

PINE CREEK DRAINAGE BASIN

DRAINAGE BASIN PLANNING STUDY

JUNE, 1988
REVISED OCTOBER, 1988

EXHIBIT V:

HEC 1 PRINTOUT

*Library copy - Do Not
Remove*

EXHIBIT V

HEC 1 PRINTOUT

INDEX

HISTORIC: 6 Hour - 5 Year
 6 Hour - 100 Year
 24 Hour - 5 Year
 24 Hour - 100 Year

DEVELOPED- 6 Hour - 5 Year
NO DETENTION: 6 Hour - 100 Year
 24 Hour - 5 Year
 24 Hour - 100 Year

DEVELOPED- 6 Hour - 5 Year
ONSITE & 6 Hour - 100 Year
REGIONAL 24 Hour - 5 Year
DETENTION: 24 Hour - 100 Year

HISTORIC

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~~PAGE 1~~

*** FREE ***

~~*DIAGRAM~~

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31 KK SB10
32 KM SCS RUNOFF COMPUTATION
33 BA .1468
34 LS 0 69
35 UD .48

36 KK SUMPT4
37 KM COMBINE PT.1, 9 AND 10
38 HC 3

39 KK ROUTEPT.4 TO PT.6
40 RK 1600 .025 .040 TRAP 50 4.5

HEC-1 INPUT

PAGE 2

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

41 KK SB2
42 KM SCS RUNOFF SUBBASIN NO. 2
43 BA .1796
44 LS 0 70
45 UD 1.60

46 KK ROUTETO PT.2A
47 RK 2000 .028 .04 TRAP 25 4

48 KK SB4A
49 KM SCS RUNOFF SUBBASIN NO. 4A
50 BA .2062
51 LS 0 70
52 UD .31

53 KK SUMPT2A
54 KM SUMMARY SB2 AND SB4A
55 HC 2

56 KK ROUTETO PT 2B
57 RK 2747 .028 .040 TRAP 25 4

58 KK SB4B
59 KM SCS RUNOFF COMPUTATION SUBBASIN NO 4B
60 BA .1460
61 LS 0 70
62 UD .24

63 KK SB5
64 KM SCS RUNOFF - SUBBASIN NO. 5
65 BA .2359
66 LS 0 70
67 UD 1.09

68 KK SUMPT2B
69 KM COMBINE SUBBASINS 2,4 AND 5
70 HC 3

71 KK ROUTEPT.2 TO SB6
72 RK 2100 .025 .040 TRAP 10 10

73 KK SB6
74 KM SCS RUNOFF - SUBBASIN NO. 6
75 BA .0797
76 LS 0 70
77 UD .66

78 KK COMBINEPT.2 ROUTED WITH SB6
79 HC 2

HEC-1 INPUT

PAGE 2

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

1	80	KK	ROUTETO PT.3								
2	81	RK	1340 .025 .040	TRAP	30	2					
3	82	KK	SB7								
4	83	KM	SCS RUNOFF - SUBBASIN NO. 7								
5	84	BA	.2624								
6	85	LS	0 66								
7	86	UD	.81								
8	87	KK	SB8								
9	88	KM	SCS RUNOFF - SUBBASIN NO. 8								
10	89	BA	.1406								
11	90	LS	0 67								
12	91	UD	.53								
13	92	KK	SUMPT3								
14	93	KM	COMBINE PT. 2 ROUTED WITH 6,7 AND 8								
15	94	HC	3								
16	95	KK	ROUTEPT.3 TO PT.5								
17	96	RK	3700 .025 .040	TRAP	30	5					
18	97	KK	SB11								
19	98	KM	SCS RUNOFF - SUBBASIN NO. 11								
20	99	BA	.1250								
21	100	LS	0 65								
22	101	UD	.67								
23	102	KK	SB12								
24	103	KM	SCS RUNOFF - SUBBASIN NO. 12								
25	104	BA	.1718								
26	105	LS	0 63								
27	106	UD	.73								
28	107	KK	SUMPT5								
29	108	KM	COMBINE PT. 3 WITH SUBBASINS 11 AND 12								
30	109	HC	3								
31	110	KK	ROUTEPT.5 TO PT.6								
32	111	RK	1720 .023 .040	TRAP	25	10					
33	112	KK	SB13								
34	113	KM	SCS RUNOFF - SUBBASIN NO. 13								
35	114	BA	.1664								
36	115	LS	0 55								
37	116	UD	.94								
38	117	KK	SB15								
39	118	KM	SCS RUNOFF - SUBBASIN NO. 15								
40	119	BA	.0843								
41	120	LS	0 65								
42	121	UD	.34								

1

HEC-1 INPUT

PAGE 4

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

43	122	KK	SUMPT6								
44	123	KM	COMBINE PT. 4, PT.5, WITH SUBBASINS 13 AND 15								
45	124	HC	4								
46	125	KK	ROUTEPT 4 TO PT 7								

125 RK ROUTEPT.7 TO PT.7
126 RK 1850 .02 .040 TRAP 60 3

127 KK SB14
128 KM SCS RUNOFF - SUBBASIN NO. 14
129 BA .2952

130 LS 0 57

131 UD .83

132 KK SB16

133 KM SCS RUNOFF - SUBBASIN NO.16

134 BA .0359

135 LS 0 63

136 UD .17

137 KK SUMPT7

138 KM COMBINE PT.6, SUBBASIN NO 14 AND 16

139 HC 3

140 KK ROUTEPT.7 TO PT.8

141 RK 1740 .01 .040 TRAP 30 5

142 KK SB19

143 KM SCS RUNOFF - SUBBASIN NO. 19

144 BA .2210

145 LS 0 56

146 UD 1.24

147 KK ROUTESB19 TO PT.8

148 RK 1600 .035 .040 TRAP 10 3

149 KK SB17

150 KM SCS RUNOFF - SUBBASIN NO. 17

151 BA .1283

152 LS 0 55

153 UD .55

154 KK COMBINESUBBASINS NO 17 AND 19

155 HC 2

156 KK SB18

157 KM SCS RUNOFF - SUBBASIN NO. 18

158 BA .1862

159 LS 0 55

160 UD .41

1

HEC-1 INPUT

PAGE 5

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

161 KK SUMPT8

162 KM COMBINE PT.7, SUBBASINS 17,18,19

163 HC 3

164 KK ROUTEPT.8 TO PT.9

165 RK 4150 .01 .040 TRAP 25 5

166 KK SB20

167 KM SCS RUNOFF - SUBBASIN NO. 20

168 BA .2640

169 LS 0 56

170 UD 1.07

171 KK SB21

172 KM SCS RUNOFF - SUBBASIN NO. 21

173 BA .1234

174	LS	0	55
175	UD	.48	
176	KK	SB22	
177	KM	SCS RUNOFF - SUBBASIN NO. 22	
178	BA	.1624	
179	LS	0	55

180	UD	1.24	
181	KK	ROUTESB22 TO PT.9	
182	RK	3200 .04 .040	TRAP 10 10

183	KK	SB25A	
184	KM	SCS RUNOFF - SUBBASIN NO. 25A	
185	BA	.0875	
186	LS	0	65
187	UD	.73	

188	KK	COMBINESB22 AND SB25A	
189	HC	2	

190	KK	SUMPT9	
191	KM	COMBINE PT.8, SUBBASINS 20 AND 21, AND 22 AND 25	
192	HC	4	

193	KK	ROUTEPT.9 TO PT. 10	
194	RK	1450 .02 .040	TRAP 20 3

195	KK	SB25B	
196	KM	SCS RUNOFF - SUBBASIN NO 25B	
197	BA	.0531	
198	LS	0	65
199	UD	.45	

HEC-1 INPUT

PAGE 6

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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200	KK	SUMPT10	
201	KM	SUMMARY SB25B AND POND NO1 ROUTED	
202	HC	2	

203	KK	SB23	
204	KM	SCS RUNOFF - SUBBASIN NO. 23	
205	BA	.2515	
206	LS	0	55
207	UD	2.02	

208	KK	ROUTESB23 TO PT.11	
209	RK	4100 .03 .040	TRAP 10 10

210	KK	SB24	
211	KM	SCS RUNOFF - SUBBASIN NO. 24	
212	BA	.1874	
213	LS	0	63
214	UD	.71	

215	KK	SUMPT11	
216	KM	SUMMARY SUBBASIN NO 23 AND 24	
217	HC	2	

218	KK	SB26	
219	KM	SCS RUNOFF - SUBBASIN NO 26	
220	BA	.1703	
221	LS	0	58
222	UD	.80	

223	KK	SUMP12				
224	KM	SUMMARY OF PTS 10 AND 11 AND SUBBASIN NO. 26				
225	HC	3				
226	KK	ROUTEPT. 12 TO PT. 13				
227	RK	4707 .0075 .015	TRAP	25.5	3	

228	KK	SB27				
229	KM	SCS RUNOFF - SUBBASIN NO 27				
230	BA	.0312				
231	LS	0	58			
232	UD	.17				

233	KK	SB28				
234	KM	SCS RUNOFF - SUBBASIN NO 28				
235	BA	.1609				
236	LS	0	65			
237	UD	.55				

238	KK	SUMP13				
239	KM	SUMMARY PT.12. SUBBASIN 27 AND 28				
240	HC	3				
241	ZZ					

SCHEMATIC DIAGRAM OF STREAM NETWORK

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

4	SB1		
16	SB3		
21	SUMP1.....		
	V		
	V		
24	ROUTE		
26	SB9		
31	SB10		
36	SUMP4.....		
	V		
	V		
39	ROUTE		
41	SB2		
	V		
	V		
46	ROUTE		
48	SB4A		
53	SUMP2A.....		
	V		
	V		

56	ROUTE	
58	SB4B	
63	SB5	
68	SUMPT2B.....	
	V	
	V	
71	ROUTE	
73	SB6	
78	COMBINE.....	
	V	
	V	
80	ROUTE	
82	SB7	
87	SB8	
92	SUMPT3.....	
	V	
	V	
95	ROUTE	
97	SB11	
102	SB12	
107	SUMPT5.....	
	V	
	V	
110	ROUTE	
112	SB13	
117	SB15	
122	SUMPT6.....	
	V	
	V	
125	ROUTE	
127	SB14	
132	SB16	

137 SUMPT7.....

V

V

140 ROUTE

142

SB19

V

V

147

ROUTE

149

SB17

154

COMBINE.....

156

SB18

161

SUMPT8.....

V

V

164

ROUTE

166

SB20

171

SB21

176

SB22

V

V

181

ROUTE

183

SB25A

188

COMBINE.....

190

SUMPT9.....

V

V

193

ROUTE

195

SB25B

200

SUMPT10.....

203

SB23

V

V

208

ROUTE

210

SB24

215

SUMPT11.....

218

SB26

223 SUMPT12.....

V

V

226 ROUTE

228 SB27

233 SB28

238 SUMPT13.....

(***) 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 - 6HR, HISTORIC (5 YR)

3 IO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL

IPLOT 0 PLOT CONTROL

QSCAL 0. HYDROGRAPH PLOT SCALE

IT

HYDROGRAPH TIME DATA

NMIN 2 MINUTES IN COMPUTATION INTERVAL

IDATE 1 0 STARTING DATE

ITIME 0000 STARTING TIME

NQ 181 NUMBER OF HYDROGRAPH ORDINATES

NDDATE 1 0 ENDING DATE

NDTIME 0600 ENDING TIME

COMPUTATION INTERVAL 03 HOURS

TOTAL TIME BASE 6.00 HOURS

FLOW IN CUBIC FEET PER SECOND										
TIME IN HOURS, AREA IN SQUARE MILES										
	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	SB1	15.	2.93	6.	6.	6.	.24		
+	HYDROGRAPH AT	SB3	33.	2.30	10.	10.	10.	.36		
+	2 COMBINED AT	SUMMPT1	44.	2.43	16.	16.	16.	.60		
+	ROUTED TO	ROUTE	41.	2.77	15.	15.	15.	.60		
+	HYDROGRAPH AT	SB9	18.	2.03	5.	5.	5.	.18		
+	HYDROGRAPH AT	SB10	15.	2.03	4.	4.	4.	.15		
+	3 COMBINED AT	SUMPT4	56.	2.67	23.	23.	23.	.92		
+	ROUTED TO	ROUTE	55.	2.73	23.	23.	23.	.92		
+	HYDROGRAPH AT	SB2	9.	3.37	4.	4.	4.	.18		
+	ROUTED TO	ROUTE	9.	3.53	4.	4.	4.	.18		
+	HYDROGRAPH AT	SB4A	34.	1.80	6.	6.	6.	.21		
+	2 COMBINED AT	SUMPT2A	34.	1.80	10.	10.	10.	.39		
+	ROUTED TO	ROUTE	30.	1.97	10.	10.	10.	.39		
+	HYDROGRAPH AT	SB4B	29.	1.70	4.	4.	4.	.15		
+	HYDROGRAPH AT	SB5	16.	2.73	6.	6.	6.	.24		
+	3 COMBINED AT	SUMPT2B	51.	1.93	20.	20.	20.	.77		
+	ROUTED TO	ROUTE	50.	2.03	20.	20.	20.	.77		
+	HYDROGRAPH AT	SB6	8.	2.23	2.	2.	2.	.08		

