | 6987.5 | * | 1 | 1920 | 146 | 21. | .6 | 6987.4 |
| 1 | 0312 | 25 | 0. | 0. | 6984.0 | * | 1 | 1120 | 86 | 31. | .7 | 6987.5 | * | 1 | 1928 | 147 | 21. | .6 | 6987.4 |
| 1 | 0320 | 26 | 0. | 0. | 6984.0 | * | 1 | 1128 | 87 | 31. | .7 | 6987.5 | * | 1 | 1936 | 148 | 21. | .6 | 6987.4 |
| 1 | 0328 | 27 | 0. | 0. | 6984.0 | * | 1 | 1136 | 88 | 31. | .7 | 6987.5 | * | 1 | 1944 | 149 | 21. | .6 | 6987.4 |
| 1 | 0336 | 28 | 0. | 0. | 6984.0 | * | 1 | 1144 | 89 | 31. | .7 | 6987.5 | * | 1 | 1952 | 150 | 21. | .6 | 6987.4 |
| 1 | 0344 | 29 | 0. | 0. | 6984.0 | * | 1 | 1152 | 90 | 31. | .7 | 6987.5 | * | 1 | 2000 | 151 | 20. | .6 | 6987.4 |
| 1 | 0352 | 30 | 0. | 0. | 6984.0 | * | 1 | 1200 | 91 | 31. | .7 | 6987.5 | * | 1 | 2008 | 152 | 19. | .6 | 6987.4 |
| 1 | 0400 | 31 | 0. | 0. | 6984.0 | * | 1 | 1208 | 92 | 31. | .7 | 6987.5 | * | 1 | 2016 | 153 | 18. | .6 | 6987.4 |
| 1 | 0408 | 32 | 0. | 0. | 6984.0 | * | 1 | 1216 | 93 | 31. | .7 | 6987.5 | * | 1 | 2024 | 154 | 16. | .6 | 6987.4 |
| 1 | 0416 | 33 | 0. | 0. | 6984.0 | * | 1 | 1224 | 94 | 31. | .7 | 6987.5 | * | 1 | 2032 | 155 | 14. | .6 | 6987.4 |
| 1 | 0424 | 34 | 0. | 0. | 6984.0 | * | 1 | 1232 | 95 | 31. | .7 | 6987.5 | * | 1 | 2040 | 156 | 13. | .6 | 6987.4 |
| 1 | 0432 | 35 | 0. | 0. | 6984.0 | * | 1 | 1240 | 96 | 30. | .7 | 6987.5 | * | 1 | 2048 | 157 | 12. | .6 | 6987.4 |
| 1 | 0440 | 36 | 0. | 0. | 6984.0 | * | 1 | 1248 | 97 | 31. | .7 | 6987.5 | * | 1 | 2056 | 158 | 11. | .6 | 6987.3 |
| 1 | 0448 | 37 | 0. | 0. | 6984.0 | * | 1 | 1256 | 98 | 30. | .7 | 6987.5 | * | 1 | 2104 | 159 | 11. | .6 | 6987.3 |
| 1 | 0456 | 38 | 0. | 0. | 6984.0 | * | 1 | 1304 | 99 | 30. | .7 | 6987.5 | * | 1 | 2112 | 160 | 11. | .6 | 6987.3 |
| 1 | 0504 | 39 | 0. | 0. | 6984.0 | * | 1 | 1312 | 100 | 30. | .7 | 6987.5 | * | 1 | 2120 | 161 | 11. | .6 | 6987.3 |
| 1 | 0512 | 40 | 0. | 0. | 6984.0 | * | 1 | 1320 | 101 | 29. | .7 | 6987.5 | * | 1 | 2128 | 162 | 11. | .6 | 6987.3 |
| 1 | 0520 | 41 | 0. | 0. | 6984.0 | * | 1 | 1328 | 102 | 28. | .7 | 6987.5 | * | 1 | 2136 | 163 | 11. | .6 | 6987.3 |
| 1 | 0528 | 42 | 0. | .1 | 6984.9 | * | 1 | 1336 | 103 | 28. | .7 | 6987.5 | * | 1 | 2144 | 164 | 11. | .6 | 6987.3 |
| 1 | 0536 | 43 | 69. | .9 | 6987.8 | * | 1 | 1344 | 104 | 27. | .7 | 6987.5 | * | 1 | 2152 | 165 | 10. | .6 | 6987.3 |
| 1 | 0544 | 44 | 243. | 2.5 | 6989.6 | * | 1 | 1352 | 105 | 27. | .7 | 6987.5 | * | 1 | 2200 | 166 | 10. | .6 | 6987.3 |
| 1 | 0552 | 45 | 326. | 4.8 | 6991.4 | * | 1 | 1400 | 106 | 27. | .7 | 6987.5 | * | 1 | 2208 | 167 | 10. | .6 | 6987.3 |
| 1 | 0600 | 46 | 391. | 7.5 | 6993.2 | * | 1 | 1408 | 107 | 26. | .7 | 6987.5 | * | 1 | 2216 | 168 | 10. | .6 | 6987.3 |
| 1 | 0608 | 47 | 436. | 10.2 | 6994.7 | * | 1 | 1416 | 108 | 26. | .7 | 6987.5 | * | 1 | 2224 | 169 | 10. | .6 | 6987.3 |
| 1 | 0616 | 48 | 460. | 12.8 | 6995.6 | * | 1 | 1424 | 109 | 26. | .7 | 6987.5 | * | 1 | 2232 | 170 | 10. | .6 | 6987.3 |
| 1 | 0624 | 49 | 483. | 15.2 | 6996.4 | * | 1 | 1432 | 110 | 25. | .7 | 6987.5 | * | 1 | 2240 | 171 | 10. | .6 | 6987.3 |
| 1 | 0632 | 50 | 493. | 17.3 | 6996.8 | * | 1 | 1440 | 111 | 25. | .7 | 6987.5 | * | 1 | 2248 | 172 | 11. | .6 | 6987.3 |
| 1 | 0640 | 51 | 500. | 19.0 | 6997.1 | * | 1 | 1448 | 112 | 25. | .7 | 6987.5 | * | 1 | 2256 | 173 | 11. | .6 | 6987.3 |
| 1 | 0648 | 52 | 506. | 20.3 | 6997.3 | * | 1 | 1456 | 113 | 25. | .7 | 6987.5 | * | 1 | 2304 | 174 | 11. | .6 | 6987.3 |
| 1 | 0656 | 53 | 509. | 20.9 | 6997.4 | * | 1 | 1504 | 114 | 24. | .7 | 6987.5 | * | 1 | 2312 | 175 | 11. | .6 | 6987.3 |
| 1 | 0704 | 54 | 509. | 20.9 | 6997.4 | * | 1 | 1512 | 115 | 24. | .7 | 6987.4 | * | 1 | 2320 | 176 | 11. | .6 | 6987.3 |
| 1 | 0712 | 55 | 504. | 19.8 | 6997.2 | * | 1 | 1520 | 116 | 23. | .6 | 6987.4 | * | 1 | 2328 | 177 | 10. | .6 | 6987.3 |
| 1 | 0720 | 56 | 494. | 17.7 | 6996.9 | * | 1 | 1528 | 117 | 22. | .6 | 6987.4 | * | 1 | 2336 | 178 | 10. | .6 | 6987.3 |
| 1 | 0728 | 57 | 483. | 15.2 | 6996.4 | * | 1 | 1536 | 118 | 22. | .6 | 6987.4 | * | 1 | 2344 | 179 | 10. | .6 | 6987.3 |
| 1 | 0736 | 58 | 457. | 12.4 | 6995.5 | * | 1 | 1544 | 119 | 21. | .6 | 6987.4 | * | 1 | 2352 | 180 | 10. | .6 | 6987.3 |
| 1 | 0744 | 59 | 426. | 9.4 | 6994.4 | * | 1 | 1552 | 120 | 21. | .6 | 6987.4 | * | 2 | 0000 | 181 | 10. | .6 | 6987.3 |
| 1 | 0752 | 60 | 366. | 6.4 | 6992.5 | * | 1 | 1600 | 121 | 21. | .6 | 6987.4 | * | | | | | | |
| 1 | 0800 | 61 | 294. | 3.8 | 6990.6 | * | 1 | 1608 | 122 | 21. | .6 | 6987.4 | * | | | | | | |

