

SJR_20-yr.out

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*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* JUN 1998
* VERSION 4.1
*
* RUN DATE 11OCT16 TIME 09:40:18
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*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 756-1104
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
 NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
 DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
 KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1 HEC-1 INPUT PAGE 1

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID 20-Year 24-Hour Storm: STAGE III PROJECT DATE: JANUARY 10, 2017
2 ID WEBB ASSOCITES BASE FILE OF SAN JACINTO RIVER
3 ID BASED ON FILE sjrre1.dat by WEST CONSULTANTS INC.
4 ID FOR RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
5 ID ** ORIGINAL FILE: SAN JACINTO RIVER HYDROLOGY BACKUPS (ALTERNATIVE F)
6 ID ** LAPRE1 FILENAMES: 2SJR24
7 ID ** HEC-1 FILENAMES: 2SJR24.DAT/2SJR24.OUT DATE: SEPTEMBER, 1993
8 ID ** INFORMATION USED WAS BASED ON PREVIOUS WORKS PERFORMED BY F.J.P.
9 ID ** PERRIS VALLEY WATERSHED WAS OBTAINED FROM B.C.'S PREVIOUS WORK
10 ID SV-SQ DATA FOR MODIFIED PULS ROUTING FROM HEC-RAS HYDRAULIC MODEL
11 ID HEC-1 FILENAMES: REMLF.DAT/REMLF.OUT DATE: APR 2010
12 ID For San Jacinto Floodplain update do not use routed flows downstream
13 ID of Bridge Street. HEC-RAS will be used to route the hydrographs from
14 ID this model in an unsteady simulation. jcc 16AUG2010
    *DIAGRAM
15 IT 60 01APR92 100
16 KK 2 SUBAREAS 1 & 2

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SJR_20-yr.out

17	KM	SAN JACINTO MOUNTAIN AT BAUTISTA CREEK									
18	BA	178.5									
19	PB	1.959									
20	IN	60	01APR92	0135							
21	PI	0.003	0.004	0.005	0.006	0.008	0.008	0.011	0.013	0.018	0.077
22	PI	0.051	0.069	0.178	0.204	0.182	0.134	0.004	0.006	0.004	0.003
23	PI	0.003	0.003	0.003	0.002						
24	LU	0	0								
25	KM	UHG FROM MOUNTAIN S-GRAPH									
26	UI	7168.	13829.	21244.	12890.	8592.	5602.	4846.	4024.	3419.	2982.
27	UI	2533.	2303.	2000.	1862.	1684.	1474.	1258.	1212.	1080.	1069.
28	UI	982.	957.	914.	839.	839.	758.	708.	708.	647.	540.
29	UI	540.	540.	525.	392.	392.	392.	392.	392.	335.	143.
30	UI	143.	143.	143.	143.	143.	143.	143.	143.	143.	143.
31	UI	143.	143.	143.	143.	129.					
32	ZW	A=S.J.RIVER CP-2 B=2 C=FLOW D=01APR92 E=1HOUR F=									
33	KK	3 SUBAREA 3									
34	KM	BAUTISTA CREEK									
35	BA	51.38									
36	PB	1.246									
37	IN	60	01APR92	0120							
38	PI	0.004	0.005	0.007	0.008	0.010	0.011	0.014	0.017	0.023	0.050
39	PI	0.026	0.045	0.187	0.222	0.197	0.138	0.005	0.007	0.005	0.004
40	PI	0.004	0.004	0.003	0.003						
41	LU	0	0								
42	KM	UHG FROM MOUNTAIN S-GRAPH									
43	UI	3045.	7285.	5462.	3065.	2015.	1581.	1310.	1032.	899.	765.
44	UI	697.	566.	483.	443.	408.	376.	365.	324.	320.	278.
45	UI	270.	245.	206.	206.	196.	150.	150.	150.	150.	79.
46	UI	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
47	UI	54.4	23.4								
48	ZW	A=S.J.RIVER CP-3 B=3 C=FLOW D=01APR92 E=1HOUR F=									

HEC-1 INPUT

PAGE 2

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

49	KK	4 SUBAREA 4									
50	KM	POPPET CREEK									
51	BA	15.76									
52	PB	1.648									
53	IN	30	01APR92	0110							
54	PI	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.004
55	PI	0.004	0.005	0.005	0.006	0.006	0.007	0.009	0.010	0.030	0.044
56	PI	0.009	0.040	0.036	0.030	0.080	0.100	0.135	0.071	0.094	0.090
57	PI	0.080	0.055	0.002	0.002	0.003	0.003	0.002	0.001	0.002	0.001
58	PI	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
59	LU	0	0								
60	KM	UHG FROM MOUNTAIN S-GRAPH									
61	UI	3073.	2654.	1099.	728.	511.	392.	291.	240.	212.	186.
62	UI	162.	126.	113.	90.	88.	33.	33.	33.	33.	33.
63	UI	32.6	6.3								
64	ZW	A=S.J.RIVER CP-4 B=4 C=FLOW D=01APR92 E=1HOUR F=									
65	KK	A									
66	KM	BAUTISTA CREEK CONFLUENCE									

SJR_20-yr.out

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67      HC      3
68      ZW      A=S.J.RIVER CP-A B=A C=FLOW D=01APR92 E=1HOUR F=

69      KK      A-B ROUTE BAUTISTA CK CONFL. TO MASSACRE CANYON CONFL. NEAR SANDERSON AVE.
70      KM      ROUTE CONC.PT.A TO CONC.PT.B
71      KM      BASED ON FJP'S PREVIOUS WORK, L=39,290 FT., Vavg=9.2 FPS.
72      KM      Vw=1.5*Vavg
73      RT      1      2      0
74      ZW      A=S.J.RIVER ROUTE A-B B=A-B C=FLOW D=01APR92 E=1HOUR F=

75      KK      6 SUBAREA 6
76      KM      MASSACRE CANYON
77      BA      35.42
78      PB      1.566
79      IN      30 01APR92      0100
80      PI      0.001 0.002 0.002 0.002 0.002 0.003 0.003 0.003 0.004 0.004
81      PI      0.004 0.005 0.005 0.006 0.006 0.007 0.009 0.012 0.032 0.045
82      PI      0.010 0.041 0.038 0.031 0.079 0.098 0.132 0.071 0.093 0.089
83      PI      0.079 0.055 0.002 0.002 0.003 0.003 0.002 0.001 0.002 0.001
84      PI      0.002 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001
85      LU      0      0
86      KM      UHG FROM MOUNTAIN S-GRAPH
87      UI      3842. 6708. 2914. 1774. 1305. 960. 783. 643. 506. 430.
88      UI      388. 356. 318. 283. 268. 205. 205. 161. 149. 149.
89      UI      82.4 54.1 54.1 54.1 54.1 54.1 54.1 54.1 40.4

90      KK      5 SUBAREA 5
91      KM      SOBOBA-GILMAN
92      BA      12.07
93      PB      1.114
94      IN      30 01APR92      0055
95      PI      0.002 0.002 0.002 0.002 0.003 0.003 0.003 0.004 0.004 0.005
96      PI      0.004 0.005 0.006 0.007 0.007 0.009 0.010 0.011 0.020 0.037
97      PI      0.010 0.033 0.029 0.022 0.080 0.103 0.144 0.071 0.097 0.093
98      PI      0.082 0.054 0.003 0.002 0.003 0.003 0.003 0.002 0.002 0.002

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HEC-1 INPUT

PAGE 3

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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
99      PI      0.002 0.002 0.002 0.002 0.002 0.001 0.001 0.001
100     LU      0      0
101     KM      UHG FROM MOUNTAIN S-GRAPH
102     UI      2082. 2170. 853. 570. 401. 309. 227. 186. 163. 144.
103     UI      126. 110. 89. 77. 65. 60. 24. 24. 24. 24.
104     UI      23.5 23.5 12.1

105     KK      B
106     KM      MASSACRE CANYON CONFLUENCE NEAR SANDERSON AVENUE
107     HC      3
108     ZW      A=S.J.RIVER CP-B B=B C=FLOW D=01APR92 E=1HOUR F=

109     KK      7 SUBAREA 7
110     KM      LAMB CANYON
111     BA      5.64
112     PB      1.172
113     IN      15 01APR92      0045
114     PI      0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001

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SJR_20-yr.out

115	PI	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003
116	PI	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004
117	PI	0.004	0.004	0.005	0.005	0.005	0.006	0.008	0.012	0.017	0.021
118	PI	0.005	0.005	0.016	0.017	0.014	0.015	0.009	0.013	0.038	0.042
119	PI	0.049	0.054	0.071	0.072	0.035	0.036	0.050	0.047	0.048	0.045
120	PI	0.042	0.040	0.026	0.027	0.001	0.001	0.001	0.001	0.002	0.002
121	PI	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
122	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
123	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
124	LU	0	0								
125	KM	UHG FROM MOUNTAIN S-GRAPH									
126	UI	1530.	793.	373.	234.	161.	119.	99.	82.	65.	52.
127	UI	42.5	23.9	15.5	15.5	15.5	15.5	.0			

128 KK C
 129 KM LAMB CANYON CONFLUENCE
 130 HC 2
 131 ZW A=S.J.RIVER CP-C B=C C=FLOW D=01APR92 E=1HOUR F=

132 KK 8 SUBAREA 8
 133 KM LABORDE CANYON
 134 BA 9.73
 135 PB 0.907
 136 IN 15 01APR92 0045

137	PI	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.002
138	PI	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.004
139	PI	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
140	PI	0.005	0.006	0.007	0.007	0.007	0.008	0.008	0.009	0.009	0.010
141	PI	0.007	0.007	0.009	0.009	0.008	0.008	0.008	0.008	0.035	0.040
142	PI	0.050	0.056	0.080	0.081	0.033	0.034	0.053	0.049	0.050	0.047
143	PI	0.043	0.040	0.023	0.024	0.002	0.002	0.001	0.001	0.002	0.002
144	PI	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.001	0.001
145	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
146	PI	0.001	0.001	0.001	0.001	0.001	0.001				
147	LU	0	0								
148	KM	UHG FROM MOUNTAIN S-GRAPH									
149	UI	2711.	1342.	638.	403.	272.	203.	171.	141.	108.	85.

HEC-1 INPUT

PAGE 4

LINE	ID	1	2	3	4	5	6	7	8	9	10
150	UI	75.3	27.8	27.4	27.4	27.4	16.1				
151	KK	D									
152	KM	LABORDE CANYON CONFLUENCE									
153	HC	2									
154	ZW	A=S.J.RIVER CP-D B=D C=FLOW D=01APR92 E=1HOUR F=									
155	KK	9 SUBAREA 9									
156	KM	SAN JACINTO VALLEY									
157	BA	43.98									
158	PB	0.835									
159	IN	30 01APR92	0050								
160	PI	0.002	0.003	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.006
161	PI	0.005	0.006	0.007	0.008	0.008	0.010	0.012	0.013	0.016	0.026
162	PI	0.012	0.023	0.019	0.014	0.079	0.107	0.155	0.070	0.102	0.097
163	PI	0.084	0.051	0.003	0.002	0.004	0.004	0.003	0.002	0.003	0.002

SJR_20-yr.out

164	PI	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
165	LU	0	0								
166	KM	UHG FROM MOUNTAIN S-GRAPH									
167	UI	10816.	6517.	3012.	1883.	1344.	952.	775.	668.	560.	444.
168	UI	370.	299.	210.	109.	109.	109.	109.	81.		
169	KK	E									
170	KM	BRIDGE STREET									
171	HC	2									
172	ZW	A=S.J.RIVER CP-E B=E C=FLOW D=01APR92 E=1HOUR F=									
173	KK	E-F ROUTE									
174	KM	ROUTE BRIDGE ST TO SPLIT(before split flow)									
175	KM	BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010- MLA									
176	KM	MYSTIC LAKE FULL CONDITIONS - I.E. 1424 WSE									
177	KM	Time Step (Ave Travel Time = 5.09 Hours - Divide by 1.5 Vw=3.39 hr)									
178	KM	Because of this use NSTPS = 3 jcc 9 Feb 2010									
179	RS	3	STOR	-1							
180	SV	0	5422	6214	7192	8523	9595	10477	11979	15904	18679
181	SV	20011	21382	22528	23644	27656	31546				
182	SQ	0	500	1000	2000	4000	6000	8000	10000	15000	20000
183	SQ	25000	30000	35000	40000	60000	80000				
184	ZW	A=S.J.RIVER ROUTE E-F B=E-F C=FLOW D=01APR92 E=1HOUR F=									
185	KK	10 SUBAREA 10									
186	KM	JACK RABBIT									
187	BA	17.9									
188	PB	0.912									
189	IN	15	01APR92	0035							
190	PI	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.002
191	PI	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003
192	PI	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004
193	PI	0.005	0.005	0.006	0.006	0.006	0.007	0.008	0.008	0.011	0.016
194	PI	0.006	0.006	0.011	0.012	0.009	0.010	0.007	0.008	0.037	0.042
195	PI	0.051	0.056	0.077	0.078	0.034	0.035	0.052	0.049	0.050	0.047
196	PI	0.044	0.040	0.025	0.026	0.002	0.002	0.001	0.001	0.002	0.002
197	PI	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.001	0.001
198	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
199	PI	0.001	0.001	0.001	0.001	0.001	0.001				

HEC-1 INPUT

PAGE 5

LINE	ID	1	2	3	4	5	6	7	8	9	10
200	LU	0	0								
201	KM	UHG FROM MOUNTAIN S-GRAPH									
202	UI	5106.	2427.	1164.	741.	490.	371.	315.	253.	196.	148.
203	UI	118.	52.	52.	52.	52.	10.				
204	KK	11 SUBAREA 11									
205	KM	BADLANDS									
206	BA	18.1									
207	PB	0.794									
208	IN	15	01APR92	0030							
209	PI	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.002
210	PI	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.004
211	PI	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
212	PI	0.006	0.006	0.007	0.007	0.007	0.008	0.009	0.009	0.010	0.010

SJRW20-yr.out

213	PI	0.007	0.007	0.009	0.009	0.009	0.009	0.008	0.008	0.034	0.039
214	PI	0.050	0.056	0.080	0.081	0.032	0.033	0.052	0.049	0.050	0.046
215	PI	0.043	0.039	0.022	0.023	0.002	0.002	0.001	0.001	0.002	0.002
216	PI	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.001	0.001
217	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
218	PI	0.001	0.001	0.001	0.001	0.001	0.001				
219	LU	0	0								
220	KM	UHG FROM MOUNTAIN S-GRAPH									
221	UI	5318.	2417.	1164.	735.	482.	381.	309.	246.	192.	149.
222	UI	85.6	54.3	54.3	54.3	34.1					

223	KK	F
224	KM	SPLIT
225	HC	3
226	ZW	A=S.J.RIVER CP-F B=F C=FLOW D=01APR92 E=1HOUR F=

227	KK	F-F1 ROUTE
228	KM	ROUTE FROM SPLIT TO DAVIST ST(flows confluence)
229	KM	BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010- MLA
230	KM	MYSTIC LAKE FULL CONDITIONS - I.E. 1424 WSE
231	KM	Time Step (Ave Travel Time = 1.21 Hours - Divide by 1.5 Vw=0.85hr)
232	KM	Because of this use NSTPS = 1 jcc 9 Feb 2010
233	RS	1 STOR -1
234	SV	0 323 477 756 1089 1399 1769 2396 3861 4797
235	SV	5197 5620 5974 6312 7535 8774
236	SQ	0 500 1000 2000 4000 6000 8000 10000 15000 20000
237	SQ	25000 30000 35000 40000 60000 80000
238	ZW	A=S.J.RIVER ROUTE F-F1 B=F-F1 C=FLOW D=01APR92 E=1HOUR F=

239	KK	F1-G ROUTE
240	KM	ROUTE DAVIS ST TO RAMONA EXPRESSWAY
241	KM	BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010- MLA
242	KM	Time Step (Ave Travel Time = 1.93 Hours - Divide by 1.5 Vw=1.29hr)
243	KM	Because of this use NSTPS = 1 jcc 9 Feb 2010
244	RS	1 STOR -1
245	SV	0 264 420 750 1477 2316 3171 4009 5337 6072
246	SV	6339 6631 6869 7092 7863 8661
247	SQ	0 500 1000 2000 4000 6000 8000 10000 15000 20000
248	SQ	25000 30000 35000 40000 60000 80000
249	ZW	A=S.J.RIVER ROUTE F-G B=F-G C=FLOW D=01APR92 E=1HOUR F=
		HEC-1 INPUT

1

PAGE 6

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

250	KK	12A LAKEVIEW SUB-AREA (30% FOOTHILL)
251	KM	COMBINE LAKEVIEW SUB-AREA AT THE U/S OF RAMONA EXPWY PER CDJ.
252	BA	12.26 0 0.30
253	PB	0.757
254	IN	15 01APR92 0030
255	PI	0.001 0.001 0.001 0.002 0.001 0.001 0.001 0.002 0.002 0.002
256	PI	0.002 0.002 0.002 0.002 0.002 0.003 0.003 0.003 0.003 0.004
257	PI	0.003 0.003 0.004 0.004 0.004 0.004 0.005 0.005 0.005 0.005
258	PI	0.006 0.006 0.007 0.007 0.008 0.008 0.009 0.009 0.010 0.010
259	PI	0.007 0.007 0.009 0.009 0.009 0.009 0.008 0.009 0.033 0.039
260	PI	0.049 0.055 0.080 0.082 0.031 0.032 0.052 0.048 0.050 0.046
261	PI	0.042 0.039 0.021 0.022 0.002 0.002 0.001 0.001 0.002 0.002

SJR_20-yr.out

262	PI	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.001	0.001
263	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
264	PI	0.001	0.001	0.001	0.001	0.001	0.001				
265	LU	0	0								
266	KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
267	UI	5203.	1918.	587.	104.	72.	24.				
268	KK	12A1 LAKEVIEW SUB-AREA (70% VALLEY)									
269	KM	COMBINE LAKEVIEW SUB-AREA AT THE U/S OF RAMONA EXPWY PER CDJ.									
270	BA	12.26	0	0.70							
271	PB	0.757									
272	IN	15	01APR92	0030							
273	PI	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.002
274	PI	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.004
275	PI	0.003	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
276	PI	0.006	0.006	0.007	0.007	0.008	0.008	0.009	0.009	0.010	0.010
277	PI	0.007	0.007	0.009	0.009	0.009	0.009	0.008	0.009	0.033	0.039
278	PI	0.049	0.055	0.080	0.082	0.031	0.032	0.052	0.048	0.050	0.046
279	PI	0.042	0.039	0.021	0.022	0.002	0.002	0.001	0.001	0.002	0.002
280	PI	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.001	0.001
281	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
282	PI	0.001	0.001	0.001	0.001	0.001	0.001				
283	LU	0	0								
284	KM	UHG FROM VALLEY S-GRAPH									
285	UI	5042.	1654.	601.	320.	166.	99.	24.			
286	KK	G									
287	KM	RAMONA EXPRESSWAY									
288	HC	3	0								
289	ZW	A=S.J.RIVER CP-G B=G C=FLOW D=01APR92 E=1HOUR F=									
290	KK	G-H ROUTE									
291	KM	ROUTE SAN JACINTO RIVER FROM RAMONA EXPRESSWAY TO I-215									
292	KM	BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010 - MLA									
293	KM	Time Step (Ave Travel Time = 4.78 Hours - Divide by 1.5 Vw=3.19 hr)									
294	KM	Because of this use NSTPS = 3 jcc 9 Feb 2010)									
295	RS	3	STOR	-1							
296	SV	0	804	1484	2507	6171	8267	10090	10684	12155	14679
297	SV	17916	21184	24492	27854	40596	52905				
298	SQ	0	500	1000	2000	4000	6000	8000	10000	15000	20000
299	SQ	25000	30000	35000	40000	60000	80000				
300	ZW	A=S.J.RIVER ROUTE G-H B=G-H C=FLOW D=01APR92 E=1HOUR F=									

HEC-1 INPUT

PAGE 7

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

301	KK	13 SUBAREA 13									
302	KM	NUEVO(40% MOUNTAIN)									
303	KM	COMBINE AT THE D/S OF RAMONA EXPWY PER CDJ									
304	BA	25.74	0	0.4							
305	PB	0.876									
306	IN	15	01APR92	0020							
307	PI	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.002
308	PI	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
309	PI	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.005
310	PI	0.005	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.009	0.014

SJRW20-yr.out

311	PI	0.006	0.006	0.009	0.010	0.008	0.008	0.007	0.008	0.036	0.042
312	PI	0.051	0.056	0.078	0.079	0.034	0.035	0.053	0.049	0.050	0.047
313	PI	0.044	0.040	0.024	0.025	0.002	0.002	0.001	0.001	0.002	0.002
314	PI	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.001	0.001
315	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
316	PI	0.001	0.001	0.001	0.001	0.001	0.001				
317	LU	0	0								
318	KM	UHG FROM MOUNTAIN S-GRAPH									
319	UI	4499.	4599.	1816.	1212.	853.	658.	484.	397.	348.	306.
320	UI	266.	231.	191.	160.	139.	121.	50.	50.	50.	50.
321	UI	50.5	50.5	19.0							

322	KK	13 SUBAREA 13									
323	KM	NUEVO(60% VALLEY)									
324	KM	COMBINE AT THE D/S OF RAMONA EXPWY PER CDJ									
325	BA	25.74	0	0.6							
326	PB	0.876									
327	IN	15	01APR92	0020							
328	PI	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.002
329	PI	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
330	PI	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.005
331	PI	0.005	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.009	0.014
332	PI	0.006	0.006	0.009	0.010	0.008	0.008	0.007	0.008	0.036	0.042
333	PI	0.051	0.056	0.078	0.079	0.034	0.035	0.053	0.049	0.050	0.047
334	PI	0.044	0.040	0.024	0.025	0.002	0.002	0.001	0.001	0.002	0.002
335	PI	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.001	0.001
336	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
337	PI	0.001	0.001	0.001	0.001	0.001	0.001				
338	LU	0	0								
339	KM	UHG FROM VALLEY S-GRAPH									
340	UI	3331.	6377.	2585.	1309.	803.	580.	416.	326.	259.	187.
341	UI	141.	92.	92.	92.	11.					

342	KK	NUEVDS									
343	KM	COMBINE THE SAN JACINTO RIVER WITH SUBAREAS 12&13									
344	HC	3	0								

345	KK	14 SUBAREA 14									
346	KM	PERRIS VALLEY									
347	KM	1									
348	KM	THE FOLLOWING INFORMATION WERE OBTAINED FROM PREVIOUS WORKS									
349	KM	PERFORMED BY B.C. & C.V.A. DATED 4/88. FILENAME :CP4.DAT									
350	KM	THE PERRIS VALLEY AREA INCLUDED THE PIGEON PASS DRAINAGE AREAS.									
351	KM	TOTAL DRAINAGE AREAS = 85.44 SQ.MI.									

HEC-1 INPUT

PAGE 8

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

352	KM	ALL HYDROGRAPHS ADJUSTED FOR YIELD AT NUEVO RD. / CP-4									
353	KM	INFLOW TO PIGEON PASS RESERVIOR									
354	KM	ULTIMATE DEVELOPMENT ALL BASINS IN PLACE									
355	BA	9.031									
356	PB	0.730									
357	IN	30	01APR92	0010							
358	PI	0.002	0.003	0.003	0.003	0.004	0.005	0.005	0.005	0.006	0.007
359	PI	0.006	0.007	0.008	0.009	0.010	0.011	0.014	0.015	0.018	0.020
360	PI	0.014	0.018	0.017	0.016	0.074	0.106	0.161	0.065	0.101	0.097

SJR_20-yr.out

361	PI	0.082	0.045	0.004	0.003	0.005	0.004	0.004	0.002	0.003	0.002
362	PI	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
363	LU	0	0								
364	KM	UHG FROM VALLEY S-GRAPH									
365	UI	3898.	1128.	417.	215.	104.	62.				

366	KK	PB									
367	KM	PIGEON PASS RESERVOIR ROUTING									
368	RS	1	ELEV	1670							
369	SV	0	24	124	314	565	885	1720	1720		
370	SE	1670	1676	1680	1684	1688	1692	1696	1700		
371	SQ	0	80	90	100	110	120	130			
372	SE	1670	1671	1674	1678	1683.5	1689.5	1695.5			

373	KK	IA									
374	KM	LOCAL AREA TRIBUTARY TO INDIAN-FESTIVAL BASIN									
375	BA	1.172									
376	PB	0.739									
377	IN	30	01APR92	0010							
378	PI	0.002	0.003	0.003	0.003	0.004	0.005	0.005	0.005	0.006	0.007
379	PI	0.006	0.007	0.008	0.009	0.009	0.011	0.014	0.015	0.018	0.019
380	PI	0.014	0.018	0.017	0.016	0.075	0.106	0.161	0.066	0.102	0.097
381	PI	0.083	0.046	0.004	0.003	0.005	0.004	0.004	0.002	0.003	0.002
382	PI	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
383	LU	0	0								
384	KM	UHG FROM VALLEY S-GRAPH									
385	UI	713.	43.								

386	KK	IA									
387	KM	INFLOW HYDROGRAPH FOR INDIAN-FESTIVAL BASIN									
388	HC	2									

389	KK	IB									
390	KM	INDIAN STREET (FESTIVAL) BASIN ROUTING									
391	RS	1	ELEV	1635.5							
392	SA	0	.57	3.52	8.9	10.9	11.1	11.3	11.5	11.6	11.7
393	SA	11.9	12.1								
394	SE	1635.5	1636	1637	1638	1639	1640	1641	1642	1643	1644
395	SE	1645	1646								
396	SQ	0	15	23	56	88	117	137	155	173	189
397	SQ	205	220								

HEC-1 INPUT

PAGE 9

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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398	KK	LA									
399	KM	TRIBUTARY AREA FOR LASSELLE BASIN									
400	BA	.689									
401	PB	0.790									
402	IN	30	01APR92	0010							
403	PI	0.002	0.003	0.003	0.003	0.004	0.005	0.005	0.005	0.006	0.007
404	PI	0.006	0.007	0.008	0.009	0.010	0.011	0.014	0.015	0.018	0.020
405	PI	0.014	0.018	0.017	0.016	0.074	0.106	0.161	0.065	0.101	0.097
406	PI	0.082	0.046	0.004	0.003	0.005	0.004	0.004	0.002	0.003	0.002
407	PI	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
408	LU	0	0								

SJR_20-yr.out

409	KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
410	UI	429.	16.								
411	KK	LB									
412	KM	LASSELLE BASIN ROUTING									
413	RS	1	ELEV	1734							
414	SV	0	.5	1.75	4.25	9.75	29	47.5			
415	SE	1734	1735	1736	1737	1739	1742	1745			
416	SQ	0	20	40	60	75	235	800			
417	SE	1734	1736	1739	1745	1745.5	1746	1747			
418	KK	NA									
419	KM	TRIBUTARY AREA FOR NASON BASIN									
420	BA	4.329									
421	PB	1.089									
422	IN	30	01APR92	0010							
423	PI	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.005	0.005
424	PI	0.005	0.006	0.006	0.007	0.007	0.009	0.010	0.011	0.019	0.036
425	PI	0.010	0.032	0.029	0.021	0.080	0.103	0.144	0.071	0.098	0.094
426	PI	0.082	0.053	0.003	0.002	0.003	0.003	0.003	0.002	0.002	0.002
427	PI	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001		
428	LU	0	0								
429	KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
430	UI	1923.	641.	175.	27.	26.					
431	KK	NB									
432	KM	NASON BASIN ROUTING									
433	RS	1	ELEV	58							
434	SV	0	5.1	21.8	47.6	357					
435	SE	58	60	62	64	84					
436	SQ	0	7.6	29.8	65.2	113	173	239	270	296.4	320.7
437	SQ	342	363	382.7	419.2	452.8	484	513.4	541.2	567.6	592.8
438	SE	58	58.8	59.7	60.6	61.6	62.6	63.9	65	66	67
439	SE	68	69	70	72	74	76	78	80	82	84
440	KK	SA									
441	KM	AREA TRIBUTARY TO SINCLAIR BASIN									
442	BA	4.34									
443	PB	0.964									
444	IN	30	01APR92	0010							
445	PI	0.002	0.003	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.006
446	PI	0.005	0.006	0.007	0.008	0.008	0.010	0.012	0.013	0.015	0.029
447	PI	0.012	0.025	0.021	0.014	0.079	0.106	0.153	0.070	0.101	0.096

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10	
448	PI	0.084	0.052	0.003	0.002	0.004	0.004	0.003	0.002	0.003	0.002	
449	PI	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
450	LU	0	0									
451	KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH										
452	UI	1969.	624.	156.	28.	22.						
453	KM	SINCLAIR BASIN ROUTING REMOVED TO REFLECT EXISTING CONDITIONS										
454	KM	JCC 21 AUG 2009										
455	KK	CP1										
456	KM	COMBINE ALL SUNNY/MOR BASIN OUTFLOWS										

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457      HC          4
458      KK      CP4A
459      KM      TOTAL WATERSHED ABOVE CP4 EXCLUDING BASIN AREAS
460      BA      62.87
461      PB      0.853
462      IN      30 01APR92      0010
463      PI      0.002  0.003  0.002  0.003  0.003  0.004  0.004  0.004  0.005  0.006
464      PI      0.005  0.006  0.007  0.008  0.008  0.010  0.012  0.013  0.016  0.027
465      PI      0.012  0.024  0.020  0.014  0.079  0.107  0.154  0.070  0.101  0.097
466      PI      0.084  0.051  0.003  0.002  0.004  0.004  0.003  0.002  0.003  0.002
467      PI      0.002  0.002  0.002  0.002  0.002  0.002  0.002  0.002  0.002  0.002
468      LU      0      0
469      KM      UHG FROM VALLEY S-GRAPH
470      UI      13598. 14837. 4768. 2487. 1625. 1087. 788. 579. 300. 300.
471      UI      182.