2 COMBINED AT COMBINE 57. 2.03 22. 22. 22. .85

+ ROUTED TO ROUTE 57. 2.10 22. 22. 22. .85

1 HYDROGRAPH AT SB7 13. 2.50 5. 5. 5. .26

2 + HYDROGRAPH AT SB8 10. 2.10 3. 3. 3. .14

3 + 3 COMBINED AT SUMPT3 76. 2.13 30. 30. 30. 1.25

4 + ROUTED TO ROUTE 73. 2.37 28. 28. 28. 1.25

5 + HYDROGRAPH AT SB11 6. 2.33 2. 2. 2. .13

6 + HYDROGRAPH AT SB12 5. 2.47 2. 2. 2. .17

7 + 3 COMBINED AT SUMPT5 84. 2.37 33. 33. 33. 1.55

8 + ROUTED TO ROUTE 83. 2.43 32. 32. 32. 1.55

9 + HYDROGRAPH AT SB13 1. 5.17 0. 0. 0. .17

10 + HYDROGRAPH AT SB15 6. 1.90 1. 1. 1. .08

11 + 4 COMBINED AT SUMPT6 136. 2.57 57. 57. 57. 2.72

12 + ROUTED TO ROUTE 135. 2.67 55. 55. 55. 2.72

13 + HYDROGRAPH AT SB14 2. 3.53 1. 1. 1. .30

14 + HYDROGRAPH AT SB16 2. 1.67 0. 0. 0. .04

15 + 3 COMBINED AT SUMPT7 137. 2.67 57. 57. 57. 3.05

16 + ROUTED TO ROUTE 137. 2.73 55. 55. 55. 3.05

17 + HYDROGRAPH AT SB19 1. 5.30 1. 1. 1. .22

18 + ROUTED TO ROUTE 1. 5.43 1. 1. 1. .22

19 + HYDROGRAPH AT SB17 1. 4.47 0. 0. 0. .12

20 + 2 COMBINED AT COMBINE 2. 5.13 1. 1. 1. .34

	+	HYDROGRAPH AT	SB18	0.	4.23	0.	0.	0.	.11
	+	3 COMBINED AT	SUMPT8	138.	2.73	57.	57.	57.	3.50
1		ROUTED TO							
2	+	ROUTE		133.	3.00	53.	53.	53.	3.50
3									
4		HYDROGRAPH AT	SB20	1.	5.17	1.	1.	1.	.26
5	+								
6		HYDROGRAPH AT	SB21	2.	2.23	1.	1.	1.	.12
7	+								
8		HYDROGRAPH AT	SB22	1.	5.43	0.	0.	0.	.16
9	+								
10		ROUTED TO	ROUTE	1.	5.83	0.	0.	0.	.16
11	+								
12		HYDROGRAPH AT	SB25A	4.	2.40	1.	1.	1.	.09
13	+								
14		2 COMBINED AT	COMBINE	4.	2.40	2.	2.	2.	.25
15	+								
16		4 COMBINED AT	SUMPT9	138.	3.00	56.	56.	56.	4.14
17	+								
18		ROUTED TO	ROUTE	138.	3.03	55.	55.	55.	4.14
19	+								
20		HYDROGRAPH AT	SB25B	3.	2.03	1.	1.	1.	.05
21	+								
22		2 COMBINED AT	SUMPT10	139.	3.03	56.	56.	56.	4.19
23	+								
24		HYDROGRAPH AT	SB23	1.	6.00	0.	0.	0.	.25
25	+								
26		ROUTED TO	ROUTE	1.	6.00	0.	0.	0.	.25
27	+								
28		HYDROGRAPH AT	SB24	6.	2.43	2.	2.	2.	.19
29	+								
30		2 COMBINED AT	SUMPT11	6.	2.43	3.	3.	3.	.44
31	+								
32		HYDROGRAPH AT	SB26	1.	2.87	1.	1.	1.	.17
33	+								
34		3 COMBINED AT	SUMP12	145.	3.03	60.	60.	60.	4.80
35	+								
36		ROUTED TO	ROUTE	143.	3.13	57.	57.	57.	4.80
37	+								
38		HYDROGRAPH AT	SB27	0.	2.07	0.	0.	0.	.03
39	+								
40		HYDROGRAPH AT	SB28	8.	2.17	3.	3.	3.	.16
41	+								

3 COMBINED AT

SUMPT13

148.

3.13

60.

60.

60.

4.99

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

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HISTORIC

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 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

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

HEC-1 INPUT

PAGE 1

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

LINE

ID PINE CREEK DRAINAGE BASIN - 6HR, HISTORIC (100 YR)

*** FREE ***

*DIAGRAM

IT 2 0 0 181
 IO 5

KK SB1

KM SCS RUNOFF COMPUTATION

BA .2421

IN 8

PB 3.5

PI .009 .009 .009 .018 .018 .020 .018 .073 .036 .018 .018

PI 2.186 .109 .109 .073 .073 .036 .036 .036 .018 .018 .018

PI .055 .015 .036 .018 .018 .018 .018 .009 .009 .009 .009

PI .018 .018 .018 .018 .018 .018 .018 .009 .009 .009 .009

PI .009 .009 .009 .009 .009 .009 .009 .009 .009 .009 .009

LS 0 70

UD 1.23

KK SB3

KM SCS RUNOFF COMPUTATION

BA .3593

LS 0 70

UD .71

KK SUMMPT1

KM COMBINE 1 AND 3

HC 2

KK ROUTEPT.1 TO PT.4

RK 5500 .0284 .040 TRAP 50 2

KK SB9

KM SCS RUNOFF - SUBBASIN NO. 9/WITH MAIN CHANNEL

BA .1765

LS 0 69

UD .49

31 KK SB10
32 KM SCS RUNOFF COMPUTATION
33 BA .1468
34 LS 0 69
35 UD .48

36 KK SUMPT4
37 KM COMBINE PT.1, 9 AND 10
38 HC 3

39 KK ROUTEPT.4 TO PT.6
40 RK 1600 .025 .040 TRAP 50 4.5

HEC-1 INPUT

PAGE 2

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

41 KK SB2
42 KM SCS RUNOFF SUBBASIN NO. 2
43 BA .1796
44 LS 0 70
45 UD 1.60

46 KK ROUTETO PT.2A
47 RK 2000 .028 .04 TRAP 25 4

48 KK SB4A
49 KM SCS RUNOFF - SUBBASIN NO. 4A
50 BA .2062
51 LS 0 70
52 UD .31

53 KK SUMPT2A
54 KM SUMMARY SB2 AND SB4A
55 HC 2

56 KK ROUTETO PT 2B
57 RK 2747 .028 .040 TRAP 25 4

58 KK SB4B
59 KM SCS RUNOFF COMPUTATION SUBBASIN NO 4B
60 BA .1460
61 LS 0 70
62 UD .24

63 KK SB5
64 KM SCS RUNOFF - SUBBASIN NO. 5
65 BA .2359
66 LS 0 70
67 UD 1.09

68 KK SUMPT2B
69 KM COMBINE SUBBASINS 2,4 AND 5
70 HC 3

71 KK ROUTEPT.2 TO SB6
72 RK 2100 .025 .040 TRAP 10 10

73 KK SB6
74 KM SCS RUNOFF - SUBBASIN NO. 6
75 BA .0797
76 LS 0 70
77 UD .66

78 KK COMBINEPT.2 ROUTED WITH SB6
79 HC 2

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

80	KK	ROUTETO PT. 3							
81	RK	1340	.025	.040	TRAP	30	2		
82	KK	SB7							
83	KM	SCS RUNOFF - SUBBASIN NO. 7							
84	BA	.2624							
85	LS	0	66						
86	UD	.81							
87	KK	SB8							
88	KM	SCS RUNOFF - SUBBASIN NO. 8							
89	BA	.1406							
90	LS	0	67						
91	UD	.53							
92	KK	SUMPT3							
93	KM	COMBINE PT. 2 ROUTED WITH 6,7 AND 8							
94	HC	3							
95	KK	ROUTEPT.3 TO PT.5							
96	RK	3700	.025	.040	TRAP	30	5		
97	KK	SB11							
98	KM	SCS RUNOFF - SUBBASIN NO. 11							
99	BA	.1250							
100	LS	0	65						
101	UD	.67							
102	KK	SB12							
103	KM	SCS RUNOFF - SUBBASIN NO. 12							
104	BA	.1718							
105	LS	0	63						
106	UD	.73							
107	KK	SUMPT5							
108	KM	COMBINE PT. 3 WITH SUBBASINS 11 AND 12							
109	HC	3							
110	KK	ROUTEPT.5 TO PT.6							
111	RK	1720	.023	.040	TRAP	25	10		
112	KK	SB13							
113	KM	SCS RUNOFF - SUBBASIN NO. 13							
114	BA	.1664							
115	LS	0	55						
116	UD	.94							
117	KK	SB15							
118	KM	SCS RUNOFF - SUBBASIN NO. 15							
119	BA	.0843							
120	LS	0	65						
121	UD	.34							

HEC-1 INPUT

PAGE 4

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

122	KK	SUMPT6							
123	KM	COMBINE PT. 4, PT.5, WITH SUBBASINS 13 AND 15							
124	HC	4							

125 KK ROUTEPT.6 TO PT.7
126 RK 1850 .02 .040 TRAP 60 3

127 KK SB14
128 KM SCS RUNOFF - SUBBASIN NO. 14
129 BA .2952

130 LS 0 57
131 UD .83

132 KK SB16
133 KM SCS RUNOFF - SUBBASIN NO.16
134 BA .0359

135 LS 0 63
136 UD .17

137 KK SUMPT7
138 KM COMBINE PT.6, SUBBASIN NO 14 AND 16
139 HC 3

140 KK ROUTEPT.7 TO PT.8
141 RK 1740 .01 .040 TRAP 30 5

142 KK SB19
143 KM SCS RUNOFF - SUBBASIN NO. 19
144 BA .2210
145 LS 0 56
146 UD 1.24

147 KK ROUTESB19 TO PT.8
148 RK 1600 .035 .040 TRAP 10 3

149 KK SB17
150 KM SCS RUNOFF - SUBBASIN NO. 17
151 BA .1203
152 LS 0 55
153 UD .55

154 KK COMBINESUBBASINS NO 17 AND 19
155 HC 2

156 KK SB18
157 KM SCS RUNOFF - SUBBASIN NO. 18
158 BA .1062
159 LS 0 55
160 UD .41

HEC-1 INPUT

PAGE 5

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

161 KK SUMPT8
162 KM COMBINE PT.7, SUBBASINS 17,18,19
163 HC 3

164 KK ROUTEPT.8 TO PT.9
165 RK 4150 .01 .040 TRAP 25 5

166 KK SB20
167 KM SCS RUNOFF - SUBBASIN NO. 20
168 BA .2640
169 LS 0 56
170 UD 1.07

171 KK SB21
172 KM SCS RUNOFF - SUBBASIN NO. 21
173 BA .1234

174 LS 0 60
175 UD .48

176 KK SB22
177 KM SCS RUNOFF - SUBBASIN NO. 22
178 BA .1624
179 LS 0 55
180 UD 1.24

181 KK ROUTESB22 TO PT.9
182 RK 3200 .04 .040 TRAP 10 10

183 KK SB25A
184 KM SCS RUNOFF - SUBBASIN NO. 25A
185 BA .0875
186 LS 0 65
187 UD .73

188 KK COMBINESB22 AND SB25A
189 HC 2

190 KK SUMPT9
191 KM COMBINE PT.8, SUBBASINS 20 AND 21, AND 22 AND 25
192 HC 4

193 KK ROUTEPT.9 TO PT. 10
194 RK 1450 .02 .040 TRAP 20 3

195 KK SB25B
196 KM SCS RUNOFF - SUBBASIN NO 25B
197 BA .0531
198 LS 0 65
199 UD .45

1

HEC-1 INPUT

PAGE 6

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

200 KK SUMPT10
201 KM SUMMARY SB25B AND POND NO1 ROUTED
202 HC 2

203 KK SB23
204 KM SCS RUNOFF - SUBBASIN NO. 23
205 BA .2515
206 LS 0 55
207 UD 2.02

208 KK ROUTESB23 TO PT.11
209 RK 4100 .03 .040 TRAP 10 10

210 KK SB24
211 KM SCS RUNOFF - SUBBASIN NO. 24
212 BA .1874
213 LS 0 63
214 UD .71

215 KK SUMPT11
216 KM SUMMARY SUBBASIN NO 23 AND 24
217 HC 2

218 KK SB26
219 KM SCS RUNOFF - SUBBASIN NO 26
220 BA .1703
221 LS 0 58
222 UD .80

223 KK SUMPT12
 224 KM SUMMARY OF PTS 10 AND 11 AND SUBBASIN NO. 26
 225 HC 3

226 KK ROUTE PT. 12 TO PT. 13
 227 RK 4707 .0075 .015 TRAP 25.5 3
 228 KK SB27
 229 KM SCS RUNOFF - SUBBASIN NO 27
 230 BA .0312
 231 LS 0 58
 232 UD .17
 233 KK SB28
 234 KM SCS RUNOFF - SUBBASIN NO 28
 235 BA .1609
 236 LS 0 65
 237 UD .55
 238 KK SUMPT13
 239 KM SUMMARY PT.12, SUBBASIN 27 AND 28
 240 HC 3
 241 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
 16 SB3
 21 SUMMPT1.....
 V
 24 ROUTE
 26 SB9
 31 SB10
 36 SUMMPT4.....
 V
 39 ROUTE
 41 SB2
 V
 46 ROUTE
 48 SB4A

53 SUMPT2A.....
 V

56	ROUTE	
58		SB48
63		SB5
68	SUMPT2B	
71	ROUTE	
73		SB6
78	COMBINE	
80	ROUTE	
82		SB7
87		SB8
92	SUMPT3	
95	ROUTE	
97		SB11
102		SB12
107	SUMPT5	
110	ROUTE	
112		SB13
117		SB15
122	SUMPT6	
125	ROUTE	
127		SB14
132		SB16

137 SUMPT7.....

V

140 ROUTE

142 SB19

V

147 ROUTE

V

149 SB17

154 COMBINE.....

156 SB18

161 SUMPT8.....

V

164 ROUTE

166 SB20

171 SB21

176 SB22

V

181 ROUTE

V

183 SB25A

188 COMBINE.....

190 SUMPT9.....

V

193 ROUTE

V

195 SB25B

200 SUMPT10.....

203 SB23

V

208 ROUTE

V

210 SB24

215

SUMPT11.....

218

SB26

223

SUMP12.....

V

V

226

ROUTE

228

SB27

233

SB28

238

SUMPT13.....

(***) 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 - 6HR, HISTORIC (100 YR)

3 IO

OUTPUT CONTROL VARIABLES

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

IT

HYDROGRAPH TIME DATA

NMIN 2 MINUTES IN COMPUTATION INTERVAL
IDATE 1 0 STARTING DATE
ITIME 0000 STARTING TIME
NQ 181 NUMBER OF HYDROGRAPH ORDINATES
NDDATE 1 0 ENDING DATE
NDTIME 0600 ENDING TIME

COMPUTATION INTERVAL .03 HOURS
TOTAL TIME BASE 6.00 HOURS

ENGLISH UNITS

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

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6 HOUR	24 HOUR	72 HOUR			
HYDROGRAPH AT	SB1	64.	2.80	24.	24.	24.	.24		
HYDROGRAPH AT	SB3	146.	2.23	37.	37.	37.	.36		
2 COMBINED AT	SUMMPT1	189.	2.33	61.	61.	61.	.60		
ROUTED TO	ROUTE	184.	2.53	58.	58.	58.	.60		
HYDROGRAPH AT	SB9	89.	1.97	18.	18.	18.	.18		
HYDROGRAPH AT	SB10	76.	1.97	15.	15.	15.	.15		
3 COMBINED AT	SUMPT4	268.	2.33	90.	90.	90.	.92		
ROUTED TO	ROUTE	267.	2.37	89.	89.	89.	.92		
HYDROGRAPH AT	SB2	39.	3.20	17.	17.	17.	.18		
ROUTED TO	ROUTE	39.	3.30	16.	16.	16.	.18		
HYDROGRAPH AT	SB4A	161.	1.77	22.	22.	22.	.21		
2 COMBINED AT	SUMPT2A	161.	1.77	38.	38.	38.	.39		
ROUTED TO	ROUTE	157.	1.83	38.	38.	38.	.39		
HYDROGRAPH AT	SB4B	139.	1.70	16.	16.	16.	.15		
HYDROGRAPH AT	SB5	68.	2.63	24.	24.	24.	.24		
3 COMBINED AT	SUMPT2B	277.	1.77	77.	77.	77.	.77		
ROUTED TO	ROUTE	269.	1.83	76.	76.	76.	.77		
HYDROGRAPH AT	SB4	34	2.17	9	9	9	.02		

2 COMBINED AT

COMBINE

292.