| PEAK FLOW | TIME | MAXIMUM AVERAGE FLOW | | | |
|-----------|------|----------------------|-------|-------|----------|
| (CFS) | (HR) | 6-HR | 24-HR | 72-HR | 24.00-HR |
| 509. | 6.93 | 204. | 62. | 62. | 62. |
| | | (INCHES) | 2.390 | 2.881 | 2.881 |
| | | (AC-FT) | 101. | 122. | 122. |

| PEAK STORAGE | TIME | MAXIMUM AVERAGE STORAGE | | | |
|--------------|------|-------------------------|-------|-------|----------|
| (AC-FT) | (HR) | 6-HR | 24-HR | 72-HR | 24.00-HR |
| 21. | 6.93 | 6. | 2. | 2. | 2. |

| PEAK STAGE | TIME | MAXIMUM AVERAGE STAGE | | | |
|------------|------|-----------------------|---------|---------|----------|
| (FEET) | (HR) | 6-HR | 24-HR | 72-HR | 24.00-HR |
| 6997.45 | 6.93 | 6990.60 | 6987.44 | 6987.44 | 6987.44 |

CUMULATIVE AREA = .79 SQ MI

STATION DF#5

(I) INFLOW, (O) OUTFLOW

0. 100. 200. 300. 400. 500. 600. 700. 0. 0. 0. 0. 0.

| | | (S) STORAGE | | | | | | | | | | | | | | |
|------------|-------|-------------|----|----|----|----|----|----|----|-----|-----|-----|----|----|----|--|
| DAHRMN PER | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 10. | 20. | 30. | 0. | 0. | 0. | |
| 1 | 10000 | 1I | | | | | | | | | | | | | | |
| 2 | 10008 | 2I | | | | | | | | | | | | | | |
| 3 | 10016 | 3I | | | | | | | | | | | | | | |
| 4 | 10024 | 4I | | | | | | | | | | | | | | |
| 5 | 10032 | 5I | | | | | | | | | | | | | | |
| 6 | 10040 | 6I | | | | | | | | | | | | | | |
| 7 | 10048 | 7I | | | | | | | | | | | | | | |
| 8 | 10056 | 8I | | | | | | | | | | | | | | |
| 9 | 10104 | 9I | | | | | | | | | | | | | | |
| 10 | 10112 | 10I | | | | | | | | | | | | | | |
| 11 | 10120 | 11I | | | | | | | | | | | | | | |
| 12 | 10128 | 12I | | | | | | | | | | | | | | |
| 13 | 10136 | 13I | | | | | | | | | | | | | | |
| 14 | 10144 | 14I | | | | | | | | | | | | | | |
| 15 | 10152 | 15I | | | | | | | | | | | | | | |
| 16 | 10200 | 16I | | | | | | | | | | | | | | |
| 17 | 10208 | 17I | | | | | | | | | | | | | | |
| 18 | 10216 | 18I | | | | | | | | | | | | | | |
| 19 | 10224 | 19I | | | | | | | | | | | | | | |
| 20 | 10232 | 20I | | | | | | | | | | | | | | |
| 21 | 10240 | 21I | | | | | | | | | | | | | | |
| 22 | 10248 | 22I | | | | | | | | | | | | | | |
| 23 | 10256 | 23I | | | | | | | | | | | | | | |
| 24 | 10304 | 24I | | | | | | | | | | | | | | |
| 25 | 10312 | 25I | | | | | | | | | | | | | | |
| 26 | 10320 | 26I | | | | | | | | | | | | | | |
| 27 | 10328 | 27I | | | | | | | | | | | | | | |
| 28 | 10336 | 28I | | | | | | | | | | | | | | |
| 29 | 10344 | 29I | | | | | | | | | | | | | | |
| 30 | 10352 | 30I | | | | | | | | | | | | | | |
| 31 | 10400 | 31I | | | | | | | | | | | | | | |
| 32 | 10408 | 32I | | | | | | | | | | | | | | |
| 33 | 10416 | 33I | | | | | | | | | | | | | | |
| 34 | 10424 | 34I | | | | | | | | | | | | | | |
| 35 | 10432 | 35I | | | | | | | | | | | | | | |
| 36 | 10440 | 36I | | | | | | | | | | | | | | |
| 37 | 10448 | 37I | | | | | | | | | | | | | | |
| 38 | 10456 | 38I | | | | | | | | | | | | | | |
| 39 | 10504 | 39I | | | | | | | | | | | | | | |
| 40 | 10512 | 40I | | | | | | | | | | | | | | |
| 41 | 10520 | 41I | | | | | | | | | | | | | | |
| 42 | 10528 | 420 I | | | | | | | | | | | | | | |
| 43 | 10536 | 43. | | | | | | | | | | | | | | |
| 44 | 10544 | 44. | | | | | | | | | | | | | | |
| 45 | 10552 | 45. | | | | | | | | | | | | | | |
| 46 | 10600 | 46. | | | | | | | | | | | | | | |
| 47 | 10608 | 47. | | | | | | | | | | | | | | |
| 48 | 10616 | 48. | | | | | | | | | | | | | | |
| 49 | 10624 | 49. | | | | | | | | | | | | | | |
| 50 | 10632 | 50. | | | | | | | | | | | | | | |
| 51 | 10640 | 51. | | | | | | | | | | | | | | |
| 52 | 10648 | 52. | | | | | | | | | | | | | | |
| 53 | 10656 | 53. | | | | | | | | | | | | | | |
| 54 | 10704 | 54. | | | | | | | | | | | | | | |
| 55 | 10712 | 55. | | | | | | | | | | | | | | |
| 56 | 10720 | 56. | | | | | | | | | | | | | | |
| 57 | 10728 | 57. | | | | | | | | | | | | | | |
| 58 | 10736 | 58. | | | | | | | | | | | | | | |
| 59 | 10744 | 59. | | | | | | | | | | | | | | |
| 60 | 10752 | 60. | | | | | | | | | | | | | | |
| 61 | 10800 | 61. | | | | | | | | | | | | | | |
| 62 | 10808 | 62. | | | | | | | | | | | | | | |
| 63 | 10816 | 63. | | | | | | | | | | | | | | |