472      KK      SEATA
473      KM      AREA TRIBUTARY TO SEATON BASIN
474      BA      3.01
475      PB      0.967
476      IN      30 01APR92      0010
477      PI      0.002  0.003  0.002  0.003  0.003  0.004  0.004  0.004  0.005  0.005
478      PI      0.005  0.006  0.007  0.007  0.008  0.009  0.011  0.012  0.016  0.034
479      PI      0.011  0.030  0.026  0.019  0.080  0.105  0.148  0.071  0.099  0.095
480      PI      0.083  0.053  0.003  0.002  0.004  0.003  0.003  0.002  0.003  0.002
481      PI      0.002  0.002  0.002  0.002  0.002  0.001  0.001  0.001  0.001  0.001
482      LU      0      0
483      KM      UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
484      UI      1433. 398. 80. 21. 9.
485      KM      SEATON BASIN ROUTING REMOVED TO REFLECT EXISTING CONDITIONS
486      KM      JCC 21 AUG 2009

487      KK      CP4
488      KM      TOTAL HYDROGRAPH AT CP4 / NUEVO ROAD
489      HC      3

490      KK      COMB
491      KM      COMBINED PERRIS VALLEY WITH THE PREVIOUS HYDROGRAPHS
492      HC      2      0

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HEC-1 INPUT

PAGE 11

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

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493      KK      15B ROMOLAND SUB-AREA (B-SYSTEM)
494      KM      COMBINE DRAINAGE AREA FOR LINE B AT THE UPSTREAM OF I-215
495      KM      PER CDJ. HYDROLOGY INFO. WERE TAKEN FROM MDP BACKUPS
496      KM      UHG 30%Foothill
497      BA      4.27      0.3
498      PB      0.993
499      IN      15 01APR92      0015
500      PI      0.001  0.001  0.001  0.001  0.001  0.001  0.001  0.001  0.001  0.001
501      PI      0.002  0.002  0.002  0.002  0.002  0.002  0.002  0.003  0.003  0.003
502      PI      0.002  0.003  0.003  0.003  0.003  0.003  0.004  0.004  0.004  0.004
503      PI      0.004  0.005  0.005  0.005  0.006  0.006  0.007  0.010  0.014  0.019
504      PI      0.005  0.005  0.014  0.015  0.012  0.013  0.007  0.011  0.038  0.042

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SJR_20-yr.out

505	PI	0.050	0.055	0.074	0.074	0.035	0.036	0.051	0.048	0.049	0.046
506	PI	0.043	0.040	0.026	0.027	0.001	0.001	0.001	0.001	0.002	0.002
507	PI	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
508	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
509	PI	0.001	0.001	0.001	0.001	0.001	0.001				
510	LU	0	0								
511	KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
512	UI	1981.	593.	134.	29.	18.					
513	KK	15B1ROMOLAND SUB-AREA (B-SYSTEM)									
514	KM	UHG 70% VALLEY									
515	BA	4.27		0.7							
516	PB	0.993									
517	IN	15	01APR92	0015							
518	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
519	PI	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003
520	PI	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004
521	PI	0.004	0.005	0.005	0.005	0.006	0.006	0.007	0.010	0.014	0.019
522	PI	0.005	0.005	0.014	0.015	0.012	0.013	0.007	0.011	0.038	0.042
523	PI	0.050	0.055	0.074	0.074	0.035	0.036	0.051	0.048	0.049	0.046
524	PI	0.043	0.040	0.026	0.027	0.001	0.001	0.001	0.001	0.002	0.002
525	PI	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
526	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
527	PI	0.001	0.001	0.001	0.001	0.001	0.001				
528	LU	0	0								
529	KM	UHG FROM VALLEY S-GRAPH									
530	UI	1912.	501.	188.	96.	41.	16.				
531	KK	15B7 TOTAL ROMOLAND SUB-AREA COMBINED AT THE U/S OF I-215 FWY PER CDJ									
532	HC	2	0								
533	KK	H	US@215								
534	KM		US@215								
535	KM		COMBINE THE NUEVO RD., PERRIS, AND ROMOLAND HYDROGRAPHS								
536	HC	2	0								
537	ZW		A=S.J.RIVER CP-H B=H C=FLOW D=01APR92 E=1HOUR F=								
			HEC-1 INPUT								

1

PAGE 12

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

538	KK	H-I ROUTE																		
539	KM	ROUTE SAN JACINTO RIVER FROM I-215 TO CONCENTRATION POINT I																		
540	KM	BASED ON SV-SQ DATA FROM HEC-RAS Updated 14 Jan 2010																		
541	KM	Time Step (Ave Travel Time = 5.13 Hours - Divide by 1.5 Vw=3.42hr)																		
542	KM	Because of this use NSTPS = 3 jcc 9 Feb 2010																		
543	RS	3	STOR	-1																
544	SV	0	156	291	878	3673	4783	5881	6288	8059	10737									
545	SV	13406	15955	18408	20812	29306	36900													
546	SQ	0	500	1000	2000	4000	6000	8000	10000	15000	20000									
547	SQ	25000	30000	35000	40000	60000	80000													
548	ZW		A=S.J.RIVER ROUTE H-I B=H-I C=FLOW D=01APR92 E=1HOUR F=																	
549	KK	15A ROMOLAND SUB-AREA (A-SYSTEM)																		
550	KM	COMBINE HOMELAND, ROMOLAND (A-SYSTEM) AND THE REMAINING AREA AT THE																		
551	KM	D/S OF I-215 FWY PER CDJ																		
552	BA	28.11																		

SJ20-yr.out

553	PB	0.925									
554	IN	15	01APR92	0015							
555	PI	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.002
556	PI	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003
557	PI	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004
558	PI	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.008	0.013	0.018
559	PI	0.006	0.006	0.013	0.014	0.011	0.012	0.006	0.010	0.037	0.042
560	PI	0.051	0.055	0.075	0.076	0.035	0.036	0.052	0.049	0.049	0.046
561	PI	0.043	0.040	0.026	0.026	0.002	0.002	0.001	0.001	0.002	0.002
562	PI	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.001	0.001
563	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
564	PI	0.001	0.001	0.001	0.001	0.001	0.001				
565	LU	0	0								
566	KM	UHG FROM VALLEY S-GRAPH									
567	UI	7956.	5752.	1833.	981.	622.	412.	267.	159.	148.	

568	KK	I									
569	KM	ENTRANCE TO RAILROAD CANYON DAM									
570	HC	2	0								
571	ZW	A=S.J.RIVER CP-I B=I C=FLOW D=01APR92 E=1HOUR F=									
572	KK	I-J									
573	KM	ROUTE FROM C.P.I TO C.P.J									
574	KM	FROM S.J.RIVER STAGE III PLAN & PROFILE, VELOCITY=3.6 FT/SEC									
575	KM	TRAVEL DISTANCE =24,288 FT.									
576	RT	1	2	0							

577	KK	17	SUBAREA 17								
578	KM		SALT CREEK								
579	BA	123.91									
580	PB	0.837									
581	IN	15	01APR92	0040							
582	PI	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.002
583	PI	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.004
584	PI	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
585	PI	0.005	0.006	0.007	0.007	0.007	0.008	0.009	0.009	0.009	0.010
586	PI	0.007	0.007	0.009	0.009	0.009	0.009	0.008	0.008	0.035	0.040
587	PI	0.050	0.056	0.080	0.081	0.032	0.033	0.053	0.049	0.050	0.047

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
588	PI	0.043	0.040	0.023	0.024	0.002	0.002	0.001	0.001	0.002	0.002
589	PI	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.002	0.001	0.001
590	PI	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
591	PI	0.001	0.001	0.001	0.001	0.001	0.001				
592	LU	0	0								
593	KM	UHG FROM MOUNTAIN S-GRAPH									
594	UI	7481.	17797.	13137.	7282.	4868.	3815.	3168.	2450.	2175.	1830.
595	UI	1661.	1370.	1145.	1059.	994.	900.	878.	780.	774.	659.
596	UI	659.	560.	502.	502.	441.	365.	365.	365.	351.	133.
597	UI	133.	133.	133.	133.	133.	133.	133.	133.	133.	133.
598	UI	130.									
599	KK	16	SUBAREA 16								
600	KM	RAILROAD CANYON									
601	BA	26.04									

[illegible]

SCHEMATIC DIAGRAM OF STREAM NETWORK

Page 14

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105      B .....
      .
109      .      7
      .      .
128      C .....
      .
132      .      8
      .      .
151      D .....
      .
155      .      9
      .      .
169      E .....
      V
      V
173      E-F
      .
185      .      10
      .      .
204      .      .      11
      .      .      .
223      F .....
      V
      V
227      F-F1
      V
      V
239      F1-G
      .
250      .      12A
      .      .
268      .      .      12A1
      .      .      .
286      G .....
      V
      V
290      G-H
      .
301      .      13
      .      .
322      .      .      13
      .      .

```

```

342  NUEVDS.....
      .
345      14
      .   V
      .   V
366      .   PB
      .   .
      .   .
373      .   .   IA
      .   .   .
      .   .   .
386      .   IA.....
      .   V
      .   V
389      .   IB
      .   .
      .   .
398      .   .   LA
      .   .   V
      .   .   V
411      .   .   LB
      .   .   .
      .   .   .
418      .   .   .   NA
      .   .   .   V
      .   .   .   V
431      .   .   .   NB
      .   .   .   .
      .   .   .   .
440      .   .   .   .   SA
      .   .   .   .   .
      .   .   .   .   .
455      .   CP1.....
      .   .
      .   .
458      .   .   CP4A
      .   .   .
      .   .   .
472      .   .   .   SEATA
      .   .   .   .
      .   .   .   .
487      .   CP4.....
      .   .
      .   .
490  COMB .....
      .
      .
493      .   15B
      .   .
      .   .
513      .   .   15B1
      .   .   .
      .   .   .
531      .   15B7 .....
      .   .
      .   .

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SJR_20-yr.out

```
533      H      .
          V      .
          V      .
538      H-I     .
          .
549      .      15A
          .      .
          .      .
568      I      .
          V      .
          V      .
572      I-J     .
          .
577      .      17
          .      .
          .      .
599      .      16
          .      .
          .      .
614      J(US)   .
          V      .
          V      .
619      J(DS)   .
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* JUN 1998
* VERSION 4.1
*
* RUN DATE 11OCT16 TIME 09:40:18
*
*****
```

```
*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 756-1104
*
*****
```

20-Year 24-Hour Storm
WEBB ASSOCIATES BASE FILE OF SAN JACINTO RIVER EXISTING CONDITIONS
BASED ON FILE sjrrel.dat by WEST CONSULTANTS INC.
FOR RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
** ORIGINAL FILE: SAN JACINTO RIVER HYDROLOGY BACKUPS (ALTERNATIVE F)
** LAPRE1 FILENAMES: 2SJR24
** HEC-1 FILENAMES: 2SJR24.DAT/2SJR24.OUT DATE: SEPTEMBER, 1993
** INFORMATION USED WAS BASED ON PREVIOUS WORKS PERFORMED BY F.J.P.
** PERRIS VALLEY WATERSHED WAS OBTAINED FROM B.C.'S PREVIOUS WORK
SV-SQ DATA FOR MODIFIED PULS ROUTING FROM HEC-RAS HYDRAULIC MODEL
HEC-1 FILENAMES: REMLF.DAT/REMLF.OUT DATE: APR 2010
For San Jacinto Floodplain update do not use routed flows downstream
of Bridge Street. HEC-RAS will be used to route the hydrographs from
this model in an unsteady simulation. jcc 16AUG2010

IT HYDROGRAPH TIME DATA
 NMIN 60 MINUTES IN COMPUTATION INTERVAL
 IDATE 1APR92 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 100 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 5APR92 ENDING DATE
 NDTIME 0300 ENDING TIME
 ICENT 19 CENTURY MARK

COMPUTATION INTERVAL 1.00 HOURS
 TOTAL TIME BASE 99.00 HOURS

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

*** **

 * *
 16 KK * 2 * SUBAREAS 1 & 2
 * *

 SAN JACINTO MOUNTAIN AT BAUTISTA CREEK

20 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 60 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 135 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

18 BA SUBBASIN CHARACTERISTICS
 TAREA 178.50 SUBBASIN AREA

PRECIPITATION DATA

19 PB STORM 1.96 BASIN TOTAL PRECIPITATION

21 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.01	.01	.01	.01	.01	.02
.05	.06	.06	.13	.19	.19	.15	.06	.01	.00
.00	.00	.00	.00	.00	.00				

24 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

SJR_20-yr.out

24 UI

INPUT UNITGRAPH, 55 ORDINATES, VOLUME = 1.00

7168.0	13829.0	21244.0	12890.0	8592.0	5602.0	4846.0	4024.0	3419.0	2982.0
2533.0	2303.0	2000.0	1862.0	1684.0	1474.0	1258.0	1212.0	1080.0	1069.0
982.0	957.0	914.0	839.0	839.0	758.0	708.0	708.0	647.0	540.0
540.0	540.0	525.0	392.0	392.0	392.0	392.0	392.0	335.0	143.0
143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0
143.0	143.0	143.0	143.0	129.0					

HYDROGRAPH AT STATION 2

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	729.
1	APR	0100	2	.00	.00	.00	0.	*	3	APR	0300	52	.00	.00	.00	682.
1	APR	0200	3	.00	.00	.00	25.	*	3	APR	0400	53	.00	.00	.00	641.
1	APR	0300	4	.01	.00	.01	98.	*	3	APR	0500	54	.00	.00	.00	568.
1	APR	0400	5	.01	.00	.01	235.	*	3	APR	0600	55	.00	.00	.00	472.
1	APR	0500	6	.01	.00	.01	396.	*	3	APR	0700	56	.00	.00	.00	382.
1	APR	0600	7	.01	.00	.01	563.	*	3	APR	0800	57	.00	.00	.00	316.
1	APR	0700	8	.02	.00	.02	735.	*	3	APR	0900	58	.00	.00	.00	292.
1	APR	0800	9	.02	.00	.02	927.	*	3	APR	1000	59	.00	.00	.00	288.
1	APR	0900	10	.02	.00	.02	1142.	*	3	APR	1100	60	.00	.00	.00	284.
1	APR	1000	11	.03	.00	.03	1428.	*	3	APR	1200	61	.00	.00	.00	281.
1	APR	1100	12	.10	.00	.10	2259.	*	3	APR	1300	62	.00	.00	.00	278.
1	APR	1200	13	.12	.00	.12	3686.	*	3	APR	1400	63	.00	.00	.00	274.
1	APR	1300	14	.12	.00	.12	5662.	*	3	APR	1500	64	.00	.00	.00	270.
1	APR	1400	15	.26	.00	.26	8116.	*	3	APR	1600	65	.00	.00	.00	265.
1	APR	1500	16	.38	.00	.38	11851.	*	3	APR	1700	66	.00	.00	.00	259.
1	APR	1600	17	.37	.00	.37	17078.	*	3	APR	1800	67	.00	.00	.00	245.
1	APR	1700	18	.30	.00	.30	21352.	*	3	APR	1900	68	.00	.00	.00	227.
1	APR	1800	19	.11	.00	.11	22092.	*	3	APR	2000	69	.00	.00	.00	208.
1	APR	1900	20	.01	.00	.01	19332.	*	3	APR	2100	70	.00	.00	.00	169.
1	APR	2000	21	.01	.00	.01	14598.	*	3	APR	2200	71	.00	.00	.00	115.
1	APR	2100	22	.01	.00	.01	10714.	*	3	APR	2300	72	.00	.00	.00	62.
1	APR	2200	23	.01	.00	.01	8486.	*	4	APR	0000	73	.00	.00	.00	22.
1	APR	2300	24	.01	.00	.01	7142.	*	4	APR	0100	74	.00	.00	.00	7.
2	APR	0000	25	.01	.00	.01	6199.	*	4	APR	0200	75	.00	.00	.00	6.
2	APR	0100	26	.00	.00	.00	5443.	*	4	APR	0300	76	.00	.00	.00	4.
2	APR	0200	27	.00	.00	.00	4812.	*	4	APR	0400	77	.00	.00	.00	3.
2	APR	0300	28	.00	.00	.00	4248.	*	4	APR	0500	78	.00	.00	.00	3.
2	APR	0400	29	.00	.00	.00	3760.	*	4	APR	0600	79	.00	.00	.00	2.
2	APR	0500	30	.00	.00	.00	3344.	*	4	APR	0700	80	.00	.00	.00	1.
2	APR	0600	31	.00	.00	.00	2992.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	2690.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	2433.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	2234.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	2085.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	1963.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	1859.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	1758.	*	4	APR	1500	88	.00	.00	.00	0.

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2 APR 1400	39	.00	.00	.00	1668.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	1580.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	1483.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	1397.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	1316.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	1230.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	1140.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	1058.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	992.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	933.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	868.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	799.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = 1.96, TOTAL LOSS = .00, TOTAL EXCESS = 1.96

PEAK FLOW (CFS)	TIME (HR)	6-HR (CFS)	24-HR (INCHES)	72-HR (AC-FT)	99.00-HR (AC-FT)
22092.	18.00	17622.	8019.	3132.	2278.
		.918	1.671	1.958	1.958
		8738.	15906.	18639.	18641.

CUMULATIVE AREA = 178.50 SQ MI

-----DSS---ZOPEN: New File Opened, File: H1DSS.DSS

Unit: 71; DSS Version: 6-JG

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-2/2/FLOW/01MAR1992/1HOUR//

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-2/2/FLOW/01APR1992/1HOUR//

*** **

* *
33 KK * 3 * SUBAREA 3
* *

BAUTISTA CREEK

37 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 60 TIME INTERVAL IN MINUTES
JXDATE 1APR92 STARTING DATE
JXTIME 120 STARTING TIME
UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

35 BA SUBBASIN CHARACTERISTICS
TAREA 51.38 SUBBASIN AREA

PRECIPITATION DATA

SJR_20-yr.out

36 PB STORM 1.25 BASIN TOTAL PRECIPITATION

38 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.02
.03	.04	.03	.09	.20	.21	.18	.09	.01		.01
.00	.00	.00	.00	.00	.00					

41 LU UNIFORM LOSS RATE

STRTL	.00	INITIAL LOSS
CNSTL	.00	UNIFORM LOSS RATE
RTIMP	.00	PERCENT IMPERVIOUS AREA

41 UI INPUT UNITGRAPH, 42 ORDINATES, VOLUME = 1.00

3045.0	7285.0	5462.0	3065.0	2015.0	1581.0	1310.0	1032.0	899.0	765.0
697.0	566.0	483.0	443.0	408.0	376.0	365.0	324.0	320.0	278.0
270.0	245.0	206.0	206.0	196.0	150.0	150.0	150.0	150.0	79.0
54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
54.4	23.4								

HYDROGRAPH AT STATION 3

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	66.
1	APR	0100	2	.00	.00	.00	0.	*	3	APR	0300	52	.00	.00	.00	64.
1	APR	0200	3	.00	.00	.00	5.	*	3	APR	0400	53	.00	.00	.00	62.
1	APR	0300	4	.01	.00	.01	29.	*	3	APR	0500	54	.00	.00	.00	59.
1	APR	0400	5	.01	.00	.01	70.	*	3	APR	0600	55	.00	.00	.00	56.
1	APR	0500	6	.01	.00	.01	114.	*	3	APR	0700	56	.00	.00	.00	51.
1	APR	0600	7	.01	.00	.01	158.	*	3	APR	0800	57	.00	.00	.00	41.
1	APR	0700	8	.01	.00	.01	203.	*	3	APR	0900	58	.00	.00	.00	27.
1	APR	0800	9	.01	.00	.01	252.	*	3	APR	1000	59	.00	.00	.00	14.
1	APR	0900	10	.02	.00	.02	308.	*	3	APR	1100	60	.00	.00	.00	5.
1	APR	1000	11	.02	.00	.02	382.	*	3	APR	1200	61	.00	.00	.00	2.
1	APR	1100	12	.04	.00	.04	511.	*	3	APR	1300	62	.00	.00	.00	2.
1	APR	1200	13	.05	.00	.05	723.	*	3	APR	1400	63	.00	.00	.00	1.
1	APR	1300	14	.04	.00	.04	903.	*	3	APR	1500	64	.00	.00	.00	1.
1	APR	1400	15	.12	.00	.12	1189.	*	3	APR	1600	65	.00	.00	.00	1.
1	APR	1500	16	.25	.00	.25	2166.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.27	.00	.27	3631.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.22	.00	.22	4616.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.12	.00	.12	4656.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	3781.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.01	.00	.01	2643.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.01	.00	.01	1933.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	1548.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	1298.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	1115.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	974.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	853.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	737.	*	4	APR	0500	78	.00	.00	.00	0.

SJR_20-yr.out

2 APR 0400	29	.00	.00	.00	633.	*	4 APR 0600	79	.00	.00	.00	0.
2 APR 0500	30	.00	.00	.00	554.	*	4 APR 0700	80	.00	.00	.00	0.
2 APR 0600	31	.00	.00	.00	502.	*	4 APR 0800	81	.00	.00	.00	0.
2 APR 0700	32	.00	.00	.00	462.	*	4 APR 0900	82	.00	.00	.00	0.
2 APR 0800	33	.00	.00	.00	427.	*	4 APR 1000	83	.00	.00	.00	0.
2 APR 0900	34	.00	.00	.00	396.	*	4 APR 1100	84	.00	.00	.00	0.
2 APR 1000	35	.00	.00	.00	365.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	337.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	309.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	280.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	257.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	235.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	212.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	192.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	175.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	160.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	138.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	112.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	89.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	74.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	70.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	68.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = 1.25, TOTAL LOSS = .00, TOTAL EXCESS = 1.25

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
(CFS)	(HR)	(CFS)				
+	4656.	18.00	3563.	1526.	574.	417.
		(INCHES)	.645	1.105	1.245	1.245
		(AC-FT)	1767.	3027.	3413.	3413.

CUMULATIVE AREA = 51.38 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-3/3/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-3/3/FLOW/01APR1992/1HOUR//

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 * *
 49 KK * 4 * SUBAREA 4
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POPPET CREEK

53 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 30 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 110 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

51 BA

SUBBASIN CHARACTERISTICS

TAREA 15.76 SUBBASIN AREA

PRECIPITATION DATA

52 PB

STORM 1.65 BASIN TOTAL PRECIPITATION

54 PI

INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.01	.01	.01	.01	.01	.01
.03	.07	.06	.08	.20	.19	.18	.11	.00	.01
.00	.00	.00	.00	.00	.00				

59 LU

UNIFORM LOSS RATE

STRTL	.00	INITIAL LOSS
CNSTL	.00	UNIFORM LOSS RATE
RTIMP	.00	PERCENT IMPERVIOUS AREA

59 UI

INPUT UNITGRAPH, 22 ORDINATES, VOLUME = 1.00

3073.0	2654.0	1099.0	728.0	511.0	392.0	291.0	240.0	212.0	186.0
162.0	126.0	113.0	90.0	88.0	33.0	33.0	33.0	33.0	33.0
32.6	6.3								

HYDROGRAPH AT STATION 4

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	0.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	2.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	18.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	36.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	51.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	67.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	86.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.02	.00	.02	106.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	129.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.02	.00	.02	160.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.04	.00	.04	242.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.11	.00	.11	514.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.10	.00	.10	679.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.13	.00	.13	850.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.33	.00	.33	1595.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.32	.00	.32	2158.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.30	.00	.30	2335.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.18	.00	.18	2092.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	1354.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.01	.00	.01	857.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	639.	*	3	APR	2300	72	.00	.00	.00	0.

SJRW20-yr.out

1 APR 2200	23	.00	.00	.00	500.	*	4 APR 0000	73	.00	.00	.00	0.
1 APR 2300	24	.00	.00	.00	410.	*	4 APR 0100	74	.00	.00	.00	0.
2 APR 0000	25	.00	.00	.00	345.	*	4 APR 0200	75	.00	.00	.00	0.
2 APR 0100	26	.00	.00	.00	298.	*	4 APR 0300	76	.00	.00	.00	0.
2 APR 0200	27	.00	.00	.00	257.	*	4 APR 0400	77	.00	.00	.00	0.
2 APR 0300	28	.00	.00	.00	209.	*	4 APR 0500	78	.00	.00	.00	0.
2 APR 0400	29	.00	.00	.00	169.	*	4 APR 0600	79	.00	.00	.00	0.
2 APR 0500	30	.00	.00	.00	139.	*	4 APR 0700	80	.00	.00	.00	0.
2 APR 0600	31	.00	.00	.00	108.	*	4 APR 0800	81	.00	.00	.00	0.
2 APR 0700	32	.00	.00	.00	84.	*	4 APR 0900	82	.00	.00	.00	0.
2 APR 0800	33	.00	.00	.00	65.	*	4 APR 1000	83	.00	.00	.00	0.
2 APR 0900	34	.00	.00	.00	51.	*	4 APR 1100	84	.00	.00	.00	0.
2 APR 1000	35	.00	.00	.00	46.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	41.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	31.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	20.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	10.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	3.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	1.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	1.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	1.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = 1.65, TOTAL LOSS = .00, TOTAL EXCESS = 1.65

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	2335.	17.00	1731.	676.	233.	169.
		(INCHES)	1.021	1.596	1.648	1.648
		(AC-FT)	858.	1341.	1385.	1385.

CUMULATIVE AREA = 15.76 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-4/4/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-4/4/FLOW/01APR1992/1HOUR//

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 * *
 65 KK * A *
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BAUTISTA CREEK CONFLUENCE

67 HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION A
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	APR	0000	1	0.	*	2	APR	0100	26	6716.	*	3	APR	0200	51	795.	*	4	APR	0300	76	4.
1	APR	0100	2	0.	*	2	APR	0200	27	5922.	*	3	APR	0300	52	746.	*	4	APR	0400	77	3.
1	APR	0200	3	31.	*	2	APR	0300	28	5194.	*	3	APR	0400	53	703.	*	4	APR	0500	78	3.
1	APR	0300	4	145.	*	2	APR	0400	29	4562.	*	3	APR	0500	54	627.	*	4	APR	0600	79	2.
1	APR	0400	5	340.	*	2	APR	0500	30	4037.	*	3	APR	0600	55	528.	*	4	APR	0700	80	1.
1	APR	0500	6	561.	*	2	APR	0600	31	3603.	*	3	APR	0700	56	433.	*	4	APR	0800	81	0.
1	APR	0600	7	788.	*	2	APR	0700	32	3237.	*	3	APR	0800	57	357.	*	4	APR	0900	82	0.
1	APR	0700	8	1024.	*	2	APR	0800	33	2925.	*	3	APR	0900	58	319.	*	4	APR	1000	83	0.
1	APR	0800	9	1285.	*	2	APR	0900	34	2680.	*	3	APR	1000	59	302.	*	4	APR	1100	84	0.
1	APR	0900	10	1580.	*	2	APR	1000	35	2496.	*	3	APR	1100	60	289.	*	4	APR	1200	85	0.
1	APR	1000	11	1970.	*	2	APR	1100	36	2341.	*	3	APR	1200	61	283.	*	4	APR	1300	86	0.
1	APR	1100	12	3011.	*	2	APR	1200	37	2199.	*	3	APR	1300	62	279.	*	4	APR	1400	87	0.
1	APR	1200	13	4923.	*	2	APR	1300	38	2058.	*	3	APR	1400	63	275.	*	4	APR	1500	88	0.
1	APR	1300	14	7243.	*	2	APR	1400	39	1935.	*	3	APR	1500	64	271.	*	4	APR	1600	89	0.
1	APR	1400	15	10155.	*	2	APR	1500	40	1817.	*	3	APR	1600	65	266.	*	4	APR	1700	90	0.
1	APR	1500	16	15611.	*	2	APR	1600	41	1696.	*	3	APR	1700	66	260.	*	4	APR	1800	91	0.
1	APR	1600	17	22866.	*	2	APR	1700	42	1589.	*	3	APR	1800	67	245.	*	4	APR	1900	92	0.
1	APR	1700	18	28303.	*	2	APR	1800	43	1492.	*	3	APR	1900	68	227.	*	4	APR	2000	93	0.
1	APR	1800	19	28839.	*	2	APR	1900	44	1391.	*	3	APR	2000	69	208.	*	4	APR	2100	94	0.
1	APR	1900	20	24467.	*	2	APR	2000	45	1279.	*	3	APR	2100	70	169.	*	4	APR	2200	95	0.
1	APR	2000	21	18097.	*	2	APR	2100	46	1170.	*	3	APR	2200	71	115.	*	4	APR	2300	96	0.
1	APR	2100	22	13286.	*	2	APR	2200	47	1081.	*	3	APR	2300	72	62.	*	5	APR	0000	97	0.
1	APR	2200	23	10533.	*	2	APR	2300	48	1007.	*	4	APR	0000	73	22.	*	5	APR	0100	98	0.
1	APR	2300	24	8850.	*	3	APR	0000	49	937.	*	4	APR	0100	74	7.	*	5	APR	0200	99	0.
2	APR	0000	25	7659.	*	3	APR	0100	50	867.	*	4	APR	0200	75	6.	*	5	APR	0300	100	0.

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	72-HR	99.00-HR
+	(CFS)	(HR)		24-HR		
		(CFS)				
+	28839.	18.00	22837.	10206.	3939.	2865.
		(INCHES)	.864	1.545	1.789	1.789
		(AC-FT)	11324.	20244.	23437.	23439.

CUMULATIVE AREA = 245.64 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-A/A/FLOW/01MAR1992/1HOUR//
-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-A/A/FLOW/01APR1992/1HOUR//

SJR_20-yr.out

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*
69 KK  *      A-B  *   ROUTE BAUTISTA CK CONFL. TO MASSACRE CANYON CONFL. NEAR SANDERSON AVE.
*      *      *
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ROUTE CONC.PT.A TO CONC.PT.B
BASED ON FJP'S PREVIOUS WORK, L=39,290 FT., Vavg=9.2 FPS.
Vw=1.5*Vavg

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HYDROGRAPH ROUTING DATA

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73 RT      TATUM OR STRADDLE-STAGGER ROUTING
          NSTPS      1  NUMBER OF TATUM STEPS
          NSTDL      2  NUMBER OF ORDINATES TO BE AVERAGED
          LAG        0  NUMBER OF INTERVALS TO LAG HYDROGRAPH

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HYDROGRAPH AT STATION A-B

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	7187.	*	3	APR	0200	51	831.	*	4	APR	0300	76	5.	*
1	APR	0100	2	0.	*	2	APR	0200	27	6319.	*	3	APR	0300	52	770.	*	4	APR	0400	77	4.	*
1	APR	0200	3	16.	*	2	APR	0300	28	5558.	*	3	APR	0400	53	725.	*	4	APR	0500	78	3.	*
1	APR	0300	4	88.	*	2	APR	0400	29	4878.	*	3	APR	0500	54	665.	*	4	APR	0600	79	2.	*
1	APR	0400	5	242.	*	2	APR	0500	30	4299.	*	3	APR	0600	55	577.	*	4	APR	0700	80	1.	*
1	APR	0500	6	451.	*	2	APR	0600	31	3820.	*	3	APR	0700	56	481.	*	4	APR	0800	81	1.	*
1	APR	0600	7	675.	*	2	APR	0700	32	3420.	*	3	APR	0800	57	395.	*	4	APR	0900	82	0.	*
1	APR	0700	8	906.	*	2	APR	0800	33	3081.	*	3	APR	0900	58	338.	*	4	APR	1000	83	0.	*
1	APR	0800	9	1154.	*	2	APR	0900	34	2803.	*	3	APR	1000	59	311.	*	4	APR	1100	84	0.	*
1	APR	0900	10	1432.	*	2	APR	1000	35	2588.	*	3	APR	1100	60	296.	*	4	APR	1200	85	0.	*
1	APR	1000	11	1775.	*	2	APR	1100	36	2419.	*	3	APR	1200	61	286.	*	4	APR	1300	86	0.	*
1	APR	1100	12	2490.	*	2	APR	1200	37	2270.	*	3	APR	1300	62	281.	*	4	APR	1400	87	0.	*
1	APR	1200	13	3967.	*	2	APR	1300	38	2129.	*	3	APR	1400	63	277.	*	4	APR	1500	88	0.	*
1	APR	1300	14	6083.	*	2	APR	1400	39	1997.	*	3	APR	1500	64	273.	*	4	APR	1600	89	0.	*
1	APR	1400	15	8699.	*	2	APR	1500	40	1876.	*	3	APR	1600	65	268.	*	4	APR	1700	90	0.	*
1	APR	1500	16	12883.	*	2	APR	1600	41	1756.	*	3	APR	1700	66	263.	*	4	APR	1800	91	0.	*
1	APR	1600	17	19239.	*	2	APR	1700	42	1642.	*	3	APR	1800	67	252.	*	4	APR	1900	92	0.	*
1	APR	1700	18	25585.	*	2	APR	1800	43	1541.	*	3	APR	1900	68	236.	*	4	APR	2000	93	0.	*
1	APR	1800	19	28571.	*	2	APR	1900	44	1441.	*	3	APR	2000	69	218.	*	4	APR	2100	94	0.	*
1	APR	1900	20	26653.	*	2	APR	2000	45	1335.	*	3	APR	2100	70	189.	*	4	APR	2200	95	0.	*
1	APR	2000	21	21282.	*	2	APR	2100	46	1224.	*	3	APR	2200	71	142.	*	4	APR	2300	96	0.	*
1	APR	2100	22	15692.	*	2	APR	2200	47	1126.	*	3	APR	2300	72	89.	*	5	APR	0000	97	0.	*
1	APR	2200	23	11909.	*	2	APR	2300	48	1044.	*	4	APR	0000	73	42.	*	5	APR	0100	98	0.	*
1	APR	2300	24	9691.	*	3	APR	0000	49	972.	*	4	APR	0100	74	14.	*	5	APR	0200	99	0.	*
2	APR	0000	25	8254.	*	3	APR	0100	50	902.	*	4	APR	0200	75	6.	*	5	APR	0300	100	0.	*

SJR_20-yr.out

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)					
+	28571.	18.00	(CFS)	22603.	10205.	3939.	2865.
			(INCHES)	.856	1.545	1.789	1.789
			(AC-FT)	11208.	20241.	23436.	23439.