1.87

84.

84.

84.

.85

ROUTED TO

ROUTE

290.

1.90

83.

83.

83.

.85

HYDROGRAPH AT

SB7

72.

2.33

21.

21.

21.

.26

HYDROGRAPH AT

SB8

58.

2.03

12.

12.

12.

.14

3 COMBINED AT

SUMPT3

383.

1.93

117.

117.

117.

1.25

ROUTED TO

ROUTE

369.

2.07

115.

115.

115.

1.25

HYDROGRAPH AT

SB11

37.

2.20

10.

10.

10.

.13

HYDROGRAPH AT

SB12

40.

2.27

12.

12.

12.

.17

3 COMBINED AT

SUMPT5

440.

2.10

136.

136.

136.

1.55

ROUTED TO

ROUTE

438.

2.13

135.

135.

135.

1.55

HYDROGRAPH AT

SB13

14.

2.63

6.

6.

6.

.17

HYDROGRAPH AT

SB15

42.

1.80

7.

7.

7.

.08

4 COMBINED AT

SUMPT6

718.

2.20

236.

236.

236.

2.72

ROUTED TO

ROUTE

717.

2.23

234.

234.

234.

2.72

HYDROGRAPH AT

SB14

35.

2.47

12.

12.

12.

.30

HYDROGRAPH AT

SB16

25.

1.63

3.

3.

3.

.04

3 COMBINED AT

SUMPT7

753.

2.23

248.

248.

248.

3.05

ROUTED TO

ROUTE

751.

2.30

246.

246.

246.

3.05

HYDROGRAPH AT

SB19

18.

2.97

8.

8.

8.

.22

ROUTED TO

ROUTE

18.

3.03

8.

8.

8.

.22

HYDROGRAPH AT

SB17

15.

2.13

4.

4.

4.

.12

2 COMBINED AT

COMBINE

292.

1.87

84.

84.

84.

.85

HYDROGRAPH AT

SB18

15.

1.93

4.

4.

4.

.11

3 COMBINED AT

SUMPT8

784.

2.30

261.

261.

261.

3.50

ROUTED TO

ROUTE

775.

2.43

254.

254.

254.

3.50

HYDROGRAPH AT

SB20

23.

2.77

10.

10.

10.

.26

HYDROGRAPH AT

SB21

30.

2.00

7.

7.

7.

.12

HYDROGRAPH AT

SB22

12.

3.00

5.

5.

5.

.16

ROUTED TO

ROUTE

11.

3.20

5.

5.

5.

.16

HYDROGRAPH AT

SB25A

24.

2.27

7.

7.

7.

.09

2 COMBINED AT

COMBINE

28.

2.47

12.

12.

12.

.25

4 COMBINED AT

SUMPT9

841.

2.40

282.

282.

282.

4.14

ROUTED TO

ROUTE

841.

2.43

280.

280.

280.

4.14

HYDROGRAPH AT

SB25B

21.

1.93

4.

4.

4.

.05

2 COMBINED AT

SUMPT10

851.

2.43

285.

285.

285.

4.19

HYDROGRAPH AT

SB23

14.

4.07

7.

7.

7.

.25

ROUTED TO

ROUTE

14.

4.33

6.

6.

6.

.25

HYDROGRAPH AT

SB24

45.

2.23

13.

13.

13.

.19

2 COMBINED AT

SUMPT11

45.

2.27

19.

19.

19.

.44

HYDROGRAPH AT

SB26

23.

2.40

8.

8.

8.

.17

3 COMBINED AT

SUMPT12

917.

2.43

311.

311.

311.

4.80

ROUTED TO

ROUTE

914.

2.50

306.

306.

306.

4.80

HYDROGRAPH AT

SB27

13.

1.63

2.

2.

2.

.03

HYDROGRAPH AT

3 COMBINED AT

SUMPT13

949.

2.47

320.

320.

320.

4.99

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

HISTORIC

2
4

H
O
U
R

—

5

Y
E
A
R

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

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

1

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
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1	ID	PINE CREEK DRAINAGE BASIN - 24HR, HISTORIC (5 YR)
---	----	---

*** FREE ***

*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	70
----	----	---	----

20	UD	1.23
----	----	------

21	KK	SB3
----	----	-----

22	KM	SCS RUNOFF COMPUTATION
----	----	------------------------

23	BA	.3593
----	----	-------

24	LS	0	70
----	----	---	----

25	UD	.71
----	----	-----

26	KK	SUMPT1
----	----	--------

27	KM	COMBINE 1 AND 3
----	----	-----------------

28	HC	2
----	----	---

29	KK	ROUTEPT.1 TO PT.4
----	----	-------------------

30	RK	5500	.0284	.040	TRAP	50	2
----	----	------	-------	------	------	----	---

31	KK	SB9
----	----	-----

32	KM	SCS RUNOFF - SUBBASIN NO. 9/WITH MAIN CHANNEL
----	----	---

33	BA	.1765
----	----	-------

34	LS	0	69
35	UD	.49	
36	KK	SB10	
37	KM	SCS RUNOFF COMPUTATION	
38	BA	.1468	
39	LS	0	69
40	UD	.48	

41	KK	SUMPT4	
42	KM	COMBINE PT.1, 9 AND 10	
43	HC	3	

1

HEC-1 INPUT

PAGE 2

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

44	KK	ROUTEPT.4 TO PT.6					
45	RK	1600	.025	.040	TRAP	50	4.5

46	KK	SB2		
47	KM	SCS RUNOFF SUBBASIN NO. 2		
48	BA	.1796		
49	LS	0	70	
50	UD	1.60		

51	KK	ROUTETO PT.2A					
52	RK	2000	.028	.04	TRAP	25	4

53	KK	SB4A		
54	KM	SCS RUNOFF - SUBBASIN NO. 4A		
55	BA	.2062		
56	LS	0	70	
57	UD	.31		

58	KK	SUMPT2A		
59	KM	SUMMARY SB2 AND SB4A		
60	HC	2		

61	KK	ROUTETO PT 2B					
62	RK	2747	.028	.040	TRAP	25	4

63	KK	SB4B		
64	KM	SCS RUNOFF COMPUTATION SUBBASIN NO 4A		
65	BA	.1460		
66	LS	0	70	
67	UD	.24		

68	KK	SB5		
69	KM	SCS RUNOFF - SUBBASIN NO. 5		
70	BA	.2359		
71	LS	0	70	
72	UD	1.09		

73	KK	SUMPT2		
74	KM	COMBINE SUBBASINS 2,4 AND 5		
75	HC	3		

76	KK	ROUTEPT.2 TO SB6					
77	RK	2100	.025	.040	TRAP	10	10

78	KK	SB6		
79	KM	SCS RUNOFF - SUBBASIN NO. 6		
80	BA	.0797		
81	LS	0	70	
82	UD	.66		

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

1	83	KK	COMBINEPT. 2 ROUTED WITH SB6							
2	84	HC	2							
3	85	KK	ROUTE TO PT. 3							
4	86	RK	1340 .025 .040	TRAP	30	2				
5	87	KK	SB7							
6	88	KM	SCS RUNOFF - SUBBASIN NO. 7							
7	89	BA	.2624							
8	90	LS	0 66							
9	91	UD	.81							
10	92	KK	SB8							
11	93	KM	SCS RUNOFF - SUBBASIN NO. 8							
12	94	BA	.1406							
13	95	LS	0 67							
14	96	UD	.53							
15	97	KK	SUMPT3							
16	98	KM	COMBINE PT. 2 ROUTED WITH 6,7 AND 8							
17	99	HC	3							
18	100	KK	ROUTE PT. 3 TO PT. 5							
19	101	RK	3700 .025 .040	TRAP	30	5				
20	102	KK	SB11							
21	103	KM	SCS RUNOFF - SUBBASIN NO. 11							
22	104	BA	.1250							
23	105	LS	0 65							
24	106	UD	.67							
25	107	KK	SB12							
26	108	KM	SCS RUNOFF - SUBBASIN NO. 12							
27	109	BA	.1718							
28	110	LS	0 63							
29	111	UD	.73							
30	112	KK	SUMPT5							
31	113	KM	COMBINE PT. 3 WITH SUBBASINS 11 AND 12							
32	114	HC	3							
33	115	KK	ROUTE PT. 5 TO PT. 6							
34	116	RK	1720 .023 .040	TRAP	25	10				
35	117	KK	SB13							
36	118	KM	SCS RUNOFF - SUBBASIN NO. 13							
37	119	BA	.1664							
38	120	LS	0 55							
39	121	UD	.94							

1

HEC-1 INPUT

PAGE 4

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

40	122	KK	SB15							
41	123	KM	SCS RUNOFF - SUBBASIN NO. 15							
42	124	BA	.0843							
43	125	LS	0 65							
44	126	UD	.34							
45	127	KK	SUMPT6							

128 KM COMBINE PT. 4, PT.5, WITH SUBBASINS 13 AND 15
129 HC 4

130 KK ROUTEPT.6 TO PT.7
131 RK 1850 .02 .040 TRAP 60 3

132 KK SB14
133 KM SCS RUNOFF - SUBBASIN NO. 14
134 BA .2952
135 LS 0 57
136 UD .83

137 KK SB16
138 KM SCS RUNOFF - SUBBASIN NO.16
139 BA .0359
140 LS 0 63
141 UD .17

142 KK SUMPT7
143 KM COMBINE PT.6, SUBBASIN NO 14 AND 16
144 HC 3

145 KK ROUTEPT.7 TO PT.8
146 RK 1740 .01 .040 TRAP 30 5

147 KK SB19
148 KM SCS RUNOFF - SUBBASIN NO. 19
149 BA .2210
150 LS 0 56
151 UD 1.24

152 KK ROUTESB19 TO PT.8
153 RK 1600 .035 .040 TRAP 10 3

154 KK SB17
155 KM SCS RUNOFF - SUBBASIN NO. 17
156 BA .1203
157 LS 0 55
158 UD .55

159 KK COMBINESUBBASINS NO 17 AND 19
160 HC 2

1

HEC-1 INPUT

PAGE 5

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

161 KK SB18
162 KM SCS RUNOFF - SUBBASIN NO. 18
163 BA .1062
164 LS 0 55
165 UD .41

166 KK SUMPT8
167 KM COMBINE PT.7, SUBBASINS 17,18,19
168 HC 3

169 KK ROUTEPT.8 TO PT.9
170 RK 4150 .01 .040 TRAP 25 5

171 KK SB20
172 KM SCS RUNOFF - SUBBASIN NO. 20
173 BA .2640
174 LS 0 56
175 UD 1.07

176 KK SB21
177 KM SCS RUNOFF - SUBBASIN NO. 21
178 BA .1234
179 LS 0 60
180 UD .48

181 KK SB22
182 KM SCS RUNOFF - SUBBASIN NO. 22
183 BA .1624
184 LS 0 55
185 UD 1.24

186 KK ROUTESB22 TO PT.9
187 RK 3200 .04 .040 TRAP 10 10

188 KK SB25A
189 KM SCS RUNOFF - SUBBASIN NO. 25A
190 BA .0375
191 LS 0 65
192 UD .73

193 KK COMBINESB22 AND SB25A
194 HC 2

195 KK SUMPT9
196 KM COMBINE PT.8, SUBBASINS 20 AND 21, AND 22 AND 25A
197 HC 4

198 KK ROUTEPT.9 TO PT. 10
199 RK 1450 .02 .040 TRAP 20 3

HEC-1 INPUT

PAGE 6

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

200 KK SB25B
201 KM SCS RUNOFF - SUBBASIN NO 25B
202 BA .0531
203 LS 0 65
204 UD .45

205 KK SUMPT10
206 KM SUMMARY SB25B & POND 1 ROUTED
207 HC 2

208 KK SB23
209 KM SCS RUNOFF - SUBBASIN NO. 23
210 BA .2515
211 LS 0 55
212 UD 2.02

213 KK ROUTESB23 TO PT.11
214 RK 4100 .03 .040 TRAP 10 10

215 KK SB24
216 KM SCS RUNOFF - SUBBASIN NO. 24
217 BA .1874
218 LS 0 63
219 UD .71

220 KK SUMPT11
221 KM SUMMARY SUBBASIN NO 23 AND 24
222 HC 2

223 KK SB26
224 KM SCS RUNOFF - SUBBASIN NO. 26

225 BA .1703
226 LS 0 58
227 UD .80

228 KK SUMP12

229 KM SUMMARY OF PTS 10 AND 11 AND SUBBASIN NO. 26

230 HC 3

231 KK ROUTEPT. 12 TO PT. 13

232 RK 4707 .0075 .015 TRAP 25.5 3

233 KK SB27

234 KM SCS RUNOFF - SUBBASIN NO 27

235 BA .0312

236 LS 0 58

237 UD .18

238 KK SB28

239 KM SCS RUNOFF - SUBBASIN NO 28

240 BA .1609

241 LS 0 65

242 UD .55

HEC-1 INPUT

PAGE 7

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

243 KK SUMPT13

244 KM SUMMARY PT.12, SUBBASIN 27 AND 28

245 HC 3

246 ZZ

SCHEMATIC DIAGRAM OF STREAM NETWORK

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

4 SB1

21 SB3

26 SUMPT1.....

V

V

29 ROUTE

31 SB9

36 SB10

41 SUMPT4.....

V

V

44 ROUTE

46 SB2

V

V

51	ROUTE		
53		SB4A	
58	SUMPT2A.....		
	V		
	V		
61	ROUTE		
63		SB4B	
68			SB5
73	SUMPT2.....		
	V		
	V		
76	ROUTE		
78		SB6	
83	COMBINE.....		
	V		
	V		
85	ROUTE		
87		SB7	
92			SB8
97	SUMPT3.....		
	V		
	V		
100	ROUTE		
102		SB11	
107			SB12
112	SUMPT5.....		
	V		
	V		
115	ROUTE		
117		SB13	
122			SB15
127	SUMPT6.....		
	V		
	V		

SUMPT 10...

208

SB23

V

V

213

ROUTE

215

SB24

220

SUMPT11.....

223

SB26

228

SUMPT12.....

V

V

231

ROUTE

233

SB27

238

SB28

243

SUMPT13.....

(***) 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, HISTORIC (5 YR)

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

[illegible]

HYDROGRAPH AT

2 COMBINED AT

COMBINE

SB6 11. 6.40

3.

1.

1.

.08

ROUTED TO

ROUTE

84. 6.13

31.

11.

11.

.85

HYDROGRAPH AT

SB7

19. 6.67

7.

3.

3.

.26

HYDROGRAPH AT

SB8

15. 6.27

4.

1.

1.

.14

3 COMBINED AT

SUMPT3

111. 6.27

42.

15.

15.