[illegible]

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* *

241 KK * DF#1 *

* *

243 KO OUTPUT CONTROL VARIABLES

IPRNT 1 PRINT CONTROL

IPLOT 2 PLOT CONTROL

QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

244 RS STORAGE ROUTING

NSTPS 1 NUMBER OF SUBREACHES

ITYP STOR TYPE OF INITIAL CONDITION

RSVRIC .00 INITIAL CONDITION

X .00 WORKING R AND D COEFFICIENT

245 SA

AREA

.0

1.5

2.6

4.6

5.6

6.5

246 SE ELEVATION 50.00 55.00 60.00 65.00 70.00 75.00

247 SL LOW-LEVEL OUTLET

ELEV 54.00 ELEVATION AT CENTER OF OUTLET
CAREA 95.03 CROSS-SECTIONAL AREA
COEF .60 COEFFICIENT
EXPL .50 EXPONENT OF HEAD

248 SS

SPILLWAY

CREL 75.00 SPILLWAY CREST ELEVATION
SPWID .00 SPILLWAY WIDTH
COEW .00 WEIR COEFFICIENT
EXPW 1.50 EXPONENT OF HEAD

COMPUTED STORAGE-ELEVATION DATA

| | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|
| STORAGE | .00 | 2.45 | 12.48 | 30.15 | 55.55 | 85.69 |
| ELEVATION | 50.00 | 55.00 | 60.00 | 65.00 | 70.00 | 75.00 |

COMPUTED OUTFLOW-ELEVATION DATA

| | | | | | | | | | | |
|-----------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| OUTFLOW | .00 | .00 | 1055.96 | 1136.50 | 1230.35 | 1341.09 | 1473.74 | 1635.50 | 1837.16 | 2095.54 |
| ELEVATION | 50.00 | 54.00 | 59.33 | 60.18 | 61.24 | 62.60 | 64.39 | 66.79 | 70.14 | 75.00 |

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

| | | | | | | | | | | |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| STORAGE | .00 | 1.25 | 2.45 | 10.31 | 12.48 | 12.95 | 15.97 | 20.44 | 27.44 | 30.15 |
| OUTFLOW | .00 | .00 | 457.28 | 1055.96 | 1120.11 | 1136.50 | 1230.35 | 1341.09 | 1473.74 | 1516.64 |
| ELEVATION | 50.00 | 54.00 | 55.00 | 59.33 | 60.00 | 60.18 | 61.24 | 62.60 | 64.39 | 65.00 |
| STORAGE | 38.66 | 55.55 | 56.34 | 85.69 | | | | | | |
| OUTFLOW | 1635.50 | 1829.14 | 1837.16 | 2095.54 | | | | | | |
| ELEVATION | 66.79 | 70.00 | 70.14 | 75.00 | | | | | | |

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 457.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