CUMULATIVE AREA = 245.64 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE A-B/A-B/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE A-B/A-B/FLOW/01APR1992/1HOUR//

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 *
 75 KK * 6 * SUBAREA 6
 *

MASSACRE CANYON

79 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 30 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 100 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

77 BA SUBBASIN CHARACTERISTICS
 TAREA 35.42 SUBBASIN AREA

PRECIPITATION DATA

78 PB STORM 1.57 BASIN TOTAL PRECIPITATION

80 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.01	.01	.01	.01	.01	.02
.08	.05	.07	.18	.20	.18	.13	.00	.01	.00
.00	.00	.00	.00	.00	.00				

85 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

85 UI INPUT UNITGRAPH, 29 ORDINATES, VOLUME = 1.00

3842.0	6708.0	2914.0	1774.0	1305.0	960.0	783.0	643.0	506.0	430.0
388.0	356.0	318.0	283.0	268.0	205.0	205.0	161.0	149.0	149.0
82.4	54.1	54.1	54.1	54.1	54.1	54.1	54.1	40.4	

SJR_20-yr.out

HYDROGRAPH AT STATION 6

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	1.
1	APR	0100	2	.00	.00	.00	0.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	18.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	56.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	86.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	115.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	152.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	193.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.02	.00	.02	234.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	285.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	377.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.12	.00	.12	823.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.08	.00	.08	1311.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.11	.00	.11	1438.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.28	.00	.28	2343.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.32	.00	.32	3783.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.29	.00	.29	4523.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.21	.00	.21	4514.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	3487.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	2120.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	1569.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	1235.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	1010.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	848.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	721.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	633.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	556.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	485.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	429.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	376.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	332.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	286.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	244.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	216.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	180.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	146.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	116.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	92.	*	4	APR	1500	88	.00	.00	.00	0.
2	APR	1400	39	.00	.00	.00	84.	*	4	APR	1600	89	.00	.00	.00	0.
2	APR	1500	40	.00	.00	.00	80.	*	4	APR	1700	90	.00	.00	.00	0.
2	APR	1600	41	.00	.00	.00	73.	*	4	APR	1800	91	.00	.00	.00	0.
2	APR	1700	42	.00	.00	.00	67.	*	4	APR	1900	92	.00	.00	.00	0.
2	APR	1800	43	.00	.00	.00	58.	*	4	APR	2000	93	.00	.00	.00	0.
2	APR	1900	44	.00	.00	.00	43.	*	4	APR	2100	94	.00	.00	.00	0.
2	APR	2000	45	.00	.00	.00	25.	*	4	APR	2200	95	.00	.00	.00	0.
2	APR	2100	46	.00	.00	.00	11.	*	4	APR	2300	96	.00	.00	.00	0.
2	APR	2200	47	.00	.00	.00	2.	*	5	APR	0000	97	.00	.00	.00	0.
2	APR	2300	48	.00	.00	.00	2.	*	5	APR	0100	98	.00	.00	.00	0.

SJR_20-yr.out

3 APR 0000	49	.00	.00	.00	1.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	1.	*	5 APR 0300	100	.00	.00	.00	0.
						*						

TOTAL RAINFALL = 1.57, TOTAL LOSS = .00, TOTAL EXCESS = 1.57

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW		
(CFS)	(HR)			24-HR	72-HR	99.00-HR
+		(CFS)				
+	4523.	16.00	3405.	1405.	497.	361.
		(INCHES)	.894	1.475	1.565	1.565
		(AC-FT)	1688.	2787.	2957.	2957.
CUMULATIVE AREA =			35.42 SQ MI			

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90 KK * 5 * SUBAREA 5

SOBOBA-GILMAN

94 IN TIME DATA FOR INPUT TIME SERIES

 JXMIN 30 TIME INTERVAL IN MINUTES

 JXDATE 1APR92 STARTING DATE

 JXTIME 55 STARTING TIME

 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

92 BA SUBBASIN CHARACTERISTICS

 TAREA 12.07 SUBBASIN AREA

PRECIPITATION DATA

93 PB STORM 1.11 BASIN TOTAL PRECIPITATION

95 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.01	.01	.01	.01	.01	.02	.02	.05
.04	.05	.17	.22	.19	.14	.01	.01	.01	.00
.00	.00	.00	.00	.00	.00				

100 LU UNIFORM LOSS RATE

 STRTL .00 INITIAL LOSS

 CNSTL .00 UNIFORM LOSS RATE

 RTIMP .00 PERCENT IMPERVIOUS AREA

100 UI INPUT UNITGRAPH, 23 ORDINATES, VOLUME = 1.00

2082.0	2170.0	853.0	570.0	401.0	309.0	227.0	186.0	163.0	144.0
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SJRW20-yr.out

126.0	110.0	89.0	77.0	65.0	60.0	24.0	24.0	24.0	24.0
23.5	23.5	12.1							

HYDROGRAPH AT STATION 5

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	8.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	18.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	27.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	36.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	47.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	55.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	69.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.02	.00	.02	88.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	113.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.06	.00	.06	206.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.05	.00	.05	273.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.06	.00	.06	310.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.19	.00	.19	619.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.25	.00	.25	1041.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.21	.00	.21	1212.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.16	.00	.16	1162.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.02	.00	.02	820.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	499.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	367.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	285.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	233.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	198.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	173.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	150.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	125.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	102.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	85.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	71.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	57.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	43.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	34.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	27.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	24.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	22.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	19.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	13.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	8.	*	4	APR	1500	88	.00	.00	.00	0.
2	APR	1400	39	.00	.00	.00	3.	*	4	APR	1600	89	.00	.00	.00	0.
2	APR	1500	40	.00	.00	.00	1.	*	4	APR	1700	90	.00	.00	.00	0.
2	APR	1600	41	.00	.00	.00	1.	*	4	APR	1800	91	.00	.00	.00	0.
2	APR	1700	42	.00	.00	.00	1.	*	4	APR	1900	92	.00	.00	.00	0.
2	APR	1800	43	.00	.00	.00	0.	*	4	APR	2000	93	.00	.00	.00	0.
2	APR	1900	44	.00	.00	.00	0.	*	4	APR	2100	94	.00	.00	.00	0.

SJRW20-yr.out

2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = 1.11, TOTAL LOSS = .00, TOTAL EXCESS = 1.11

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW		
				24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	1212.	15.00	876.	346.	120.	87.
		(INCHES)	.675	1.066	1.110	1.110
		(AC-FT)	435.	686.	714.	714.
CUMULATIVE AREA =			12.07 SQ MI			

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105 KK *****
 * *
 * B *
 * *

MASSACRE CANYON CONFLUENCE NEAR SANDERSON AVENUE

107 HC HYDROGRAPH COMBINATION
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION B
 SUM OF 3 HYDROGRAPHS

				*					*					*				*				
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
				*					*					*				*				*
1	APR	0000	1	0.	*	2	APR	0100	26	7946.	*	3	APR	0200	51	832.	*	4	APR	0300	76	5.
1	APR	0100	2	8.	*	2	APR	0200	27	6978.	*	3	APR	0300	52	771.	*	4	APR	0400	77	4.
1	APR	0200	3	52.	*	2	APR	0300	28	6128.	*	3	APR	0400	53	725.	*	4	APR	0500	78	3.
1	APR	0300	4	170.	*	2	APR	0400	29	5378.	*	3	APR	0500	54	665.	*	4	APR	0600	79	2.
1	APR	0400	5	364.	*	2	APR	0500	30	4733.	*	3	APR	0600	55	577.	*	4	APR	0700	80	1.
1	APR	0500	6	613.	*	2	APR	0600	31	4196.	*	3	APR	0700	56	481.	*	4	APR	0800	81	1.
1	APR	0600	7	882.	*	2	APR	0700	32	3739.	*	3	APR	0800	57	395.	*	4	APR	0900	82	0.
1	APR	0700	8	1167.	*	2	APR	0800	33	3352.	*	3	APR	0900	58	338.	*	4	APR	1000	83	0.
1	APR	0800	9	1476.	*	2	APR	0900	34	3043.	*	3	APR	1000	59	311.	*	4	APR	1100	84	0.

SJR_20-yr.out

1 APR 0900	10	1830.	*	2 APR 1000	35	2790.	*	3 APR 1100	60	296.	*	4 APR 1200	85	0.
1 APR 1000	11	2358.	*	2 APR 1100	36	2584.	*	3 APR 1200	61	286.	*	4 APR 1300	86	0.
1 APR 1100	12	3586.	*	2 APR 1200	37	2399.	*	3 APR 1300	62	281.	*	4 APR 1400	87	0.
1 APR 1200	13	5587.	*	2 APR 1300	38	2229.	*	3 APR 1400	63	277.	*	4 APR 1500	88	0.
1 APR 1300	14	8140.	*	2 APR 1400	39	2084.	*	3 APR 1500	64	273.	*	4 APR 1600	89	0.
1 APR 1400	15	12083.	*	2 APR 1500	40	1957.	*	3 APR 1600	65	268.	*	4 APR 1700	90	0.
1 APR 1500	16	17878.	*	2 APR 1600	41	1830.	*	3 APR 1700	66	263.	*	4 APR 1800	91	0.
1 APR 1600	17	24925.	*	2 APR 1700	42	1710.	*	3 APR 1800	67	252.	*	4 APR 1900	92	0.
1 APR 1700	18	30919.	*	2 APR 1800	43	1599.	*	3 APR 1900	68	236.	*	4 APR 2000	93	0.
1 APR 1800	19	32557.	*	2 APR 1900	44	1484.	*	3 APR 2000	69	218.	*	4 APR 2100	94	0.
1 APR 1900	20	29140.	*	2 APR 2000	45	1360.	*	3 APR 2100	70	189.	*	4 APR 2200	95	0.
1 APR 2000	21	23136.	*	2 APR 2100	46	1235.	*	3 APR 2200	71	142.	*	4 APR 2300	96	0.
1 APR 2100	22	17160.	*	2 APR 2200	47	1128.	*	3 APR 2300	72	89.	*	5 APR 0000	97	0.
1 APR 2200	23	13117.	*	2 APR 2300	48	1046.	*	4 APR 0000	73	42.	*	5 APR 0100	98	0.
1 APR 2300	24	10712.	*	3 APR 0000	49	973.	*	4 APR 0100	74	14.	*	5 APR 0200	99	0.
2 APR 0000	25	9125.	*	3 APR 0100	50	903.	*	4 APR 0200	75	6.	*	5 APR 0300	100	0.

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
+	32557.	18.00	26366.	11922.	4556.	3313.
		(INCHES)	.836	1.513	1.734	1.734
		(AC-FT)	13074.	23647.	27107.	27110.

CUMULATIVE AREA = 293.13 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-B/B/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-B/B/FLOW/01APR1992/1HOUR//

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 * *
 109 KK * 7 * SUBAREA 7
 * *

LAMB CANYON

113 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 45 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

111 BA SUBBASIN CHARACTERISTICS
 TAREA 5.64 SUBBASIN AREA

PRECIPITATION DATA

SJR_20-yr.out

112 PB STORM 1.17 BASIN TOTAL PRECIPITATION

114 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.01	.01	.01	.01	.01	.01	.01	.02	.04
.05	.06	.14	.23	.18	.15	.03	.01	.00		.00
.00	.00	.00	.00	.00	.00					

124 LU UNIFORM LOSS RATE

STRTL	.00	INITIAL LOSS
CNSTL	.00	UNIFORM LOSS RATE
RTIMP	.00	PERCENT IMPERVIOUS AREA

124 UI INPUT UNITGRAPH, 16 ORDINATES, VOLUME = 1.00

1530.0	793.0	373.0	234.0	161.0	119.0	99.0	82.0	65.0	52.0
42.5	23.9	15.5	15.5	15.5	15.5				

HYDROGRAPH AT STATION 7

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
								*								
								*								
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	5.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	10.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	14.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	22.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	26.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	31.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	38.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.02	.00	.02	46.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	59.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.05	.00	.05	109.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.06	.00	.06	143.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.06	.00	.06	174.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.17	.00	.17	348.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.27	.00	.27	602.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.21	.00	.21	639.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.18	.00	.18	611.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.04	.00	.04	387.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	238.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.00	.00	.00	166.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	128.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	104.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	87.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	73.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	60.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	43.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	30.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	21.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	17.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	13.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	9.	*	4	APR	0800	81	.00	.00	.00	0.

SJR_20-yr.out

2 APR 0700	32	.00	.00	.00	5.	*	4 APR 0900	82	.00	.00	.00	0.
2 APR 0800	33	.00	.00	.00	2.	*	4 APR 1000	83	.00	.00	.00	0.
2 APR 0900	34	.00	.00	.00	1.	*	4 APR 1100	84	.00	.00	.00	0.
2 APR 1000	35	.00	.00	.00	1.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	0.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	0.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	0.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = 1.17, TOTAL LOSS = .00, TOTAL EXCESS = 1.17

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	639.	15.00	466.	174.	59.	43.
		(INCHES)	.767	1.149	1.171	1.171
		(AC-FT)	231.	346.	352.	352.
CUMULATIVE AREA =			5.64 SQ MI			

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128 KK * C *
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LAMB CANYON CONFLUENCE

130 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION C
SUM OF 2 HYDROGRAPHS

SJR_20-yr.out

					*						*						*					
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	APR	0000	1	0.	*	2	APR	0100	26	7989.	*	3	APR	0200	51	832.	*	4	APR	0300	76	5.
1	APR	0100	2	14.	*	2	APR	0200	27	7007.	*	3	APR	0300	52	771.	*	4	APR	0400	77	4.
1	APR	0200	3	62.	*	2	APR	0300	28	6149.	*	3	APR	0400	53	725.	*	4	APR	0500	78	3.
1	APR	0300	4	184.	*	2	APR	0400	29	5395.	*	3	APR	0500	54	665.	*	4	APR	0600	79	2.
1	APR	0400	5	386.	*	2	APR	0500	30	4746.	*	3	APR	0600	55	577.	*	4	APR	0700	80	1.
1	APR	0500	6	639.	*	2	APR	0600	31	4204.	*	3	APR	0700	56	481.	*	4	APR	0800	81	1.
1	APR	0600	7	913.	*	2	APR	0700	32	3744.	*	3	APR	0800	57	395.	*	4	APR	0900	82	0.
1	APR	0700	8	1206.	*	2	APR	0800	33	3353.	*	3	APR	0900	58	338.	*	4	APR	1000	83	0.
1	APR	0800	9	1522.	*	2	APR	0900	34	3044.	*	3	APR	1000	59	311.	*	4	APR	1100	84	0.
1	APR	0900	10	1889.	*	2	APR	1000	35	2791.	*	3	APR	1100	60	296.	*	4	APR	1200	85	0.
1	APR	1000	11	2467.	*	2	APR	1100	36	2584.	*	3	APR	1200	61	286.	*	4	APR	1300	86	0.
1	APR	1100	12	3729.	*	2	APR	1200	37	2400.	*	3	APR	1300	62	281.	*	4	APR	1400	87	0.
1	APR	1200	13	5761.	*	2	APR	1300	38	2229.	*	3	APR	1400	63	277.	*	4	APR	1500	88	0.
1	APR	1300	14	8489.	*	2	APR	1400	39	2084.	*	3	APR	1500	64	273.	*	4	APR	1600	89	0.
1	APR	1400	15	12685.	*	2	APR	1500	40	1957.	*	3	APR	1600	65	268.	*	4	APR	1700	90	0.
1	APR	1500	16	18517.	*	2	APR	1600	41	1830.	*	3	APR	1700	66	263.	*	4	APR	1800	91	0.
1	APR	1600	17	25535.	*	2	APR	1700	42	1710.	*	3	APR	1800	67	252.	*	4	APR	1900	92	0.
1	APR	1700	18	31306.	*	2	APR	1800	43	1599.	*	3	APR	1900	68	236.	*	4	APR	2000	93	0.
1	APR	1800	19	32795.	*	2	APR	1900	44	1484.	*	3	APR	2000	69	218.	*	4	APR	2100	94	0.
1	APR	1900	20	29305.	*	2	APR	2000	45	1360.	*	3	APR	2100	70	189.	*	4	APR	2200	95	0.
1	APR	2000	21	23264.	*	2	APR	2100	46	1235.	*	3	APR	2200	71	142.	*	4	APR	2300	96	0.
1	APR	2100	22	17263.	*	2	APR	2200	47	1128.	*	3	APR	2300	72	89.	*	5	APR	0000	97	0.
1	APR	2200	23	13204.	*	2	APR	2300	48	1046.	*	4	APR	0000	73	42.	*	5	APR	0100	98	0.
1	APR	2300	24	10785.	*	3	APR	0000	49	973.	*	4	APR	0100	74	14.	*	5	APR	0200	99	0.
2	APR	0000	25	9185.	*	3	APR	0100	50	903.	*	4	APR	0200	75	6.	*	5	APR	0300	100	0.

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	99.00-HR	
+	(CFS)	(HR)		24-HR	72-HR	
		(CFS)				
+	32795.	18.00	26683.	12087.	4615.	3357.
		(INCHES)	.830	1.505	1.723	1.723
		(AC-FT)	13231.	23974.	27459.	27462.

CUMULATIVE AREA = 298.77 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-C/C/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-C/C/FLOW/01APR1992/1HOUR//

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 132 KK * 8 * SUBAREA 8
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 LABORDE CANYON

136 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 45 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

134 BA SUBBASIN CHARACTERISTICS
 TAREA 9.73 SUBBASIN AREA

PRECIPITATION DATA

135 PB STORM .91 BASIN TOTAL PRECIPITATION

137 PI INCREMENTAL PRECIPITATION PATTERN
 .00 .01 .01 .01 .01 .01 .02 .02 .03 .03
 .03 .03 .13 .25 .19 .15 .03 .01 .01 .00
 .00 .00 .00 .00 .00 .00

147 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

147 UI INPUT UNITGRAPH, 16 ORDINATES, VOLUME = 1.00
 2711.0 1342.0 638.0 403.0 272.0 203.0 171.0 141.0 108.0 85.0
 75.3 27.8 27.4 27.4 27.4 16.1

HYDROGRAPH AT STATION 8

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	7.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	16.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	28.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	33.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	47.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	58.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	70.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.02	.00	.02	81.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	110.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	142.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.03	.00	.03	156.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.03	.00	.03	164.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.12	.00	.12	416.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.23	.00	.23	831.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.17	.00	.17	877.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.14	.00	.14	825.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.03	.00	.03	512.	*	3	APR	1900	68	.00	.00	.00	0.

SJRW_20-yr.out												
1 APR 1800	19	.01	.00	.01	313.	*	3 APR 2000	69	.00	.00	.00	0.
1 APR 1900	20	.01	.00	.01	225.	*	3 APR 2100	70	.00	.00	.00	0.
1 APR 2000	21	.00	.00	.00	174.	*	3 APR 2200	71	.00	.00	.00	0.
1 APR 2100	22	.00	.00	.00	139.	*	3 APR 2300	72	.00	.00	.00	0.
1 APR 2200	23	.00	.00	.00	115.	*	4 APR 0000	73	.00	.00	.00	0.
1 APR 2300	24	.00	.00	.00	96.	*	4 APR 0100	74	.00	.00	.00	0.
2 APR 0000	25	.00	.00	.00	79.	*	4 APR 0200	75	.00	.00	.00	0.
2 APR 0100	26	.00	.00	.00	54.	*	4 APR 0300	76	.00	.00	.00	0.
2 APR 0200	27	.00	.00	.00	37.	*	4 APR 0400	77	.00	.00	.00	0.
2 APR 0300	28	.00	.00	.00	27.	*	4 APR 0500	78	.00	.00	.00	0.
2 APR 0400	29	.00	.00	.00	22.	*	4 APR 0600	79	.00	.00	.00	0.
2 APR 0500	30	.00	.00	.00	16.	*	4 APR 0700	80	.00	.00	.00	0.
2 APR 0600	31	.00	.00	.00	10.	*	4 APR 0800	81	.00	.00	.00	0.
2 APR 0700	32	.00	.00	.00	5.	*	4 APR 0900	82	.00	.00	.00	0.
2 APR 0800	33	.00	.00	.00	2.	*	4 APR 1000	83	.00	.00	.00	0.
2 APR 0900	34	.00	.00	.00	1.	*	4 APR 1100	84	.00	.00	.00	0.
2 APR 1000	35	.00	.00	.00	1.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	1.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	0.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	0.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .91, TOTAL LOSS = .00, TOTAL EXCESS = .91

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	877.	15.00	617.	233.	79.	57.
		(INCHES)	.589	.889	.906	.906
		(AC-FT)	306.	461.	470.	470.
		CUMULATIVE AREA =	9.73 SQ MI			

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*	*
151 KK	D
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LABORDE CANYON CONFLUENCE

153 HC

HYDROGRAPH COMBINATION

ICOMP

2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION D
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	8043.	*	3	APR	0200	51	832.	*	4	APR	0300	76	5.	*
1	APR	0100	2	21.	*	2	APR	0200	27	7045.	*	3	APR	0300	52	771.	*	4	APR	0400	77	4.	*
1	APR	0200	3	78.	*	2	APR	0300	28	6176.	*	3	APR	0400	53	725.	*	4	APR	0500	78	3.	*
1	APR	0300	4	212.	*	2	APR	0400	29	5417.	*	3	APR	0500	54	665.	*	4	APR	0600	79	2.	*
1	APR	0400	5	420.	*	2	APR	0500	30	4762.	*	3	APR	0600	55	577.	*	4	APR	0700	80	1.	*
1	APR	0500	6	685.	*	2	APR	0600	31	4214.	*	3	APR	0700	56	481.	*	4	APR	0800	81	1.	*
1	APR	0600	7	972.	*	2	APR	0700	32	3749.	*	3	APR	0800	57	395.	*	4	APR	0900	82	0.	*
1	APR	0700	8	1276.	*	2	APR	0800	33	3355.	*	3	APR	0900	58	338.	*	4	APR	1000	83	0.	*
1	APR	0800	9	1603.	*	2	APR	0900	34	3045.	*	3	APR	1000	59	311.	*	4	APR	1100	84	0.	*
1	APR	0900	10	1999.	*	2	APR	1000	35	2792.	*	3	APR	1100	60	296.	*	4	APR	1200	85	0.	*
1	APR	1000	11	2609.	*	2	APR	1100	36	2585.	*	3	APR	1200	61	286.	*	4	APR	1300	86	0.	*
1	APR	1100	12	3885.	*	2	APR	1200	37	2400.	*	3	APR	1300	62	281.	*	4	APR	1400	87	0.	*
1	APR	1200	13	5925.	*	2	APR	1300	38	2229.	*	3	APR	1400	63	277.	*	4	APR	1500	88	0.	*
1	APR	1300	14	8905.	*	2	APR	1400	39	2084.	*	3	APR	1500	64	273.	*	4	APR	1600	89	0.	*
1	APR	1400	15	13515.	*	2	APR	1500	40	1957.	*	3	APR	1600	65	268.	*	4	APR	1700	90	0.	*
1	APR	1500	16	19395.	*	2	APR	1600	41	1830.	*	3	APR	1700	66	263.	*	4	APR	1800	91	0.	*
1	APR	1600	17	26361.	*	2	APR	1700	42	1710.	*	3	APR	1800	67	252.	*	4	APR	1900	92	0.	*
1	APR	1700	18	31818.	*	2	APR	1800	43	1599.	*	3	APR	1900	68	236.	*	4	APR	2000	93	0.	*
1	APR	1800	19	33108.	*	2	APR	1900	44	1484.	*	3	APR	2000	69	218.	*	4	APR	2100	94	0.	*
1	APR	1900	20	29530.	*	2	APR	2000	45	1360.	*	3	APR	2100	70	189.	*	4	APR	2200	95	0.	*
1	APR	2000	21	23438.	*	2	APR	2100	46	1235.	*	3	APR	2200	71	142.	*	4	APR	2300	96	0.	*
1	APR	2100	22	17403.	*	2	APR	2200	47	1128.	*	3	APR	2300	72	89.	*	5	APR	0000	97	0.	*
1	APR	2200	23	13319.	*	2	APR	2300	48	1046.	*	4	APR	0000	73	42.	*	5	APR	0100	98	0.	*
1	APR	2300	24	10881.	*	3	APR	0000	49	973.	*	4	APR	0100	74	14.	*	5	APR	0200	99	0.	*
2	APR	0000	25	9264.	*	3	APR	0100	50	903.	*	4	APR	0200	75	6.	*	5	APR	0300	100	0.	*

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	33108.	18.00	27109.	12302.	4694.	3414.
		(INCHES)	.817	1.483	1.697	1.698
		(AC-FT)	13442.	24401.	27929.	27933.

CUMULATIVE AREA = 308.50 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-D/D/FLOW/01MAR1992/1HOUR//
-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-D/D/FLOW/01APR1992/1HOUR//

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 * *
 155 KK * 9 * SUBAREA 9
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SAN JACINTO VALLEY

159 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 30 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 50 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

157 BA SUBBASIN CHARACTERISTICS
 TAREA 43.98 SUBBASIN AREA

PRECIPITATION DATA

158 PB STORM .83 BASIN TOTAL PRECIPITATION

160 PI INCREMENTAL PRECIPITATION PATTERN
 .00 .00 .01 .01 .01 .01 .01 .02 .02 .04
 .04 .04 .15 .24 .19 .15 .02 .01 .01 .00
 .00 .00 .00 .00 .00 .00

165 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

165 UI INPUT UNITGRAPH, 18 ORDINATES, VOLUME = 1.00
 10816.0 6517.0 3012.0 1883.0 1344.0 952.0 775.0 668.0 560.0 444.0
 370.0 299.0 210.0 109.0 109.0 109.0 109.0 81.0

HYDROGRAPH AT STATION 9

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	36.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	67.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	98.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	128.	*	3	APR	0600	55	.00	.00	.00	0.

SJR_20-yr.out

1	APR	0500	6	.01	.00	.01	166.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	195.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	242.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	298.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	392.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	571.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.03	.00	.03	661.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.03	.00	.03	707.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.13	.00	.13	1815.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.20	.00	.20	3232.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.16	.00	.16	3571.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.13	.00	.13	3365.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.02	.00	.02	2140.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	1334.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.00	.00	.00	953.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	744.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	604.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	510.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	435.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	372.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	285.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	207.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	149.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	111.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	89.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	78.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	59.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	37.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	18.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	7.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	4.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	3.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	2.	*	4	APR	1500	88	.00	.00	.00	0.
2	APR	1400	39	.00	.00	.00	1.	*	4	APR	1600	89	.00	.00	.00	0.
2	APR	1500	40	.00	.00	.00	1.	*	4	APR	1700	90	.00	.00	.00	0.
2	APR	1600	41	.00	.00	.00	1.	*	4	APR	1800	91	.00	.00	.00	0.
2	APR	1700	42	.00	.00	.00	0.	*	4	APR	1900	92	.00	.00	.00	0.
2	APR	1800	43	.00	.00	.00	0.	*	4	APR	2000	93	.00	.00	.00	0.
2	APR	1900	44	.00	.00	.00	0.	*	4	APR	2100	94	.00	.00	.00	0.
2	APR	2000	45	.00	.00	.00	0.	*	4	APR	2200	95	.00	.00	.00	0.
2	APR	2100	46	.00	.00	.00	0.	*	4	APR	2300	96	.00	.00	.00	0.
2	APR	2200	47	.00	.00	.00	0.	*	5	APR	0000	97	.00	.00	.00	0.
2	APR	2300	48	.00	.00	.00	0.	*	5	APR	0100	98	.00	.00	.00	0.
3	APR	0000	49	.00	.00	.00	0.	*	5	APR	0200	99	.00	.00	.00	0.
3	APR	0100	50	.00	.00	.00	0.	*	5	APR	0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .83, TOTAL LOSS = .00, TOTAL EXCESS = .83

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	72-HR	99.00-HR
+	(CFS)	(HR)		24-HR		
		(CFS)				
+	3571.	15.00	2524.	961.	329.	239.
		(INCHES)	.534	.813	.835	.835
		(AC-FT)	1251.	1906.	1958.	1958.