1.25

ROUTED TO

ROUTE

108. 6.40

41.

15.

15.

1.25

HYDROGRAPH AT

SB11

9. 6.40

3.

1.

1.

.13

HYDROGRAPH AT

SB12

9. 6.53

3.

1.

1.

.17

3 COMBINED AT

SUMPT5

126. 6.40

47.

18.

18.

1.55

ROUTED TO

ROUTE

123. 6.53

47.

18.

18.

1.55

HYDROGRAPH AT

SB13

1. 7.33

1.

0.

0.

.17

HYDROGRAPH AT

SB15

9. 6.00

2.

1.

1.

.08

4 COMBINED AT

SUMPT6

207. 6.53

83.

31.

31.

2.72

ROUTED TO

ROUTE

207. 6.67

83.

31.

31.

2.72

HYDROGRAPH AT

SB14

4. 6.93

2.

1.

1.

.30

HYDROGRAPH AT

SB16

4. 5.87

1.

0.

0.

.04

3 COMBINED AT

SUMPT7

211. 6.67

85.

32.

32.

3.05

ROUTED TO

ROUTE

209. 6.80

85.

32.

32.

3.05

HYDROGRAPH AT

SB19

2. 7.60

1.

1.

1.

.22

ROUTED TO

ROUTE

2. 7.73

1.

1.

1.

.22

HYDROGRAPH AT

SB17

1. 6.67

1.

0.

0.

.12

2 COMBINED AT

1	+	COMBINE	3.	7.73	2.	1.	1.	.34
2								
3		HYDROGRAPH AT						
4	+	SB18	1.	6.53	1.	0.	0.	.11
5								
6		3 COMBINED AT						
7	+	SUMPT8	212.	6.80	88.	33.	33.	3.50
8								
9		ROUTED TO						
10	+	ROUTE	210.	6.93	86.	33.	33.	3.50
11								
12		HYDROGRAPH AT						
13	+	SB20	3.	7.33	2.	1.	1.	.26
14								
15		HYDROGRAPH AT						
16	+	SB21	5.	6.27	2.	1.	1.	.12
17								
18		HYDROGRAPH AT						
19	+	SB22	1.	7.87	1.	0.	0.	.16
20								
21		ROUTED TO						
22	+	ROUTE	1.	8.27	1.	0.	0.	.16
23								
24		HYDROGRAPH AT						
25	+	SB25A	6.	6.53	2.	1.	1.	.09
26								
27		2 COMBINED AT						
28	+	COMBINE	6.	6.53	3.	1.	1.	.25
29								
30		4 COMBINED AT						
31	+	SUMPT9	220.	6.93	92.	36.	36.	4.14
32								
33		ROUTED TO						
34	+	ROUTE	219.	6.93	92.	36.	36.	4.14
35								
36		HYDROGRAPH AT						
37	+	SB25B	5.	6.13	1.	0.	0.	.05
38								
39		2 COMBINED AT						
40	+	SUMPT10	221.	6.93	93.	36.	36.	4.19
41								
42		HYDROGRAPH AT						
43	+	SB23	1.	8.93	1.	1.	1.	.25
44								
45		ROUTED TO						
46	+	ROUTE	1.	9.33	1.	1.	1.	.25
47								
48		HYDROGRAPH AT						
49	+	SB24	10.	6.53	4.	1.	1.	.19
50								
51		2 COMBINED AT						
52	+	SUMPT11	10.	6.53	4.	2.	2.	.44
53								
54		HYDROGRAPH AT						
55	+	SB26	3.	6.80	2.	1.	1.	.17
56								
57		3 COMBINED AT						
58	+	SUMP12	232.	6.93	99.	39.	39.	4.80
59								
60		ROUTED TO						
61	+	ROUTE	229.	7.07	98.	38.	38.	4.80
62								
63		HYDROGRAPH AT						
64	+	SB27	1.	5.87	0.	0.	0.	.03
65								
66		HYDROGRAPH AT						

SB28

13.

6.27

4.

1.

1.

.16

3 COMBINED AT

SUMPT13

236.

7.07

102.

40.

40.

4.99

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

HISTORIC

24

HOUR

100

YEAR

 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

*** FREE *** 1 ID PINE CREEK DRAINAGE BASIN - 24HR, HISTORIC (100 YR)

*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	4.4								
9	PC	.0022	.0066	.0132	.0198	.0264	.0352	.0440	.0528	.0629
10	PC	.0827	.0924	.1025	.1122	.1223	.1408	.1716	.2024	.2332
11	PC	.3300	.4400	1.7600	3.0800	3.1900	3.3000	3.3660	3.4320	3.4760
12	PC	3.5640	3.6080	3.6300	3.6520	3.6740	3.6960	3.7180	3.7400	3.7620
13	PC	3.8007	3.8170	3.8337	3.8500	3.8667	3.8830	3.8997	3.9160	3.9327
14	PC	3.9657	3.9820	3.9965	4.0106	4.0251	4.0392	4.0524	4.0656	4.0788
15	PC	4.1030	4.1140	4.1250	4.1360	4.1470	4.1580	4.1690	4.1800	4.1910
16	PC	4.2130	4.2240	4.2350	4.2460	4.2570	4.2680	4.2790	4.2900	4.3010
17	PC	4.3177	4.3230	4.3287	4.3340	4.3397	4.3450	4.3507	4.3560	4.3617
18	PC	4.3727	4.3802	4.3837	4.3890	4.3947	4.4000			
19	LS	0	70							
20	UD	1.23								
21	KK	SB3								
22	KM	SCS RUNOFF COMPUTATION								
23	BA	.3593								
24	LS	0	70							
25	UD	.71								
26	KK	SUMPT1								
27	KM	COMBINE 1 AND 3								
28	HC	2								
29	KK	ROUTEPT.1 TO PT.4								
30	RK	5500	.0284	.040						
31	KK	SB9								
32	KM	SCS RUNOFF - SUBBASIN NO. 9/LITTLE MAIN CHANNEL								

TRAP 50 2

33 BA .1765
34 LS 0 69
35 UD .49
36
37
38
39
40
41
42
43
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45
46
47
48
49
50
51
52
53
54
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63
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80
81

BA .1765
LS 0 69
UD .49
SCS RUNOFF COMPUTATION
BA .1468
LS 0 69
UD .48
KK SUMPT4
KM COMBINE PT.1, 9 AND 10
HC 3
HEC-1 INPUT
ROUTEPT.4 TO PT.6
RK 1600 .025 .040 TRAP 50 4.5
KK SB2
KM SCS RUNOFF SUBBASIN NO. 2
BA .1796
LS 0 70
UD 1.60
KK ROUTETO PT.2A
RK 2000 .028 .04 TRAP 25 4
KK SB4A
KM SCS RUNOFF - SUBBASIN NO. 4A
BA .2062
LS 0 70
UD .31
KK SUMPT2A
KM SUMMARY SB2 AND SB4A
HC 2
KK ROUTETO PT 2B
RK 2747 .028 .040 TRAP 25 4
KK SB4B
KM SCS RUNOFF COMPUTATION SUBBASIN NO 4A
BA .1460
LS 0 70
UD .24
KK SB5
KM SCS RUNOFF - SUBBASIN NO. 5
BA .2359
LS 0 70
UD 1.09
KK SUMPT2
KM COMBINE SUBBASINS 2,4 AND 5
HC 3
KK ROUTEPT.2 TO SB6
RK 2100 .025 .040 TRAP 10 10
KK SB6
KM SCS RUNOFF - SUBBASIN NO. 6
BA .0797
LS 0 70

HEC-1 INPUT

PAGE 2

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

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

1	83	KK	COMBINEPT.2 ROUTED WITH SB6							
2	84	HC	2							
3										
4	85	KK	ROUTE TO PT.3							
5	86	RK	1340 .025 .040	TRAP	30	2				
6										
7	87	KK	SB7							
8	88	KM	SCS RUNOFF - SUBBASIN NO. 7							
9	89	BA	.2624							
10	90	LS	0 66							
11	91	UD	.81							
12										
13	92	KK	SB8							
14	93	KM	SCS RUNOFF - SUBBASIN NO. 8							
15	94	BA	.1406							
16	95	LS	0 67							
17	96	UD	.53							
18										
19	97	KK	SUMPT3							
20	98	KM	COMBINE PT. 2 ROUTED WITH 6,7 AND 8							
21	99	HC	3							
22										
23	100	KK	ROUTEPT.3 TO PT.5							
24	101	RK	3700 .025 .040	TRAP	30	5				
25										
26	102	KK	SB11							
27	103	KM	SCS RUNOFF - SUBBASIN NO. 11							
28	104	BA	.1250							
29	105	LS	0 65							
30	106	UD	.67							
31										
32	107	KK	SB12							
33	108	KM	SCS RUNOFF - SUBBASIN NO. 12							
34	109	BA	.1718							
35	110	LS	0 63							
36	111	UD	.73							
37										
38	112	KK	SUMPT5							
39	113	KM	COMBINE PT. 3 WITH SUBBASINS 11 AND 12							
40	114	HC	3							
41										
42	115	KK	ROUTEPT.5 TO PT.6							
43	116	RK	1720 .023 .040	TRAP	25	10				
44										
45	117	KK	SB13							
46	118	KM	SCS RUNOFF - SUBBASIN NO. 13							
47	119	BA	.1664							
48	120	LS	0 55							
49	121	UD	.94							

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

55	122	KK	SB15							
56	123	KM	SCS RUNOFF - SUBBASIN NO. 15							
57	124	BA	.0843							
58	125	LS	0 65							
59	126	UD	.34							

127 KK SUMPT6
128 KM COMBINE PT. 4, PT.5, WITH SUBBASINS 13 AND 15
129 HC 4

130 KK ROUTEPT.6 TO PT.7
131 RK 1850 .02 .040 TRAP 60 3

132 KK SB14
133 KM SCS RUNOFF - SUBBASIN NO. 14
134 BA .2952
135 LS 0 57
136 UD .83

137 KK SB16
138 KM SCS RUNOFF - SUBBASIN NO.16
139 BA .0359
140 LS 0 63
141 UD .17

142 KK SUMPT7
143 KM COMBINE PT.6, SUBBASIN NO 14 AND 16
144 HC 3

145 KK ROUTEPT.7 TO PT.8
146 RK 1740 .01 .040 TRAP 30 5

147 KK SB19
148 KM SCS RUNOFF - SUBBASIN NO. 19
149 BA .2210
150 LS 0 56
151 UD 1.24

152 KK ROUTESB19 TO PT.8
153 RK 1600 .035 .040 TRAP 10 3

154 KK SB17
155 KM SCS RUNOFF - SUBBASIN NO. 17
156 BA .1203
157 LS 0 55
158 UD .55

159 KK COMBINESUBBASINS NO 17 AND 19
160 HC 2

HEC-1 INPUT

PAGE 5

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

161 KK SB18
162 KM SCS RUNOFF - SUBBASIN NO. 18
163 BA .1062
164 LS 0 55
165 UD .41

166 KK SUMPT8
167 KM COMBINE PT.7, SUBBASINS 17,18,19
168 HC 3

169 KK ROUTEPT.8 TO PT.9
170 RK 4150 .01 .040 TRAP 25 5

171 KK SB20
172 KM SCS RUNOFF - SUBBASIN NO. 20
173 BA .2640
174 LS 0 56
175 UD 1.07

176 KK SB21
177 KM SCS RUNOFF - SUBBASIN NO. 21
178 BA .1234
179 LS 0 60
180 UD .48

181 KK SB22
182 KM SCS RUNOFF - SUBBASIN NO. 22
183 BA .1624
184 LS 0 55
185 UD 1.24

186 KK ROUTESB22 TO PT.9
187 RK 3200 .04 .040 TRAP 10 10

188 KK SB25A
189 KM SCS RUNOFF - SUBBASIN NO. 25A
190 BA .0875
191 LS 0 65
192 UD .73

193 KK COMBINESB22 AND SB25A
194 HC 2

195 KK SUMPT9
196 KM COMBINE PT.8, SUBBASINS 20 AND 21, AND 22 AND 25A
197 HC 4

198 KK ROUTEPT.9 TO PT. 10
199 RK 1430 .02 .040 TRAP 20 3

HEC-1 INPUT

PAGE 6

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

200 KK SB25B
201 KM SCS RUNOFF - SUBBASIN NO 25B
202 BA .0531
203 LS 0 65
204 UD .45

205 KK SUMPT10
206 KM SUMMARY SB25B & POND 1 ROUTED
207 HC 2

208 KK SB23
209 KM SCS RUNOFF - SUBBASIN NO. 23
210 BA .2515
211 LS 0 55
212 UD 2.02

213 KK ROUTESB23 TO PT.11
214 RK 4100 .03 .040 TRAP 10 10

215 KK SB24
216 KM SCS RUNOFF - SUBBASIN NO. 24
217 BA .1874
218 LS 0 63
219 UD .71

220 KK SUMPT11
221 KM SUMMARY SUBBASIN NO 23 AND 24
222 HC 2

223 KK SB26

224 KM SCS RUNOFF - SUBBASIN NO 26
 225 BA .1703
 226 LS 0 58
 227 UD .80

228 KK SUMP12

229 KM SUMMARY OF PTS 10 AND 11 AND SUBBASIN NO. 26
 230 HC 3

231 KK ROUTEPT. 12 TO PT. 13
 232 RK 4707 .0075 .015 TRAP 25.5 3

233 KK SB27
 234 KM SCS RUNOFF - SUBBASIN NO 27
 235 BA .0312
 236 LS 0 58
 237 UD .18

238 KK SB28
 239 KM SCS RUNOFF - SUBBASIN NO 28
 240 BA .1609

241 LS 0 65
 242 UD .55

HEC-1 INPUT

PAGE 7

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

243 KK SUMPT13
 244 KM SUMMARY PT.12, SUBBASIN 27 AND 28
 245 HC 3
 246 ZZ

SCHEMATIC DIAGRAM OF STREAM NETWORK

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

4 SB1

21 SB3

26 SUMMPT1.....

V

V

29 ROUTE

31 SB9

36 SB10

41 SUMPT4.....

V

V

44 ROUTE

46 SB2

V

V

51	ROUTE		
53		SB4A	
58	SUMPT2A.....		
	V		
	V		
61	ROUTE		
63		SB4B	
68			SB5
73	SUMPT2.....		
	V		
	V		
76	ROUTE		
78		SB6	
83	COMBINE.....		
	V		
	V		
85	ROUTE		
87		SB7	
92			SB8
97	SUMPT3.....		
	V		
	V		
100	ROUTE		
102		SB11	
107			SB12
112	SUMPT5.....		
	V		
	V		
115	ROUTE		
117		SB13	
122			SB15
127	SUMPT6.....		
	V		
	V		

130	ROUTE				
132		SB14			
137			SB16		
142	SUMPT7				
	V				
	V				
145	ROUTE				
147		SB19			
		V			
		V			
152	ROUTE				
154			SB17		
159	COMBINE				
161			SB18		
166	SUMPT8				
	V				
	V				
169	ROUTE				
171		SB20			
176			SB21		
181			SB22		
			V		
			V		
186	ROUTE				
188				SB25A	
193	COMBINE				
195	SUMPT9				
	V				
	V				
198	ROUTE				
200		SB25B			
205	SUMPT10				

208 . SB23
V
213 . ROUTE
V

215 . SB24

220 . SUMPT11.....