HYDROGRAPH AT STATION DF#1

| DA | MON | HR | MIN | ORD | OUTFLOW | STORAGE | STAGE | DA | MON | HR | MIN | ORD | OUTFLOW | STORAGE | STAGE | DA | MON | HR | MIN | ORD | OUTFLOW | STORAGE | STAGE |
|----|------|----|-----|-----|---------|---------|-------|------|-----|-------|------|------|---------|---------|-------|-----|------|-----|------|-----|---------|---------|-------|
| 1 | 0000 | 1 | 0. | .0 | 50.0 | * | 1 | 0808 | 62 | 1293. | 18.5 | 62.0 | * | 1 | 1616 | 123 | 106. | 1.5 | 54.2 | | | | |
| 1 | 0008 | 2 | 0. | .0 | 50.0 | * | 1 | 0816 | 63 | 1159. | 13.7 | 60.4 | * | 1 | 1624 | 124 | 105. | 1.5 | 54.2 | | | | |
| 1 | 0016 | 3 | 0. | .0 | 50.0 | * | 1 | 0824 | 64 | 964. | 9.5 | 58.7 | * | 1 | 1632 | 125 | 104. | 1.5 | 54.2 | | | | |
| 1 | 0024 | 4 | 0. | .0 | 50.0 | * | 1 | 0832 | 65 | 752. | 6.6 | 57.1 | * | 1 | 1640 | 126 | 104. | 1.5 | 54.2 | | | | |
| 1 | 0032 | 5 | 0. | .0 | 50.0 | * | 1 | 0840 | 66 | 617. | 4.7 | 56.2 | * | 1 | 1648 | 127 | 103. | 1.5 | 54.2 | | | | |
| 1 | 0040 | 6 | 0. | .0 | 50.0 | * | 1 | 0848 | 67 | 529. | 3.5 | 55.5 | * | 1 | 1656 | 128 | 103. | 1.5 | 54.2 | | | | |
| 1 | 0048 | 7 | 0. | .0 | 50.0 | * | 1 | 0856 | 68 | 469. | 2.6 | 55.1 | * | 1 | 1704 | 129 | 103. | 1.5 | 54.2 | | | | |
| 1 | 0056 | 8 | 0. | .0 | 50.0 | * | 1 | 0904 | 69 | 369. | 2.2 | 54.8 | * | 1 | 1712 | 130 | 103. | 1.5 | 54.2 | | | | |
| 1 | 0104 | 9 | 0. | .0 | 50.0 | * | 1 | 0912 | 70 | 329. | 2.1 | 54.7 | * | 1 | 1720 | 131 | 103. | 1.5 | 54.2 | | | | |
| 1 | 0112 | 10 | 0. | .0 | 50.0 | * | 1 | 0920 | 71 | 283. | 2.0 | 54.6 | * | 1 | 1728 | 132 | 103. | 1.5 | 54.2 | | | | |
| 1 | 0120 | 11 | 0. | .0 | 50.0 | * | 1 | 0928 | 72 | 253. | 1.9 | 54.6 | * | 1 | 1736 | 133 | 103. | 1.5 | 54.2 | | | | |
| 1 | 0128 | 12 | 0. | .0 | 50.0 | * | 1 | 0936 | 73 | 236. | 1.9 | 54.5 | * | 1 | 1744 | 134 | 102. | 1.5 | 54.2 | | | | |
| 1 | 0136 | 13 | 0. | .0 | 50.0 | * | 1 | 0944 | 74 | 227. | 1.8 | 54.5 | * | 1 | 1752 | 135 | 102. | 1.5 | 54.2 | | | | |
| 1 | 0144 | 14 | 0. | .0 | 50.0 | * | 1 | 0952 | 75 | 222. | 1.8 | 54.5 | * | 1 | 1800 | 136 | 102. | 1.5 | 54.2 | | | | |
| 1 | 0152 | 15 | 0. | .0 | 50.0 | * | 1 | 1000 | 76 | 218. | 1.8 | 54.5 | * | 1 | 1808 | 137 | 102. | 1.5 | 54.2 | | | | |
| 1 | 0200 | 16 | 0. | .0 | 50.0 | * | 1 | 1008 | 77 | 212. | 1.8 | 54.5 | * | 1 | 1816 | 138 | 102. | 1.5 | 54.2 | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|----|---|------|----|-------|------|------|---|---|------|-----|------|-----|------|---|---|------|-----|------|-----|------|
| | 1 | 0208 | 17 | 0. | 0. | 50.0 | * | 1 | 1010 | 70 | 200. | 1.0 | 54.3 | * | 1 | 1824 | 139 | 102. | 1.5 | 54.2 |
| | 1 | 0216 | 18 | 0. | 0. | 50.0 | * | 1 | 1024 | 79 | 199. | 1.8 | 54.4 | * | 1 | 1832 | 140 | 102. | 1.5 | 54.2 |
| | 1 | 0224 | 19 | 0. | 0. | 50.0 | * | 1 | 1032 | 80 | 192. | 1.8 | 54.4 | * | 1 | 1840 | 141 | 102. | 1.5 | 54.2 |
| | 1 | 0232 | 20 | 0. | 0. | 50.0 | * | 1 | 1040 | 81 | 185. | 1.7 | 54.4 | * | 1 | 1848 | 142 | 102. | 1.5 | 54.2 |
| | 1 | 0240 | 21 | 0. | 0. | 50.0 | * | 1 | 1048 | 82 | 179. | 1.7 | 54.4 | * | 1 | 1856 | 143 | 102. | 1.5 | 54.2 |
| | 1 | 0248 | 22 | 0. | 0. | 50.0 | * | 1 | 1056 | 83 | 174. | 1.7 | 54.4 | * | 1 | 1904 | 144 | 102. | 1.5 | 54.2 |
| 1 | 1 | 0256 | 23 | 0. | 0. | 50.0 | * | 1 | 1104 | 84 | 170. | 1.7 | 54.4 | * | 1 | 1912 | 145 | 102. | 1.5 | 54.2 |
| 2 | 1 | 0304 | 24 | 0. | 0. | 50.0 | * | 1 | 1112 | 85 | 167. | 1.7 | 54.4 | * | 1 | 1920 | 146 | 102. | 1.5 | 54.2 |
| 3 | 1 | 0312 | 25 | 0. | 0. | 50.0 | * | 1 | 1120 | 86 | 164. | 1.7 | 54.4 | * | 1 | 1928 | 147 | 102. | 1.5 | 54.2 |
| 4 | 1 | 0320 | 26 | 0. | 0. | 50.0 | * | 1 | 1128 | 87 | 162. | 1.7 | 54.4 | * | 1 | 1936 | 148 | 102. | 1.5 | 54.2 |
| 5 | 1 | 0328 | 27 | 0. | 0. | 50.0 | * | 1 | 1136 | 88 | 161. | 1.7 | 54.4 | * | 1 | 1944 | 149 | 102. | 1.5 | 54.2 |
| 6 | 1 | 0336 | 28 | 0. | 0. | 50.0 | * | 1 | 1144 | 89 | 160. | 1.7 | 54.3 | * | 1 | 1952 | 150 | 101. | 1.5 | 54.2 |
| 7 | 1 | 0344 | 29 | 0. | 0. | 50.0 | * | 1 | 1152 | 90 | 159. | 1.7 | 54.3 | * | 1 | 2000 | 151 | 100. | 1.5 | 54.2 |
| 8 | 1 | 0352 | 30 | 0. | 0. | 50.0 | * | 1 | 1200 | 91 | 158. | 1.7 | 54.3 | * | 1 | 2008 | 152 | 98. | 1.5 | 54.2 |
| 9 | 1 | 0400 | 31 | 0. | 0. | 50.0 | * | 1 | 1208 | 92 | 158. | 1.7 | 54.3 | * | 1 | 2016 | 153 | 94. | 1.5 | 54.2 |
| 10 | 1 | 0408 | 32 | 0. | 0. | 50.0 | * | 1 | 1216 | 93 | 157. | 1.7 | 54.3 | * | 1 | 2024 | 154 | 89. | 1.5 | 54.2 |
| 11 | 1 | 0416 | 33 | 0. | 0. | 50.0 | * | 1 | 1224 | 94 | 156. | 1.7 | 54.3 | * | 1 | 2032 | 155 | 84. | 1.5 | 54.2 |
| 12 | 1 | 0424 | 34 | 0. | 0. | 50.0 | * | 1 | 1232 | 95 | 156. | 1.7 | 54.3 | * | 1 | 2040 | 156 | 79. | 1.5 | 54.2 |
| 13 | 1 | 0432 | 35 | 0. | 0. | 50.0 | * | 1 | 1240 | 96 | 156. | 1.7 | 54.3 | * | 1 | 2048 | 157 | 74. | 1.4 | 54.2 |
| 14 | 1 | 0440 | 36 | 0. | 0. | 50.0 | * | 1 | 1248 | 97 | 155. | 1.7 | 54.3 | * | 1 | 2056 | 158 | 69. | 1.4 | 54.2 |
| 15 | 1 | 0448 | 37 | 0. | 0. | 50.0 | * | 1 | 1256 | 98 | 154. | 1.7 | 54.3 | * | 1 | 2104 | 159 | 66. | 1.4 | 54.1 |
| 16 | 1 | 0456 | 38 | 0. | 0. | 50.0 | * | 1 | 1304 | 99 | 153. | 1.7 | 54.3 | * | 1 | 2112 | 160 | 62. | 1.4 | 54.1 |
| 17 | 1 | 0504 | 39 | 0. | 0. | 50.0 | * | 1 | 1312 | 100 | 152. | 1.7 | 54.3 | * | 1 | 2120 | 161 | 60. | 1.4 | 54.1 |
| 18 | 1 | 0512 | 40 | 0. | 0. | 50.1 | * | 1 | 1320 | 101 | 149. | 1.6 | 54.3 | * | 1 | 2128 | 162 | 58. | 1.4 | 54.1 |
| 19 | 1 | 0520 | 41 | 0. | 1. | 50.2 | * | 1 | 1328 | 102 | 147. | 1.6 | 54.3 | * | 1 | 2136 | 163 | 57. | 1.4 | 54.1 |
| 20 | 1 | 0528 | 42 | 0. | .3 | 51.0 | * | 1 | 1336 | 103 | 144. | 1.6 | 54.3 | * | 1 | 2144 | 164 | 56. | 1.4 | 54.1 |
| 21 | 1 | 0536 | 43 | 73. | 1.4 | 54.2 | * | 1 | 1344 | 104 | 142. | 1.6 | 54.3 | * | 1 | 2152 | 165 | 55. | 1.4 | 54.1 |
| 22 | 1 | 0544 | 44 | 698. | 5.8 | 56.7 | * | 1 | 1352 | 105 | 140. | 1.6 | 54.3 | * | 1 | 2200 | 166 | 55. | 1.4 | 54.1 |
| 23 | 1 | 0552 | 45 | 1249. | 16.7 | 61.5 | * | 1 | 1400 | 106 | 138. | 1.6 | 54.3 | * | 1 | 2208 | 167 | 54. | 1.4 | 54.1 |
| 24 | 1 | 0600 | 46 | 1554. | 32.8 | 65.6 | * | 1 | 1408 | 107 | 136. | 1.6 | 54.3 | * | 1 | 2216 | 168 | 54. | 1.4 | 54.1 |
| 25 | 1 | 0608 | 47 | 1763. | 49.8 | 68.9 | * | 1 | 1416 | 108 | 134. | 1.6 | 54.3 | * | 1 | 2224 | 169 | 54. | 1.4 | 54.1 |
| 26 | 1 | 0616 | 48 | 1906. | 64.2 | 71.4 | * | 1 | 1424 | 109 | 132. | 1.6 | 54.3 | * | 1 | 2232 | 170 | 54. | 1.4 | 54.1 |
| 27 | 1 | 0624 | 49 | 1991. | 73.8 | 73.0 | * | 1 | 1432 | 110 | 130. | 1.6 | 54.3 | * | 1 | 2240 | 171 | 54. | 1.4 | 54.1 |
| 28 | 1 | 0632 | 50 | 2028. | 78.0 | 73.7 | * | 1 | 1440 | 111 | 129. | 1.6 | 54.3 | * | 1 | 2248 | 172 | 54. | 1.4 | 54.1 |
| 29 | 1 | 0640 | 51 | 2026. | 77.8 | 73.7 | * | 1 | 1448 | 112 | 127. | 1.6 | 54.3 | * | 1 | 2256 | 173 | 54. | 1.4 | 54.1 |
| 30 | 1 | 0648 | 52 | 2002. | 75.1 | 73.2 | * | 1 | 1456 | 113 | 126. | 1.6 | 54.3 | * | 1 | 2304 | 174 | 54. | 1.4 | 54.1 |
| 31 | 1 | 0656 | 53 | 1963. | 70.6 | 72.5 | * | 1 | 1504 | 114 | 124. | 1.6 | 54.3 | * | 1 | 2312 | 175 | 54. | 1.4 | 54.1 |
| 32 | 1 | 0704 | 54 | 1915. | 65.2 | 71.6 | * | 1 | 1512 | 115 | 122. | 1.6 | 54.3 | * | 1 | 2320 | 176 | 54. | 1.4 | 54.1 |
| 33 | 1 | 0712 | 55 | 1861. | 59.1 | 70.6 | * | 1 | 1520 | 116 | 120. | 1.6 | 54.3 | * | 1 | 2328 | 177 | 54. | 1.4 | 54.1 |
| 34 | 1 | 0720 | 56 | 1797. | 52.7 | 69.5 | * | 1 | 1528 | 117 | 117. | 1.6 | 54.3 | * | 1 | 2336 | 178 | 53. | 1.4 | 54.1 |
| 35 | 1 | 0728 | 57 | 1725. | 46.4 | 68.3 | * | 1 | 1536 | 118 | 115. | 1.6 | 54.3 | * | 1 | 2344 | 179 | 53. | 1.4 | 54.1 |
| 36 | 1 | 0736 | 58 | 1654. | 40.3 | 67.1 | * | 1 | 1544 | 119 | 112. | 1.5 | 54.2 | * | 1 | 2352 | 180 | 52. | 1.4 | 54.1 |
| 37 | 1 | 0744 | 59 | 1577. | 34.5 | 65.9 | * | 1 | 1552 | 120 | 110. | 1.5 | 54.2 | * | 2 | 0000 | 181 | 50. | 1.4 | 54.1 |
| 38 | 1 | 0752 | 60 | 1497. | 28.9 | 64.7 | * | 1 | 1600 | 121 | 108. | 1.5 | 54.2 | * | | | | | | |
| 39 | 1 | 0800 | 61 | 1401. | 23.6 | 63.4 | * | 1 | 1608 | 122 | 107. | 1.5 | 54.2 | * | | | | | | |