CUMULATIVE AREA = 43.98 SQ MI

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* *
169 KK * E *
* *

BRIDGE STREET

171 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION E
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	8328.	*	3	APR	0200	51	832.	*	4	APR	0300	76	5.	*
1	APR	0100	2	57.	*	2	APR	0200	27	7251.	*	3	APR	0300	52	771.	*	4	APR	0400	77	4.	*
1	APR	0200	3	145.	*	2	APR	0300	28	6325.	*	3	APR	0400	53	725.	*	4	APR	0500	78	3.	*
1	APR	0300	4	310.	*	2	APR	0400	29	5528.	*	3	APR	0500	54	665.	*	4	APR	0600	79	2.	*
1	APR	0400	5	547.	*	2	APR	0500	30	4851.	*	3	APR	0600	55	577.	*	4	APR	0700	80	1.	*
1	APR	0500	6	851.	*	2	APR	0600	31	4292.	*	3	APR	0700	56	481.	*	4	APR	0800	81	1.	*
1	APR	0600	7	1167.	*	2	APR	0700	32	3808.	*	3	APR	0800	57	395.	*	4	APR	0900	82	0.	*
1	APR	0700	8	1518.	*	2	APR	0800	33	3392.	*	3	APR	0900	58	338.	*	4	APR	1000	83	0.	*
1	APR	0800	9	1902.	*	2	APR	0900	34	3064.	*	3	APR	1000	59	311.	*	4	APR	1100	84	0.	*
1	APR	0900	10	2390.	*	2	APR	1000	35	2798.	*	3	APR	1100	60	296.	*	4	APR	1200	85	0.	*
1	APR	1000	11	3179.	*	2	APR	1100	36	2589.	*	3	APR	1200	61	286.	*	4	APR	1300	86	0.	*
1	APR	1100	12	4546.	*	2	APR	1200	37	2403.	*	3	APR	1300	62	281.	*	4	APR	1400	87	0.	*
1	APR	1200	13	6632.	*	2	APR	1300	38	2231.	*	3	APR	1400	63	277.	*	4	APR	1500	88	0.	*
1	APR	1300	14	10720.	*	2	APR	1400	39	2086.	*	3	APR	1500	64	273.	*	4	APR	1600	89	0.	*
1	APR	1400	15	16748.	*	2	APR	1500	40	1958.	*	3	APR	1600	65	268.	*	4	APR	1700	90	0.	*
1	APR	1500	16	22966.	*	2	APR	1600	41	1830.	*	3	APR	1700	66	263.	*	4	APR	1800	91	0.	*
1	APR	1600	17	29725.	*	2	APR	1700	42	1711.	*	3	APR	1800	67	252.	*	4	APR	1900	92	0.	*
1	APR	1700	18	33958.	*	2	APR	1800	43	1599.	*	3	APR	1900	68	236.	*	4	APR	2000	93	0.	*
1	APR	1800	19	34442.	*	2	APR	1900	44	1484.	*	3	APR	2000	69	218.	*	4	APR	2100	94	0.	*
1	APR	1900	20	30483.	*	2	APR	2000	45	1360.	*	3	APR	2100	70	189.	*	4	APR	2200	95	0.	*
1	APR	2000	21	24181.	*	2	APR	2100	46	1235.	*	3	APR	2200	71	142.	*	4	APR	2300	96	0.	*
1	APR	2100	22	18007.	*	2	APR	2200	47	1128.	*	3	APR	2300	72	89.	*	5	APR	0000	97	0.	*
1	APR	2200	23	13829.	*	2	APR	2300	48	1046.	*	4	APR	0000	73	42.	*	5	APR	0100	98	0.	*
1	APR	2300	24	11316.	*	3	APR	0000	49	973.	*	4	APR	0100	74	14.	*	5	APR	0200	99	0.	*
2	APR	0000	25	9636.	*	3	APR	0100	50	903.	*	4	APR	0200	75	6.	*	5	APR	0300	100	0.	*

SJR_20-yr.out

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	34442.	18.00	28879.	13209.	5022.	3653.
		(INCHES)	.762	1.394	1.590	1.590
		(AC-FT)	14320.	26200.	29886.	29890.

CUMULATIVE AREA = 352.48 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-E/E/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-E/E/FLOW/01APR1992/1HOUR//

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 * *
 173 KK * E-F * ROUTE
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ROUTE BRIDGE ST TO SPLIT(before split flow)
 BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010- MLA
 MYSTIC LAKE FULL CONDITIONS - I.E. 1424 WSE
 Time Step (Ave Travel Time = 5.09 Hours - Divide by 1.5 Vw=3.39 hr)
 Because of this use NSTPS = 3 jcc 9 Feb 2010

HYDROGRAPH ROUTING DATA

179 RS	STORAGE ROUTING		3	NUMBER OF SUBREACHES							
	NSTPS		STOR	TYPE OF INITIAL CONDITION							
	ITYP		-1.00	INITIAL CONDITION							
	RSVRIC		.00	WORKING R AND D COEFFICIENT							
	X										
180 SV	STORAGE	.0	5422.0	6214.0	7192.0	8523.0	9595.0	10477.0	11979.0	15904.0	18679.0
		20011.0	21382.0	22528.0	23644.0	27656.0	31546.0				
182 SQ	DISCHARGE	0.	500.	1000.	2000.	4000.	6000.	8000.	10000.	15000.	20000.
		25000.	30000.	35000.	40000.	60000.	80000.				

HYDROGRAPH AT STATION E-F

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1	APR	0000	1	0.	.00	*	2	APR	1000	35	9092.	3765.66	*	3	APR	2000	69	789.	1960.07
1	APR	0100	2	0.	.00	*	2	APR	1100	36	7955.	3485.74	*	3	APR	2100	70	760.	1944.52
1	APR	0200	3	0.	.00	*	2	APR	1200	37	6439.	3262.85	*	3	APR	2200	71	732.	1929.83

SJR_20-yr.out

1 APR 0300	4	0.	.01	*	2 APR 1300	38	5464.	3102.49	*	3 APR 2300	72	706.	1916.02
1 APR 0400	5	0.	.04	*	2 APR 1400	39	4779.	2980.11	*	4 APR 0000	73	681.	1903.05
1 APR 0500	6	0.	.10	*	2 APR 1500	40	4235.	2883.04	*	4 APR 0100	74	658.	1890.87
1 APR 0600	7	0.	.22	*	2 APR 1600	41	3827.	2802.66	*	4 APR 0200	75	637.	1879.43
1 APR 0700	8	0.	.44	*	2 APR 1700	42	3509.	2732.15	*	4 APR 0300	76	617.	1869.00
1 APR 0800	9	0.	.80	*	2 APR 1800	43	3223.	2668.67	*	4 APR 0400	77	599.	1859.84
1 APR 0900	10	0.	1.38	*	2 APR 1900	44	2967.	2611.84	*	4 APR 0500	78	584.	1851.85
1 APR 1000	11	1.	2.25	*	2 APR 2000	45	2739.	2561.34	*	4 APR 0600	79	571.	1844.84
1 APR 1100	12	1.	3.50	*	2 APR 2100	46	2537.	2516.54	*	4 APR 0700	80	559.	1838.66
1 APR 1200	13	1.	5.28	*	2 APR 2200	47	2361.	2477.49	*	4 APR 0800	81	549.	1833.18
1 APR 1300	14	2.	8.15	*	2 APR 2300	48	2210.	2443.92	*	4 APR 0900	82	540.	1828.29
1 APR 1400	15	4.	14.73	*	3 APR 0000	49	2076.	2414.25	*	4 APR 1000	83	531.	1823.88
1 APR 1500	16	9.	31.15	*	3 APR 0100	50	1967.	2386.64	*	4 APR 1100	84	524.	1819.89
1 APR 1600	17	22.	79.93	*	3 APR 0200	51	1883.	2359.11	*	4 APR 1200	85	517.	1816.24
1 APR 1700	18	102.	368.07	*	3 APR 0300	52	1796.	2330.86	*	4 APR 1300	86	510.	1812.87
1 APR 1800	19	307.	1109.98	*	3 APR 0400	53	1708.	2302.24	*	4 APR 1400	87	505.	1809.74
1 APR 1900	20	1621.	2273.85	*	3 APR 0500	54	1621.	2273.67	*	4 APR 1500	88	500.	1806.77
1 APR 2000	21	8412.	3595.49	*	3 APR 0600	55	1535.	2245.63	*	4 APR 1600	89	499.	1803.74
1 APR 2100	22	12945.	4763.71	*	3 APR 0700	56	1451.	2218.50	*	4 APR 1700	90	498.	1800.49
1 APR 2200	23	16394.	5559.16	*	3 APR 0800	57	1371.	2192.36	*	4 APR 1800	91	497.	1797.02
1 APR 2300	24	18262.	5904.86	*	3 APR 0900	58	1294.	2167.24	*	4 APR 1900	92	496.	1793.32
2 APR 0000	25	18600.	5967.28	*	3 APR 1000	59	1222.	2143.83	*	4 APR 2000	93	495.	1789.39
2 APR 0100	26	18232.	5899.19	*	3 APR 1100	60	1157.	2122.51	*	4 APR 2100	94	494.	1785.25
2 APR 0200	27	17403.	5745.88	*	3 APR 1200	61	1096.	2102.68	*	4 APR 2200	95	493.	1780.88
2 APR 0300	28	16370.	5554.69	*	3 APR 1300	62	1039.	2083.98	*	4 APR 2300	96	491.	1776.28
2 APR 0400	29	15285.	5354.14	*	3 APR 1400	63	990.	2065.98	*	5 APR 0000	97	490.	1771.47
2 APR 0500	30	14381.	5139.35	*	3 APR 1500	64	956.	2047.93	*	5 APR 0100	98	489.	1766.44
2 APR 0600	31	13472.	4901.44	*	3 APR 1600	65	921.	2029.60	*	5 APR 0200	99	487.	1761.18
2 APR 0700	32	12476.	4641.01	*	3 APR 1700	66	886.	2011.40	*	5 APR 0300	100	486.	1755.71
2 APR 0800	33	11426.	4366.18	*	3 APR 1800	67	853.	1993.62	*				
2 APR 0900	34	10296.	4070.57	*	3 APR 1900	68	820.	1976.47	*				

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	18600.	24.00	17451.	10615.	4264.	3149.
		(INCHES)	.460	1.120	1.350	1.371
		(AC-FT)	8653.	21055.	25374.	25764.

PEAK STORAGE	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(AC-FT)	(HR)				
	5967.	24.00	5755.	4233.	2776.	2191.

CUMULATIVE AREA = 352.48 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE E-F/E-F/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE E-F/E-F/FLOW/01APR1992/1HOUR//

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185 KK      10      SUBAREA 10
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JACK RABBIT

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189 IN      TIME DATA FOR INPUT TIME SERIES
              JXMIN      15      TIME INTERVAL IN MINUTES
              JXDATE      1APR92  STARTING DATE
              JXTIME      35      STARTING TIME
              UHG FROM MOUNTAIN S-GRAPH

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SUBBASIN RUNOFF DATA

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187 BA      SUBBASIN CHARACTERISTICS
              TAREA      17.90  SUBBASIN AREA

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PRECIPITATION DATA

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188 PB      STORM      .91  BASIN TOTAL PRECIPITATION

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190 PI      INCREMENTAL PRECIPITATION PATTERN
              .00      .00      .01      .01      .01      .01      .02      .02      .03
              .04      .04      .11      .26      .18      .17      .05      .01      .01      .00
              .00      .00      .00      .00      .00      .00

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200 LU      UNIFORM LOSS RATE
              STRTL      .00  INITIAL LOSS
              CNSTL      .00  UNIFORM LOSS RATE
              RTIMP      .00  PERCENT IMPERVIOUS AREA

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200 UI      INPUT UNITGRAPH, 16 ORDINATES, VOLUME = 1.00
              5106.0    2427.0    1164.0    741.0    490.0    371.0    315.0    253.0    196.0    148.0
              118.0     52.0     52.0     52.0     52.0     10.0

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HYDROGRAPH AT STATION 10

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	11.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	28.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	48.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	60.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	73.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	88.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	112.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	133.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	173.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	232.	*	3	APR	1200	61	.00	.00	.00	0.

SJR_20-yr.out

1 APR 1100	12	.04	.00	.04	300.	*	3 APR 1300	62	.00	.00	.00	0.
1 APR 1200	13	.04	.00	.04	343.	*	3 APR 1400	63	.00	.00	.00	0.
1 APR 1300	14	.10	.00	.10	682.	*	3 APR 1500	64	.00	.00	.00	0.
1 APR 1400	15	.23	.00	.23	1533.	*	3 APR 1600	65	.00	.00	.00	0.
1 APR 1500	16	.16	.00	.16	1566.	*	3 APR 1700	66	.00	.00	.00	0.
1 APR 1600	17	.16	.00	.16	1586.	*	3 APR 1800	67	.00	.00	.00	0.
1 APR 1700	18	.04	.00	.04	1047.	*	3 APR 1900	68	.00	.00	.00	0.
1 APR 1800	19	.01	.00	.01	618.	*	3 APR 2000	69	.00	.00	.00	0.
1 APR 1900	20	.01	.00	.01	437.	*	3 APR 2100	70	.00	.00	.00	0.
1 APR 2000	21	.00	.00	.00	332.	*	3 APR 2200	71	.00	.00	.00	0.
1 APR 2100	22	.00	.00	.00	263.	*	3 APR 2300	72	.00	.00	.00	0.
1 APR 2200	23	.00	.00	.00	216.	*	4 APR 0000	73	.00	.00	.00	0.
1 APR 2300	24	.00	.00	.00	178.	*	4 APR 0100	74	.00	.00	.00	0.
2 APR 0000	25	.00	.00	.00	144.	*	4 APR 0200	75	.00	.00	.00	0.
2 APR 0100	26	.00	.00	.00	102.	*	4 APR 0300	76	.00	.00	.00	0.
2 APR 0200	27	.00	.00	.00	71.	*	4 APR 0400	77	.00	.00	.00	0.
2 APR 0300	28	.00	.00	.00	51.	*	4 APR 0500	78	.00	.00	.00	0.
2 APR 0400	29	.00	.00	.00	41.	*	4 APR 0600	79	.00	.00	.00	0.
2 APR 0500	30	.00	.00	.00	28.	*	4 APR 0700	80	.00	.00	.00	0.
2 APR 0600	31	.00	.00	.00	17.	*	4 APR 0800	81	.00	.00	.00	0.
2 APR 0700	32	.00	.00	.00	8.	*	4 APR 0900	82	.00	.00	.00	0.
2 APR 0800	33	.00	.00	.00	4.	*	4 APR 1000	83	.00	.00	.00	0.
2 APR 0900	34	.00	.00	.00	2.	*	4 APR 1100	84	.00	.00	.00	0.
2 APR 1000	35	.00	.00	.00	2.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	1.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	1.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	0.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .91, TOTAL LOSS = .00, TOTAL EXCESS = .91

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	1586.	16.00	1152.	431.	146.	106.
		(INCHES)	.598	.895	.912	.912
		(AC-FT)	571.	854.	870.	870.

CUMULATIVE AREA = 17.90 SQ MI

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 * *
 204 KK 11 * SUBAREA 11
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BADLANDS

208 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 30 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

206 BA SUBBASIN CHARACTERISTICS
 TAREA 18.10 SUBBASIN AREA

PRECIPITATION DATA

207 PB STORM .79 BASIN TOTAL PRECIPITATION

209 PI INCREMENTAL PRECIPITATION PATTERN
 .00 .00 .01 .01 .01 .01 .02 .02 .03 .03
 .03 .04 .09 .27 .17 .18 .05 .01 .01 .00
 .00 .00 .00 .00 .00 .00

219 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

219 UI INPUT UNITGRAPH, 15 ORDINATES, VOLUME = 1.00
 5318.0 2417.0 1164.0 735.0 482.0 381.0 309.0 246.0 192.0 149.0
 85.6 54.3 54.3 54.3 34.1

HYDROGRAPH AT STATION 11

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	8.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	25.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	41.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	53.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	72.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	90.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	112.	*	3	APR	0900	58	.00	.00	.00	0.

SJR_20-yr.out

1	APR	0800	9	.02	.00	.02	141.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	181.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	230.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.03	.00	.03	259.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.03	.00	.03	284.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.07	.00	.07	523.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.21	.00	.21	1388.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.13	.00	.13	1360.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.14	.00	.14	1417.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.04	.00	.04	929.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.00	.00	.00	538.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	382.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	287.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	228.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	186.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	151.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	119.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	86.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	58.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	43.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	32.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	20.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	11.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	5.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	3.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	2.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	1.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	1.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	1.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	0.	*	4	APR	1500	88	.00	.00	.00	0.
2	APR	1400	39	.00	.00	.00	0.	*	4	APR	1600	89	.00	.00	.00	0.
2	APR	1500	40	.00	.00	.00	0.	*	4	APR	1700	90	.00	.00	.00	0.
2	APR	1600	41	.00	.00	.00	0.	*	4	APR	1800	91	.00	.00	.00	0.
2	APR	1700	42	.00	.00	.00	0.	*	4	APR	1900	92	.00	.00	.00	0.
2	APR	1800	43	.00	.00	.00	0.	*	4	APR	2000	93	.00	.00	.00	0.
2	APR	1900	44	.00	.00	.00	0.	*	4	APR	2100	94	.00	.00	.00	0.
2	APR	2000	45	.00	.00	.00	0.	*	4	APR	2200	95	.00	.00	.00	0.
2	APR	2100	46	.00	.00	.00	0.	*	4	APR	2300	96	.00	.00	.00	0.
2	APR	2200	47	.00	.00	.00	0.	*	5	APR	0000	97	.00	.00	.00	0.
2	APR	2300	48	.00	.00	.00	0.	*	5	APR	0100	98	.00	.00	.00	0.
3	APR	0000	49	.00	.00	.00	0.	*	5	APR	0200	99	.00	.00	.00	0.
3	APR	0100	50	.00	.00	.00	0.	*	5	APR	0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .79, TOTAL LOSS = .00, TOTAL EXCESS = .79

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)					
		(CFS)					
+	1417.	16.00	1014.	380.	129.	94.	
		(INCHES)	.521	.781	.794	.794	
		(AC-FT)	503.	754.	766.	766.	

CUMULATIVE AREA = 18.10 SQ MI

SJR_20-yr.out

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223 KK *****
 * *
 * F *
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SPLIT

225 HC HYDROGRAPH COMBINATION
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION F
 SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	18420.	*	3	APR	0200	51	1883.	*	4	APR	0300	76	617.	*
1	APR	0100	2	19.	*	2	APR	0200	27	17532.	*	3	APR	0300	52	1796.	*	4	APR	0400	77	599.	*
1	APR	0200	3	53.	*	2	APR	0300	28	16464.	*	3	APR	0400	53	1708.	*	4	APR	0500	78	584.	*
1	APR	0300	4	89.	*	2	APR	0400	29	15358.	*	3	APR	0500	54	1621.	*	4	APR	0600	79	571.	*
1	APR	0400	5	113.	*	2	APR	0500	30	14429.	*	3	APR	0600	55	1535.	*	4	APR	0700	80	559.	*
1	APR	0500	6	145.	*	2	APR	0600	31	13500.	*	3	APR	0700	56	1451.	*	4	APR	0800	81	549.	*
1	APR	0600	7	178.	*	2	APR	0700	32	12489.	*	3	APR	0800	57	1371.	*	4	APR	0900	82	540.	*
1	APR	0700	8	224.	*	2	APR	0800	33	11432.	*	3	APR	0900	58	1294.	*	4	APR	1000	83	531.	*
1	APR	0800	9	274.	*	2	APR	0900	34	10301.	*	3	APR	1000	59	1222.	*	4	APR	1100	84	524.	*
1	APR	0900	10	354.	*	2	APR	1000	35	9095.	*	3	APR	1100	60	1157.	*	4	APR	1200	85	517.	*
1	APR	1000	11	463.	*	2	APR	1100	36	7957.	*	3	APR	1200	61	1096.	*	4	APR	1300	86	510.	*
1	APR	1100	12	561.	*	2	APR	1200	37	6440.	*	3	APR	1300	62	1039.	*	4	APR	1400	87	505.	*
1	APR	1200	13	628.	*	2	APR	1300	38	5464.	*	3	APR	1400	63	990.	*	4	APR	1500	88	500.	*
1	APR	1300	14	1207.	*	2	APR	1400	39	4779.	*	3	APR	1500	64	956.	*	4	APR	1600	89	499.	*
1	APR	1400	15	2926.	*	2	APR	1500	40	4235.	*	3	APR	1600	65	921.	*	4	APR	1700	90	498.	*
1	APR	1500	16	2934.	*	2	APR	1600	41	3827.	*	3	APR	1700	66	886.	*	4	APR	1800	91	497.	*
1	APR	1600	17	3025.	*	2	APR	1700	42	3509.	*	3	APR	1800	67	853.	*	4	APR	1900	92	496.	*
1	APR	1700	18	2078.	*	2	APR	1800	43	3223.	*	3	APR	1900	68	820.	*	4	APR	2000	93	495.	*
1	APR	1800	19	1463.	*	2	APR	1900	44	2967.	*	3	APR	2000	69	789.	*	4	APR	2100	94	494.	*
1	APR	1900	20	2440.	*	2	APR	2000	45	2739.	*	3	APR	2100	70	760.	*	4	APR	2200	95	493.	*
1	APR	2000	21	9031.	*	2	APR	2100	46	2537.	*	3	APR	2200	71	732.	*	4	APR	2300	96	491.	*
1	APR	2100	22	13436.	*	2	APR	2200	47	2361.	*	3	APR	2300	72	706.	*	5	APR	0000	97	490.	*
1	APR	2200	23	16796.	*	2	APR	2300	48	2210.	*	4	APR	0000	73	681.	*	5	APR	0100	98	489.	*
1	APR	2300	24	18591.	*	3	APR	0000	49	2076.	*	4	APR	0100	74	658.	*	5	APR	0200	99	487.	*
2	APR	0000	25	18863.	*	3	APR	0100	50	1967.	*	4	APR	0200	75	637.	*	5	APR	0300	100	486.	*

PEAK FLOW TIME
 6-HR 24-HR 72-HR 99.00-HR
 Page 48

SJR_20-yr.out

+	(CFS)	(HR)		(CFS)				
+	18863.	24.00		17658.	10745.	4464.	3349.	
			(INCHES)	.423	1.029	1.282	1.323	
			(AC-FT)	8756.	21312.	26561.	27401.	

CUMULATIVE AREA = 388.48 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-F/F/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-F/F/FLOW/01APR1992/1HOUR//

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 * *
 227 KK * F-F1 * ROUTE
 * *

ROUTE FROM SPLIT TO DAVIST ST(flows confluence)
 BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010- MLA
 MYSTIC LAKE FULL CONDITIONS - I.E. 1424 WSE
 Time Step (Ave Travel Time = 1.21 Hours - Divide by 1.5 Vw=0.85hr)
 Because of this use NSTPS = 1 jcc 9 Feb 2010

HYDROGRAPH ROUTING DATA

233 RS	STORAGE ROUTING										
	NSTPS	1	NUMBER OF SUBREACHES								
	ITYP	STOR	TYPE OF INITIAL CONDITION								
	RSVRIC	-1.00	INITIAL CONDITION								
	X	.00	WORKING R AND D COEFFICIENT								
234 SV	STORAGE	.0	323.0	477.0	756.0	1089.0	1399.0	1769.0	2396.0	3861.0	4797.0
		5197.0	5620.0	5974.0	6312.0	7535.0	8774.0				
236 SQ	DISCHARGE	0.	500.	1000.	2000.	4000.	6000.	8000.	10000.	15000.	20000.
		25000.	30000.	35000.	40000.	60000.	80000.				

HYDROGRAPH AT STATION F-F1

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
						*							*						
1	APR	0000	1	0.	.00	*	2	APR	1000	35	12281.	3064.41	*	3	APR	2000	69	923.	453.21
1	APR	0100	2	1.	.75	*	2	APR	1100	36	11353.	2792.40	*	3	APR	2100	70	888.	442.41
1	APR	0200	3	5.	3.48	*	2	APR	1200	37	10326.	2491.50	*	3	APR	2200	71	854.	432.08
1	APR	0300	4	13.	8.58	*	2	APR	1300	38	9288.	2172.91	*	3	APR	2300	72	822.	422.22
1	APR	0400	5	24.	15.40	*	2	APR	1400	39	8318.	1868.67	*	4	APR	0000	73	792.	412.85
1	APR	0500	6	37.	23.59	*	2	APR	1500	40	7107.	1603.78	*	4	APR	0100	74	763.	403.97

SJR_20-yr.out

1 APR 0600	7	52.	33.33	*	2 APR 1600	41	5981.	1396.11	*	4 APR 0200	75	736.	395.55
1 APR 0700	8	70.	44.96	*	2 APR 1700	42	5008.	1245.18	*	4 APR 0300	76	710.	387.62
1 APR 0800	9	91.	58.92	*	2 APR 1800	43	4317.	1138.08	*	4 APR 0400	77	686.	380.21
1 APR 0900	10	118.	76.24	*	2 APR 1900	44	3813.	1057.92	*	4 APR 0500	78	664.	373.37
1 APR 1000	11	153.	98.79	*	2 APR 2000	45	3432.	994.35	*	4 APR 0600	79	643.	367.11
1 APR 1100	12	196.	126.67	*	2 APR 2100	46	3116.	941.83	*	4 APR 0700	80	625.	361.43
1 APR 1200	13	244.	157.62	*	2 APR 2200	47	2851.	897.68	*	4 APR 0800	81	608.	356.28
1 APR 1300	14	325.	209.97	*	2 APR 2300	48	2626.	860.25	*	4 APR 0900	82	593.	351.64
1 APR 1400	15	568.	343.86	*	3 APR 0000	49	2434.	828.27	*	4 APR 1000	83	579.	347.45
1 APR 1500	16	1138.	515.52	*	3 APR 0100	50	2270.	800.97	*	4 APR 1100	84	567.	343.67
1 APR 1600	17	1613.	648.10	*	3 APR 0200	51	2133.	778.12	*	4 APR 1200	85	556.	340.26
1 APR 1700	18	1855.	715.66	*	3 APR 0300	52	2016.	758.69	*	4 APR 1300	86	546.	337.17
1 APR 1800	19	1834.	709.57	*	3 APR 0400	53	1942.	739.92	*	4 APR 1400	87	537.	334.37
1 APR 1900	20	1864.	718.07	*	3 APR 0500	54	1871.	719.92	*	4 APR 1500	88	529.	331.84
1 APR 2000	21	3330.	977.46	*	3 APR 0600	55	1795.	698.83	*	4 APR 1600	89	522.	329.71
1 APR 2100	22	6536.	1498.18	*	3 APR 0700	56	1717.	677.09	*	4 APR 1700	90	516.	328.01
1 APR 2200	23	9065.	2102.78	*	3 APR 0800	57	1638.	655.07	*	4 APR 1800	91	512.	326.66
1 APR 2300	24	11140.	2730.13	*	3 APR 0900	58	1559.	633.08	*	4 APR 1900	92	508.	325.55
2 APR 0000	25	13016.	3279.63	*	3 APR 1000	59	1482.	611.40	*	4 APR 2000	93	505.	324.62
2 APR 0100	26	14407.	3687.11	*	3 APR 1100	60	1406.	590.38	*	4 APR 2100	94	503.	323.83
2 APR 0200	27	15423.	3940.11	*	3 APR 1200	61	1334.	570.24	*	4 APR 2200	95	500.	323.15
2 APR 0300	28	15992.	4046.74	*	3 APR 1300	62	1265.	551.04	*	4 APR 2300	96	499.	322.50
2 APR 0400	29	15963.	4041.24	*	3 APR 1400	63	1201.	532.97	*	5 APR 0000	97	498.	321.84
2 APR 0500	30	15576.	3968.85	*	3 APR 1500	64	1142.	516.57	*	5 APR 0100	98	497.	321.16
2 APR 0600	31	14995.	3859.65	*	3 APR 1600	65	1089.	501.92	*	5 APR 0200	99	496.	320.44
2 APR 0700	32	14501.	3714.73	*	3 APR 1700	66	1041.	488.56	*	5 APR 0300	100	495.	319.70
2 APR 0800	33	13873.	3530.75	*	3 APR 1800	67	997.	476.18	*				
2 APR 0900	34	13130.	3313.00	*	3 APR 1900	68	959.	464.47	*				

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	15992.	27.00	15400.	10616.	4437.	3310.
		(INCHES)	.369	1.016	1.274	1.307
		(AC-FT)	7637.	21057.	26402.	27081.

PEAK STORAGE	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(AC-FT)	(HR)				
	4047.	27.00	3926.	2647.	1255.	966.

CUMULATIVE AREA = 388.48 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE F-F1/F-F1/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE F-F1/F-F1/FLOW/01APR1992/1HOUR//

*** **

 * *
 239 KK * F1-G * ROUTE

SJR_20-yr.out

*

ROUTE DAVIS ST TO RAMONA EXPRESSWAY
 BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010- MLA
 Time Step (Ave Travel Time = 1.93 Hours - Divide by 1.5 Vw=1.29hr)
 Because of this use NSTPS = 1 jcc 9 Feb 2010

HYDROGRAPH ROUTING DATA

244 RS	STORAGE ROUTING										
	NSTPS	1	NUMBER OF SUBREACHES								
	ITYP	STOR	TYPE OF INITIAL CONDITION								
	RSVRIC	-1.00	INITIAL CONDITION								
	X	.00	WORKING R AND D COEFFICIENT								
245 SV	STORAGE	.0	264.0	420.0	750.0	1477.0	2316.0	3171.0	4009.0	5337.0	6072.0
		6339.0	6631.0	6869.0	7092.0	7863.0	8661.0				
247 SQ	DISCHARGE	0.	500.	1000.	2000.	4000.	6000.	8000.	10000.	15000.	20000.
		25000.	30000.	35000.	40000.	60000.	80000.				