223 . SB26

228 . SUMP12.....
V
V

231 . ROUTE

233 . SB27

238 . SB28

243 . SUMPT13.....

(**) 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, HISTORIC (100 YR)

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

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

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SB1	79.	6.93	31.	10.	10.	.24		
HYDROGRAPH AT	SB3	179.	6.40	47.	15.	15.	.36		
2 COMBINED AT	SUMPT1	235.	6.53	78.	26.	26.	.60		
ROUTED TO	ROUTE	232.	6.67	77.	25.	25.	.60		
HYDROGRAPH AT	SB9	108.	6.13	22.	7.	7.	.18		
HYDROGRAPH AT	SB10	91.	6.13	19.	6.	6.	.15		
3 COMBINED AT	SUMPT4	364.	6.40	117.	39.	39.	.92		
ROUTED TO	ROUTE	359.	6.40	117.	39.	39.	.92		
HYDROGRAPH AT	SB2	48.	7.33	23.	8.	8.	.18		
ROUTED TO	ROUTE	48.	7.47	23.	8.	8.	.18		
HYDROGRAPH AT	SB4A	174.	6.00	27.	9.	9.	.21		
2 COMBINED AT	SUMPT2A	177.	6.00	50.	16.	16.	.39		
ROUTED TO	ROUTE	175.	6.00	49.	16.	16.	.39		
HYDROGRAPH AT	SB4B	147.	5.87	19.	6.	6.	.15		
HYDROGRAPH AT	SB5	85.	6.80	31.	10.	10.	.24		
3 COMBINED AT	SUMPT2B	322.	6.00	99.	33.	33.	.77		
ROUTED TO	ROUTE	312.	6.00	99.	33.	33.	.77		
HYDROGRAPH AT	SB6	100.	6.07	40.	7.	7.	.20		

		341.	6.00	110.	36.	36.	.85
ROUTED TO	ROUTE	338.	6.13	109.	36.	36.	.85
HYDROGRAPH AT	SB7	93.	6.53	28.	9.	9.	.26
HYDROGRAPH AT	SB8	72.	6.13	16.	5.	5.	.14
3 COMBINED AT	SUMPT3	476.	6.13	153.	51.	51.	1.25
ROUTED TO	ROUTE	466.	6.27	152.	50.	50.	1.25
HYDROGRAPH AT	SB11	48.	6.40	13.	4.	4.	.13
HYDROGRAPH AT	SB12	53.	6.40	15.	5.	5.	.17
3 COMBINED AT	SUMPT5	563.	6.27	180.	60.	60.	1.55
ROUTED TO	ROUTE	552.	6.27	180.	60.	60.	1.55
HYDROGRAPH AT	SB13	22.	6.80	8.	3.	3.	.17
HYDROGRAPH AT	SB15	51.	6.00	9.	3.	3.	.08
4 COMBINED AT	SUMPT6	949.	6.40	314.	105.	105.	2.72
ROUTED TO	ROUTE	942.	6.40	314.	105.	105.	2.72
HYDROGRAPH AT	SB14	51.	6.53	17.	6.	6.	.30
HYDROGRAPH AT	SB16	26.	5.87	3.	1.	1.	.04
3 COMBINED AT	SUMPT7	995.	6.40	335.	112.	112.	3.05
ROUTED TO	ROUTE	982.	6.53	334.	112.	112.	3.05
HYDROGRAPH AT	SB19	26.	7.07	12.	4.	4.	.22
ROUTED TO	ROUTE	26.	7.20	12.	4.	4.	.22
HYDROGRAPH AT	SB17	23.	6.27	6.	2.	2.	.12
2 COMBINED AT							

1	+	COMBINE	36.	6.80	18.	7.	7.	.34
2		HYDROGRAPH AT						
3	+	SB18	25.	6.13	5.	2.	2.	.11
4		3 COMBINED AT						
5	+	SUMPT8	1032.	6.53	357.	121.	121.	3.50
6		ROUTED TO						
7	+	ROUTE	1023.	6.53	355.	120.	120.	3.50
8		HYDROGRAPH AT						
9	+	SB20	35.	6.93	14.	5.	5.	.26
10		HYDROGRAPH AT						
11	+	SB21	41.	6.13	9.	3.	3.	.12
12		HYDROGRAPH AT						
13	+	SB22	17.	7.07	8.	3.	3.	.16
14		ROUTED TO						
15	+	ROUTE	17.	7.20	8.	3.	3.	.16
16		HYDROGRAPH AT						
17	+	SB25A	31.	6.40	9.	3.	3.	.09
18		2 COMBINED AT						
19	+	COMBINE	40.	6.67	17.	6.	6.	.25
20		4 COMBINED AT						
21	+	SUMPT9	1119.	6.53	394.	134.	134.	4.14
22		ROUTED TO						
23	+	ROUTE	1107.	6.67	394.	134.	134.	4.14
24		HYDROGRAPH AT						
25	+	SB25B	27.	6.13	5.	2.	2.	.05
26		2 COMBINED AT						
27	+	SUMPT10	1118.	6.67	399.	136.	136.	4.19
28		HYDROGRAPH AT						
29	+	SB23	19.	8.00	12.	5.	5.	.25
30		ROUTED TO						
31	+	ROUTE	19.	8.27	12.	5.	5.	.25
32		HYDROGRAPH AT						
33	+	SB24	60.	6.40	17.	6.	6.	.19
34		2 COMBINED AT						
35	+	SUMPT11	61.	6.40	27.	10.	10.	.44
36		HYDROGRAPH AT						
37	+	SB26	33.	6.53	11.	4.	4.	.17
38		3 COMBINED AT						
39	+	SUMPT12	1210.	6.53	437.	150.	150.	4.80
40		ROUTED TO						
41	+	ROUTE	1208.	6.67	436.	150.	150.	4.80
42		HYDROGRAPH AT						
43	+	SB27	16.	5.87	2.	1.	1.	.03
44		HYDROGRAPH AT						

+	5828	70.	6.27	16.	5.	5.	.10
3 COMBINED AT							
+	SUMPT13	1252.	6.67	452.	156.	156.	4.99

1	*** NORMAL END OF HEC-1 ***	1
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DEVELOPED-NO 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

*** FREE *** 1 ID PINE CREEK DRAINAGE BASIN - 6HR, DEV. NO DET (5 YEAR)

*DIAGRAM

IT 2 0 0 181
 IO 5

KK SB1
 KM SCS RUNOFF COMPUTATION

BA .2421
 IN 8
 PB 2.1
 PI .009 .009 .009 .018 .018 .020 .018 .073 .036 .146
 PI 2.186 .109 .109 .073 .073 .036 .036 .018 .018
 PI .055 .015 .036 .018 .018 .018 .022 .022 .026 .022
 PI .018 .018 .018 .018 .018 .018 .018 .009 .009 .009
 PI .009 .009 .009 .009 .009
 LS 0 81
 UD .29

KK ROUTESB1 TO PT. 1
 RK 1750 .025 .04 TRAP 34 0

KK SB3
 KM SCS RUNOFF COMPUTATION
 BA .3593
 LS 0 88
 UD .19

KK SUMMPT1
 KM COMBINE 1 AND 3
 HC 2

KK ROUTEPT.1 TO PT.4
 RK 4880 .03 .040 TRAP 10 2.5

KK SB9
 KM SCS RUNOFF - SUBBASIN NO. 9
 BA .1765

31 LS 0 79.5
32 UD .27

33 KK SB10
34 KM SCS RUNOFF COMPUTATION
35 BA .1468

36 LS 0 86
37 UD .35

38 KK SUMPT4
39 KM COMBINE PT.1, 9 AND 10
40 HC 3

1 HEC-1 INPUT

PAGE 2

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

41 KK ROUTEPT.4 TO PT.6

42 RK 1600 .010 .015 TRAP 18 1.5

43 KK SB2

44 KM SCS RUNOFF SUBBASIN NO. 2

45 BA .1796

46 LS 0 81

47 UD .19

48 KK ROUTETO PT. 2A

49 RK 1085 .04 .019 TRAP 34 0

50 RK 915 .015 .015 TRAP 8 1.5

51 KK SB4A

52 KM SUBBASIN NO 4A

53 BA .2062

54 LS 0 84

55 UD .20

56 KK SUMPT2A

57 KM SUMMARY SUBBASIN 2 AND 4A

58 HC 2

59 KK ROUTETO PT 2B

60 RK 2400 .028 .015 TRAP 8 1.5

61 KK SB4B

62 KM SCS RUNOFF SUBBASIN NO 4B

63 BA .1460

64 LS 0 90

65 UD .24

66 KK SB5

67 KM SCS RUNOFF - SUBBASIN NO. 5

68 BA .2359

69 LS 0 89

70 UD .18

71 KK SUMPT2B

72 KM COMBINE SUBBASINS 2,4 AND 5

73 HC 3

74 KK ROUTEPT.2 TO SB6

75 RK 2100 .015 .015 TRAP 15 1.5

76 KK SB6

77 KM SCS RUNOFF - SUBBASIN NO. 6

78 BA .0797

79 LS 0 88

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

81	KK	COMBINEPT.2 ROUTED WITH SB6
82	HC	2
83	KK	ROUTETO PT.3
84	RK	1340 .015 .015 TRAP 18 1.5
85	KK	SB7
86	KM	SCS RUNOFF - SUBBASIN NO. 7 / WITH MAIN CHANNEL
87	BA	.2624
88	LS	0 86
89	UD	.27
90	KK	SB8
91	KM	SCS RUNOFF - SUBBASIN NO. 8
92	BA	.1406
93	LS	0 84
94	UD	.22
95	KK	SUMPT3
96	KM	COMBINE PT. 2 ROUTED WITH 6,7 AND 8
97	HC	3
98	KK	ROUTEPT.3 TO PT.5
99	RK	2900 .010 .015 TRAP 20 1.5
100	KK	SB11
101	KM	SCS RUNOFF - SUBBASIN NO. 11 / WITH MAIN CHANNEL
102	BA	.1250
103	LS	0 83
104	UD	.23
105	KK	SB12
106	KM	SCS RUNOFF - SUBBASIN NO. 12
107	BA	.1718
108	LS	0 85
109	UD	.29
110	KK	SUMPT5
111	KM	COMBINE PT. 3 WITH SUBBASINS 11 AND 12
112	HC	3
113	KK	ROUTEPT.5 TO PT.6
114	RK	1720 .010 .015 TRAP 20 1.5
115	KK	SB13
116	KM	SCS RUNOFF - SUBBASIN NO. 13
117	BA	.1664
118	LS	0 84
119	UD	.36

HEC-1 INPUT

PAGE 4

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

120	KK	SB15
121	KM	SCS RUNOFF - SUBBASIN NO. 15
122	BA	.0843
123	LS	0 82
124	UD	.15

125 KK SUMPT6
126 KM COMBINE PT. 4, PT.5, WITH SUBBASINS 13 AND 15
127 HC 4

128 KK ROUTEPT.6 TO PT.7

129 RK 1050 .0075 .015 TRAP 25 1.5
130 RK 800 .01 .040 TRAP 30 5

131 KK SB14

132 KM SCS RUNOFF - SUBBASIN NO. 14

133 BA .2952

134 LS 0 70

135 UD .39

136 KK SB16

137 KM SCS RUNOFF - SUBBASIN NO.16

138 BA .0359

139 LS 0 75.5

140 UD .18

141 KK SUMPT7

142 KM COMBINE PT.6, SUBBASIN NO 14 AND 16

143 HC 3

144 KK ROUTEPT.7 TO PT.8

145 RK 1100 .01 .040

146 RK 640 .01 .015 TRAP 50 5
TRAP 30 1.5

147 KK SB19

148 KM SCS RUNOFF - SUBBASIN NO. 19

149 BA .2210

150 LS 0 75

151 UD .39

152 KK ROUTESB19 TO PT.8

153 RK 1600 .035 .019 TRAP 36 0

154 KK SB17

155 KM SCS RUNOFF - SUBBASIN NO. 17

156 BA .1203

157 LS 0 71

158 UD .25

HEC-1 INPUT

PAGE 5

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

159 KK COMBINESUBBASINS NO 17 AND 19

160 HC 2

161 KK SB18

162 KM SCS RUNOFF - SUBBASIN NO. 18

163 BA .1062

164 LS 0 78.5

165 UD .16

166 KK SUMPT8

167 KM COMBINE PT.7, SUBBASINS 17,18,19

168 HC 3

169 KK ROUTEPT.8 TO PT.9

170 RK 3960 .01 .040 TRAP 50 5

171 KK SB20

172 KM SCS RUNOFF - SUBBASIN NO. 20

173 BA .2640

174 LS 0 70.5
175 UD .18

176 KK SB21
177 KM SCS RUNOFF - SUBBASIN NO. 21
178 BA .1234
179 LS 0 80.5
180 UD .27

181 KK SB22
182 KM SCS RUNOFF - SUBBASIN NO. 22
183 BA .1624
184 LS 0 82
185 UD .35

186 KK ROUTESB22 TO PT.9
187 RK 2350 .04 .013
188 RK 850 .04 .013 CIRC 3.5
CIRC 4

189 KK SB25A
190 KM SCS RUNOFF - SUBBASIN NO. 25A
191 BA .0875
192 LS 0 91
193 UD .18

194 KK COMBINESB22 AND SB25A
195 HC 2

196 KK SUMPT9
197 KM COMBINE PT.8, SUBBASINS 20 AND 21, AND 22 AND 25A
198 HC 4

HEC-1 INPUT

PAGE 6

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

199 KK ROUTEPT.9 TO PT. 10
200 RK 1450 .02 .015 DEEP 11.5 0

201 KK SB25B
202 KM SCS RUNOFF - SUBBASIN NO 25B
203 BA .0531
204 LS 0 91
205 UD .15

206 KK SUMPT10
207 KM SUMMARY SB25B AND POND NO1 ROUTED
208 HC 2

209 KK SB23
210 KM SCS RUNOFF - SUBBASIN NO. 23
211 BA .2515
212 LS 0 83
213 UD .35

214 KK ROUTESB23 TO PT.11
215 RK 4100 .03 .013 CIRC 4

216 KK SB24
217 KM SCS RUNOFF - SUBBASIN NO. 24
218 BA .1874
219 LS 0 91
220 UD .20

221 KK SUMPT11
222 KM SUMMARY SUBBASIN NO 23 AND 24

223 HC 2
 224 KK SB26
 225 KM SCS RUNOFF - SUBBASIN NO 26
 226 BA .1703
 227 LS 0 58
 228 UD .80

229 KK SUMPT12
 230 KM SUMMARY OF PTS 10 AND 11 AND SUBBASIN NO. 26
 231 HC 3

232 KK ROUTEPT. 12 TO PT. 13
 233 RK 4707 .0075 .015 TRAP 25.5 3

234 KK SB27
 235 KM SCS RUNOFF - SUBBASIN NO 27
 236 BA .0312
 237 LS 0 58
 238 UD .12

HEC-1 INPUT

PAGE 7

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

239 KK SB28
 240 KM SCS RUNOFF - SUBBASIN NO 28
 241 BA .1609
 242 LS 0 65
 243 UD .55

244 KK SUMPT13
 245 KM SUMMARY PT. 12, SUBBASIN 27 AND 28
 246 HC 3

247 KK ROUTETHRU LDTL#15 TO PT. 14
 248 BA .1312
 249 LS 0 80
 250 UK 2200 .025 .35 100
 251 RK 2200 .025 .040 TRAP 50 3 YES