| ***** | | | | | | |
|-------|--------------|---------|-------------------------|-------|-------|----------|
| 41 | ***** | | | | | |
| 42 | ***** | | | | | |
| 43 | PEAK FLOW | TIME | MAXIMUM AVERAGE FLOW | | | |
| 44 | | | 6-HR | 24-HR | 72-HR | 24.00-HR |
| 45 | + | (CFS) | (HR) | | | |
| 46 | | | (CFS) | | | |
| 47 | + | 2028. | 6.53 | 903. | 279. | 279. |
| 48 | | | (INCHES) | 2.030 | 2.509 | 2.509 |
| 49 | | | (AC-FT) | 448. | 554. | 554. |
| 50 | | | | | | |
| 51 | PEAK STORAGE | TIME | MAXIMUM AVERAGE STORAGE | | | |
| 52 | | | 6-HR | 24-HR | 72-HR | 24.00-HR |
| 53 | + | (AC-FT) | (HR) | | | |
| 54 | | 78. | 6.53 | 22. | 6. | 6. |
| 55 | | | | | | |
| 56 | PEAK STAGE | TIME | MAXIMUM AVERAGE STAGE | | | |
| 57 | | | 6-HR | 24-HR | 72-HR | 24.00-HR |
| 58 | + | (FEET) | (HR) | | | |
| 59 | | 73.72 | 6.53 | 60.57 | 54.84 | 54.84 |