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 40000. TO 80000.
 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 F1-G

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1	APR	0000	1	0.	.00	*	2	APR	1000	35	13484.	4934.29	*	3	APR	2000	69	1141.	466.60
1	APR	0100	2	0.	.04	*	2	APR	1100	36	13035.	4815.09	*	3	APR	2100	70	1089.	449.27
1	APR	0200	3	1.	.29	*	2	APR	1200	37	12444.	4658.07	*	3	APR	2200	71	1040.	433.27
1	APR	0300	4	2.	.96	*	2	APR	1300	38	11734.	4469.50	*	3	APR	2300	72	995.	418.44
1	APR	0400	5	4.	2.25	*	2	APR	1400	39	10945.	4259.91	*	4	APR	0000	73	951.	404.72
1	APR	0500	6	8.	4.23	*	2	APR	1500	40	10074.	4028.74	*	4	APR	0100	74	910.	392.04
1	APR	0600	7	13.	7.00	*	2	APR	1600	41	9416.	3764.20	*	4	APR	0200	75	873.	380.28
1	APR	0700	8	20.	10.62	*	2	APR	1700	42	8712.	3469.22	*	4	APR	0300	76	838.	369.33
1	APR	0800	9	29.	15.24	*	2	APR	1800	43	7985.	3164.58	*	4	APR	0400	77	805.	359.13
1	APR	0900	10	40.	21.05	*	2	APR	1900	44	7294.	2869.17	*	4	APR	0500	78	774.	349.62
1	APR	1000	11	54.	28.38	*	2	APR	2000	45	6647.	2592.48	*	4	APR	0600	79	746.	340.79
1	APR	1100	12	71.	37.63	*	2	APR	2100	46	6052.	2338.29	*	4	APR	0700	80	720.	332.60
1	APR	1200	13	93.	49.04	*	2	APR	2200	47	5503.	2107.39	*	4	APR	0800	81	696.	325.05
1	APR	1300	14	121.	63.72	*	2	APR	2300	48	5007.	1899.43	*	4	APR	0900	82	673.	318.11
1	APR	1400	15	168.	88.69	*	3	APR	0000	49	4563.	1713.09	*	4	APR	1000	83	653.	311.74
1	APR	1500	16	267.	141.18	*	3	APR	0100	50	4166.	1546.77	*	4	APR	1100	84	634.	305.92
1	APR	1600	17	428.	226.13	*	3	APR	0200	51	3788.	1400.01	*	4	APR	1200	85	617.	300.61
1	APR	1700	18	690.	323.26	*	3	APR	0300	52	3438.	1272.84	*	4	APR	1300	86	602.	295.77
1	APR	1800	19	960.	407.52	*	3	APR	0400	53	3140.	1164.56	*	4	APR	1400	87	588.	291.36
1	APR	1900	20	1160.	472.72	*	3	APR	0500	54	2889.	1072.99	*	4	APR	1500	88	575.	287.36
1	APR	2000	21	1480.	578.28	*	3	APR	0600	55	2673.	994.65	*	4	APR	1600	89	563.	283.74
1	APR	2100	22	2228.	832.78	*	3	APR	0700	56	2486.	926.61	*	4	APR	1700	90	553.	280.51

SJ20-yr.out

1 APR 2200	23	3365.	1246.32	*	3 APR 0800	57	2321.	866.64	*	4 APR 1800	91	544.	277.67
1 APR 2300	24	4651.	1750.00	*	3 APR 0900	58	2173.	813.06	*	4 APR 1900	92	536.	275.21
2 APR 0000	25	5983.	2308.78	*	3 APR 1000	59	2040.	764.61	*	4 APR 2000	93	529.	273.08
2 APR 0100	26	7345.	2891.18	*	3 APR 1100	60	1911.	720.67	*	4 APR 2100	94	523.	271.25
2 APR 0200	27	8692.	3461.07	*	3 APR 1200	61	1791.	680.95	*	4 APR 2200	95	518.	269.67
2 APR 0300	28	9952.	3988.79	*	3 APR 1300	62	1681.	644.89	*	4 APR 2300	96	514.	268.33
2 APR 0400	29	11550.	4420.73	*	3 APR 1400	63	1582.	611.95	*	5 APR 0000	97	510.	267.23
2 APR 0500	30	12686.	4722.49	*	3 APR 1500	64	1490.	581.80	*	5 APR 0100	98	507.	266.30
2 APR 0600	31	13386.	4908.39	*	3 APR 1600	65	1407.	554.28	*	5 APR 0200	99	505.	265.51
2 APR 0700	32	13753.	5005.79	*	3 APR 1700	66	1331.	529.19	*	5 APR 0300	100	503.	264.83
2 APR 0800	33	13870.	5036.82	*	3 APR 1800	67	1262.	506.31	*				
2 APR 0900	34	13771.	5010.46	*	3 APR 1900	68	1199.	485.51	*				

PEAK FLOW	TIME		MAXIMUM	AVERAGE FLOW		
			6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
+	13870.	32.00				
		(CFS)	13521.	9964.	4411.	3278.
		(INCHES)	.324	.954	1.267	1.294
		(AC-FT)	6704.	19764.	26248.	26816.

PEAK STORAGE	TIME		MAXIMUM	AVERAGE STORAGE		
			6-HR	24-HR	72-HR	99.00-HR
+	(AC-FT)	(HR)				
+	5037.	32.00	4944.	3794.	1694.	1268.

CUMULATIVE AREA = 388.48 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE F-G/F-G/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE F-G/F-G/FLOW/01APR1992/1HOUR//

*** **

 * *
 250 KK * 12A * LAKEVIEW SUB-AREA (30% FOOTHILL)
 * *

COMBINE LAKEVIEW SUB-AREA AT THE U/S OF RAMONA EXPWY PER CDJ.

254 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 30 STARTING TIME
 UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

252 BA SUBBASIN CHARACTERISTICS
 TAREA 12.26 SUBBASIN AREA
 SNAP .00 NORMAL ANNUAL PRECIPITATION
 RATIO .30 RATIO OF HYDROGRAPH

PRECIPITATION DATA

253 PB STORM .76 BASIN TOTAL PRECIPITATION

255 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.01	.01	.01	.01	.02	.02	.03	.03
.03	.04	.09	.27	.16	.18	.05	.01	.01	.00
.00	.00	.00	.00	.00	.00				

265 LU UNIFORM LOSS RATE

STRTL	.00	INITIAL LOSS
CNSTL	.00	UNIFORM LOSS RATE
RTIMP	.00	PERCENT IMPERVIOUS AREA

265 UI INPUT UNITGRAPH, 6 ORDINATES, VOLUME = 1.00

5203.0	1918.0	587.0	104.0	72.0	24.0
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HYDROGRAPH AT STATION 12A

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
								*								
								*								
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	8.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	23.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	36.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	44.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	59.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	72.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	89.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.02	.00	.02	110.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	142.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	184.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.03	.00	.03	199.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.03	.00	.03	212.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.07	.00	.07	426.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.20	.00	.20	1209.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.12	.00	.12	1083.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.14	.00	.14	1071.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.04	.00	.04	546.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.00	.00	.00	201.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	90.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	51.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	33.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	26.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	24.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	24.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	16.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	5.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	2.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	0.	*	4	APR	0600	79	.00	.00	.00	0.

2	APR	0500	30	.00	.00	.00	0.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	0.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	0.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	0.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	0.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	0.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	0.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	0.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	0.	*	4	APR	1500	88	.00	.00	.00	0.
2	APR	1400	39	.00	.00	.00	0.	*	4	APR	1600	89	.00	.00	.00	0.
2	APR	1500	40	.00	.00	.00	0.	*	4	APR	1700	90	.00	.00	.00	0.
2	APR	1600	41	.00	.00	.00	0.	*	4	APR	1800	91	.00	.00	.00	0.
2	APR	1700	42	.00	.00	.00	0.	*	4	APR	1900	92	.00	.00	.00	0.
2	APR	1800	43	.00	.00	.00	0.	*	4	APR	2000	93	.00	.00	.00	0.
2	APR	1900	44	.00	.00	.00	0.	*	4	APR	2100	94	.00	.00	.00	0.
2	APR	2000	45	.00	.00	.00	0.	*	4	APR	2200	95	.00	.00	.00	0.
2	APR	2100	46	.00	.00	.00	0.	*	4	APR	2300	96	.00	.00	.00	0.
2	APR	2200	47	.00	.00	.00	0.	*	5	APR	0000	97	.00	.00	.00	0.
2	APR	2300	48	.00	.00	.00	0.	*	5	APR	0100	98	.00	.00	.00	0.
3	APR	0000	49	.00	.00	.00	0.	*	5	APR	0200	99	.00	.00	.00	0.
3	APR	0100	50	.00	.00	.00	0.	*	5	APR	0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .76, TOTAL LOSS = .00, TOTAL EXCESS = .76

CUMULATIVE AREA = 12.26 SQ MI

Page 54

SJRW20-yr.out

1 APR 1000	11	55.	*	2 APR 1100	36	0.	*	3 APR 1200	61	0.	*	4 APR 1300	86	0.
1 APR 1100	12	60.	*	2 APR 1200	37	0.	*	3 APR 1300	62	0.	*	4 APR 1400	87	0.
1 APR 1200	13	63.	*	2 APR 1300	38	0.	*	3 APR 1400	63	0.	*	4 APR 1500	88	0.
1 APR 1300	14	128.	*	2 APR 1400	39	0.	*	3 APR 1500	64	0.	*	4 APR 1600	89	0.
1 APR 1400	15	363.	*	2 APR 1500	40	0.	*	3 APR 1600	65	0.	*	4 APR 1700	90	0.
1 APR 1500	16	325.	*	2 APR 1600	41	0.	*	3 APR 1700	66	0.	*	4 APR 1800	91	0.
1 APR 1600	17	321.	*	2 APR 1700	42	0.	*	3 APR 1800	67	0.	*	4 APR 1900	92	0.
1 APR 1700	18	164.	*	2 APR 1800	43	0.	*	3 APR 1900	68	0.	*	4 APR 2000	93	0.
1 APR 1800	19	60.	*	2 APR 1900	44	0.	*	3 APR 2000	69	0.	*	4 APR 2100	94	0.
1 APR 1900	20	27.	*	2 APR 2000	45	0.	*	3 APR 2100	70	0.	*	4 APR 2200	95	0.
1 APR 2000	21	15.	*	2 APR 2100	46	0.	*	3 APR 2200	71	0.	*	4 APR 2300	96	0.
1 APR 2100	22	10.	*	2 APR 2200	47	0.	*	3 APR 2300	72	0.	*	5 APR 0000	97	0.
1 APR 2200	23	8.	*	2 APR 2300	48	0.	*	4 APR 0000	73	0.	*	5 APR 0100	98	0.
1 APR 2300	24	7.	*	3 APR 0000	49	0.	*	4 APR 0100	74	0.	*	5 APR 0200	99	0.
2 APR 0000	25	7.	*	3 APR 0100	50	0.	*	4 APR 0200	75	0.	*	5 APR 0300	100	0.

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	
+	(CFS)	(HR)		24-HR	72-HR
					99.00-HR
+	363.	14.00		75.	25.
			(CFS)	.226	.227
			(INCHES)	.172	.227
			(AC-FT)	113.	148.

CUMULATIVE AREA = 12.26 SQ MI

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*
268 KK      12A1  *  LAKEVIEW SUB-AREA  (70% VALLEY)
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COMBINE LAKEVIEW SUB-AREA AT THE U/S OF RAMONA EXPWY PER CDJ.

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272 IN      TIME DATA FOR INPUT TIME SERIES
              JXMIN      15  TIME INTERVAL IN MINUTES
              JXDATE     1APR92  STARTING DATE
              JXTIME      30  STARTING TIME
              UHG FROM VALLEY S-GRAPH

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SUBBASIN RUNOFF DATA

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270 BA      SUBBASIN CHARACTERISTICS
              TAREA      12.26  SUBBASIN AREA
              SNAP        .00  NORMAL ANNUAL PRECIPITATION
              RATIO       .70  RATIO OF HYDROGRAPH

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PRECIPITATION DATA

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271 PB      STORM      .76  BASIN TOTAL PRECIPITATION

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SJR_20-yr.out

273 PI INCREMENTAL PRECIPITATION PATTERN
 .00 .00 .01 .01 .01 .01 .02 .02 .03 .03
 .03 .04 .09 .27 .16 .18 .05 .01 .01 .00
 .00 .00 .00 .00 .00 .00

283 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

283 UI INPUT UNITGRAPH, 7 ORDINATES, VOLUME = 1.00
 5042.0 1654.0 601.0 320.0 166.0 99.0 24.0

HYDROGRAPH AT STATION 12A1

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	8.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	22.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	34.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	42.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	57.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	70.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	86.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.02	.00	.02	108.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	138.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	180.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.03	.00	.03	194.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.03	.00	.03	208.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.07	.00	.07	417.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.20	.00	.20	1168.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.12	.00	.12	1021.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.14	.00	.14	1039.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.04	.00	.04	559.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.00	.00	.00	245.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	146.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	83.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	49.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	32.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	26.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	25.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	17.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	6.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	3.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	1.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	1.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	0.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	0.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	0.	*	4	APR	1000	83	.00	.00	.00	0.

SJR_20-yr.out

2 APR 0900	34	.00	.00	.00	0.	*	4 APR 1100	84	.00	.00	.00	0.
2 APR 1000	35	.00	.00	.00	0.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	0.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	0.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	0.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.
						*						

TOTAL RAINFALL = .76, TOTAL LOSS = .00, TOTAL EXCESS = .76

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	
+	(CFS)	(HR)		24-HR	72-HR
					99.00-HR
+	1168.	14.00	(CFS)		
			739.	248.	83.
			.560	.753	.756
		(INCHES)			
		(AC-FT)	366.	493.	495.

CUMULATIVE AREA = 12.26 SQ MI

HYDROGRAPH MULTIPLIED BY .70

HYDROGRAPH AT STATION 12A1

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	12.	*	3	APR	0200	51	0.	*
1	APR	0100	2	5.	*	2	APR	0200	27	4.	*	3	APR	0300	52	0.	*
1	APR	0200	3	15.	*	2	APR	0300	28	2.	*	3	APR	0400	53	0.	*
1	APR	0300	4	24.	*	2	APR	0400	29	1.	*	3	APR	0500	54	0.	*
1	APR	0400	5	30.	*	2	APR	0500	30	0.	*	3	APR	0600	55	0.	*
1	APR	0500	6	40.	*	2	APR	0600	31	0.	*	3	APR	0700	56	0.	*
1	APR	0600	7	49.	*	2	APR	0700	32	0.	*	3	APR	0800	57	0.	*
1	APR	0700	8	60.	*	2	APR	0800	33	0.	*	3	APR	0900	58	0.	*
1	APR	0800	9	75.	*	2	APR	0900	34	0.	*	3	APR	1000	59	0.	*
1	APR	0900	10	97.	*	2	APR	1000	35	0.	*	3	APR	1100	60	0.	*
1	APR	1000	11	126.	*	2	APR	1100	36	0.	*	3	APR	1200	61	0.	*
1	APR	1100	12	136.	*	2	APR	1200	37	0.	*	3	APR	1300	62	0.	*
1	APR	1200	13	145.	*	2	APR	1300	38	0.	*	3	APR	1400	63	0.	*
1	APR	1300	14	292.	*	2	APR	1400	39	0.	*	3	APR	1500	64	0.	*

1	APR	1400	15	818.	*	2	APR	1500	40	0.	*	3	APR	1600	65	0.	*	4	APR	1700	90	0.
1	APR	1500	16	715.	*	2	APR	1600	41	0.	*	3	APR	1700	66	0.	*	4	APR	1800	91	0.
1	APR	1600	17	727.	*	2	APR	1700	42	0.	*	3	APR	1800	67	0.	*	4	APR	1900	92	0.
1	APR	1700	18	391.	*	2	APR	1800	43	0.	*	3	APR	1900	68	0.	*	4	APR	2000	93	0.
1	APR	1800	19	171.	*	2	APR	1900	44	0.	*	3	APR	2000	69	0.	*	4	APR	2100	94	0.
1	APR	1900	20	102.	*	2	APR	2000	45	0.	*	3	APR	2100	70	0.	*	4	APR	2200	95	0.
1	APR	2000	21	58.	*	2	APR	2100	46	0.	*	3	APR	2200	71	0.	*	4	APR	2300	96	0.
1	APR	2100	22	34.	*	2	APR	2200	47	0.	*	3	APR	2300	72	0.	*	5	APR	0000	97	0.
1	APR	2200	23	23.	*	2	APR	2300	48	0.	*	4	APR	0000	73	0.	*	5	APR	0100	98	0.
1	APR	2300	24	18.	*	3	APR	0000	49	0.	*	4	APR	0100	74	0.	*	5	APR	0200	99	0.
2	APR	0000	25	17.	*	3	APR	0100	50	0.	*	4	APR	0200	75	0.	*	5	APR	0300	100	0.
					*						*						*					

CUMULATIVE AREA = 12.26 SQ MI

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                * * * * *
            *
286 KK      *      G      *
            *      *
                * * * * *

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288 HC          HYDROGRAPH COMBINATION
                   ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

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Page 58

SJR_20-yr.out

1 APR 0600	7	84.	*	2 APR 0700	32	13753.	*	3 APR 0800	57	2321.	*	4 APR 0900	82	673.
1 APR 0700	8	107.	*	2 APR 0800	33	13870.	*	3 APR 0900	58	2173.	*	4 APR 1000	83	653.
1 APR 0800	9	137.	*	2 APR 0900	34	13771.	*	3 APR 1000	59	2040.	*	4 APR 1100	84	634.
1 APR 0900	10	179.	*	2 APR 1000	35	13484.	*	3 APR 1100	60	1911.	*	4 APR 1200	85	617.
1 APR 1000	11	235.	*	2 APR 1100	36	13035.	*	3 APR 1200	61	1791.	*	4 APR 1300	86	602.
1 APR 1100	12	267.	*	2 APR 1200	37	12444.	*	3 APR 1300	62	1681.	*	4 APR 1400	87	588.
1 APR 1200	13	302.	*	2 APR 1300	38	11734.	*	3 APR 1400	63	1582.	*	4 APR 1500	88	575.
1 APR 1300	14	541.	*	2 APR 1400	39	10945.	*	3 APR 1500	64	1490.	*	4 APR 1600	89	563.
1 APR 1400	15	1348.	*	2 APR 1500	40	10074.	*	3 APR 1600	65	1407.	*	4 APR 1700	90	553.
1 APR 1500	16	1307.	*	2 APR 1600	41	9416.	*	3 APR 1700	66	1331.	*	4 APR 1800	91	544.
1 APR 1600	17	1477.	*	2 APR 1700	42	8712.	*	3 APR 1800	67	1262.	*	4 APR 1900	92	536.
1 APR 1700	18	1245.	*	2 APR 1800	43	7985.	*	3 APR 1900	68	1199.	*	4 APR 2000	93	529.
1 APR 1800	19	1192.	*	2 APR 1900	44	7294.	*	3 APR 2000	69	1141.	*	4 APR 2100	94	523.
1 APR 1900	20	1289.	*	2 APR 2000	45	6647.	*	3 APR 2100	70	1089.	*	4 APR 2200	95	518.
1 APR 2000	21	1553.	*	2 APR 2100	46	6052.	*	3 APR 2200	71	1040.	*	4 APR 2300	96	514.
1 APR 2100	22	2272.	*	2 APR 2200	47	5503.	*	3 APR 2300	72	995.	*	5 APR 0000	97	510.
1 APR 2200	23	3396.	*	2 APR 2300	48	5007.	*	4 APR 0000	73	951.	*	5 APR 0100	98	507.
1 APR 2300	24	4676.	*	3 APR 0000	49	4563.	*	4 APR 0100	74	910.	*	5 APR 0200	99	505.
2 APR 0000	25	6007.	*	3 APR 0100	50	4166.	*	4 APR 0200	75	873.	*	5 APR 0300	100	503.

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
+	13870.	32.00	13521.	9967.	4461.	3338.
		(INCHES)	.304	.898	1.205	1.240
		(AC-FT)	6704.	19769.	26544.	27311.

CUMULATIVE AREA = 413.00 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-G/G/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-G/G/FLOW/01APR1992/1HOUR//

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 * *
 290 KK * G-H * ROUTE
 * *

ROUTE SAN JACINTO RIVER FROM RAMONA EXPRESSWAY TO I-215
 BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010 - MLA
 Time Step (Ave Travel Time = 4.78 Hours - Divide by 1.5 Vw=3.19 hr)
 Because of this use NSTPS = 3 jcc 9 Feb 2010)

HYDROGRAPH ROUTING DATA

295 RS	STORAGE ROUTING	
	NSTPS	3 NUMBER OF SUBREACHES
	ITYP	STOR TYPE OF INITIAL CONDITION
	RSVRIC	-1.00 INITIAL CONDITION
	X	.00 WORKING R AND D COEFFICIENT

SJR_20-yr.out

296 SV	STORAGE	.0	804.0	1484.0	2507.0	6171.0	8267.0	10090.0	10684.0	12155.0	14679.0
		17916.0	21184.0	24492.0	27854.0	40596.0	52905.0				
298 SQ	DISCHARGE	0.	500.	1000.	2000.	4000.	6000.	8000.	10000.	15000.	20000.
		25000.	30000.	35000.	40000.	60000.	80000.				

HYDROGRAPH AT STATION G-H

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1	APR	0000	1	0.	.00	*	2	APR	1000	35	4509.	2234.72	*	3	APR	2000	69	3638.	1836.11
1	APR	0100	2	0.	.00	*	2	APR	1100	36	6155.	2802.73	*	3	APR	2100	70	3528.	1768.96
1	APR	0200	3	0.	.01	*	2	APR	1200	37	7765.	3291.96	*	3	APR	2200	71	3415.	1699.74
1	APR	0300	4	0.	.06	*	2	APR	1300	38	10468.	3607.19	*	3	APR	2300	72	3299.	1628.71
1	APR	0400	5	0.	.16	*	2	APR	1400	39	11752.	3733.18	*	4	APR	0000	73	3180.	1556.32
1	APR	0500	6	1.	.36	*	2	APR	1500	40	11972.	3754.73	*	4	APR	0100	74	3060.	1483.05
1	APR	0600	7	1.	.71	*	2	APR	1600	41	11678.	3725.93	*	4	APR	0200	75	2940.	1409.43
1	APR	0700	8	2.	1.24	*	2	APR	1700	42	11139.	3673.03	*	4	APR	0300	76	2816.	1334.12
1	APR	0800	9	4.	2.01	*	2	APR	1800	43	10494.	3609.81	*	4	APR	0400	77	2687.	1255.26
1	APR	0900	10	6.	3.07	*	2	APR	1900	44	9811.	3542.64	*	4	APR	0500	78	2554.	1173.79
1	APR	1000	11	8.	4.51	*	2	APR	2000	45	9146.	3476.81	*	4	APR	0600	79	2420.	1091.92
1	APR	1100	12	12.	6.41	*	2	APR	2100	46	8574.	3420.11	*	4	APR	0700	80	2288.	1011.33
1	APR	1200	13	17.	8.87	*	2	APR	2200	47	8166.	3379.74	*	4	APR	0800	81	2160.	933.22
1	APR	1300	14	22.	12.00	*	2	APR	2300	48	7950.	3348.27	*	4	APR	0900	82	2037.	858.35
1	APR	1400	15	30.	16.16	*	3	APR	0000	49	7824.	3309.78	*	4	APR	1000	83	1865.	789.53
1	APR	1500	16	41.	22.12	*	3	APR	0100	50	7656.	3258.92	*	4	APR	1100	84	1689.	729.71
1	APR	1600	17	57.	30.82	*	3	APR	0200	51	7452.	3196.75	*	4	APR	1200	85	1540.	678.87
1	APR	1700	18	80.	42.92	*	3	APR	0300	52	7215.	3124.92	*	4	APR	1300	86	1414.	635.89
1	APR	1800	19	109.	58.63	*	3	APR	0400	53	6953.	3045.33	*	4	APR	1400	87	1307.	599.48
1	APR	1900	20	145.	77.70	*	3	APR	0500	54	6676.	2960.98	*	4	APR	1500	88	1216.	568.38
1	APR	2000	21	186.	99.73	*	3	APR	0600	55	6390.	2874.02	*	4	APR	1600	89	1138.	541.61
1	APR	2100	22	233.	125.07	*	3	APR	0700	56	6098.	2785.46	*	4	APR	1700	90	1070.	518.37
1	APR	2200	23	290.	155.35	*	3	APR	0800	57	5830.	2696.21	*	4	APR	1800	91	1010.	498.06
1	APR	2300	24	360.	193.23	*	3	APR	0900	58	5574.	2606.76	*	4	APR	1900	92	967.	479.77
2	APR	0000	25	453.	242.61	*	3	APR	1000	59	5320.	2518.06	*	4	APR	2000	93	930.	462.76
2	APR	0100	26	587.	307.56	*	3	APR	1100	60	5071.	2431.14	*	4	APR	2100	94	894.	446.83
2	APR	0200	27	769.	390.02	*	3	APR	1200	61	4837.	2349.25	*	4	APR	2200	95	862.	431.95
2	APR	0300	28	982.	486.41	*	3	APR	1300	62	4623.	2274.80	*	4	APR	2300	96	831.	418.06
2	APR	0400	29	1283.	591.30	*	3	APR	1400	63	4428.	2206.52	*	5	APR	0000	97	802.	405.10
2	APR	0500	30	1622.	706.76	*	3	APR	1500	64	4246.	2142.91	*	5	APR	0100	98	776.	393.04
2	APR	0600	31	2010.	841.99	*	3	APR	1600	65	4074.	2082.90	*	5	APR	0200	99	751.	381.83
2	APR	0700	32	2324.	1033.47	*	3	APR	1700	66	3946.	2024.23	*	5	APR	0300	100	728.	371.42
2	APR	0800	33	2790.	1317.91	*	3	APR	1800	67	3848.	1963.94	*						
2	APR	0900	34	3435.	1711.92	*	3	APR	1900	68	3745.	1901.12	*						

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	72-HR	99.00-HR
+	(CFS)	(HR)			

SJR_20-yr.out

	(CFS)				
+	11972.	39.00	11196.	8236.	4374.
					3219.
	(INCHES)		.252	.742	1.182
	(AC-FT)		5552.	16335.	26027.
					26338.

PEAK STORAGE	TIME		MAXIMUM	AVERAGE	STORAGE
			6-HR	24-HR	72-HR
+	(AC-FT)	(HR)			99.00-HR
	3755.	39.00	3679.	3233.	1862.
					1374.

CUMULATIVE AREA = 413.00 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE G-H/G-H/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE G-H/G-H/FLOW/01APR1992/1HOUR//

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 * *
 301 KK * 13 * SUBAREA 13
 * *

NUEVO(40% MOUNTAIN)
 COMBINE AT THE D/S OF RAMONA EXPWY PER CDJ

306 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 20 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

304 BA SUBBASIN CHARACTERISTICS
 TAREA 25.74 SUBBASIN AREA
 SNAP .00 NORMAL ANNUAL PRECIPITATION
 RATIO .40 RATIO OF HYDROGRAPH

PRECIPITATION DATA

305 PB STORM .88 BASIN TOTAL PRECIPITATION

307 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.01	.01	.01	.01	.01	.02	.02	.03
.04	.03	.07	.24	.19	.19	.08	.01	.01	.00
.00	.00	.00	.00	.00	.00				

317 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

317 UI INPUT UNITGRAPH, 23 ORDINATES, VOLUME = 1.00

4499.0	4599.0	1816.0	1212.0	853.0	658.0	484.0	397.0	348.0	306.0
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SJRW20-yr.out

266.0	231.0	191.0	160.0	139.0	121.0	50.0	50.0	50.0	50.0
50.5	50.5	19.0							

HYDROGRAPH AT STATION 13

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	5.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	25.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	47.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	67.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	90.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	113.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	134.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	161.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	202.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	262.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.03	.00	.03	339.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.03	.00	.03	383.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.06	.00	.06	546.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.21	.00	.21	1379.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.17	.00	.17	1942.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.16	.00	.16	2050.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.07	.00	.07	1743.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	1115.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	737.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	561.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	444.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	368.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	316.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	280.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	244.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	200.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	162.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	134.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	111.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	84.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	65.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	50.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	43.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	40.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	36.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	28.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	18.	*	4	APR	1500	88	.00	.00	.00	0.
2	APR	1400	39	.00	.00	.00	9.	*	4	APR	1600	89	.00	.00	.00	0.
2	APR	1500	40	.00	.00	.00	3.	*	4	APR	1700	90	.00	.00	.00	0.
2	APR	1600	41	.00	.00	.00	2.	*	4	APR	1800	91	.00	.00	.00	0.
2	APR	1700	42	.00	.00	.00	1.	*	4	APR	1900	92	.00	.00	.00	0.
2	APR	1800	43	.00	.00	.00	1.	*	4	APR	2000	93	.00	.00	.00	0.
2	APR	1900	44	.00	.00	.00	1.	*	4	APR	2100	94	.00	.00	.00	0.

SJR_20-yr.out

2 APR 2000	45	.00	.00	.00	1.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .88, TOTAL LOSS = .00, TOTAL EXCESS = .88

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
+	2050.	16.00	(CFS)			
			1479.	580.	202.	147.
		(INCHES)	.534	.838	.875	.875
		(AC-FT)	733.	1150.	1202.	1202.

CUMULATIVE AREA = 25.74 SQ MI

HYDROGRAPH MULTIPLIED BY .40

HYDROGRAPH AT STATION 13

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	98.	*	3	APR	0200	51	0.	*	4	APR	0300	76	0.	*
1	APR	0100	2	2.	*	2	APR	0200	27	80.	*	3	APR	0300	52	0.	*	4	APR	0400	77	0.	*
1	APR	0200	3	10.	*	2	APR	0300	28	65.	*	3	APR	0400	53	0.	*	4	APR	0500	78	0.	*
1	APR	0300	4	19.	*	2	APR	0400	29	54.	*	3	APR	0500	54	0.	*	4	APR	0600	79	0.	*
1	APR	0400	5	27.	*	2	APR	0500	30	44.	*	3	APR	0600	55	0.	*	4	APR	0700	80	0.	*
1	APR	0500	6	36.	*	2	APR	0600	31	34.	*	3	APR	0700	56	0.	*	4	APR	0800	81	0.	*
1	APR	0600	7	45.	*	2	APR	0700	32	26.	*	3	APR	0800	57	0.	*	4	APR	0900	82	0.	*
1	APR	0700	8	54.	*	2	APR	0800	33	20.	*	3	APR	0900	58	0.	*	4	APR	1000	83	0.	*
1	APR	0800	9	64.	*	2	APR	0900	34	17.	*	3	APR	1000	59	0.	*	4	APR	1100	84	0.	*
1	APR	0900	10	81.	*	2	APR	1000	35	16.	*	3	APR	1100	60	0.	*	4	APR	1200	85	0.	*
1	APR	1000	11	105.	*	2	APR	1100	36	15.	*	3	APR	1200	61	0.	*	4	APR	1300	86	0.	*
1	APR	1100	12	135.	*	2	APR	1200	37	11.	*	3	APR	1300	62	0.	*	4	APR	1400	87	0.	*
1	APR	1200	13	153.	*	2	APR	1300	38	7.	*	3	APR	1400	63	0.	*	4	APR	1500	88	0.	*
1	APR	1300	14	218.	*	2	APR	1400	39	4.	*	3	APR	1500	64	0.	*	4	APR	1600	89	0.	*
1	APR	1400	15	551.	*	2	APR	1500	40	1.	*	3	APR	1600	65	0.	*	4	APR	1700	90	0.	*
1	APR	1500	16	777.	*	2	APR	1600	41	1.	*	3	APR	1700	66	0.	*	4	APR	1800	91	0.	*
1	APR	1600	17	820.	*	2	APR	1700	42	0.	*	3	APR	1800	67	0.	*	4	APR	1900	92	0.	*
1	APR	1700	18	697.	*	2	APR	1800	43	0.	*	3	APR	1900	68	0.	*	4	APR	2000	93	0.	*
1	APR	1800	19	446.	*	2	APR	1900	44	0.	*	3	APR	2000	69	0.	*	4	APR	2100	94	0.	*
1	APR	1900	20	295.	*	2	APR	2000	45	0.	*	3	APR	2100	70	0.	*	4	APR	2200	95	0.	*
1	APR	2000	21	224.	*	2	APR	2100	46	0.	*	3	APR	2200	71	0.	*	4	APR	2300	96	0.	*
1	APR	2100	22	178.	*	2	APR	2200	47	0.	*	3	APR	2300	72	0.	*	5	APR	0000	97	0.	*
1	APR	2200	23	147.	*	2	APR	2300	48	0.	*	4	APR	0000	73	0.	*	5	APR	0100	98	0.	*
1	APR	2300	24	126.	*	3	APR	0000	49	0.	*	4	APR	0100	74	0.	*	5	APR	0200	99	0.	*
2	APR	0000	25	112.	*	3	APR	0100	50	0.	*	4	APR	0200	75	0.	*	5	APR	0300	100	0.	*

PEAK FLOW (CFS)	TIME (HR)		6-HR	24-HR	72-HR	99.00-HR
820.	16.00	(CFS)	591.	232.	81.	59.
		(INCHES)	.214	.335	.350	.350
		(AC-FT)	293.	460.	481.	481.