252 KK CHAPELHILLS CHANNEL
 253 KM LDTL BASIN DATA
 254 BA 3.6098
 255 LS 0 77
 256 UD .62

257 KK SUMPT14
 258 KM SUMMARY PT 13 ROUTED AND CHAPEL HILLS MALL
 259 HC 2

260 KK ROUTETOPT. 15
 261 RK 1000 .025 .040 TRAP 50 3

262 KKNCOTTONWOOD
 263 KM LDTL BASIN DATA
 264 BA .8107
 265 LS 0 81
 266 UD .55

267 KK SUMPT15
 268 KM SUMMARY PT 14 ROUTED WITH N COTTONWOOD CREEK
 269 HC 2
 270 ZZ

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

1	6	SB1		
2		V		
3		V		
4	16	ROUTE		
5		.		
6		.		
7	18	SB3		
8		.		
9	23	SUMPT1		
10		V		
11		V		
12	26	ROUTE		
13		.		
14		.		
15	28	SB9		
16		.		
17		.		
18	33	SB10		
19		.		
20		.		
21	38	SUMPT4		
22		V		
23		V		
24	41	ROUTE		
25		.		
26		.		
27	43	SB2		
28		V		
29		V		
30	48	ROUTE		
31		.		
32		.		
33	51	SB4A		
34		.		
35		.		
36	56	SUMPT2A		
37		V		
38		V		
39	59	ROUTE		
40		.		
41		.		
42	61	SB4B		
43		.		
44		.		
45	66	SB5		
46		.		
47		.		
48	71	SUMPT2B		
49		V		
50		V		
51	74	ROUTE		
52		.		
53		.		
54	76	SB6		
55		.		
56		.		
57	81	COMBINE		
		V		
		V		
	83	ROUTE		

85

SB7

90

SB8

95

SUMPT3

V

V

98

ROUTE

100

SB11

105

SB12

110

SUMPT5

V

V

113

ROUTE

115

SB13

120

SB15

125

SUMPT6

V

V

128

ROUTE

131

SB14

136

SB16

141

SUMPT7

V

V

144

ROUTE

147

SB19

V

V

152

ROUTE

154

SB17

159

COMBINE

161

SB18

166

SUMPT0

169

ROUTE

171

SB20

176

SB21

181

SB22

186

ROUTE

189

SB25A

194

COMBINE

196

SUMPT9

199

ROUTE

201

SB25B

206

SUMPT10

209

SB23

214

ROUTE

216

SB24

221

SUMPT11

224

SB26

229

SUMPT12

232

ROUTE

234

SB27

239

SB28

244

SUMPT13

247

ROUTE ***

252

CHAPEL

257

SUMPT.....

260

ROUTETO

262

NCOTTONW

267

SUMPT15.....

) 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 - 6HR, DEV. NO DET (5 YEAR)

3 IO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL

IPLOT 0 PLOT CONTROL

QSCAL 0. HYDROGRAPH PLOT SCALE

27 IT

HYDROGRAPH TIME DATA

NMIN 2 MINUTES IN COMPUTATION INTERVAL

IDATE 1 0 STARTING DATE

ITIME 0000 STARTING TIME

NQ 181 NUMBER OF HYDROGRAPH ORDINATES

NDDATE 1 0 ENDING DATE

NDTIME 0600 ENDING TIME

COMPUTATION INTERVAL .03 HOURS

TOTAL TIME BASE 6.00 HOURS

ENGLISH UNITS

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

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SB1	136.	1.73	17.	17.	17.	.24		
ROUTED TO	ROUTE	136.	1.80	17.	17.	17.	.24		
HYDROGRAPH AT	SB3	497.	1.63	40.	40.	40.	.36		
2 COMBINED AT	SUMMPT1	572.	1.67	57.	57.	57.	.60		

ROUTED TO

	ROUTE	536.	1.70	57.	57.	57.	.60	
	HYDROGRAPH AT							
	SB9	91.	1.73	11.	11.	11.	.18	
	HYDROGRAPH AT							
1	SB10	107.	1.80	14.	14.	14.	.15	
2								
3	3 COMBINED AT							
4	SUMPT4	725.	1.73	82.	82.	82.	.92	
5								
6	ROUTED TO							
7	ROUTE	723.	1.73	82.	82.	82.	.92	
8								
9	HYDROGRAPH AT							
10	SB2	142.	1.63	13.	13.	13.	.18	
11								
12	ROUTED TO							
13	ROUTE	140.	1.63	13.	13.	13.	.18	
14								
15	HYDROGRAPH AT							
16	SB4A	202.	1.63	18.	18.	18.	.21	
17								
18	2 COMBINED AT							
19	SUMPT2A	342.	1.63	31.	31.	31.	.39	
20								
21	ROUTED TO							
22	ROUTE	337.	1.67	31.	31.	31.	.39	
23								
24	HYDROGRAPH AT							
25	SB4B	197.	1.67	18.	18.	18.	.15	
26								
27	HYDROGRAPH AT							
28	SB5	371.	1.60	28.	28.	28.	.24	
29								
30	3 COMBINED AT							
31	SUMPT2B	885.	1.63	77.	77.	77.	.77	
32								
33	ROUTED TO							
34	ROUTE	875.	1.67	77.	77.	77.	.77	
35								
36	HYDROGRAPH AT							
37	SB6	98.	1.63	9.	9.	9.	.08	
38								
39	2 COMBINED AT							
40	COMBINE	973.	1.67	86.	86.	86.	.85	
41								
42	ROUTED TO							
43	ROUTE	966.	1.67	85.	85.	85.	.85	
44								
45	HYDROGRAPH AT							
46	SB7	236.	1.70	26.	26.	26.	.26	
47								
48	HYDROGRAPH AT							
49	SB8	127.	1.67	12.	12.	12.	.14	
50								
51	3 COMBINED AT							
52	SUMPT3	1322.	1.67	123.	123.	123.	1.25	
53								
54	ROUTED TO							
55	ROUTE	1311.	1.70	123.	123.	123.	1.25	
56								
57	HYDROGRAPH AT							
	SB11	101.	1.67	10.	10.	10.	.13	
	HYDROGRAPH AT							

	SB12	135.	1.73	16.	16.	16.	.17
3	COMBINED AT						
	SUMPT5	1542.	1.70	149.	149.	149.	1.55
	ROUTED TO						
	ROUTE	1525.	1.70	149.	149.	149.	1.55
	HYDROGRAPH AT						
	SB13	101.	1.80	14.	14.	14.	.17
	HYDROGRAPH AT						
	SB15	86.	1.60	6.	6.	6.	.08
4	COMBINED AT						
	SUMPT6	2372.	1.73	252.	252.	252.	2.72
	ROUTED TO						
	ROUTE	2355.	1.73	251.	251.	251.	2.72
	HYDROGRAPH AT						
	SB14	41.	1.90	9.	9.	9.	.30
	HYDROGRAPH AT						
	SB16	17.	1.63	2.	2.	2.	.04
3	COMBINED AT						
	SUMPT7	2399.	1.73	261.	261.	261.	3.05
	ROUTED TO						
	ROUTE	2380.	1.73	261.	261.	261.	3.05
	HYDROGRAPH AT						
	SB19	55.	1.87	10.	10.	10.	.22
	ROUTED TO						
	ROUTE	55.	1.90	10.	10.	10.	.22
	HYDROGRAPH AT						
	SB17	26.	1.73	4.	4.	4.	.12
2	COMBINED AT						
	COMBINE	75.	1.83	14.	14.	14.	.34
	HYDROGRAPH AT						
	SB18	76.	1.60	6.	6.	6.	.11
3	COMBINED AT						
	SUMPT8	2487.	1.73	282.	282.	282.	3.50
	ROUTED TO						
	ROUTE	2381.	1.83	277.	277.	277.	3.50
	HYDROGRAPH AT						
	SB20	69.	1.63	8.	8.	8.	.26
	HYDROGRAPH AT						
	SB21	70.	1.73	8.	8.	8.	.12
	HYDROGRAPH AT						
	SB22	86.	1.80	12.	12.	12.	.16
	ROUTED TO						
	ROUTE	85.	1.80	12.	12.	12.	.16

HYDROGRAPH AT

1	SB25A	160.	1.60	12.	12.	12.	.09	1
2	2 COMBINED AT							2
3	COMBINE	204.	1.63	24.	24.	24.	.25	3
4	4 COMBINED AT							4
5	SUMPT9	2611.	1.83	318.	318.	318.	4.14	5
6	ROUTED TO							6
7	ROUTE	2609.	1.83	318.	318.	318.	4.14	7
8	HYDROGRAPH AT							8
9	SB25B	112.	1.57	7.	7.	7.	.05	9
10	2 COMBINED AT							10
11	SUMPT10	2634.	1.83	325.	325.	325.	4.19	11
12	HYDROGRAPH AT							12
13	SB23	144.	1.80	20.	20.	20.	.25	13
14	ROUTED TO							14
15	ROUTE	143.	1.83	20.	20.	20.	.25	15
16	HYDROGRAPH AT							16
17	SB24	314.	1.63	25.	25.	25.	.19	17
18	2 COMBINED AT							18
19	SUMPT11	386.	1.67	45.	45.	45.	.44	19
20	HYDROGRAPH AT							20
21	SB26	1.	2.87	1.	1.	1.	.17	21
22	3 COMBINED AT							22
23	SUMPT12	2906.	1.83	371.	371.	371.	4.80	23
24	ROUTED TO							24
25	ROUTE	2837.	1.87	367.	367.	367.	4.80	25
26	HYDROGRAPH AT							26
27	SB27	0.	2.03	0.	0.	0.	.03	27
28	HYDROGRAPH AT							28
29	SB28	8.	2.17	3.	3.	3.	.16	29
30	3 COMBINED AT							30
31	SUMPT13	2843.	1.87	370.	370.	370.	4.99	31
32	HYDROGRAPH AT							32
33	ROUTE	2805.	1.90	374.	374.	374.	5.12	33
34	HYDROGRAPH AT							34
35	CHAPEL	778.	2.13	188.	188.	188.	3.61	35
36	2 COMBINED AT							36
37	SUMPT	3428.	1.93	561.	561.	561.	8.73	37
38	ROUTED TO							38
39	ROUTETO	3425.	1.93	560.	560.	560.	8.73	39
40	HYDROGRAPH AT							40
41	NCOTTONW	273.	2.03	57.	57.	57.	.81	41
42	2 COMBINED AT							42
43	SUMPT15	3684.	1.93	616.	616.	616.	9.54	43

NORMAL END OF HEC-1 ***

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DEVELOPED-NO 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
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*** FREE *** 1 ID PINE CREEK DRAINAGE BASIN - 6HR, DEV. NO DET (100 YEAR)

*DIAGRAM

2	IT	2	0	0	181
3	IO	5			

4	KK	SB1			
5	KM	SCS RUNOFF COMPUTATION			
6	BA	.2421			
7	IN	8			
8	PB	3.5			

9	PI	.009	.009	.009	.018	.018	.020	.018	.073	.036	.146
10	PI	2.186	.109	.109	.073	.073	.036	.036	.036	.018	.018
11	PI	.055	.015	.036	.018	.018	.018	.022	.022	.026	.022
12	PI	.018	.018	.018	.018	.018	.018	.018	.009	.009	.009
13	PI	.009	.009	.009	.009	.009					
14	LS	0	81								
15	UD	.37									

16 KK ROUTESB1 TO PT. 1

17	RK	1750	.025	.04	TRAP	34	0
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18	KK	SB3			
19	KM	SCS RUNOFF COMPUTATION			
20	BA	.3593			
21	LS	0	88		
22	UD	.27			

23 KK SUMMPT1

24 KM COMBINE 1 AND 3

25 HC 2

26 KK ROUTEPT.1 TO PT.4

27	RK	4880	.03	.040	TRAP	10	2.5
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28 KK SB9

29 KM SCS RUNOFF - SUBBASIN NO. 9

30 BA .1765

32 UD .27
33 KK SB10
34 KM SCS RUNOFF COMPUTATION
35 BA .1468
36 LS 0 86
37 UD .35

38 KK SUMPT4
39 KM COMBINE PT.1, 9 AND 10
40 HC 3

HEC-1 INPUT

PAGE 2

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

41 KK ROUTEPT.4 TO PT.6
42 RK 1600 .010 .015 TRAP 18 1.5

43 KK SB2
44 KM SCS RUNOFF SUBBASIN NO. 2
45 BA .1796
46 LS 0 81
47 UD .24

48 KK ROUTETO PT. 2A
49 RK 1085 .04 .019 TRAP 34 0
50 RK 915 .015 .015 TRAP 8 1.5

51 KK SB4A
52 KM SUBBASIN NO 4A
53 BA .2062
54 LS 0 84
55 UD .26

56 KK SUMPT2A
57 KM SUMMARY SUBBASIN 2 AND 4A
58 HC 2

59 KK ROUTETO PT 2B
60 RK 2400 .028 .015 TRAP 8 1.5

61 KK SB48
62 KM SCS RUNOFF SUBBASIN NO 4B
63 BA .1460
64 LS 0 90
65 UD .24

66 KK SB5
67 KM SCS RUNOFF - SUBBASIN NO. 5
68 BA .2359
69 LS 0 89
70 UD .37

71 KK SUMPT2B
72 KM COMBINE SUBBASINS 2,4 AND 5
73 HC 3

74 KK ROUTEPT.2 TO SB6
75 RK 2100 .015 .015 TRAP 15 1.5

76 KK SB6
77 KM SCS RUNOFF - SUBBASIN NO. 6
78 BA .0797
79 LS 0 83

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

81		KK	COMBINE PT. 2 ROUTED WITH SB6					
82		HC	2					
83		KK	ROUTE TO PT. 3					
84		RK	1340	.015	.015	TRAP	18	1.5
85		KK	SB7					
86		KM	SCS RUNOFF - SUBBASIN NO. 7 / WITH MAIN CHANNEL					
87		BA	.2624					
88		LS	0	86				
89		UD	.27					
90		KK	SB8					
91		KM	SCS RUNOFF - SUBBASIN NO. 8					
92		BA	.1406					
93		LS	0	84				
94		UD	.22					
95		KK	SUMPT 3					
96		KM	COMBINE PT. 2 ROUTED WITH 6, 7 AND 8					
97		HC	3					
98		KK	ROUTE PT. 3 TO PT. 5					
99		RK	2900	.010	.015	TRAP	20	1.5
100		KK	SB11					
101		KM	SCS RUNOFF - SUBBASIN NO. 11 / WITH MAIN CHANNEL					
102		BA	.1250					
103		LS	0	83				
104		UD	.23					
105		KK	SB12					
106		KM	SCS RUNOFF - SUBBASIN NO. 12					
107		BA	.1713					
108		LS	0	85				
109		UD	.35					
110		KK	SUMPT 5					
111		KM	COMBINE PT. 3 WITH SUBBASINS 11 AND 12					
112		HC	3					
113		KK	ROUTE PT. 5 TO PT. 6					
114		RK	1720	.010	.015	TRAP	20	1.5
115		KK	SB13					
116		KM	SCS RUNOFF - SUBBASIN NO. 13					
117		BA	.1664					
118		LS	0	84				
119		UD	.53					