(I) INFLOW, (O) OUTFLOW

| | | 0. | 400. | 800. | 1200. | 1600. | 2000. | 2400. | 2800. | 3200. | 3600. | 0. | 0. | 0. |
|----|---------------|-------------|------|------|-------|-------|-------|-------|-------|-------|-------|-----|----|----|
| | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 20. | 40. | 60. | 80. | 0. | 0. |
| | DAHRMN PER | (S) STORAGE | | | | | | | | | | | | |
| 1 | 10000 1I | | | | | | | | | | | | | |
| 2 | 10008 2I | | | | | | | | | | | | | |
| 3 | 10016 3I | | | | | | | | | | | | | |
| 4 | 10024 4I | | | | | | | | | | | | | |
| 5 | 10032 5I | | | | | | | | | | | | | |
| 6 | 10040 6I | | | | | | | | | | | | | |
| 7 | 10048 7I | | | | | | | | | | | | | |
| 8 | 10056 8I | | | | | | | | | | | | | |
| 9 | 10104 9I | | | | | | | | | | | | | |
| 10 | 10112 10I | | | | | | | | | | | | | |
| 11 | 10120 11I | | | | | | | | | | | | | |
| 12 | 10128 12I | | | | | | | | | | | | | |
| 13 | 10136 13I | | | | | | | | | | | | | |
| 14 | 10144 14I | | | | | | | | | | | | | |
| 15 | 10152 15I | | | | | | | | | | | | | |
| 16 | 10200 16I | | | | | | | | | | | | | |
| 17 | 10208 17I | | | | | | | | | | | | | |
| 18 | 10216 18I | | | | | | | | | | | | | |
| 19 | 10224 19I | | | | | | | | | | | | | |
| 20 | 10232 20I | | | | | | | | | | | | | |
| 21 | 10240 21I | | | | | | | | | | | | | |
| 22 | 10248 22I | | | | | | | | | | | | | |
| 23 | 10256 23I | | | | | | | | | | | | | |
| 24 | 10304 24I | | | | | | | | | | | | | |
| 25 | 10312 25I | | | | | | | | | | | | | |
| 26 | 10320 26I | | | | | | | | | | | | | |
| 27 | 10328 27I | | | | | | | | | | | | | |
| 28 | 10336 28I | | | | | | | | | | | | | |
| 29 | 10344 29I | | | | | | | | | | | | | |
| 30 | 10352 30I | | | | | | | | | | | | | |
| 31 | 10400 31I | | | | | | | | | | | | | |
| 32 | 10408 32I | | | | | | | | | | | | | |
| 33 | 10416 33I | | | | | | | | | | | | | |
| 34 | 10424 34I | | | | | | | | | | | | | |
| 35 | 10432 35I | | | | | | | | | | | | | |
| 36 | 10440 36I | | | | | | | | | | | | | |
| 37 | 10448 37I | | | | | | | | | | | | | |
| 38 | 10456 38I | | | | | | | | | | | | | |
| 39 | 10504 39I | | | | | | | | | | | | | |
| 40 | 10512 40I | | | | | | | | | | | | | |
| 41 | 10520 41I | | | | | | | | | | | | | |
| 42 | 10528 420I | | | | | | | | | | | | | |
| 43 | 10536 43. O I | | | | | | | | | | | | | |
| 44 | 10544 44. | | | | | | | | | | | | | |
| 45 | 10552 45. | | | | | | | | | | | | | |
| 46 | 10600 46. | | | | | | | | | | | | | |
| 47 | 10608 47. | | | | | | | | | | | | | |
| 48 | 10616 48. | | | | | | | | | | | | | |
| 49 | 10624 49. | | | | | | | | | | | | | |
| 50 | 10632 50. | | | | | | | | | | | | | |
| 51 | 10640 51. | | | | | | | | | | | | | |
| 52 | 10648 52. | | | | | | | | | | | | | |
| 53 | 10656 53. | | | | | | | | | | | | | |
| 54 | 10704 54. | | | | | | | | | | | | | |
| 55 | 10712 55. | | | | | | | | | | | | | |
| 56 | 10720 56. | | | | | | | | | | | | | |
| 57 | 10728 57. | | | | | | | | | | | | | |

[illegible]

[illegible]