CUMULATIVE AREA = 25.74 SQ MI

*** **

322 KK 13 SUBAREA 13

NUEVO(60% VALLEY)
COMBINE AT THE D/S OF RAMONA EXPWY PER CDJ

327 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	15	TIME INTERVAL IN MINUTES
JXDATE	1APR92	STARTING DATE
JXTIME	20	STARTING TIME

UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

325 BA SUBBASIN CHARACTERISTICS

TAREA	25.74	SUBBASIN AREA
SNAP	.00	NORMAL ANNUAL PRECIPITATION
RATIO	.60	RATIO OF HYDROGRAPH

PRECIPITATION DATA

326 PB STORM .88 BASIN TOTAL PRECIPITATION

328 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.01	.01	.01	.01	.01	.02	.02	.03
.04	.03	.07	.24	.19	.19	.08	.01	.01	.00
.00	.00	.00	.00	.00	.00				

338 LU UNIFORM LOSS RATE

STRTL	.00	INITIAL LOSS
CNSTL	.00	UNIFORM LOSS RATE
RTIMP	.00	PERCENT IMPERVIOUS AREA

338 UI INPUT UNITGRAPH, 15 ORDINATES, VOLUME = 1.00

3331.0	6377.0	2585.0	1309.0	803.0	580.0	416.0	326.0	259.0	187.0
141.0	92.0	92.0	92.0	11.0					

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HYDROGRAPH AT STATION 13

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	4.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	22.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	50.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	72.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	96.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	123.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	146.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	173.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	213.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	276.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.03	.00	.03	358.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.03	.00	.03	421.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.06	.00	.06	547.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.21	.00	.21	1260.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.17	.00	.17	2159.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.16	.00	.16	2310.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.07	.00	.07	2086.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	1343.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	761.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	521.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	387.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	303.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	241.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	196.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	155.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	116.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	82.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	53.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	33.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	16.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	7.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	4.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	3.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	2.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	1.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	1.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	1.	*	4	APR	1500	88	.00	.00	.00	0.
2	APR	1400	39	.00	.00	.00	0.	*	4	APR	1600	89	.00	.00	.00	0.
2	APR	1500	40	.00	.00	.00	0.	*	4	APR	1700	90	.00	.00	.00	0.
2	APR	1600	41	.00	.00	.00	0.	*	4	APR	1800	91	.00	.00	.00	0.
2	APR	1700	42	.00	.00	.00	0.	*	4	APR	1900	92	.00	.00	.00	0.
2	APR	1800	43	.00	.00	.00	0.	*	4	APR	2000	93	.00	.00	.00	0.
2	APR	1900	44	.00	.00	.00	0.	*	4	APR	2100	94	.00	.00	.00	0.
2	APR	2000	45	.00	.00	.00	0.	*	4	APR	2200	95	.00	.00	.00	0.
2	APR	2100	46	.00	.00	.00	0.	*	4	APR	2300	96	.00	.00	.00	0.

SJ20-yr.out

2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.
						*						

TOTAL RAINFALL = .88, TOTAL LOSS = .00, TOTAL EXCESS = .88

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
+	2310.	16.00				
		(CFS)	1635.	597.	202.	147.
		(INCHES)	.591	.863	.875	.875
		(AC-FT)	811.	1185.	1202.	1202.

CUMULATIVE AREA = 25.74 SQ MI

HYDROGRAPH MULTIPLIED BY .60

HYDROGRAPH AT STATION 13

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	93.	*	3	APR	0200	51	0.	*	4	APR	0300	76	0.	*
1	APR	0100	2	2.	*	2	APR	0200	27	70.	*	3	APR	0300	52	0.	*	4	APR	0400	77	0.	*
1	APR	0200	3	13.	*	2	APR	0300	28	49.	*	3	APR	0400	53	0.	*	4	APR	0500	78	0.	*
1	APR	0300	4	30.	*	2	APR	0400	29	32.	*	3	APR	0500	54	0.	*	4	APR	0600	79	0.	*
1	APR	0400	5	43.	*	2	APR	0500	30	20.	*	3	APR	0600	55	0.	*	4	APR	0700	80	0.	*
1	APR	0500	6	58.	*	2	APR	0600	31	9.	*	3	APR	0700	56	0.	*	4	APR	0800	81	0.	*
1	APR	0600	7	74.	*	2	APR	0700	32	4.	*	3	APR	0800	57	0.	*	4	APR	0900	82	0.	*
1	APR	0700	8	88.	*	2	APR	0800	33	3.	*	3	APR	0900	58	0.	*	4	APR	1000	83	0.	*
1	APR	0800	9	104.	*	2	APR	0900	34	2.	*	3	APR	1000	59	0.	*	4	APR	1100	84	0.	*
1	APR	0900	10	128.	*	2	APR	1000	35	1.	*	3	APR	1100	60	0.	*	4	APR	1200	85	0.	*
1	APR	1000	11	165.	*	2	APR	1100	36	1.	*	3	APR	1200	61	0.	*	4	APR	1300	86	0.	*
1	APR	1100	12	215.	*	2	APR	1200	37	1.	*	3	APR	1300	62	0.	*	4	APR	1400	87	0.	*
1	APR	1200	13	253.	*	2	APR	1300	38	0.	*	3	APR	1400	63	0.	*	4	APR	1500	88	0.	*
1	APR	1300	14	328.	*	2	APR	1400	39	0.	*	3	APR	1500	64	0.	*	4	APR	1600	89	0.	*
1	APR	1400	15	756.	*	2	APR	1500	40	0.	*	3	APR	1600	65	0.	*	4	APR	1700	90	0.	*
1	APR	1500	16	1295.	*	2	APR	1600	41	0.	*	3	APR	1700	66	0.	*	4	APR	1800	91	0.	*
1	APR	1600	17	1386.	*	2	APR	1700	42	0.	*	3	APR	1800	67	0.	*	4	APR	1900	92	0.	*
1	APR	1700	18	1252.	*	2	APR	1800	43	0.	*	3	APR	1900	68	0.	*	4	APR	2000	93	0.	*
1	APR	1800	19	806.	*	2	APR	1900	44	0.	*	3	APR	2000	69	0.	*	4	APR	2100	94	0.	*
1	APR	1900	20	457.	*	2	APR	2000	45	0.	*	3	APR	2100	70	0.	*	4	APR	2200	95	0.	*
1	APR	2000	21	313.	*	2	APR	2100	46	0.	*	3	APR	2200	71	0.	*	4	APR	2300	96	0.	*
1	APR	2100	22	232.	*	2	APR	2200	47	0.	*	3	APR	2300	72	0.	*	5	APR	0000	97	0.	*
1	APR	2200	23	182.	*	2	APR	2300	48	0.	*	4	APR	0000	73	0.	*	5	APR	0100	98	0.	*
1	APR	2300	24	145.	*	3	APR	0000	49	0.	*	4	APR	0100	74	0.	*	5	APR	0200	99	0.	*
2	APR	0000	25	118.	*	3	APR	0100	50	0.	*	4	APR	0200	75	0.	*	5	APR	0300	100	0.	*

SJR_20-yr.out

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)					
		(CFS)					
+	1386.	16.00	981.	358.	121.	88.	
		(INCHES)	.354	.518	.525	.525	
		(AC-FT)	487.	711.	721.	721.	
CUMULATIVE AREA =			25.74 SQ MI				

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342 KK

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COMBINE THE SAN JACINTO RIVER WITH SUBAREAS 12&13

344 HC
 HYDROGRAPH COMBINATION
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION NUEVDS
 SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	APR	0000	1	0.	*	2	APR	0100	26	778.	*	3	APR	0200	51	7452.	*	4	APR	0300	76	2816.
1	APR	0100	2	4.	*	2	APR	0200	27	919.	*	3	APR	0300	52	7215.	*	4	APR	0400	77	2687.
1	APR	0200	3	23.	*	2	APR	0300	28	1095.	*	3	APR	0400	53	6953.	*	4	APR	0500	78	2554.
1	APR	0300	4	49.	*	2	APR	0400	29	1369.	*	3	APR	0500	54	6676.	*	4	APR	0600	79	2420.
1	APR	0400	5	70.	*	2	APR	0500	30	1686.	*	3	APR	0600	55	6390.	*	4	APR	0700	80	2288.
1	APR	0500	6	94.	*	2	APR	0600	31	2053.	*	3	APR	0700	56	6098.	*	4	APR	0800	81	2160.
1	APR	0600	7	120.	*	2	APR	0700	32	2354.	*	3	APR	0800	57	5830.	*	4	APR	0900	82	2037.
1	APR	0700	8	144.	*	2	APR	0800	33	2812.	*	3	APR	0900	58	5574.	*	4	APR	1000	83	1865.
1	APR	0800	9	172.	*	2	APR	0900	34	3454.	*	3	APR	1000	59	5320.	*	4	APR	1100	84	1689.
1	APR	0900	10	214.	*	2	APR	1000	35	4526.	*	3	APR	1100	60	5071.	*	4	APR	1200	85	1540.
1	APR	1000	11	279.	*	2	APR	1100	36	6170.	*	3	APR	1200	61	4837.	*	4	APR	1300	86	1414.
1	APR	1100	12	362.	*	2	APR	1200	37	7777.	*	3	APR	1300	62	4623.	*	4	APR	1400	87	1307.
1	APR	1200	13	422.	*	2	APR	1300	38	10475.	*	3	APR	1400	63	4428.	*	4	APR	1500	88	1216.
1	APR	1300	14	569.	*	2	APR	1400	39	11756.	*	3	APR	1500	64	4246.	*	4	APR	1600	89	1138.
1	APR	1400	15	1338.	*	2	APR	1500	40	11974.	*	3	APR	1600	65	4074.	*	4	APR	1700	90	1070.
1	APR	1500	16	2114.	*	2	APR	1600	41	11679.	*	3	APR	1700	66	3946.	*	4	APR	1800	91	1010.
1	APR	1600	17	2264.	*	2	APR	1700	42	11140.	*	3	APR	1800	67	3848.	*	4	APR	1900	92	967.
1	APR	1700	18	2029.	*	2	APR	1800	43	10495.	*	3	APR	1900	68	3745.	*	4	APR	2000	93	930.
1	APR	1800	19	1362.	*	2	APR	1900	44	9812.	*	3	APR	2000	69	3638.	*	4	APR	2100	94	894.

SJR_20-yr.out

1 APR 1900	20	896.	*	2 APR 2000	45	9146.	*	3 APR 2100	70	3528.	*	4 APR 2200	95	862.
1 APR 2000	21	723.	*	2 APR 2100	46	8574.	*	3 APR 2200	71	3415.	*	4 APR 2300	96	831.
1 APR 2100	22	643.	*	2 APR 2200	47	8166.	*	3 APR 2300	72	3299.	*	5 APR 0000	97	802.
1 APR 2200	23	619.	*	2 APR 2300	48	7950.	*	4 APR 0000	73	3180.	*	5 APR 0100	98	776.
1 APR 2300	24	631.	*	3 APR 0000	49	7824.	*	4 APR 0100	74	3060.	*	5 APR 0200	99	751.
2 APR 0000	25	682.	*	3 APR 0100	50	7656.	*	4 APR 0200	75	2940.	*	5 APR 0300	100	728.
			*				*				*			

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)					
			(CFS)				
+	11974.	39.00	11198.	8238.	4414.	3366.	
			(INCHES)	.224	.660	1.060	1.112
			(AC-FT)	5553.	16339.	26263.	27540.

CUMULATIVE AREA = 464.48 SQ MI

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 345 KK * 14 * SUBAREA 14
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PERRIS VALLEY

1

THE FOLLOWING INFORMATION WERE OBTAINED FROM PREVIOUS WORKS
 PERFORMED BY B.C. & C.V.A. DATED 4/88. FILENAME :CP4.DAT
 THE PERRIS VALLEY AREA INCLUDED THE PIGEON PASS DRAINAGE AREAS.
 TOTAL DRAINAGE AREAS = 85.44 SQ.MI.
 ALL HYDROGRAPHS ADJUSTED FOR YIELD AT NUEVO RD. / CP-4
 INFLOW TO PIGEON PASS RESERVIOR
 ULTIMATE DEVELOPMENT ALL BASINS IN PLACE

357 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 30 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 10 STARTING TIME
 UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

355 BA SUBBASIN CHARACTERISTICS
 TAREA 9.03 SUBBASIN AREA

PRECIPITATION DATA

356 PB STORM .73 BASIN TOTAL PRECIPITATION

358 PI INCREMENTAL PRECIPITATION PATTERN
 .00 .01 .01 .01 .01 .01 .01 .02 .02 .03

SJR_20-yr.out

.04 .03 .05 .21 .21 .19 .10 .01 .01 .01
.00 .00 .00 .00 .00 .00

363 LU UNIFORM LOSS RATE
STRTL .00 INITIAL LOSS
CNSTL .00 UNIFORM LOSS RATE
RTIMP .00 PERCENT IMPERVIOUS AREA

363 UI INPUT UNITGRAPH, 6 ORDINATES, VOLUME = 1.00
3898.0 1128.0 417.0 215.0 104.0 62.0

HYDROGRAPH AT STATION 14

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	2.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	16.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.00	.00	.00	23.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	33.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	40.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	50.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	55.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	68.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	85.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.02	.00	.02	114.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.03	.00	.03	140.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.02	.00	.02	139.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.04	.00	.04	193.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.15	.00	.15	656.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.15	.00	.15	783.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.14	.00	.14	790.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.07	.00	.07	546.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	213.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	117.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	65.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	39.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	26.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	19.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	18.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	15.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	5.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	2.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	1.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	0.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	0.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	0.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	0.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	0.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	0.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	0.	*	4	APR	1300	86	.00	.00	.00	0.

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2 APR 1200	37	.00	.00	.00	0.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	0.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.
						*						

TOTAL RAINFALL = .73, TOTAL LOSS = .00, TOTAL EXCESS = .73

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	790.	16.00	524.	176.	59.	43.
		(INCHES)	.539	.727	.729	.729
		(AC-FT)	260.	350.	351.	351.

CUMULATIVE AREA = 9.03 SQ MI

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 366 KK * PB *
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PIGEON PASS RESERVOIR ROUTING

HYDROGRAPH ROUTING DATA

368 RS	STORAGE ROUTING								
	NSTPS	1	NUMBER OF SUBREACHES						
	ITYP	ELEV	TYPE OF INITIAL CONDITION						
	RSVRIC	1670.00	INITIAL CONDITION						
	X	.00	WORKING R AND D COEFFICIENT						
369 SV	STORAGE	.0	24.0	124.0	314.0	565.0	885.0	1720.0	1720.0
370 SE	ELEVATION	1670.00	1676.00	1680.00	1684.00	1688.00	1692.00	1696.00	1700.00
371 SQ	DISCHARGE	0.	80.	90.	100.	110.	120.	130.	
372 SE	ELEVATION	1670.00	1671.00	1674.00	1678.00	1683.50	1689.50	1695.50	

SJR_20-yr.out

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	4.00	16.00	24.00	74.00	124.00	290.25	314.00	565.00	685.00
OUTFLOW	.00	80.00	90.00	95.00	100.00	103.64	110.00	110.83	117.50	120.00
ELEVATION	1670.00	1671.00	1674.00	1676.00	1678.00	1680.00	1683.50	1684.00	1688.00	1689.50
STORAGE	885.00	1615.63	1720.00	1720.00						
OUTFLOW	124.17	130.00	130.83	137.50						
ELEVATION	1692.00	1695.50	1696.00	1700.00						

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 131. TO 138.
 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 PB

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	APR	0000	1	0.	.0	1670.0	*	2	APR	1000	35	103.	117.9	1679.8	*	3	APR	2000	69	0.	.0	1670.0
1	APR	0100	2	1.	.0	1670.0	*	2	APR	1100	36	103.	109.4	1679.4	*	3	APR	2100	70	0.	.0	1670.0
1	APR	0200	3	8.	.4	1670.1	*	2	APR	1200	37	102.	100.9	1679.1	*	3	APR	2200	71	0.	.0	1670.0
1	APR	0300	4	18.	.9	1670.2	*	2	APR	1300	38	101.	92.5	1678.7	*	3	APR	2300	72	0.	.0	1670.0
1	APR	0400	5	27.	1.4	1670.3	*	2	APR	1400	39	101.	84.2	1678.4	*	4	APR	0000	73	0.	.0	1670.0
1	APR	0500	6	36.	1.8	1670.4	*	2	APR	1500	40	100.	75.9	1678.1	*	4	APR	0100	74	0.	.0	1670.0
1	APR	0600	7	44.	2.2	1670.5	*	2	APR	1600	41	99.	67.6	1677.7	*	4	APR	0200	75	0.	.0	1670.0
1	APR	0700	8	52.	2.6	1670.6	*	2	APR	1700	42	99.	59.5	1677.4	*	4	APR	0300	76	0.	.0	1670.0
1	APR	0800	9	61.	3.0	1670.8	*	2	APR	1800	43	98.	51.3	1677.1	*	4	APR	0400	77	0.	.0	1670.0
1	APR	0900	10	75.	3.8	1670.9	*	2	APR	1900	44	97.	43.3	1676.8	*	4	APR	0500	78	0.	.0	1670.0
1	APR	1000	11	81.	5.5	1671.4	*	2	APR	2000	45	96.	35.3	1676.5	*	4	APR	0600	79	0.	.0	1670.0
1	APR	1100	12	84.	9.2	1672.3	*	2	APR	2100	46	95.	27.4	1676.1	*	4	APR	0700	80	0.	.0	1670.0
1	APR	1200	13	88.	13.6	1673.4	*	2	APR	2200	47	92.	19.7	1674.9	*	4	APR	0800	81	0.	.0	1670.0
1	APR	1300	14	92.	19.8	1675.0	*	2	APR	2300	48	87.	12.3	1673.1	*	4	APR	0900	82	0.	.0	1670.0
1	APR	1400	15	97.	47.1	1676.9	*	3	APR	0000	49	81.	5.3	1671.3	*	4	APR	1000	83	0.	.0	1670.0
1	APR	1500	16	102.	98.3	1679.0	*	3	APR	0100	50	21.	1.1	1670.3	*	4	APR	1100	84	0.	.0	1670.0
1	APR	1600	17	105.	154.8	1680.6	*	3	APR	0200	51	2.	.1	1670.0	*	4	APR	1200	85	0.	.0	1670.0
1	APR	1700	18	107.	201.2	1681.6	*	3	APR	0300	52	0.	.0	1670.0	*	4	APR	1300	86	0.	.0	1670.0
1	APR	1800	19	107.	223.7	1682.1	*	3	APR	0400	53	0.	.0	1670.0	*	4	APR	1400	87	0.	.0	1670.0
1	APR	1900	20	108.	228.5	1682.2	*	3	APR	0500	54	0.	.0	1670.0	*	4	APR	1500	88	0.	.0	1670.0
1	APR	2000	21	108.	227.1	1682.2	*	3	APR	0600	55	0.	.0	1670.0	*	4	APR	1600	89	0.	.0	1670.0
1	APR	2100	22	107.	222.5	1682.1	*	3	APR	0700	56	0.	.0	1670.0	*	4	APR	1700	90	0.	.0	1670.0
1	APR	2200	23	107.	216.3	1681.9	*	3	APR	0800	57	0.	.0	1670.0	*	4	APR	1800	91	0.	.0	1670.0
1	APR	2300	24	107.	209.3	1681.8	*	3	APR	0900	58	0.	.0	1670.0	*	4	APR	1900	92	0.	.0	1670.0
2	APR	0000	25	107.	201.9	1681.6	*	3	APR	1000	59	0.	.0	1670.0	*	4	APR	2000	93	0.	.0	1670.0
2	APR	0100	26	106.	194.5	1681.5	*	3	APR	1100	60	0.	.0	1670.0	*	4	APR	2100	94	0.	.0	1670.0
2	APR	0200	27	106.	186.6	1681.3	*	3	APR	1200	61	0.	.0	1670.0	*	4	APR	2200	95	0.	.0	1670.0
2	APR	0300	28	106.	178.1	1681.1	*	3	APR	1300	62	0.	.0	1670.0	*	4	APR	2300	96	0.	.0	1670.0
2	APR	0400	29	105.	169.5	1681.0	*	3	APR	1400	63	0.	.0	1670.0	*	5	APR	0000	97	0.	.0	1670.0
2	APR	0500	30	105.	160.9	1680.8	*	3	APR	1500	64	0.	.0	1670.0	*	5	APR	0100	98	0.	.0	1670.0
2	APR	0600	31	105.	152.3	1680.6	*	3	APR	1600	65	0.	.0	1670.0	*	5	APR	0200	99	0.	.0	1670.0
2	APR	0700	32	104.	143.6	1680.4	*	3	APR	1700	66	0.	.0	1670.0	*	5	APR	0300	100	0.	.0	1670.0

SJR_20-yr.out

2 APR 0800	33	104.	135.0	1680.2	*	3 APR 1800	67	0.	.0	1670.0	*
2 APR 0900	34	104.	126.4	1680.1	*	3 APR 1900	68	0.	.0	1670.0	*

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)					
+	108.	19.00		(CFS)			
			107.		105.	59.	43.
		(INCHES)	.110		.432	.729	.729
		(AC-FT)	53.		208.	351.	351.

PEAK STORAGE	TIME		6-HR	MAXIMUM AVERAGE STORAGE	24-HR	72-HR	99.00-HR
+	(AC-FT)	(HR)					
	228.	19.00					
			221.		164.	62.	45.

PEAK STAGE	TIME		6-HR	MAXIMUM AVERAGE STAGE	24-HR	72-HR	99.00-HR
+	(FEET)	(HR)					
	1682.20	19.00					
			1682.03		1680.71	1674.72	1673.43

CUMULATIVE AREA = 9.03 SQ MI

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 373 KK *
 * IA *
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LOCAL AREA TRIBUTARY TO INDIAN-FESTIVAL BASIN

377 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 30 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 10 STARTING TIME
 UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

375 BA SUBBASIN CHARACTERISTICS
 TAREA 1.17 SUBBASIN AREA

PRECIPITATION DATA

376 PB STORM .74 BASIN TOTAL PRECIPITATION

378 PI INCREMENTAL PRECIPITATION PATTERN

.00	.01	.01	.01	.01	.01	.01	.02	.02	.03
.04	.03	.05	.21	.21	.19	.10	.01	.01	.01
.00	.00	.00	.00	.00	.00				

383 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

383 UI INPUT UNITGRAPH, 2 ORDINATES, VOLUME = 1.00
 713.0 43.0

HYDROGRAPH AT STATION IA

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	0.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	3.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.00	.00	.00	3.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	5.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	6.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	7.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	8.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	10.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	12.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.02	.00	.02	17.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.03	.00	.03	20.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.02	.00	.02	18.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.04	.00	.04	29.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.15	.00	.15	112.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.15	.00	.15	115.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.14	.00	.14	108.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.08	.00	.08	60.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	7.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	5.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	3.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	3.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	3.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	2.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	2.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	2.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	0.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	0.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	0.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	0.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	0.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	0.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	0.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	0.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	0.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	0.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	0.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	0.	*	4	APR	1500	88	.00	.00	.00	0.

SJRW20-yr.out

2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .74, TOTAL LOSS = .00, TOTAL EXCESS = .74

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	115.	15.00	73.	23.	8.	6.
		(INCHES)	.577	.737	.739	.739
		(AC-FT)	36.	46.	46.	46.
CUMULATIVE AREA =			1.17 SQ MI			

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 386 KK * IA *
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INFLOW HYDROGRAPH FOR INDIAN-FESTIVAL BASIN

388 HC HYDROGRAPH COMBINATION
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION IA
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	108.	*	3	APR	0200	51	2.	*	4	APR	0300	76	0.	*
1	APR	0100	2	1.	*	2	APR	0200	27	106.	*	3	APR	0300	52	0.	*	4	APR	0400	77	0.	*
1	APR	0200	3	11.	*	2	APR	0300	28	106.	*	3	APR	0400	53	0.	*	4	APR	0500	78	0.	*

SJRW_20-yr.out																						
1	APR	0300	4	22.	*	2	APR	0400	29	105.	*	3	APR	0500	54	0.	*	4	APR	0600	79	0.
1	APR	0400	5	32.	*	2	APR	0500	30	105.	*	3	APR	0600	55	0.	*	4	APR	0700	80	0.
1	APR	0500	6	41.	*	2	APR	0600	31	105.	*	3	APR	0700	56	0.	*	4	APR	0800	81	0.
1	APR	0600	7	51.	*	2	APR	0700	32	104.	*	3	APR	0800	57	0.	*	4	APR	0900	82	0.
1	APR	0700	8	59.	*	2	APR	0800	33	104.	*	3	APR	0900	58	0.	*	4	APR	1000	83	0.
1	APR	0800	9	70.	*	2	APR	0900	34	104.	*	3	APR	1000	59	0.	*	4	APR	1100	84	0.
1	APR	0900	10	87.	*	2	APR	1000	35	103.	*	3	APR	1100	60	0.	*	4	APR	1200	85	0.
1	APR	1000	11	98.	*	2	APR	1100	36	103.	*	3	APR	1200	61	0.	*	4	APR	1300	86	0.
1	APR	1100	12	104.	*	2	APR	1200	37	102.	*	3	APR	1300	62	0.	*	4	APR	1400	87	0.
1	APR	1200	13	106.	*	2	APR	1300	38	101.	*	3	APR	1400	63	0.	*	4	APR	1500	88	0.
1	APR	1300	14	121.	*	2	APR	1400	39	101.	*	3	APR	1500	64	0.	*	4	APR	1600	89	0.
1	APR	1400	15	209.	*	2	APR	1500	40	100.	*	3	APR	1600	65	0.	*	4	APR	1700	90	0.
1	APR	1500	16	217.	*	2	APR	1600	41	99.	*	3	APR	1700	66	0.	*	4	APR	1800	91	0.
1	APR	1600	17	212.	*	2	APR	1700	42	99.	*	3	APR	1800	67	0.	*	4	APR	1900	92	0.
1	APR	1700	18	167.	*	2	APR	1800	43	98.	*	3	APR	1900	68	0.	*	4	APR	2000	93	0.
1	APR	1800	19	115.	*	2	APR	1900	44	97.	*	3	APR	2000	69	0.	*	4	APR	2100	94	0.
1	APR	1900	20	112.	*	2	APR	2000	45	96.	*	3	APR	2100	70	0.	*	4	APR	2200	95	0.
1	APR	2000	21	111.	*	2	APR	2100	46	95.	*	3	APR	2200	71	0.	*	4	APR	2300	96	0.
1	APR	2100	22	110.	*	2	APR	2200	47	92.	*	3	APR	2300	72	0.	*	5	APR	0000	97	0.
1	APR	2200	23	110.	*	2	APR	2300	48	87.	*	4	APR	0000	73	0.	*	5	APR	0100	98	0.
1	APR	2300	24	109.	*	3	APR	0000	49	81.	*	4	APR	0100	74	0.	*	5	APR	0200	99	0.
2	APR	0000	25	109.	*	3	APR	0100	50	21.	*	4	APR	0200	75	0.	*	5	APR	0300	100	0.

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)					
		(CFS)					
+	217.	15.00	173.	123.	67.	49.	
		(INCHES)	.157	.450	.731	.731	
		(AC-FT)	86.	245.	398.	398.	
CUMULATIVE AREA =			10.20 SQ MI				

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389 KK

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INDIAN STREET (FESTIVAL) BASIN ROUTING

HYDROGRAPH ROUTING DATA

391 RS
 STORAGE ROUTING
 NSTPS 1 NUMBER OF SUBREACHES
 ITYP ELEV TYPE OF INITIAL CONDITION
 RSVRIC 1635.50 INITIAL CONDITION
 X .00 WORKING R AND D COEFFICIENT

392 SA	AREA	.0	.6	3.5	8.9	10.9	11.1	11.3	11.5	11.6	11.7
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SJRW20-yr.out

		11.9	12.1								
394 SE	ELEVATION	1635.50	1636.00	1637.00	1638.00	1639.00	1640.00	1641.00	1642.00	1643.00	1644.00
		1645.00	1646.00								
396 SQ	DISCHARGE	0.	15.	23.	56.	88.	117.	137.	155.	173.	189.
		205.	220.								

COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.09	1.93	7.94	17.82	28.82	40.02	51.42	62.97	74.62
ELEVATION	1635.50	1636.00	1637.00	1638.00	1639.00	1640.00	1641.00	1642.00	1643.00	1644.00
STORAGE	86.42	98.42								
ELEVATION	1645.00	1646.00								

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 15.
 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 IB

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	APR	0000	1	0.	.0	1635.5	*	2	APR	1000	35	107.	25.1	1639.7	*	3	APR	2000	69	0.	.0	1635.5
1	APR	0100	2	1.	.0	1635.5	*	2	APR	1100	36	106.	24.8	1639.6	*	3	APR	2100	70	0.	.0	1635.5
1	APR	0200	3	10.	.1	1635.8	*	2	APR	1200	37	106.	24.5	1639.6	*	3	APR	2200	71	0.	.0	1635.5
1	APR	0300	4	16.	.3	1636.1	*	2	APR	1300	38	105.	24.2	1639.6	*	3	APR	2300	72	0.	.0	1635.5
1	APR	0400	5	19.	1.1	1636.5	*	2	APR	1400	39	104.	23.9	1639.6	*	4	APR	0000	73	0.	.0	1635.5
1	APR	0500	6	25.	2.3	1637.1	*	2	APR	1500	40	103.	23.6	1639.5	*	4	APR	0100	74	0.	.0	1635.5
1	APR	0600	7	33.	3.7	1637.3	*	2	APR	1600	41	103.	23.4	1639.5	*	4	APR	0200	75	0.	.0	1635.5
1	APR	0700	8	41.	5.2	1637.5	*	2	APR	1700	42	102.	23.1	1639.5	*	4	APR	0300	76	0.	.0	1635.5
1	APR	0800	9	50.	6.8	1637.8	*	2	APR	1800	43	101.	22.8	1639.5	*	4	APR	0400	77	0.	.0	1635.5
1	APR	0900	10	59.	8.8	1638.1	*	2	APR	1900	44	100.	22.5	1639.4	*	4	APR	0500	78	0.	.0	1635.5
1	APR	1000	11	67.	11.3	1638.3	*	2	APR	2000	45	100.	22.2	1639.4	*	4	APR	0600	79	0.	.0	1635.5
1	APR	1100	12	75.	13.8	1638.6	*	2	APR	2100	46	99.	21.9	1639.4	*	4	APR	0700	80	0.	.0	1635.5
1	APR	1200	13	82.	16.0	1638.8	*	2	APR	2200	47	98.	21.6	1639.3	*	4	APR	0800	81	0.	.0	1635.5
1	APR	1300	14	89.	18.3	1639.0	*	2	APR	2300	48	96.	21.0	1639.3	*	4	APR	0900	82	0.	.0	1635.5
1	APR	1400	15	104.	23.9	1639.6	*	3	APR	0000	49	94.	20.0	1639.2	*	4	APR	1000	83	0.	.0	1635.5
1	APR	1500	16	123.	32.2	1640.3	*	3	APR	0100	50	85.	16.9	1638.9	*	4	APR	1100	84	0.	.0	1635.5
1	APR	1600	17	136.	39.2	1640.9	*	3	APR	0200	51	68.	11.5	1638.4	*	4	APR	1200	85	0.	.0	1635.5
1	APR	1700	18	142.	43.4	1641.3	*	3	APR	0300	52	50.	6.8	1637.8	*	4	APR	1300	86	0.	.0	1635.5
1	APR	1800	19	142.	43.3	1641.3	*	3	APR	0400	53	31.	3.4	1637.3	*	4	APR	1400	87	0.	.0	1635.5
1	APR	1900	20	139.	41.0	1641.1	*	3	APR	0500	54	20.	1.3	1636.7	*	4	APR	1500	88	0.	.0	1635.5
1	APR	2000	21	135.	39.0	1640.9	*	3	APR	0600	55	10.	.1	1635.8	*	4	APR	1600	89	0.	.0	1635.5
1	APR	2100	22	132.	37.1	1640.7	*	3	APR	0700	56	0.	.0	1635.5	*	4	APR	1700	90	0.	.0	1635.5
1	APR	2200	23	129.	35.4	1640.6	*	3	APR	0800	57	0.	.0	1635.5	*	4	APR	1800	91	0.	.0	1635.5
1	APR	2300	24	126.	33.9	1640.5	*	3	APR	0900	58	0.	.0	1635.5	*	4	APR	1900	92	0.	.0	1635.5
2	APR	0000	25	124.	32.6	1640.3	*	3	APR	1000	59	0.	.0	1635.5	*	4	APR	2000	93	0.	.0	1635.5
2	APR	0100	26	122.	31.4	1640.2	*	3	APR	1100	60	0.	.0	1635.5	*	4	APR	2100	94	0.	.0	1635.5
2	APR	0200	27	120.	30.3	1640.1	*	3	APR	1200	61	0.	.0	1635.5	*	4	APR	2200	95	0.	.0	1635.5

SJRR_20-yr.out

2 APR 0300	28	118.	29.3	1640.0	*	3 APR 1300	62	0.	.0	1635.5	*	4 APR 2300	96	0.	.0	1635.5
2 APR 0400	29	116.	28.3	1640.0	*	3 APR 1400	63	0.	.0	1635.5	*	5 APR 0000	97	0.	.0	1635.5
2 APR 0500	30	114.	27.5	1639.9	*	3 APR 1500	64	0.	.0	1635.5	*	5 APR 0100	98	0.	.0	1635.5
2 APR 0600	31	112.	26.9	1639.8	*	3 APR 1600	65	0.	.0	1635.5	*	5 APR 0200	99	0.	.0	1635.5
2 APR 0700	32	110.	26.3	1639.8	*	3 APR 1700	66	0.	.0	1635.5	*	5 APR 0300	100	0.	.0	1635.5
2 APR 0800	33	109.	25.9	1639.7	*	3 APR 1800	67	0.	.0	1635.5	*					
2 APR 0900	34	108.	25.5	1639.7	*	3 APR 1900	68	0.	.0	1635.5	*					
					*						*					

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	142.	17.00	137.	120.	67.	49.
		(INCHES)	.125	.438	.731	.731
		(AC-FT)	68.	238.	398.	398.

PEAK STORAGE	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(AC-FT)	(HR)				
	43.	17.00	40.	31.	16.	11.

PEAK STAGE	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(FEET)	(HR)				
	1641.30	17.00	1641.01	1640.22	1638.18	1637.45

CUMULATIVE AREA = 10.20 SQ MI

*** **

 *
 398 KK * LA *
 *

TRIBUTARY AREA FOR LASSELLE BASIN

402 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 30 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 10 STARTING TIME
 UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

400 BA SUBBASIN CHARACTERISTICS
 TAREA .69 SUBBASIN AREA

PRECIPITATION DATA

401 PB STORM .79 BASIN TOTAL PRECIPITATION

SJR_20-yr.out

403 PI INCREMENTAL PRECIPITATION PATTERN
 .00 .01 .01 .01 .01 .01 .01 .02 .02 .03
 .04 .03 .05 .21 .21 .19 .10 .01 .01 .01
 .00 .00 .00 .00 .00 .00

408 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

408 UI INPUT UNITGRAPH, 2 ORDINATES, VOLUME = 1.00
 429.0 16.0

HYDROGRAPH AT STATION LA

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	0.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	2.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.00	.00	.00	2.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	3.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	4.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	5.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	5.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	6.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	8.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.02	.00	.02	11.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.03	.00	.03	13.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.03	.00	.03	12.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.04	.00	.04	18.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.16	.00	.16	71.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.16	.00	.16	72.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.15	.00	.15	67.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.08	.00	.08	37.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	4.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	3.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	2.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	2.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	2.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	1.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	1.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	1.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	0.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	0.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	0.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	0.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	0.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	0.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	0.	*	4	APR	1000	83	.00	.00	.00	0.

SJRR_20-yr.out												
2 APR 0900	34	.00	.00	.00	0.	*	4 APR 1100	84	.00	.00	.00	0.
2 APR 1000	35	.00	.00	.00	0.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	0.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	0.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	0.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .79, TOTAL LOSS = .00, TOTAL EXCESS = .79

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	
(CFS)	(HR)			24-HR	72-HR
+					99.00-HR
+	72.	15.00			
		(CFS)	46.	15.	5.
		(INCHES)	.616	.789	.791
		(AC-FT)	23.	29.	29.

CUMULATIVE AREA = .69 SQ MI

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 * *
 411 KK LB *
 * *

LASSELLE BASIN ROUTING

HYDROGRAPH ROUTING DATA

413 RS	STORAGE ROUTING							
	NSTPS	1	NUMBER OF SUBREACHES					
	ITYP	ELEV	TYPE OF INITIAL CONDITION					
	RSVRIC	1734.00	INITIAL CONDITION					
	X	.00	WORKING R AND D COEFFICIENT					
414 SV	STORAGE	.0	.5	1.8	4.3	9.8	29.0	47.5
415 SE	ELEVATION	1734.00	1735.00	1736.00	1737.00	1739.00	1742.00	1745.00

416 SQ	DISCHARGE	0.	20.	40.	SJR_20-yr.out 60.	75.	235.	800.
417 SE	ELEVATION	1734.00	1736.00	1739.00	1745.00	1745.50	1746.00	1747.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.50	1.75	4.25	9.75	29.00	47.50	50.58	53.67	59.83
OUTFLOW	.00	10.00	20.00	26.67	40.00	50.00	60.00	75.00	235.00	800.00
ELEVATION	1734.00	1735.00	1736.00	1737.00	1739.00	1742.00	1745.00	1745.50	1746.00	1747.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 75. TO 800.
 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 LB

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*
1	APR	0000	1	0.	.0	1734.0	*	2	APR	1000	35	0.	.0	1734.0	*	3	APR	2000	69	0.	.0	1734.0	*
1	APR	0100	2	0.	.0	1734.0	*	2	APR	1100	36	0.	.0	1734.0	*	3	APR	2100	70	0.	.0	1734.0	*
1	APR	0200	3	1.	.0	1734.1	*	2	APR	1200	37	0.	.0	1734.0	*	3	APR	2200	71	0.	.0	1734.0	*
1	APR	0300	4	2.	.1	1734.2	*	2	APR	1300	38	0.	.0	1734.0	*	3	APR	2300	72	0.	.0	1734.0	*
1	APR	0400	5	3.	.1	1734.3	*	2	APR	1400	39	0.	.0	1734.0	*	4	APR	0000	73	0.	.0	1734.0	*
1	APR	0500	6	3.	.2	1734.3	*	2	APR	1500	40	0.	.0	1734.0	*	4	APR	0100	74	0.	.0	1734.0	*
1	APR	0600	7	4.	.2	1734.4	*	2	APR	1600	41	0.	.0	1734.0	*	4	APR	0200	75	0.	.0	1734.0	*
1	APR	0700	8	5.	.2	1734.5	*	2	APR	1700	42	0.	.0	1734.0	*	4	APR	0300	76	0.	.0	1734.0	*
1	APR	0800	9	5.	.3	1734.5	*	2	APR	1800	43	0.	.0	1734.0	*	4	APR	0400	77	0.	.0	1734.0	*
1	APR	0900	10	7.	.3	1734.7	*	2	APR	1900	44	0.	.0	1734.0	*	4	APR	0500	78	0.	.0	1734.0	*
1	APR	1000	11	9.	.4	1734.9	*	2	APR	2000	45	0.	.0	1734.0	*	4	APR	0600	79	0.	.0	1734.0	*
1	APR	1100	12	11.	.6	1735.1	*	2	APR	2100	46	0.	.0	1734.0	*	4	APR	0700	80	0.	.0	1734.0	*
1	APR	1200	13	11.	.7	1735.1	*	2	APR	2200	47	0.	.0	1734.0	*	4	APR	0800	81	0.	.0	1734.0	*
1	APR	1300	14	13.	.9	1735.3	*	2	APR	2300	48	0.	.0	1734.0	*	4	APR	0900	82	0.	.0	1734.0	*
1	APR	1400	15	24.	3.1	1736.5	*	3	APR	0000	49	0.	.0	1734.0	*	4	APR	1000	83	0.	.0	1734.0	*
1	APR	1500	16	33.	6.7	1737.9	*	3	APR	0100	50	0.	.0	1734.0	*	4	APR	1100	84	0.	.0	1734.0	*
1	APR	1600	17	39.	9.5	1738.9	*	3	APR	0200	51	0.	.0	1734.0	*	4	APR	1200	85	0.	.0	1734.0	*
1	APR	1700	18	40.	10.5	1739.1	*	3	APR	0300	52	0.	.0	1734.0	*	4	APR	1300	86	0.	.0	1734.0	*
1	APR	1800	19	38.	8.9	1738.7	*	3	APR	0400	53	0.	.0	1734.0	*	4	APR	1400	87	0.	.0	1734.0	*
1	APR	1900	20	32.	6.3	1737.8	*	3	APR	0500	54	0.	.0	1734.0	*	4	APR	1500	88	0.	.0	1734.0	*
1	APR	2000	21	26.	4.1	1737.0	*	3	APR	0600	55	0.	.0	1734.0	*	4	APR	1600	89	0.	.0	1734.0	*
1	APR	2100	22	22.	2.3	1736.2	*	3	APR	0700	56	0.	.0	1734.0	*	4	APR	1700	90	0.	.0	1734.0	*
1	APR	2200	23	14.	1.0	1735.4	*	3	APR	0800	57	0.	.0	1734.0	*	4	APR	1800	91	0.	.0	1734.0	*
1	APR	2300	24	6.	.3	1734.6	*	3	APR	0900	58	0.	.0	1734.0	*	4	APR	1900	92	0.	.0	1734.0	*
2	APR	0000	25	2.	.1	1734.2	*	3	APR	1000	59	0.	.0	1734.0	*	4	APR	2000	93	0.	.0	1734.0	*
2	APR	0100	26	1.	.1	1734.1	*	3	APR	1100	60	0.	.0	1734.0	*	4	APR	2100	94	0.	.0	1734.0	*
2	APR	0200	27	1.	.0	1734.1	*	3	APR	1200	61	0.	.0	1734.0	*	4	APR	2200	95	0.	.0	1734.0	*
2	APR	0300	28	0.	.0	1734.0	*	3	APR	1300	62	0.	.0	1734.0	*	4	APR	2300	96	0.	.0	1734.0	*
2	APR	0400	29	0.	.0	1734.0	*	3	APR	1400	63	0.	.0	1734.0	*	5	APR	0000	97	0.	.0	1734.0	*
2	APR	0500	30	0.	.0	1734.0	*	3	APR	1500	64	0.	.0	1734.0	*	5	APR	0100	98	0.	.0	1734.0	*
2	APR	0600	31	0.	.0	1734.0	*	3	APR	1600	65	0.	.0	1734.0	*	5	APR	0200	99	0.	.0	1734.0	*
2	APR	0700	32	0.	.0	1734.0	*	3	APR	1700	66	0.	.0	1734.0	*	5	APR	0300	100	0.	.0	1734.0	*

SJRW20-yr.out

2 APR 0800	33	0.	.0	1734.0	*	3 APR 1800	67	0.	.0	1734.0	*
2 APR 0900	34	0.	.0	1734.0	*	3 APR 1900	68	0.	.0	1734.0	*

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)					
		(CFS)					
+	40.	17.00	35.	15.	5.	4.	
		(INCHES)	.466	.788	.791	.791	
		(AC-FT)	17.	29.	29.	29.	

PEAK STORAGE	TIME		6-HR	MAXIMUM AVERAGE STORAGE	24-HR	72-HR	99.00-HR
+	(AC-FT)	(HR)					
	11.	17.00	8.	2.	1.	1.	

PEAK STAGE	TIME		6-HR	MAXIMUM AVERAGE STAGE	24-HR	72-HR	99.00-HR
+	(FEET)	(HR)					
	1739.12	17.00	1738.19	1735.66	1734.55	1734.40	

CUMULATIVE AREA = .69 SQ MI

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*	*
418 KK	NA
*	*

TRIBUTARY AREA FOR NASON BASIN

422 IN	TIME DATA FOR INPUT TIME SERIES
	JXMIN 30 TIME INTERVAL IN MINUTES
	JXDATE 1APR92 STARTING DATE
	JXTIME 10 STARTING TIME
	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

420 BA	SUBBASIN CHARACTERISTICS
	TAREA 4.33 SUBBASIN AREA

PRECIPITATION DATA

421 PB	STORM 1.09 BASIN TOTAL PRECIPITATION
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423 PI	INCREMENTAL PRECIPITATION PATTERN
	.00 .00 .00 .01 .01 .01 .01 .01 .02 .02
	.05 .05 .07 .20 .20 .19 .11 .00 .01 .00
	.00 .00 .00 .00 .00 .00

SJR_20-yr.out

428 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

428 UI INPUT UNITGRAPH, 5 ORDINATES, VOLUME = 1.00
 1923.0 641.0 175.0 27.0 26.0

HYDROGRAPH AT STATION NA

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	1.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	9.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.00	.00	.00	12.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	16.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	21.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	28.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	33.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	38.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	48.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	65.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.06	.00	.06	130.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.05	.00	.05	143.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.07	.00	.07	186.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.22	.00	.22	488.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.22	.00	.22	578.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.20	.00	.20	574.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.12	.00	.12	405.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	134.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	48.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.01	.00	.01	23.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	16.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	12.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	12.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	9.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	6.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	2.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	1.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	0.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	0.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	0.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	0.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	0.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	0.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	0.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	0.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	0.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	0.	*	4	APR	1500	88	.00	.00	.00	0.

SJRW_20-yr.out												
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = 1.09, TOTAL LOSS = .00, TOTAL EXCESS = 1.09

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	578.	15.00	395.	126.	42.	31.
		(INCHES)	.848	1.086	1.088	1.088
		(AC-FT)	196.	251.	251.	251.
CUMULATIVE AREA =			4.33 SQ MI			

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 431 KK * NB *
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NASON BASIN ROUTING

HYDROGRAPH ROUTING DATA

433 RS	STORAGE ROUTING										
	NSTPS	1	NUMBER OF SUBREACHES								
	ITYP	ELEV	TYPE OF INITIAL CONDITION								
	RSVRIC	58.00	INITIAL CONDITION								
	X	.00	WORKING R AND D COEFFICIENT								
434 SV	STORAGE	.0	5.1	21.8	47.6	357.0					
435 SE	ELEVATION	58.00	60.00	62.00	64.00	84.00					
436 SQ	DISCHARGE	0.	8.	30.	65.	113.	173.	239.	270.	296.	321.
		342.	363.	383.	419.	453.	484.	513.	541.	568.	593.
438 SE	ELEVATION	58.00	58.80	59.70	60.60	61.60	62.60	63.90	65.00	66.00	67.00
		68.00	69.00	70.00	72.00	74.00	76.00	78.00	80.00	82.00	84.00

SJR_20-yr.out

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	2.04	4.34	5.10	10.11	18.46	21.80	29.54	46.31	47.60
OUTFLOW	.00	7.60	29.80	41.60	65.20	113.00	137.00	173.00	239.00	241.82
ELEVATION	58.00	58.80	59.70	60.00	60.60	61.60	62.00	62.60	63.90	64.00
STORAGE	63.07	78.54	94.01	109.48	124.95	140.42	171.36	202.30	233.24	264.18
OUTFLOW	270.00	296.40	320.70	342.00	363.00	382.70	419.20	452.80	484.00	513.40
ELEVATION	65.00	66.00	67.00	68.00	69.00	70.00	72.00	74.00	76.00	78.00
STORAGE	295.12	326.06	357.00							
OUTFLOW	541.20	567.60	592.80							
ELEVATION	80.00	82.00	84.00							

HYDROGRAPH AT STATION NB

* DA MON HRMN ORD OUTFLOW STORAGE STAGE *						* DA MON HRMN ORD OUTFLOW STORAGE STAGE *						* DA MON HRMN ORD OUTFLOW STORAGE STAGE *					
1 APR 0000	1	0.	.0	58.0	*	2 APR 1000	35	1.	.3	58.1	*	3 APR 2000	69	0.	.0	58.0	
1 APR 0100	2	0.	.1	58.0	*	2 APR 1100	36	1.	.2	58.1	*	3 APR 2100	70	0.	.0	58.0	
1 APR 0200	3	2.	.4	58.2	*	2 APR 1200	37	1.	.1	58.1	*	3 APR 2200	71	0.	.0	58.0	
1 APR 0300	4	4.	1.0	58.4	*	2 APR 1300	38	0.	.1	58.0	*	3 APR 2300	72	0.	.0	58.0	
1 APR 0400	5	7.	1.8	58.7	*	2 APR 1400	39	0.	.1	58.0	*	4 APR 0000	73	0.	.0	58.0	
1 APR 0500	6	13.	2.5	59.0	*	2 APR 1500	40	0.	.1	58.0	*	4 APR 0100	74	0.	.0	58.0	
1 APR 0600	7	19.	3.3	59.3	*	2 APR 1600	41	0.	.0	58.0	*	4 APR 0200	75	0.	.0	58.0	
1 APR 0700	8	26.	3.9	59.5	*	2 APR 1700	42	0.	.0	58.0	*	4 APR 0300	76	0.	.0	58.0	
1 APR 0800	9	32.	4.5	59.7	*	2 APR 1800	43	0.	.0	58.0	*	4 APR 0400	77	0.	.0	58.0	
1 APR 0900	10	40.	5.0	60.0	*	2 APR 1900	44	0.	.0	58.0	*	4 APR 0500	78	0.	.0	58.0	
1 APR 1000	11	46.	6.1	60.1	*	2 APR 2000	45	0.	.0	58.0	*	4 APR 0600	79	0.	.0	58.0	
1 APR 1100	12	63.	9.7	60.5	*	2 APR 2100	46	0.	.0	58.0	*	4 APR 0700	80	0.	.0	58.0	
1 APR 1200	13	91.	14.6	61.1	*	2 APR 2200	47	0.	.0	58.0	*	4 APR 0800	81	0.	.0	58.0	
1 APR 1300	14	120.	19.5	61.7	*	2 APR 2300	48	0.	.0	58.0	*	4 APR 0900	82	0.	.0	58.0	
1 APR 1400	15	192.	34.4	63.0	*	3 APR 0000	49	0.	.0	58.0	*	4 APR 1000	83	0.	.0	58.0	
1 APR 1500	16	264.	59.6	64.8	*	3 APR 0100	50	0.	.0	58.0	*	4 APR 1100	84	0.	.0	58.0	
1 APR 1600	17	305.	83.7	66.3	*	3 APR 0200	51	0.	.0	58.0	*	4 APR 1200	85	0.	.0	58.0	
1 APR 1700	18	326.	98.1	67.3	*	3 APR 0300	52	0.	.0	58.0	*	4 APR 1300	86	0.	.0	58.0	
1 APR 1800	19	320.	93.7	67.0	*	3 APR 0400	53	0.	.0	58.0	*	4 APR 1400	87	0.	.0	58.0	
1 APR 1900	20	292.	75.9	65.8	*	3 APR 0500	54	0.	.0	58.0	*	4 APR 1500	88	0.	.0	58.0	
1 APR 2000	21	257.	56.2	64.6	*	3 APR 0600	55	0.	.0	58.0	*	4 APR 1600	89	0.	.0	58.0	
1 APR 2100	22	208.	38.5	63.3	*	3 APR 0700	56	0.	.0	58.0	*	4 APR 1700	90	0.	.0	58.0	
1 APR 2200	23	151.	24.9	62.2	*	3 APR 0800	57	0.	.0	58.0	*	4 APR 1800	91	0.	.0	58.0	
1 APR 2300	24	97.	15.6	61.3	*	3 APR 0900	58	0.	.0	58.0	*	4 APR 1900	92	0.	.0	58.0	
2 APR 0000	25	64.	9.9	60.6	*	3 APR 1000	59	0.	.0	58.0	*	4 APR 2000	93	0.	.0	58.0	
2 APR 0100	26	46.	6.0	60.1	*	3 APR 1100	60	0.	.0	58.0	*	4 APR 2100	94	0.	.0	58.0	
2 APR 0200	27	22.	3.5	59.4	*	3 APR 1200	61	0.	.0	58.0	*	4 APR 2200	95	0.	.0	58.0	
2 APR 0300	28	10.	2.3	58.9	*	3 APR 1300	62	0.	.0	58.0	*	4 APR 2300	96	0.	.0	58.0	
2 APR 0400	29	6.	1.7	58.6	*	3 APR 1400	63	0.	.0	58.0	*	5 APR 0000	97	0.	.0	58.0	
2 APR 0500	30	5.	1.2	58.5	*	3 APR 1500	64	0.	.0	58.0	*	5 APR 0100	98	0.	.0	58.0	
2 APR 0600	31	3.	.9	58.4	*	3 APR 1600	65	0.	.0	58.0	*	5 APR 0200	99	0.	.0	58.0	
2 APR 0700	32	2.	.7	58.3	*	3 APR 1700	66	0.	.0	58.0	*	5 APR 0300	100	0.	.0	58.0	

SJRW20-yr.out

2 APR 0800	33	2.	.5	58.2 *	3 APR 1800	67	0.	.0	58.0 *
2 APR 0900	34	1.	.4	58.1 *	3 APR 1900	68	0.	.0	58.0 *

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)					
		(CFS)					
+	326.	17.00	289.	125.	42.	31.	
		(INCHES)	.622	1.078	1.088	1.088	
		(AC-FT)	144.	249.	251.	251.	

PEAK STORAGE	TIME		6-HR	MAXIMUM AVERAGE STORAGE	24-HR	72-HR	99.00-HR
+	(AC-FT)	(HR)					
	98.	17.00	76.	28.	9.	7.	

PEAK STAGE	TIME		6-HR	MAXIMUM AVERAGE STAGE	24-HR	72-HR	99.00-HR
+	(FEET)	(HR)					
	67.27	17.00	65.83	61.84	59.32	58.96	

CUMULATIVE AREA = 4.33 SQ MI

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 440 KK * SA *
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AREA TRIBUTARY TO SINCLAIR BASIN

444 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 30 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 10 STARTING TIME
 UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
 SINCLAIR BASIN ROUTING REMOVED TO REFLECT EXISTING CONDITIONS
 JCC 21 AUG 2009

SUBBASIN RUNOFF DATA

442 BA SUBBASIN CHARACTERISTICS
 TAREA 4.34 SUBBASIN AREA

PRECIPITATION DATA

443 PB STORM .96 BASIN TOTAL PRECIPITATION

445 PI INCREMENTAL PRECIPITATION PATTERN
 .00 .00 .01 .01 .01 .01 .02 .02 .03

SJR_20-yr.out

.04 .04 .05 .21 .21 .19 .11 .01 .01 .00
.00 .00 .00 .00 .00 .00

450 LU UNIFORM LOSS RATE
STRTL .00 INITIAL LOSS
CNSTL .00 UNIFORM LOSS RATE
RTIMP .00 PERCENT IMPERVIOUS AREA

450 UI INPUT UNITGRAPH, 5 ORDINATES, VOLUME = 1.00
1969.0 624.0 156.0 28.0 22.0

HYDROGRAPH AT STATION SA

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	1.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	10.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	13.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	18.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	21.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	27.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	30.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	38.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	48.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	64.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.04	.00	.04	101.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.04	.00	.04	106.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.05	.00	.05	135.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.20	.00	.20	438.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.20	.00	.20	526.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.18	.00	.18	520.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.10	.00	.10	359.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	114.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	44.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	22.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	15.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	11.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	11.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	11.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	10.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	3.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	1.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	0.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	0.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	0.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	0.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	0.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	0.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	0.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	0.	*	4	APR	1300	86	.00	.00	.00	0.

SJRW_20-yr.out													
2 APR 1200	37	.00	.00	.00	0.	*	4 APR 1400	87	.00	.00	.00	0.	
2 APR 1300	38	.00	.00	.00	0.	*	4 APR 1500	88	.00	.00	.00	0.	
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.	
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.	
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.	
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.	
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.	
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.	
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.	
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.	
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.	
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.	
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.	
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.	

TOTAL RAINFALL = .96, TOTAL LOSS = .00, TOTAL EXCESS = .96

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW		
(CFS)	(HR)			24-HR	72-HR	99.00-HR
+		(CFS)				
+	526.	15.00	348.	112.	37.	27.
		(INCHES)	.746	.960	.963	.963
		(AC-FT)	173.	222.	223.	223.

CUMULATIVE AREA = 4.34 SQ MI

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455 KK

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CP1

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COMBINE ALL SUNNY/MOR BASIN OUTFLOWS

457 HC

HYDROGRAPH COMBINATION

ICOMP

4

NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION CP1
SUM OF 4 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	178.	*	3	APR	0200	51	68.	*

SJRW_20-yr.out														
1 APR 0100	2	3.	*	2 APR 0200	27	145.	*	3 APR 0300	52	50.	*	4 APR 0400	77	0.
1 APR 0200	3	22.	*	2 APR 0300	28	129.	*	3 APR 0400	53	31.	*	4 APR 0500	78	0.
1 APR 0300	4	35.	*	2 APR 0400	29	122.	*	3 APR 0500	54	20.	*	4 APR 0600	79	0.
1 APR 0400	5	47.	*	2 APR 0500	30	118.	*	3 APR 0600	55	10.	*	4 APR 0700	80	0.
1 APR 0500	6	62.	*	2 APR 0600	31	115.	*	3 APR 0700	56	0.	*	4 APR 0800	81	0.
1 APR 0600	7	84.	*	2 APR 0700	32	113.	*	3 APR 0800	57	0.	*	4 APR 0900	82	0.
1 APR 0700	8	102.	*	2 APR 0800	33	111.	*	3 APR 0900	58	0.	*	4 APR 1000	83	0.
1 APR 0800	9	125.	*	2 APR 0900	34	110.	*	3 APR 1000	59	0.	*	4 APR 1100	84	0.
1 APR 0900	10	154.	*	2 APR 1000	35	108.	*	3 APR 1100	60	0.	*	4 APR 1200	85	0.
1 APR 1000	11	186.	*	2 APR 1100	36	107.	*	3 APR 1200	61	0.	*	4 APR 1300	86	0.
1 APR 1100	12	249.	*	2 APR 1200	37	106.	*	3 APR 1300	62	0.	*	4 APR 1400	87	0.
1 APR 1200	13	291.	*	2 APR 1300	38	105.	*	3 APR 1400	63	0.	*	4 APR 1500	88	0.
1 APR 1300	14	357.	*	2 APR 1400	39	104.	*	3 APR 1500	64	0.	*	4 APR 1600	89	0.
1 APR 1400	15	758.	*	2 APR 1500	40	104.	*	3 APR 1600	65	0.	*	4 APR 1700	90	0.
1 APR 1500	16	945.	*	2 APR 1600	41	103.	*	3 APR 1700	66	0.	*	4 APR 1800	91	0.
1 APR 1600	17	1000.	*	2 APR 1700	42	102.	*	3 APR 1800	67	0.	*	4 APR 1900	92	0.
1 APR 1700	18	868.	*	2 APR 1800	43	101.	*	3 APR 1900	68	0.	*	4 APR 2000	93	0.
1 APR 1800	19	615.	*	2 APR 1900	44	100.	*	3 APR 2000	69	0.	*	4 APR 2100	94	0.
1 APR 1900	20	506.	*	2 APR 2000	45	100.	*	3 APR 2100	70	0.	*	4 APR 2200	95	0.
1 APR 2000	21	441.	*	2 APR 2100	46	99.	*	3 APR 2200	71	0.	*	4 APR 2300	96	0.
1 APR 2100	22	377.	*	2 APR 2200	47	98.	*	3 APR 2300	72	0.	*	5 APR 0000	97	0.
1 APR 2200	23	305.	*	2 APR 2300	48	96.	*	4 APR 0000	73	0.	*	5 APR 0100	98	0.
1 APR 2300	24	240.	*	3 APR 0000	49	94.	*	4 APR 0100	74	0.	*	5 APR 0200	99	0.
2 APR 0000	25	201.	*	3 APR 0100	50	85.	*	4 APR 0200	75	0.	*	5 APR 0300	100	0.
			*				*				*			

PEAK FLOW	TIME		MAXIMUM	AVERAGE FLOW		
			6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	1000.	16.00	770.	356.	151.	110.
		(INCHES)	.366	.676	.864	.864
		(AC-FT)	382.	705.	901.	901.
CUMULATIVE AREA =			19.56 SQ MI			

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 458 KK * CP4A *
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TOTAL WATERSHED ABOVE CP4 EXCLUDING BASIN AREAS

462 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 30 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 10 STARTING TIME
 UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

460 BA SUBBASIN CHARACTERISTICS
TAREA 62.87 SUBBASIN AREA

PRECIPITATION DATA

461 PB STORM .85 BASIN TOTAL PRECIPITATION

463 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.01	.01	.01	.01	.01	.02	.02	.03
.04	.04	.05	.21	.21	.19	.11	.01	.01	.00
.00	.00	.00	.00	.00	.00				

468 LU UNIFORM LOSS RATE

STRTL	.00	INITIAL LOSS
CNSTL	.00	UNIFORM LOSS RATE
RTIMP	.00	PERCENT IMPERVIOUS AREA

468 UI INPUT UNITGRAPH, 11 ORDINATES, VOLUME = 1.00
13598.0 14837.0 4768.0 2487.0 1625.0 1087.0 788.0 579.0 300.0 300.0
182.0

HYDROGRAPH AT STATION CP4A

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	8.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	66.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.00	.00	.00	128.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	174.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	223.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	282.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	336.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	407.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	514.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.02	.00	.02	669.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.04	.00	.04	966.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.03	.00	.03	1172.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.05	.00	.05	1396.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.18	.00	.18	3449.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.18	.00	.18	5474.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.16	.00	.16	5942.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.09	.00	.09	5136.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.00	.00	.00	3052.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	1561.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	1057.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	761.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	555.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	425.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	329.	*	4	APR	0200	75	.00	.00	.00	0.