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10.....
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120	KK	SB15	
121	KM	SCS RUNOFF - SUBBASIN NO. 15	
122	BA	.0843	
123	LS	0	82
124	UD	.15	

125 KK SUMPT6
126 KM COMBINE PT. 4, PT.5, WITH SUBBASINS 13 AND 15
127 HC 4

128 KK ROUTEPT.6 TO PT.7
129 RK 1050 .0075 .015 TRAP 25 1.5
130 RK 800 .01 .040 TRAP 30 5

131 KK SB14
132 KM SCS RUNOFF - SUBBASIN NO. 14
133 BA .2952
134 LS 0 70
135 UD .39

136 KK SB16
137 KM SCS RUNOFF - SUBBASIN NO.16
138 BA .0359
139 LS 0 75.5
140 UD .18

141 KK SUMPT7
142 KM COMBINE PT.6, SUBBASIN NO 14 AND 16
143 HC 3

144 KK ROUTEPT.7 TO PT.8
145 RK 1100 .01 .040 TRAP 50 5
146 RK 640 .01 .015 TRAP 30 1.5

147 KK SB19
148 KM SCS RUNOFF - SUBBASIN NO. 19
149 BA .2210
150 LS 0 75
151 UD .46

152 KK ROUTESB19 TO PT.8
153 RK 1600 .035 .019 TRAP 36 0

154 KK SB17
155 KM SCS RUNOFF - SUBBASIN NO. 17
156 BA .1203
157 LS 0 71
158 UD .25

HEC-1 INPUT

PAGE 5

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

159 KK COMBINESUBBASINS NO 17 AND 19
160 HC 2

161 KK SB18
162 KM SCS RUNOFF - SUBBASIN NO. 18
163 BA .1062
164 LS 0 78.5
165 UD .16

166 KK SUMPT8
167 KM COMBINE PT.7, SUBBASINS 17,18,19
168 HC 3

169 KK ROUTEPT.8 TO PT.9
170 RK 3960 .01 .040 TRAP 50 5

171 KK SB20
172 KM SCS RUNOFF - SUBBASIN NO. 20
173 BA .2640

174 LS 0 70.5
175 UD .13

176 KK SB21
177 KM SCS RUNOFF - SUBBASIN NO. 21
178 BA .1234
179 LS 0 80.5
180 UD .27

181 KK SB22
182 KM SCS RUNOFF - SUBBASIN NO. 22
183 BA .1624
184 LS 0 82
185 UD .35

186 KK ROUTESB22 TO PT.9
187 RK 2350 .04 .013 CIRC 3.5
188 RK 850 .04 .013 CIRC 4

189 KK SB25A
190 KM SCS RUNOFF - SUBBASIN NO. 25A
191 BA .0875
192 LS 0 91
193 UD .26

194 KK COMBINESB22 AND SB25A
195 HC 2

196 KK SUMPT9
197 KM COMBINE PT.3, SUBBASINS 20 AND 21, AND 22 AND 25A
198 HC 4

HEC-1 INPUT

PAGE 6

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

199 KK ROUTEPT.9 TO PT. 10
200 RK 1450 .02 .015 DEEP 11.5 0

201 KK SB25B
202 KM SCS RUNOFF - SUBBASIN NO 25B
203 BA .0531
204 LS 0 91
205 UD .15

206 KK SUMPT10
207 KM SUMMARY SB25B AND POND NO1 ROUTED
208 HC 2

209 KK SB23
210 KM SCS RUNOFF - SUBBASIN NO. 23
211 BA .2515
212 LS 0 83
213 UD .50

214 KK ROUTESB23 TO PT.11
215 RK 4100 .03 .013 CIRC 4

216 KK SB24
217 KM SCS RUNOFF - SUBBASIN NO. 24
218 BA .1874
219 LS 0 91
220 UD .30

221 KK SUMPT11
222 KM SUMMARY SUBBASIN NO 23 AND 24

223	HC	2
224	KK	SB26
225	KM	SCS RUNOFF - SUBBASIN NO 26
226	BA	.1703
227	LS	0 58
228	UD	.80

229	KK	SUMP12
230	KM	SUMMARY OF PTS 10 AND 11 AND SUBBASIN NO. 26
231	HC	3

232	KK	ROUTEPT. 12 TO PT. 13
233	RK	4707 .0075 .015 TRAP 25.5 3

234	KK	SB27
235	KM	SCS RUNOFF - SUBBASIN NO 27
236	BA	.0312
237	LS	0 58
238	UD	.12

HEC-1 INPUT

PAGE 7

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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239	KK	SB28
240	KM	SCS RUNOFF - SUBBASIN NO 28
241	BA	.1609
242	LS	0 65
243	UD	.55

244	KK	SUMPT13
245	KM	SUMMARY PT.12, SUBBASIN 27 AND 28
246	HC	3

247	KK	ROUTETHRU LDTL#15 TO PT. 14
248	BA	.1312
249	LS	0 80
250	UK	2200 .025 .35 100
251	RK	2200 .025 .040 TRAP 50 3 YES

252	KK	CHAPELHILLS CHANNEL
253	KM	LDTL BASIN DATA
254	BA	3.6093
255	LS	0 77
256	UD	.62

257	KK	SUMPT14
258	KM	SUMMARY PT 13 ROUTED AND CHAPEL HILLS MALL
259	HC	2

260	KK	ROUTETOPT. 15
261	RK	1000 .025 .040 TRAP 50 3

262	KK	COTTONWOOD
263	KM	LDTL BASIN DATA
264	BA	.8107
265	LS	0 81
266	UD	.55

267	KK	SUMPT15
268	KM	SUMMARY PT 14 ROUTED WITH N COTTONWOOD CREEK
269	HC	2
270	ZZ	

INPUT
LINE

(V) ROUTING

(--->) DIVERSION OR PUMP FLOW

NO.

(.) CONNECTOR

(<---) RETURN OF DIVERTED OR PUMPED FLOW

1	4	SB1	
2		V	
3		V	
4	16	ROUTE	
5		.	
6		.	
7	18	.	SB3
8		.	.
9		.	.
10	23	SUMPT1.....	
11		V	
12		V	
13	26	ROUTE	
14		.	
15		.	
16	28	.	SB9
17		.	.
18		.	.
19	33	.	SB10
20		.	.
21		.	.
22	38	SUMPT4.....	
23		V	
24		V	
25	41	ROUTE	
26		.	
27		.	
28	43	.	SB2
29		V	
30		V	
31	48	ROUTE	
32		.	
33		.	
34	51	.	SB4A
35		.	.
36		.	.
37	56	SUMPT2A.....	
38		V	
39		V	
40	59	ROUTE	
41		.	
42		.	
43	61	.	SB4B
44		.	.
45		.	.
46	66	.	SB5
47		.	.
48		.	.
49	71	SUMPT2B.....	
50		V	
51		V	
52	74	ROUTE	
53		.	
54		.	
55	76	.	SB6
56		.	.
57		.	.
58	81	COMBINE.....	
59		V	
60		V	

35

SB7

90

SB8

95

SUMPT3

V

V

98

ROUTE

100

SB11

105

SB12

110

SUMPT5

V

V

113

ROUTE

115

SB13

120

SB15

125

SUMPT6

V

V

128

ROUTE

131

SB14

136

SB16

141

SUMPT7

V

V

144

ROUTE

147

SB19

V

V

152

ROUTE

154

SB17

159

COMBINE

161

SB18

166 SUMPT10.....

169 ROUTE

171 SB20

176 SB21

181 SB22
V
V

186 ROUTE

189 SB25A

194 COMBINE.....

196 SUMPT9
V
V

199 ROUTE

201 SB25B

206 SUMPT10.....

209 SB23
V
V

214 ROUTE

216 SB24

221 SUMPT11.....

224 SB26

229 SUMPT12.....

232 ROUTE

234 SB27

239 SB28

244 SUMPT13
V
V

247 ROUTE ***

252 CHAPEL

257 SUMPT.....

V

V

260 ROUTETO

262 NCOTTONW

267 SUMPTIS.....

(***) 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 - 6HR, DEV. NO DET (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 2 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 181 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 1 0 ENDING DATE
 NDTIME 0600 ENDING TIME

COMPUTATION INTERVAL .03 HOURS

TOTAL TIME BASE 6.00 HOURS

ENGLISH UNITS

1

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

+	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	SB1	318.	1.80	44.	44.	44.	.24		
+	ROUTED TO	ROUTE	318.	1.83	43.	43.	43.	.24		
+	HYDROGRAPH AT	SB3	875.	1.70	87.	87.	87.	.36		
+	2 COMBINED AT	SUMPT1	1127.	1.73	130.	130.	130.	.60		

1	+	ROUTED TO	ROUTE	1086.	1.80	129.	129.	129.	.60
2	+	HYDROGRAPH AT	SB9	277.	1.70	30.	30.	30.	.18
3	+	HYDROGRAPH AT	SB10	262.	1.77	33.	33.	33.	.15
4	+	3 COMBINED AT	SUMPT4	1592.	1.77	192.	192.	192.	.92
5	+	ROUTED TO	ROUTE	1590.	1.80	191.	191.	191.	.92
6	+	HYDROGRAPH AT	SB2	338.	1.67	33.	33.	33.	.18
7	+	ROUTED TO	ROUTE	334.	1.67	33.	33.	33.	.18
8	+	HYDROGRAPH AT	SB4A	424.	1.70	43.	43.	43.	.21
9	+	2 COMBINED AT	SUMPT2A	758.	1.70	75.	75.	75.	.39
10	+	ROUTED TO	ROUTE	756.	1.70	75.	75.	75.	.39
11	+	HYDROGRAPH AT	SB4B	431.	1.67	38.	38.	38.	.15
12	+	HYDROGRAPH AT	SB5	464.	1.80	59.	59.	59.	.24
13	+	3 COMBINED AT	SUMPT2B	1583.	1.70	172.	172.	172.	.77
14	+	ROUTED TO	ROUTE	1577.	1.73	172.	172.	172.	.77
15	+	HYDROGRAPH AT	SB6	189.	1.70	19.	19.	19.	.08
16	+	2 COMBINED AT	COMBINE	1763.	1.73	192.	192.	192.	.85
17	+	ROUTED TO	ROUTE	1756.	1.73	191.	191.	191.	.85
18	+	HYDROGRAPH AT	SB7	580.	1.70	59.	59.	59.	.26
19	+	HYDROGRAPH AT	SB8	331.	1.63	29.	29.	29.	.14
20	+	3 COMBINED AT	SUMPT3	2598.	1.73	279.	279.	279.	1.25
21	+	ROUTED TO	ROUTE	2596.	1.73	278.	278.	278.	1.25
22	+	HYDROGRAPH AT	SB11	270.	1.67	25.	25.	25.	.13

+	HYDROGRAPH AT	SB12	291.	1.77	37.	37.	37.	.17
+	3 COMBINED AT	SUMPT5	3117.	1.73	339.	339.	339.	1.55
+	ROUTED TO	ROUTE	3097.	1.73	339.	339.	339.	1.55
+	HYDROGRAPH AT	SB13	190.	2.00	34.	34.	34.	.17
+	HYDROGRAPH AT	SB15	242.	1.57	16.	16.	16.	.08
+	4 COMBINED AT	SUMPT6	4855.	1.77	580.	580.	580.	2.72
+	ROUTED TO	ROUTE	4823.	1.77	580.	580.	580.	2.72
+	HYDROGRAPH AT	SB14	192.	1.87	31.	31.	31.	.30
+	HYDROGRAPH AT	SB16	62.	1.60	5.	5.	5.	.04
+	3 COMBINED AT	SUMPT7	5033.	1.77	616.	616.	616.	3.05
+	ROUTED TO	ROUTE	5017.	1.80	616.	616.	616.	3.05
+	HYDROGRAPH AT	SB19	174.	1.93	30.	30.	30.	.22
+	ROUTED TO	ROUTE	173.	1.93	30.	30.	30.	.22
+	HYDROGRAPH AT	SB17	119.	1.70	14.	14.	14.	.12
+	2 COMBINED AT	COMBINE	246.	1.80	44.	44.	44.	.34
+	HYDROGRAPH AT	SB18	239.	1.60	17.	17.	17.	.11
+	3 COMBINED AT	SUMPT8	5347.	1.77	677.	677.	677.	3.50
+	ROUTED TO	ROUTE	5224.	1.83	669.	669.	669.	3.50
+	HYDROGRAPH AT	SB20	326.	1.63	29.	29.	29.	.26
+	HYDROGRAPH AT	SB21	205.	1.70	22.	22.	22.	.12
+	HYDROGRAPH AT	SB22	236.	1.80	31.	31.	31.	.16
+	ROUTED TO	ROUTE	236.	1.80	31.	31.	31.	.16