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 | | | |
| 1 | + | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | + | SB1 | 319. | 6.00 | 52. | 16. | 16. | .24 | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | + | ROUTE | 313. | 6.00 | 52. | 16. | 16. | .24 | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | + | SB3 | 637. | 5.87 | 100. | 30. | 30. | .36 | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | + | SUMMPT1 | 944. | 6.00 | 152. | 46. | 46. | .60 | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | + | DF#2 | 289. | 6.53 | 152. | 46. | 46. | .60 | | |
| 17 | + | | | | | | | | 6977.87 | 6.53 |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | + | ROUTE | 288. | 6.67 | 152. | 46. | 46. | .60 | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | + | SB9 | 258. | 5.87 | 36. | 11. | 11. | .18 | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | + | SB10 | 206. | 6.00 | 38. | 11. | 11. | .15 | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | + | SUMPT4 | 683. | 6.00 | 225. | 68. | 68. | .92 | | |
| 30 | | | | | | | | | | |
| 31 | | | | | | | | | | |
| 32 | + | SB15UP | 698. | 6.00 | 234. | 71. | 71. | .97 | | |
| 33 | | | | | | | | | | |
| 34 | | | | | | | | | | |
| 35 | + | SB2 | 300. | 5.87 | 39. | 12. | 12. | .18 | | |
| 36 | | | | | | | | | | |
| 37 | | | | | | | | | | |
| 38 | + | ROUTE | 296. | 5.87 | 39. | 12. | 12. | .18 | | |
| 39 | | | | | | | | | | |
| 40 | | | | | | | | | | |
| 41 | + | SB4A | 376. | 5.87 | 50. | 15. | 15. | .21 | | |
| 42 | | | | | | | | | | |
| 43 | | | | | | | | | | |
| 44 | + | SUMPT2A | 672. | 5.87 | 89. | 27. | 27. | .39 | | |
| 45 | | | | | | | | | | |
| 46 | | | | | | | | | | |
| 47 | + | DF#3 | 265. | 6.27 | 88. | 27. | 27. | .39 | | |
| 48 | + | | | | | | | | 7089.32 | 6.27 |
| 49 | | | | | | | | | | |
| 50 | | | | | | | | | | |
| 51 | + | ROUTE | 265. | 6.27 | 88. | 27. | 27. | .39 | | |
| 52 | | | | | | | | | | |
| 53 | | | | | | | | | | |
| 54 | + | SB4B | 273. | 5.87 | 44. | 13. | 13. | .15 | | |
| 55 | | | | | | | | | | |
| 56 | | | | | | | | | | |
| 57 | + | SB5 | 348. | 6.13 | 68. | 20. | 20. | .24 | | |
| 58 | | | | | | | | | | |
| 59 | | | | | | | | | | |
| 60 | + | SUMPT2B | 855. | 6.00 | 200. | 60. | 60. | .77 | | |

ROUTED TO

| | | | | | | | | | |
|---|------|------|------|------|-----|-----|-----|---------|------|
| + | DF#4 | 671. | 6.40 | 199. | 60. | 60. | .77 | 7026.72 | 6.40 |
| + | | | | | | | | | |

HYDROGRAPH AT

| | | | | | | | | | |
|---|-------|------|------|------|-----|-----|-----|--|--|
| + | SB7UP | 691. | 6.27 | 205. | 62. | 62. | .79 | | |
|---|-------|------|------|------|-----|-----|-----|--|--|

ROUTED TO

| | | | | | | | | | |
|---|------|------|------|------|-----|-----|-----|--|--|
| + | DF#5 | 509. | 6.93 | 204. | 62. | 62. | .79 | | |
|---|------|------|------|------|-----|-----|-----|--|--|

| | |
|---------|------|
| 6997.45 | 6.93 |
|---------|------|

ROUTED TO

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|---|-------|------|------|------|-----|-----|-----|--|--|
| + | ROUTE | 509. | 7.07 | 204. | 62. | 62. | .79 | | |
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HYDROGRAPH AT

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|---|-----|------|------|-----|----|----|-----|--|--|
| + | SB6 | 119. | 6.00 | 22. | 7. | 7. | .08 | | |
|---|-----|------|------|-----|----|----|-----|--|--|

2 COMBINED AT

| | | | | | | | | | |
|---|---------|------|------|------|-----|-----|-----|--|--|
| + | COMBINE | 558. | 6.40 | 226. | 68. | 68. | .87 | | |
|---|---------|------|------|------|-----|-----|-----|--|--|

ROUTED TO

| | | | | | | | | | |
|---|-------|------|------|------|-----|-----|-----|--|--|
| + | ROUTE | 558. | 6.40 | 226. | 68. | 68. | .87 | | |
|---|-------|------|------|------|-----|-----|-----|--|--|

HYDROGRAPH AT

| | | | | | | | | | |
|---|-----|------|------|-----|-----|-----|-----|--|--|
| + | SB7 | 360. | 6.00 | 61. | 18. | 18. | .24 | | |
|---|-----|------|------|-----|-----|-----|-----|--|--|

HYDROGRAPH AT

| | | | | | | | | | |
|---|-----|------|------|-----|-----|-----|-----|--|--|
| + | SB8 | 266. | 5.87 | 34. | 10. | 10. | .14 | | |
|---|-----|------|------|-----|-----|-----|-----|--|--|

3 COMBINED AT

| | | | | | | | | | |
|---|--------|-------|------|------|-----|-----|------|--|--|
| + | SUMPT3 | 1049. | 6.00 | 321. | 97. | 97. | 1.25 | | |
|---|--------|-------|------|------|-----|-----|------|--|--|

HYDROGRAPH AT

| | | | | | | | | | |
|---|------|-------|------|------|------|------|------|--|--|
| + | SB12 | 1066. | 6.00 | 352. | 109. | 109. | 1.42 | | |
|---|------|-------|------|------|------|------|------|--|--|

HYDROGRAPH AT

| | | | | | | | | | |
|---|------|------|------|-----|----|----|-----|--|--|
| + | SB11 | 189. | 5.87 | 29. | 9. | 9. | .13 | | |
|---|------|------|------|-----|----|----|-----|--|--|

2 COMBINED AT

| | | | | | | | | | |
|---|--------|-------|------|------|------|------|------|--|--|
| + | SUMPT5 | 1251. | 6.00 | 381. | 117. | 117. | 1.55 | | |
|---|--------|-------|------|------|------|------|------|--|--|

ROUTED TO

| | | | | | | | | | |
|---|-------|-------|------|------|------|------|------|--|--|
| + | ROUTE | 1246. | 6.00 | 381. | 117. | 117. | 1.55 | | |
|---|-------|-------|------|------|------|------|------|--|--|

HYDROGRAPH AT

| | | | | | | | | | |
|---|------|------|------|-----|-----|-----|-----|--|--|
| + | SB13 | 191. | 6.13 | 40. | 12. | 12. | .17 | | |
|---|------|------|------|-----|-----|-----|-----|--|--|

2 COMBINED AT

| | | | | | | | | | |
|---|---------|-------|------|------|------|------|------|--|--|
| + | COMBINE | 1417. | 6.00 | 421. | 130. | 130. | 1.71 | | |
|---|---------|-------|------|------|------|------|------|--|--|

HYDROGRAPH AT

| | | | | | | | | | |
|---|---------|-------|------|------|------|------|------|--|--|
| + | SB15LOW | 1426. | 6.00 | 429. | 132. | 132. | 1.76 | | |
|---|---------|-------|------|------|------|------|------|--|--|

2 COMBINED AT

| | | | | | | | | | |
|---|--------|-------|------|------|------|------|------|--|--|
| + | SUMPT6 | 2124. | 6.00 | 663. | 203. | 203. | 2.72 | | |
|---|--------|-------|------|------|------|------|------|--|--|

HYDROGRAPH AT

| | | | | | | | | | |
|---|------|-------|------|------|------|------|------|--|--|
| + | SB16 | 2098. | 6.00 | 669. | 205. | 205. | 2.76 | | |
|---|------|-------|------|------|------|------|------|--|--|

HYDROGRAPH AT

| | | | | | | | | | |
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| + | SB14 | 223. | 6.00 | 39. | 13. | 13. | .30 | | |
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2 COMBINED AT

| | | | | | | | | | |
|---|--------|-------|------|------|------|------|------|--|--|
| + | SUMPT7 | 2321. | 6.00 | 708. | 218. | 218. | 3.05 | | |
|---|--------|-------|------|------|------|------|------|--|--|

| | | | | | | | | | |
|----|---|---------------|---------|-------|------|------|------|------|------|
| 1 | + | ROUTED TO | ROUTE | 2306. | 6.00 | 708. | 218. | 218. | 3.05 |
| 2 | | | | | | | | | |
| 3 | + | HYDROGRAPH AT | SB19 | 183. | 6.13 | 37. | 12. | 12. | .22 |
| 4 | | | | | | | | | |
| 5 | + | ROUTED TO | ROUTE | 180. | 6.13 | 37. | 12. | 12. | .22 |
| 6 | | | | | | | | | |
| 7 | + | HYDROGRAPH AT | SB17 | 125. | 5.87 | 17. | 5. | 5. | .12 |
| 8 | | | | | | | | | |
| 9 | + | 2 COMBINED AT | COMBINE | 263. | 6.00 | 54. | 17. | 17. | .34 |
| 10 | | | | | | | | | |
| 11 | + | HYDROGRAPH AT | SB18 | 160. | 5.87 | 21. | 6. | 6. | .11 |
| 12 | | | | | | | | | |
| 13 | + | 3 COMBINED AT | SUMPT8 | 2695. | 6.00 | 782. | 241. | 241. | 3.50 |
| 14 | | | | | | | | | |
| 15 | + | ROUTED TO | ROUTE | 2662. | 6.13 | 781. | 241. | 241. | 3.50 |
| 16 | | | | | | | | | |
| 17 | + | HYDROGRAPH AT | SB20 | 278. | 5.87 | 36. | 12. | 12. | .26 |
| 18 | | | | | | | | | |
| 19 | + | HYDROGRAPH AT | SB21 | 147. | 6.00 | 26. | 8. | 8. | .12 |
| 20 | | | | | | | | | |
| 21 | + | HYDROGRAPH AT | SB22 | 192. | 6.13 | 36. | 11. | 11. | .16 |
| 22 | | | | | | | | | |
| 23 | + | ROUTED TO | ROUTE | 192. | 6.13 | 37. | 11. | 11. | .16 |
| 24 | | | | | | | | | |
| 25 | + | HYDROGRAPH AT | SB25A | 140. | 6.13 | 27. | 8. | 8. | .09 |
| 26 | | | | | | | | | |
| 27 | + | 2 COMBINED AT | COMBINE | 331. | 6.13 | 63. | 19. | 19. | .25 |
| 28 | | | | | | | | | |
| 29 | + | 4 COMBINED AT | SUMPT9 | 3269. | 6.13 | 904. | 280. | 280. | 4.14 |
| 30 | | | | | | | | | |
| 31 | + | ROUTED TO | DF#1 | 2028. | 6.53 | 903. | 279. | 279. | 4.14 |
| 32 | | | | | | | | | |
| 33 | + | ROUTED TO | ROUTE | 2026. | 6.67 | 903. | 279. | 279. | 4.14 |
| 34 | | | | | | | | | |
| 35 | + | HYDROGRAPH AT | SB25B | 105. | 5.87 | 16. | 5. | 5. | .05 |
| 36 | | | | | | | | | |
| 37 | + | 2 COMBINED AT | SMPT10 | 2052. | 6.53 | 919. | 284. | 284. | 4.19 |
| 38 | | | | | | | | | |
| 39 | + | HYDROGRAPH AT | SB23 | 277. | 6.13 | 58. | 18. | 18. | .25 |
| 40 | | | | | | | | | |
| 41 | + | ROUTED TO | ROUTE | 273. | 6.27 | 58. | 18. | 18. | .25 |
| 42 | | | | | | | | | |
| 43 | + | HYDROGRAPH AT | SB24 | 280. | 6.13 | 58. | 17. | 17. | .19 |

2 COMBINED AT

+ SUMPT11 542. 6.13 116. 35. 35. .44

HYDROGRAPH AT

+ SB26 33. 6.53 11. 4. 4. .17

3 COMBINED AT

+ SUMP12 2536. 6.40 1044. 323. 323. 4.80

HYDROGRAPH AT

+ SB28 2540. 6.40 1055. 327. 327. 4.96

HYDROGRAPH AT

+ SB27 17. 5.73 2. 1. 1. .03

2 COMBINED AT

+ SUMPT13 2542. 6.40 1057. 328. 328. 4.99

HYDROGRAPH AT

+ ROUTE 2559. 6.53 1078. 336. 336. 5.12

HYDROGRAPH AT

+ CHAPEL 2861. 6.27 655. 206. 206. 3.61

2 COMBINED AT

+ SUMPT14 5320. 6.27 1731. 541. 541. 8.73

ROUTED TO

+ ROUTE 5289. 6.27 1731. 541. 541. 8.73

HYDROGRAPH AT

+ NCOTTONW 843. 6.13 173. 53. 53. .81

2 COMBINED AT

+ SUMPT15 6095. 6.27 1903. 595. 595. 9.54

ROUTED TO

+ ROUTE 5995. 6.27 1903. 595. 595. 9.54

HYDROGRAPH AT

+ LDILSB13 750. 6.00 134. 41. 41. .63

2 COMBINED AT

+ SUMPT16 6589. 6.27 2036. 636. 636. 10.17

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