1	+	HYDROGRAPH AT	SB25A	253.	1.67	24.	24.	24.	.09
2		2 COMBINED AT							
3	+		COMBINE	465.	1.73	54.	54.	54.	.25
4		4 COMBINED AT							
5	+		SUMPT9	5918.	1.83	775.	775.	775.	4.14
6		ROUTED TO							
7	+		ROUTE	5893.	1.83	775.	775.	775.	4.14
8		HYDROGRAPH AT							
9	+		SB25B	237.	1.57	14.	14.	14.	.05
10		2 COMBINED AT							
11	+		SUMPT10	5941.	1.83	789.	789.	789.	4.19
12		HYDROGRAPH AT							
13	+		SB23	286.	1.97	49.	49.	49.	.25
14		ROUTED TO							
15	+		ROUTE	285.	1.97	49.	49.	49.	.25
16		HYDROGRAPH AT							
17	+		SB24	481.	1.73	51.	51.	51.	.19
18		2 COMBINED AT							
19	+		SUMPT11	668.	1.80	100.	100.	100.	.44
20		HYDROGRAPH AT							
21	+		SB26	23.	2.40	8.	8.	8.	.17
22		3 COMBINED AT							
23	+		SUMP12	6603.	1.83	897.	897.	897.	4.80
24		ROUTED TO							
25	+		ROUTE	6553.	1.87	891.	891.	891.	4.80
26		HYDROGRAPH AT							
27	+		SB27	17.	1.57	2.	2.	2.	.03
28		HYDROGRAPH AT							
29	+		SB28	55.	2.07	13.	13.	13.	.16
30		3 COMBINED AT							
31	+		SUMPT13	6603.	1.87	905.	905.	905.	4.99
32		HYDROGRAPH AT							
33	+		ROUTE	6567.	1.90	921.	921.	921.	5.12
34		HYDROGRAPH AT							
35	+		CHAPEL	2503.	2.10	538.	538.	538.	3.61
36		2 COMBINED AT							
37	+		SUMPT	8657.	1.90	1459.	1459.	1459.	8.73
38		ROUTED TO							
39	+		ROUTETO	8654.	1.93	1457.	1457.	1457.	8.73
40		HYDROGRAPH AT							
41	+		NCOTTONW	769.	2.00	145.	145.	145.	.81
42		2 COMBINED AT							
43	+		SUMPT15	9399.	1.93	1602.	1602.	1602.	9.54

DEVELOPED-NO 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

*** FREE *** 1 ID PINE CREEK DRAINAGE BASIN - 24HR, DEV. NO DET (5 YEAR)

*DIAGRAM

IT 8 0 0 181
 IO 5

KK SB1

KM SCS RUNOFF COMPUTATION

BA .2421

IN 15

PB 2.6

PC .0013 .0039 .0078 .0117 .0156 .0208 .0260 .0312 .0372 .0429

10 PC .0489 .0546 .0606 .0663 .0723 .0832 .1014 .1196 .1378 .1560

11 PC .1950 .2600 1.0400 1.8200 1.8850 1.9500 1.9890 2.0280 2.0540 2.0800

12 PC 2.1060 2.1320 2.1450 2.1580 2.1710 2.1840 2.1970 2.2100 2.2230 2.2360

13 PC 2.2459 2.2555 2.2654 2.2750 2.2849 2.2945 2.3044 2.3140 2.3239 2.3335

14 PC 2.3434 2.3530 2.3616 2.3699 2.3785 2.3868 2.3946 2.4024 2.4102 2.4180

15 PC 2.4245 2.4310 2.4375 2.4440 2.4505 2.4570 2.4635 2.4700 2.4765 2.4830

16 PC 2.4895 2.4960 2.5025 2.5090 2.5155 2.5220 2.5285 2.5350 2.5415 2.5480

17 PC 2.5514 2.5545 2.5579 2.5610 2.5644 2.5675 2.5709 2.5740 2.5774 2.5805

18 PC 2.5839 2.5870 2.5904 2.5935 2.5969 2.6000

19 LS 0 81

20 UD .29

KK ROUTESB1 TO PT. 1

RK 1750 .025 .04 TRAP 34 0

KK SB3

KM SCS RUNOFF COMPUTATION

BA .3593

LS 0 88

UD .19

KK SUMMPT1

KM COMBINE 1 AND 3

HC 2

KK ROUTEPT.1 TO PT.4

RK 4880 .03 .040 TRAP 10 2.5

KK SB9

34 KM SCS RUNOFF - SUBBASIN NO. 9
35 BA .1765
36 LS 0 79.5
37 UD .27

38 KK SB10
39 KM SCS RUNOFF COMPUTATION
40 BA .1468
41 LS 0 86
42 UD .35

HEC-1 INPUT

PAGE 2

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

43 KK SUMPT4
44 KM COMBINE PT.1, 9 AND 10
45 HC 3

46 KK ROUTEPT.4 TO PT.6
47 RK 1600 .010 .015 TRAP 18 1.5

48 KK SB2
49 KM SCS RUNOFF SUBBASIN NO. 2
50 BA .1796
51 LS 0 81
52 UD .19

53 KK ROUTETO PT. 2A
54 RK 1085 .04 .019 TRAP 34 0
55 RK 915 .015 .015 TRAP 8 1.5

56 KK SB4A
57 KM SUBBASIN NO 4A
58 BA .2062
59 LS 0 84
60 UD .20

61 KK SUMPT2A
62 KM SUMMARY SB2 AND SB4A
63 HC 2

64 KK ROUTETO PT 2B
65 RK 2400 .028 .015 TRAP 8 1.5

66 KK SB4B
67 KM SCS RUNOFF COMPUTATION SUBBASIN NO 4B
68 BA .1460
69 LS 0 90
70 UD .24

71 KK SB5
72 KM SCS RUNOFF - SUBBASIN NO. 5
73 BA .2359
74 LS 0 89
75 UD .18

76 KK SUMPT2B
77 KM COMBINE SUBBASINS 2,4 AND 5
78 HC 3

79 KK ROUTEPT.2 TO SB6
80 RK 2100 .015 .015 TRAP 15 1.5

HEC-1 INPUT

PAGE 3

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

81	KK	SB6							
82	KM	SCS RUNOFF - SUBBASIN NO. 6							
83	BA	.0797							
84	LS	0	88						
85	UD	.22							
86	KK	COMBINE PT. 2 ROUTED WITH SB6							
87	HC	2							
88	KK	ROUTE TO PT. 3							
89	RK	1340	.015	.015	TRAP	18	1.5		
90	KK	SB7							
91	KM	SCS RUNOFF - SUBBASIN NO. 7 / WITH MAIN CHANNEL							
92	BA	.2624							
93	LS	0	86						
94	UD	.27							
95	KK	SB8							
96	KM	SCS RUNOFF - SUBBASIN NO. 8							
97	BA	.1406							
98	LS	0	84						
99	UD	.22							
100	KK	SUMPT 3							
101	KM	COMBINE PT. 2 ROUTED WITH 6,7 AND 8							
102	HC	3							
103	KK	ROUTE PT. 3 TO PT. 5							
104	RK	2900	.010	.015	TRAP	20	1.5		
105	KK	SB11							
106	KM	SCS RUNOFF - SUBBASIN NO. 11 / WITH MAIN CHANNEL							
107	BA	.1250							
108	LS	0	83						
109	UD	.23							
110	KK	SB12							
111	KM	SCS RUNOFF - SUBBASIN NO. 12							
112	BA	.1718							
113	LS	0	85						
114	UD	.29							
115	KK	SUMPT 5							
116	KM	COMBINE PT. 3 WITH SUBBASINS 11 AND 12							
117	HC	3							
118	KK	ROUTE PT. 5 TO PT. 6							
119	RK	1720	.010	.015	TRAP	20	1.5		
HEC-1 INPUT									
PAGE 4									
LINE	ID	1	2	3	4	5	6	7	8
		9	10						
120	KK	SB13							
121	KM	SCS RUNOFF - SUBBASIN NO. 13							
122	BA	.1664							
123	LS	0	84						
124	UD	.36							
125	KK	SB15							
126	KM	SCS RUNOFF - SUBBASIN NO. 15							
127	BA	.0843							
128	LS	0	82						

129 UD .15
 130 KK SUMPT6
 131 KM COMBINE PT. 4, PT.5, WITH SUBBASINS 13 AND 15
 132 HC 4

133 KK ROUTEPT.6 TO PT.7
 134 RK 1050 .0075 .015 TRAP 25 1.5
 135 RK 800 .01 .040 TRAP 30 5

136 KK SB14
 137 KM SCS RUNOFF - SUBBASIN NO. 14
 138 BA .2952
 139 LS 0 70
 140 UD .39

141 KK SB16
 142 KM SCS RUNOFF - SUBBASIN NO. 16
 143 BA .0359
 144 LS 0 75.5
 145 UD .18

146 KK SUMPT7
 147 KM COMBINE PT.6, SUBBASIN NO. 14 AND 16
 148 HC 3

149 KK ROUTEPT.7 TO PT.8
 150 RK 1100 .01 .040 TRAP 50 5
 151 RK 640 .01 .015 TRAP 30 1.5

152 KK SB19
 153 KM SCS RUNOFF - SUBBASIN NO. 19
 154 BA .2210
 155 LS 0 75
 156 UD .39

157 KK ROUTESB19 TO PT.8
 158 RK 1600 .035 .019 TRAP 36 0

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

159 KK SB17
 160 KM SCS RUNOFF - SUBBASIN NO. 17
 161 BA .1203
 162 LS 0 71
 163 UD .25

164 KK COMBINESUBBASINS NO 17 AND 19
 165 HC 2

166 KK SB18
 167 KM SCS RUNOFF - SUBBASIN NO. 18
 168 BA .1062
 169 LS 0 78.5
 170 UD .16

171 KK SUMPT8
 172 KM COMBINE PT.7, SUBBASINS 17,18,19
 173 HC 3

174 KK ROUTEPT.8 TO PT.9
 175 RK 3960 .01 .040 TRAP 50 5

176 KK SB20

177 KM SCS RUNOFF - SUBBASIN NO. 20
178 BA .2640
179 LS 0 70.5
180 UD .18

181 KK SB21
182 KM SCS RUNOFF - SUBBASIN NO. 21
183 BA .1234
184 LS 0 80.5
185 UD .27

186 KK SB22
187 KM SCS RUNOFF - SUBBASIN NO. 22
188 BA .1624
189 LS 0 82
190 UD .35

191 KK ROUTESB22 TO PT.9
192 RK 2350 .04 .013
193 RK 850 .04 .013 CIRC 3.5
CIRC 4

194 KK SB25
195 KM SCS RUNOFF - SUBBASIN NO. 25A
196 BA .0875
197 LS 0 91
198 UD .18

HEC-1 INPUT

PAGE 6

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

199 KK COMBINESB22 AND SB25A
200 HC 2

201 KK SUMPT9
202 KM COMBINE PT.8, SUBBASINS 20 AND 21, AND 22 AND 25A
203 HC 4

204 KK ROUTEPT.9 TO PT. 10
205 RK 1450 .02 .015 DEEP 11.5 0

206 KK SB25B
207 KM SCS RUNOFF - SUBBASIN NO 25B
208 BA .0531
209 LS 0 91
210 UD .15

211 KK SUMPT10
212 KM SUMMARY SB25B AND POND 1 ROUTED
213 HC 2

214 KK SB23
215 KM SCS RUNOFF - SUBBASIN NO. 23
216 BA .2515
217 LS 0 83
218 UD .35

219 KK ROUTESB23 TO PT.11
220 RK 4100 .03 .013 CIRC 4

221 KK SB24
222 KM SCS RUNOFF - SUBBASIN NO. 24
223 BA .1374
224 LS 0 91
225 UD .20

226 KK SUMPT11
227 KM SUMMARY SUBBASIN NO 23 AND 24
228 HC 2

229 KK SB26

230 KM SCS RUNOFF - SUBBASIN NO 26

231 BA .1703

232 LS 0 58

233 UD .80

234 KK SUMPT12

235 KM SUMMARY OF PTS 10 AND 11 AND SUBBASIN NO. 26

236 HC 3

HEC-1 INPUT

PAGE 7

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

237 KK ROUTEPT. 12 TO PT. 13

238 RK 4707 .0075 .015 TRAP 25.5 3

239 KK SB27

240 KM SCS RUNOFF - SUBBASIN NO 27

241 BA .0312

242 LS 0 58

243 UD .12

244 KK SB28

245 KM SCS RUNOFF - SUBBASIN NO 28

246 BA .1609

247 LS 0 65

248 UD .55

249 KK SUMPT13

250 KM SUMMARY PT.12, SUBBASIN 27 AND 28

251 HC 3

252 KK ROUTETHRU LDTL#15 TO PT 14

253 BA .1312

254 LS 0 80

255 UK 2200 .025 .35 100

256 RK 2200 .025 .040 TRAP 50 3 YES

257 KK CHAPELHILLS MALL OUTFALL

258 KM LDTL BASIN DATA

259 BA 3.6098

260 LS 0 77

261 UD .62

262 KK SUMPT14

263 KM SUMMARY PT 13 ROUTED AND CHAPEL HILLS MALL

264 HC 2

265 KK ROUTETO PT 15

266 RK 1000 .025 .040 TRAP 50 3

267 KKN COTTONWOOD CREEK

268 KM LDTL BASIN DATA

269 BA .8107

270 LS 0 81

271 UD .55

272 KK SUMPT15

273 KM SUMMARY PT 14 ROUTED WITH N COTTONWOOD CREEK

274 HC 2

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT
LINE

(V) ROUTING

(--->) DIVERSION OR PUMP FLOW

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

4	SB1	
	V	
21	ROUTE	
	V	
23		SB3
	V	
28	SUMPT1	
	V	
31	ROUTE	
	V	
33		SB9
	V	
38		SB10
	V	
43	SUMPT4	
	V	
46	ROUTE	
	V	
48		SB2
	V	
53	ROUTE	
	V	
56		SB4A
	V	
61	SUMPT2A	
	V	
64	ROUTE	
	V	
66		SB4B
	V	
71		SB5
	V	
76	SUMPT2B	
	V	
79	ROUTE	
	V	
81		SB6
	V	
86	COMBINE	

88	V V ROUTE			
90		SB7		
95			SB8	
100	SUMPT3			
103	V V ROUTE			
105		SB11		
110			SB12	
115	SUMPT5			
118	V V ROUTE			
120		SB13		
125			SB15	
130	SUMPT6			
133	V V ROUTE			
136		SB14		
141			SB16	
146	SUMPT7			
149	V V ROUTE			
152		SB19		
157	V V ROUTE			
159			SB17	
164	COMBINE			
166		SB18		

171

SUMPT8.....

V

V

174

ROUTE

176

SB20

181

SB21

186

SB22

V

V

191

ROUTE

194

SB25

199

COMBINE.....

201

SUMPT9.....

V

V

204

ROUTE

206

SB25B

211

SUMPT10.....

214

SB23

V

V

219

ROUTE

221

SB24

226

SUMPT11.....

229

SB26

234

SUMPT12.....

V

V

237

ROUTE

239

SB27

244

SB28

249

SUMPT13.....

V
V
252 ROUTE ***

257 CHAPEL

262 SUMPT14.....

V
V
265 ROUTE

267 NCOTTONW

272 SUMPT15.....

(**) 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. NO DET (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
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

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

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SB1	137.	5.87	21.	7.	7.	.24		
ROUTED TO	ROUTE	134.	6.00	21.	7.	7.	.24		
HYDROGRAPH AT	SB3	371.	5.87	46.	14.	14.	.36		
2 COMBINED AT	SUMMIT1	487.	5.87	67.	21.	21.	.60		
ROUTED TO	ROUTE	460.	6.00	67.	21.	21.	.60		
HYDROGRAPH AT	SB9	95.	5.87	14.	4.	4.	.18		
HYDROGRAPH AT	SR10	106	00	17	5	5	15		