SJRW_20-yr.out												
2 APR 0100	26	.00	.00	.00	242.	*	4 APR 0300	76	.00	.00	.00	0.
2 APR 0200	27	.00	.00	.00	143.	*	4 APR 0400	77	.00	.00	.00	0.
2 APR 0300	28	.00	.00	.00	57.	*	4 APR 0500	78	.00	.00	.00	0.
2 APR 0400	29	.00	.00	.00	25.	*	4 APR 0600	79	.00	.00	.00	0.
2 APR 0500	30	.00	.00	.00	17.	*	4 APR 0700	80	.00	.00	.00	0.
2 APR 0600	31	.00	.00	.00	11.	*	4 APR 0800	81	.00	.00	.00	0.
2 APR 0700	32	.00	.00	.00	7.	*	4 APR 0900	82	.00	.00	.00	0.
2 APR 0800	33	.00	.00	.00	4.	*	4 APR 1000	83	.00	.00	.00	0.
2 APR 0900	34	.00	.00	.00	2.	*	4 APR 1100	84	.00	.00	.00	0.
2 APR 1000	35	.00	.00	.00	1.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	1.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	0.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	0.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .85, TOTAL LOSS = .00, TOTAL EXCESS = .85

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	5942.	16.00	4088.	1431.	480.	349.
		(INCHES)	.605	.847	.853	.853
		(AC-FT)	2027.	2839.	2859.	2859.

CUMULATIVE AREA = 62.87 SQ MI

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 472 KK * SEATA *
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AREA TRIBUTARY TO SEATON BASIN

476 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 30 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 10 STARTING TIME

SJR_20-yr.out
 UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
 SEATON BASIN ROUTING REMOVED TO REFLECT EXISTING CONDITIONS
 JCC 21 AUG 2009

SUBBASIN RUNOFF DATA

474 BA SUBBASIN CHARACTERISTICS
 TAREA 3.01 SUBBASIN AREA

PRECIPITATION DATA

475 PB STORM .97 BASIN TOTAL PRECIPITATION

477 PI INCREMENTAL PRECIPITATION PATTERN
 .00 .00 .01 .01 .01 .01 .01 .01 .02 .02
 .05 .05 .06 .21 .20 .19 .11 .01 .01 .00
 .00 .00 .00 .00 .00 .00

482 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

482 UI INPUT UNITGRAPH, 5 ORDINATES, VOLUME = 1.00
 1433.0 398.0 80.0 21.0 9.0

HYDROGRAPH AT STATION SEATA

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	1.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	7.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	9.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	13.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	15.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	18.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	21.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	25.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	31.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.02	.00	.02	42.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.05	.00	.05	78.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.04	.00	.04	84.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.06	.00	.06	109.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.20	.00	.20	315.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.20	.00	.20	365.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.18	.00	.18	355.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.11	.00	.11	243.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	70.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	25.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	14.	*	3	APR	2200	71	.00	.00	.00	0.

SJ20-yr.out												
1 APR 2100	22	.00	.00	.00	10.	*	3 APR 2300	72	.00	.00	.00	0.
1 APR 2200	23	.00	.00	.00	8.	*	4 APR 0000	73	.00	.00	.00	0.
1 APR 2300	24	.00	.00	.00	8.	*	4 APR 0100	74	.00	.00	.00	0.
2 APR 0000	25	.00	.00	.00	6.	*	4 APR 0200	75	.00	.00	.00	0.
2 APR 0100	26	.00	.00	.00	4.	*	4 APR 0300	76	.00	.00	.00	0.
2 APR 0200	27	.00	.00	.00	1.	*	4 APR 0400	77	.00	.00	.00	0.
2 APR 0300	28	.00	.00	.00	0.	*	4 APR 0500	78	.00	.00	.00	0.
2 APR 0400	29	.00	.00	.00	0.	*	4 APR 0600	79	.00	.00	.00	0.
2 APR 0500	30	.00	.00	.00	0.	*	4 APR 0700	80	.00	.00	.00	0.
2 APR 0600	31	.00	.00	.00	0.	*	4 APR 0800	81	.00	.00	.00	0.
2 APR 0700	32	.00	.00	.00	0.	*	4 APR 0900	82	.00	.00	.00	0.
2 APR 0800	33	.00	.00	.00	0.	*	4 APR 1000	83	.00	.00	.00	0.
2 APR 0900	34	.00	.00	.00	0.	*	4 APR 1100	84	.00	.00	.00	0.
2 APR 1000	35	.00	.00	.00	0.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	0.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	0.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	0.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .97, TOTAL LOSS = .00, TOTAL EXCESS = .97

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	365.	15.00	244.	78.	26.	19.
		(INCHES)	.754	.964	.966	.966
		(AC-FT)	121.	155.	155.	155.

CUMULATIVE AREA = 3.01 SQ MI

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 * *
 487 KK * CP4 *
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TOTAL HYDROGRAPH AT CP4 / NUEVO ROAD

489 HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION CP4
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	424.	*	3	APR	0200	51	68.	*	4	APR	0300	76	0.	*
1	APR	0100	2	11.	*	2	APR	0200	27	289.	*	3	APR	0300	52	50.	*	4	APR	0400	77	0.	*
1	APR	0200	3	96.	*	2	APR	0300	28	186.	*	3	APR	0400	53	31.	*	4	APR	0500	78	0.	*
1	APR	0300	4	172.	*	2	APR	0400	29	147.	*	3	APR	0500	54	20.	*	4	APR	0600	79	0.	*
1	APR	0400	5	233.	*	2	APR	0500	30	135.	*	3	APR	0600	55	10.	*	4	APR	0700	80	0.	*
1	APR	0500	6	300.	*	2	APR	0600	31	126.	*	3	APR	0700	56	0.	*	4	APR	0800	81	0.	*
1	APR	0600	7	383.	*	2	APR	0700	32	120.	*	3	APR	0800	57	0.	*	4	APR	0900	82	0.	*
1	APR	0700	8	459.	*	2	APR	0800	33	115.	*	3	APR	0900	58	0.	*	4	APR	1000	83	0.	*
1	APR	0800	9	557.	*	2	APR	0900	34	112.	*	3	APR	1000	59	0.	*	4	APR	1100	84	0.	*
1	APR	0900	10	699.	*	2	APR	1000	35	110.	*	3	APR	1100	60	0.	*	4	APR	1200	85	0.	*
1	APR	1000	11	897.	*	2	APR	1100	36	108.	*	3	APR	1200	61	0.	*	4	APR	1300	86	0.	*
1	APR	1100	12	1293.	*	2	APR	1200	37	106.	*	3	APR	1300	62	0.	*	4	APR	1400	87	0.	*
1	APR	1200	13	1547.	*	2	APR	1300	38	105.	*	3	APR	1400	63	0.	*	4	APR	1500	88	0.	*
1	APR	1300	14	1862.	*	2	APR	1400	39	104.	*	3	APR	1500	64	0.	*	4	APR	1600	89	0.	*
1	APR	1400	15	4522.	*	2	APR	1500	40	104.	*	3	APR	1600	65	0.	*	4	APR	1700	90	0.	*
1	APR	1500	16	6784.	*	2	APR	1600	41	103.	*	3	APR	1700	66	0.	*	4	APR	1800	91	0.	*
1	APR	1600	17	7297.	*	2	APR	1700	42	102.	*	3	APR	1800	67	0.	*	4	APR	1900	92	0.	*
1	APR	1700	18	6247.	*	2	APR	1800	43	101.	*	3	APR	1900	68	0.	*	4	APR	2000	93	0.	*
1	APR	1800	19	3736.	*	2	APR	1900	44	100.	*	3	APR	2000	69	0.	*	4	APR	2100	94	0.	*
1	APR	1900	20	2092.	*	2	APR	2000	45	100.	*	3	APR	2100	70	0.	*	4	APR	2200	95	0.	*
1	APR	2000	21	1511.	*	2	APR	2100	46	99.	*	3	APR	2200	71	0.	*	4	APR	2300	96	0.	*
1	APR	2100	22	1148.	*	2	APR	2200	47	98.	*	3	APR	2300	72	0.	*	5	APR	0000	97	0.	*
1	APR	2200	23	868.	*	2	APR	2300	48	96.	*	4	APR	0000	73	0.	*	5	APR	0100	98	0.	*
1	APR	2300	24	672.	*	3	APR	0000	49	94.	*	4	APR	0100	74	0.	*	5	APR	0200	99	0.	*
2	APR	0000	25	535.	*	3	APR	0100	50	85.	*	4	APR	0200	75	0.	*	5	APR	0300	100	0.	*

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	99.00-HR
+	(CFS)	(HR)	24-HR	72-HR
+	7297.	16.00	5094.	1856.
			.554	.859
			2526.	3681.
				3915.

CUMULATIVE AREA = 85.44 SQ MI

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490 KK

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* COMB *
*

COMBINED PERRIS VALLEY WITH THE PREVIOUS HYDROGRAPHS

492 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION COMB
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	1202.	*	3	APR	0200	51	7519.	*	4	APR	0300	76	2816.	*
1	APR	0100	2	16.	*	2	APR	0200	27	1208.	*	3	APR	0300	52	7265.	*	4	APR	0400	77	2687.	*
1	APR	0200	3	119.	*	2	APR	0300	28	1281.	*	3	APR	0400	53	6985.	*	4	APR	0500	78	2554.	*
1	APR	0300	4	221.	*	2	APR	0400	29	1516.	*	3	APR	0500	54	6696.	*	4	APR	0600	79	2420.	*
1	APR	0400	5	303.	*	2	APR	0500	30	1821.	*	3	APR	0600	55	6400.	*	4	APR	0700	80	2288.	*
1	APR	0500	6	394.	*	2	APR	0600	31	2179.	*	3	APR	0700	56	6098.	*	4	APR	0800	81	2160.	*
1	APR	0600	7	503.	*	2	APR	0700	32	2474.	*	3	APR	0800	57	5830.	*	4	APR	0900	82	2037.	*
1	APR	0700	8	603.	*	2	APR	0800	33	2928.	*	3	APR	0900	58	5574.	*	4	APR	1000	83	1865.	*
1	APR	0800	9	729.	*	2	APR	0900	34	3566.	*	3	APR	1000	59	5320.	*	4	APR	1100	84	1689.	*
1	APR	0900	10	914.	*	2	APR	1000	35	4636.	*	3	APR	1100	60	5071.	*	4	APR	1200	85	1540.	*
1	APR	1000	11	1176.	*	2	APR	1100	36	6278.	*	3	APR	1200	61	4837.	*	4	APR	1300	86	1414.	*
1	APR	1100	12	1656.	*	2	APR	1200	37	7883.	*	3	APR	1300	62	4623.	*	4	APR	1400	87	1307.	*
1	APR	1200	13	1969.	*	2	APR	1300	38	10580.	*	3	APR	1400	63	4428.	*	4	APR	1500	88	1216.	*
1	APR	1300	14	2431.	*	2	APR	1400	39	11861.	*	3	APR	1500	64	4246.	*	4	APR	1600	89	1138.	*
1	APR	1400	15	5859.	*	2	APR	1500	40	12077.	*	3	APR	1600	65	4074.	*	4	APR	1700	90	1070.	*
1	APR	1500	16	8898.	*	2	APR	1600	41	11782.	*	3	APR	1700	66	3946.	*	4	APR	1800	91	1010.	*
1	APR	1600	17	9561.	*	2	APR	1700	42	11242.	*	3	APR	1800	67	3848.	*	4	APR	1900	92	967.	*
1	APR	1700	18	8276.	*	2	APR	1800	43	10596.	*	3	APR	1900	68	3745.	*	4	APR	2000	93	930.	*
1	APR	1800	19	5097.	*	2	APR	1900	44	9912.	*	3	APR	2000	69	3638.	*	4	APR	2100	94	894.	*
1	APR	1900	20	2988.	*	2	APR	2000	45	9246.	*	3	APR	2100	70	3528.	*	4	APR	2200	95	862.	*
1	APR	2000	21	2235.	*	2	APR	2100	46	8673.	*	3	APR	2200	71	3415.	*	4	APR	2300	96	831.	*
1	APR	2100	22	1791.	*	2	APR	2200	47	8264.	*	3	APR	2300	72	3299.	*	5	APR	0000	97	802.	*
1	APR	2200	23	1486.	*	2	APR	2300	48	8047.	*	4	APR	0000	73	3180.	*	5	APR	0100	98	776.	*
1	APR	2300	24	1304.	*	3	APR	0000	49	7918.	*	4	APR	0100	74	3060.	*	5	APR	0200	99	751.	*
2	APR	0000	25	1217.	*	3	APR	0100	50	7741.	*	4	APR	0200	75	2940.	*	5	APR	0300	100	728.	*

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	99.00-HR
(CFS)	(HR)			24-HR	72-HR
+	12077.	39.00	11301.	8310.	4973.
		(CFS)			
		(INCHES)	.191	.562	1.009
		(AC-FT)	5604.	16483.	29594.
					31455.

CUMULATIVE AREA = 549.92 SQ MI

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 * *
 493 KK * 15B * ROMOLAND SUB-AREA (B-SYSTEM)
 * *

 COMBINE DRAINAGE AREA FOR LINE B AT THE UPSTREAM OF I-215
 PER CDJ. HYDROLOGY INFO. WERE TAKEN FROM MDP BACKUPS
 UHG 30%Foothill

499 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 15 STARTING TIME
 UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

497 BA SUBBASIN CHARACTERISTICS
 TAREA 4.27 SUBBASIN AREA
 SNAP .00 NORMAL ANNUAL PRECIPITATION
 RATIO .30 RATIO OF HYDROGRAPH

PRECIPITATION DATA

498 PB STORM .99 BASIN TOTAL PRECIPITATION

500 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.01	.01	.01	.01	.02	.02	.02
.05	.05	.07	.22	.20	.19	.09	.00	.01	.00
.00	.00	.00	.00	.00	.00				

510 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

510 UI INPUT UNITGRAPH, 5 ORDINATES, VOLUME = 1.00
 1981.0 593.0 134.0 29.0 18.0

HYDROGRAPH AT STATION 15B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
* * * * *															

SJR_20-yr.out

1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	2.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	8.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.00	.00	.00	10.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	17.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	21.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	28.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	31.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	38.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	46.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.02	.00	.02	60.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.05	.00	.05	112.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.05	.00	.05	123.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.07	.00	.07	171.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.22	.00	.22	484.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.20	.00	.20	528.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.19	.00	.19	515.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.09	.00	.09	329.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.00	.00	.00	100.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	36.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	18.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	13.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	11.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	11.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	11.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	9.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	2.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	1.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	0.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	0.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	0.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	0.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	0.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	0.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	0.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	0.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	0.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	0.	*	4	APR	1500	88	.00	.00	.00	0.
2	APR	1400	39	.00	.00	.00	0.	*	4	APR	1600	89	.00	.00	.00	0.
2	APR	1500	40	.00	.00	.00	0.	*	4	APR	1700	90	.00	.00	.00	0.
2	APR	1600	41	.00	.00	.00	0.	*	4	APR	1800	91	.00	.00	.00	0.
2	APR	1700	42	.00	.00	.00	0.	*	4	APR	1900	92	.00	.00	.00	0.
2	APR	1800	43	.00	.00	.00	0.	*	4	APR	2000	93	.00	.00	.00	0.
2	APR	1900	44	.00	.00	.00	0.	*	4	APR	2100	94	.00	.00	.00	0.
2	APR	2000	45	.00	.00	.00	0.	*	4	APR	2200	95	.00	.00	.00	0.
2	APR	2100	46	.00	.00	.00	0.	*	4	APR	2300	96	.00	.00	.00	0.
2	APR	2200	47	.00	.00	.00	0.	*	5	APR	0000	97	.00	.00	.00	0.
2	APR	2300	48	.00	.00	.00	0.	*	5	APR	0100	98	.00	.00	.00	0.
3	APR	0000	49	.00	.00	.00	0.	*	5	APR	0200	99	.00	.00	.00	0.
3	APR	0100	50	.00	.00	.00	0.	*	5	APR	0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .99, TOTAL LOSS = .00, TOTAL EXCESS = .99

PEAK FLOW TIME

MAXIMUM AVERAGE FLOW

					SJR_20-yr.out	
			6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
			(CFS)			
+	528.	15.00				
			(INCHES)			
			(AC-FT)			
			356.	114.	38.	28.
			.776	.990	.993	.993
			177.	225.	226.	226.

CUMULATIVE AREA = 4.27 SQ MI

HYDROGRAPH MULTIPLIED BY .30

HYDROGRAPH AT STATION 15B

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	3.	*	3	APR	0200	51	0.	*	4	APR	0300	76	0.	*
1	APR	0100	2	1.	*	2	APR	0200	27	1.	*	3	APR	0300	52	0.	*	4	APR	0400	77	0.	*
1	APR	0200	3	3.	*	2	APR	0300	28	0.	*	3	APR	0400	53	0.	*	4	APR	0500	78	0.	*
1	APR	0300	4	3.	*	2	APR	0400	29	0.	*	3	APR	0500	54	0.	*	4	APR	0600	79	0.	*
1	APR	0400	5	5.	*	2	APR	0500	30	0.	*	3	APR	0600	55	0.	*	4	APR	0700	80	0.	*
1	APR	0500	6	6.	*	2	APR	0600	31	0.	*	3	APR	0700	56	0.	*	4	APR	0800	81	0.	*
1	APR	0600	7	8.	*	2	APR	0700	32	0.	*	3	APR	0800	57	0.	*	4	APR	0900	82	0.	*
1	APR	0700	8	9.	*	2	APR	0800	33	0.	*	3	APR	0900	58	0.	*	4	APR	1000	83	0.	*
1	APR	0800	9	12.	*	2	APR	0900	34	0.	*	3	APR	1000	59	0.	*	4	APR	1100	84	0.	*
1	APR	0900	10	14.	*	2	APR	1000	35	0.	*	3	APR	1100	60	0.	*	4	APR	1200	85	0.	*
1	APR	1000	11	18.	*	2	APR	1100	36	0.	*	3	APR	1200	61	0.	*	4	APR	1300	86	0.	*
1	APR	1100	12	34.	*	2	APR	1200	37	0.	*	3	APR	1300	62	0.	*	4	APR	1400	87	0.	*
1	APR	1200	13	37.	*	2	APR	1300	38	0.	*	3	APR	1400	63	0.	*	4	APR	1500	88	0.	*
1	APR	1300	14	51.	*	2	APR	1400	39	0.	*	3	APR	1500	64	0.	*	4	APR	1600	89	0.	*
1	APR	1400	15	145.	*	2	APR	1500	40	0.	*	3	APR	1600	65	0.	*	4	APR	1700	90	0.	*
1	APR	1500	16	158.	*	2	APR	1600	41	0.	*	3	APR	1700	66	0.	*	4	APR	1800	91	0.	*
1	APR	1600	17	154.	*	2	APR	1700	42	0.	*	3	APR	1800	67	0.	*	4	APR	1900	92	0.	*
1	APR	1700	18	99.	*	2	APR	1800	43	0.	*	3	APR	1900	68	0.	*	4	APR	2000	93	0.	*
1	APR	1800	19	30.	*	2	APR	1900	44	0.	*	3	APR	2000	69	0.	*	4	APR	2100	94	0.	*
1	APR	1900	20	11.	*	2	APR	2000	45	0.	*	3	APR	2100	70	0.	*	4	APR	2200	95	0.	*
1	APR	2000	21	5.	*	2	APR	2100	46	0.	*	3	APR	2200	71	0.	*	4	APR	2300	96	0.	*
1	APR	2100	22	4.	*	2	APR	2200	47	0.	*	3	APR	2300	72	0.	*	5	APR	0000	97	0.	*
1	APR	2200	23	3.	*	2	APR	2300	48	0.	*	4	APR	0000	73	0.	*	5	APR	0100	98	0.	*
1	APR	2300	24	3.	*	3	APR	0000	49	0.	*	4	APR	0100	74	0.	*	5	APR	0200	99	0.	*
2	APR	0000	25	3.	*	3	APR	0100	50	0.	*	4	APR	0200	75	0.	*	5	APR	0300	100	0.	*

+	(CFS)	(HR)				
			(CFS)			
+	158.	15.00				
			(INCHES)			
			(AC-FT)			
			107.	34.	11.	8.
			.233	.297	.298	.298
			53.	68.	68.	68.

CUMULATIVE AREA = 4.27 SQ MI

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 *
 513 KK * 15B1 * ROMOLAND SUB-AREA (B-SYSTEM)
 *

UHG 70% VALLEY

517 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 15 STARTING TIME
 UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

515 BA SUBBASIN CHARACTERISTICS
 TAREA 4.27 SUBBASIN AREA
 SNAP .00 NORMAL ANNUAL PRECIPITATION
 RATIO .70 RATIO OF HYDROGRAPH

PRECIPITATION DATA

516 PB STORM .99 BASIN TOTAL PRECIPITATION

518 PI INCREMENTAL PRECIPITATION PATTERN
 .00 .00 .00 .01 .01 .01 .01 .02 .02 .02
 .05 .05 .07 .22 .20 .19 .09 .00 .01 .00
 .00 .00 .00 .00 .00 .00

528 LU UNIFORM LOSS RATE
 STRTL .00 INITIAL LOSS
 CNSTL .00 UNIFORM LOSS RATE
 RTIMP .00 PERCENT IMPERVIOUS AREA

528 UI INPUT UNITGRAPH, 6 ORDINATES, VOLUME = 1.00
 1912.0 501.0 188.0 96.0 41.0 16.0

HYDROGRAPH AT STATION 15B1

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	2.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	8.	*	3	APR	0400	53	.00	.00	.00	0.

SJR_20-yr.out

1	APR	0300	4	.00	.00	.00	10.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	16.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	20.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	27.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	31.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	38.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	45.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.02	.00	.02	59.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.05	.00	.05	109.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.05	.00	.05	118.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.07	.00	.07	166.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.22	.00	.22	469.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.20	.00	.20	503.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.19	.00	.19	502.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.09	.00	.09	333.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.00	.00	.00	120.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	61.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	31.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	18.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	13.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	11.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	11.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	9.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	3.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	1.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	1.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	0.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	0.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	0.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	0.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	0.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	0.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	0.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	0.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	0.	*	4	APR	1500	88	.00	.00	.00	0.
2	APR	1400	39	.00	.00	.00	0.	*	4	APR	1600	89	.00	.00	.00	0.
2	APR	1500	40	.00	.00	.00	0.	*	4	APR	1700	90	.00	.00	.00	0.
2	APR	1600	41	.00	.00	.00	0.	*	4	APR	1800	91	.00	.00	.00	0.
2	APR	1700	42	.00	.00	.00	0.	*	4	APR	1900	92	.00	.00	.00	0.
2	APR	1800	43	.00	.00	.00	0.	*	4	APR	2000	93	.00	.00	.00	0.
2	APR	1900	44	.00	.00	.00	0.	*	4	APR	2100	94	.00	.00	.00	0.
2	APR	2000	45	.00	.00	.00	0.	*	4	APR	2200	95	.00	.00	.00	0.
2	APR	2100	46	.00	.00	.00	0.	*	4	APR	2300	96	.00	.00	.00	0.
2	APR	2200	47	.00	.00	.00	0.	*	5	APR	0000	97	.00	.00	.00	0.
2	APR	2300	48	.00	.00	.00	0.	*	5	APR	0100	98	.00	.00	.00	0.
3	APR	0000	49	.00	.00	.00	0.	*	5	APR	0200	99	.00	.00	.00	0.
3	APR	0100	50	.00	.00	.00	0.	*	5	APR	0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .99, TOTAL LOSS = .00, TOTAL EXCESS = .99

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	
				24-HR	72-HR
+	(CFS)	(HR)			99.00-HR
+	503.	15.00	(CFS)	349.	114.
				38.	28.

SJR_20-yr.out

(INCHES)	.759	.989	.992	.992
(AC-FT)	173.	225.	226.	226.

CUMULATIVE AREA = 4.27 SQ MI

HYDROGRAPH MULTIPLIED BY .70

HYDROGRAPH AT STATION 15B1

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	6.	*	3	APR	0200	51	0.	*	4	APR	0300	76	0.	*
1	APR	0100	2	1.	*	2	APR	0200	27	2.	*	3	APR	0300	52	0.	*	4	APR	0400	77	0.	*
1	APR	0200	3	6.	*	2	APR	0300	28	1.	*	3	APR	0400	53	0.	*	4	APR	0500	78	0.	*
1	APR	0300	4	7.	*	2	APR	0400	29	0.	*	3	APR	0500	54	0.	*	4	APR	0600	79	0.	*
1	APR	0400	5	11.	*	2	APR	0500	30	0.	*	3	APR	0600	55	0.	*	4	APR	0700	80	0.	*
1	APR	0500	6	14.	*	2	APR	0600	31	0.	*	3	APR	0700	56	0.	*	4	APR	0800	81	0.	*
1	APR	0600	7	19.	*	2	APR	0700	32	0.	*	3	APR	0800	57	0.	*	4	APR	0900	82	0.	*
1	APR	0700	8	21.	*	2	APR	0800	33	0.	*	3	APR	0900	58	0.	*	4	APR	1000	83	0.	*
1	APR	0800	9	26.	*	2	APR	0900	34	0.	*	3	APR	1000	59	0.	*	4	APR	1100	84	0.	*
1	APR	0900	10	32.	*	2	APR	1000	35	0.	*	3	APR	1100	60	0.	*	4	APR	1200	85	0.	*
1	APR	1000	11	41.	*	2	APR	1100	36	0.	*	3	APR	1200	61	0.	*	4	APR	1300	86	0.	*
1	APR	1100	12	76.	*	2	APR	1200	37	0.	*	3	APR	1300	62	0.	*	4	APR	1400	87	0.	*
1	APR	1200	13	83.	*	2	APR	1300	38	0.	*	3	APR	1400	63	0.	*	4	APR	1500	88	0.	*
1	APR	1300	14	117.	*	2	APR	1400	39	0.	*	3	APR	1500	64	0.	*	4	APR	1600	89	0.	*
1	APR	1400	15	329.	*	2	APR	1500	40	0.	*	3	APR	1600	65	0.	*	4	APR	1700	90	0.	*
1	APR	1500	16	352.	*	2	APR	1600	41	0.	*	3	APR	1700	66	0.	*	4	APR	1800	91	0.	*
1	APR	1600	17	351.	*	2	APR	1700	42	0.	*	3	APR	1800	67	0.	*	4	APR	1900	92	0.	*
1	APR	1700	18	233.	*	2	APR	1800	43	0.	*	3	APR	1900	68	0.	*	4	APR	2000	93	0.	*
1	APR	1800	19	84.	*	2	APR	1900	44	0.	*	3	APR	2000	69	0.	*	4	APR	2100	94	0.	*
1	APR	1900	20	43.	*	2	APR	2000	45	0.	*	3	APR	2100	70	0.	*	4	APR	2200	95	0.	*
1	APR	2000	21	22.	*	2	APR	2100	46	0.	*	3	APR	2200	71	0.	*	4	APR	2300	96	0.	*
1	APR	2100	22	13.	*	2	APR	2200	47	0.	*	3	APR	2300	72	0.	*	5	APR	0000	97	0.	*
1	APR	2200	23	9.	*	2	APR	2300	48	0.	*	4	APR	0000	73	0.	*	5	APR	0100	98	0.	*
1	APR	2300	24	8.	*	3	APR	0000	49	0.	*	4	APR	0100	74	0.	*	5	APR	0200	99	0.	*
2	APR	0000	25	8.	*	3	APR	0100	50	0.	*	4	APR	0200	75	0.	*	5	APR	0300	100	0.	*

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
+	352.	15.00				
		(CFS)	244.	79.	27.	19.
		(INCHES)	.532	.692	.695	.695
		(AC-FT)	121.	158.	158.	158.
		CUMULATIVE AREA =	4.27	SQ	MI	

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 * *
 531 KK * 15B7 * TOTAL ROMOLAND SUB-AREA COMBINED AT THE U/S OF I-215 FWY PER CDJ
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532 HC HYDROGRAPH COMBINATION
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION 15B7
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	9.	*	3	APR	0200	51	0.	*	4	APR	0300	76	0.	*
1	APR	0100	2	2.	*	2	APR	0200	27	3.	*	3	APR	0300	52	0.	*	4	APR	0400	77	0.	*
1	APR	0200	3	8.	*	2	APR	0300	28	1.	*	3	APR	0400	53	0.	*	4	APR	0500	78	0.	*
1	APR	0300	4	10.	*	2	APR	0400	29	0.	*	3	APR	0500	54	0.	*	4	APR	0600	79	0.	*
1	APR	0400	5	16.	*	2	APR	0500	30	0.	*	3	APR	0600	55	0.	*	4	APR	0700	80	0.	*
1	APR	0500	6	20.	*	2	APR	0600	31	0.	*	3	APR	0700	56	0.	*	4	APR	0800	81	0.	*
1	APR	0600	7	27.	*	2	APR	0700	32	0.	*	3	APR	0800	57	0.	*	4	APR	0900	82	0.	*
1	APR	0700	8	31.	*	2	APR	0800	33	0.	*	3	APR	0900	58	0.	*	4	APR	1000	83	0.	*
1	APR	0800	9	38.	*	2	APR	0900	34	0.	*	3	APR	1000	59	0.	*	4	APR	1100	84	0.	*
1	APR	0900	10	46.	*	2	APR	1000	35	0.	*	3	APR	1100	60	0.	*	4	APR	1200	85	0.	*
1	APR	1000	11	60.	*	2	APR	1100	36	0.	*	3	APR	1200	61	0.	*	4	APR	1300	86	0.	*
1	APR	1100	12	110.	*	2	APR	1200	37	0.	*	3	APR	1300	62	0.	*	4	APR	1400	87	0.	*
1	APR	1200	13	120.	*	2	APR	1300	38	0.	*	3	APR	1400	63	0.	*	4	APR	1500	88	0.	*
1	APR	1300	14	168.	*	2	APR	1400	39	0.	*	3	APR	1500	64	0.	*	4	APR	1600	89	0.	*
1	APR	1400	15	474.	*	2	APR	1500	40	0.	*	3	APR	1600	65	0.	*	4	APR	1700	90	0.	*
1	APR	1500	16	510.	*	2	APR	1600	41	0.	*	3	APR	1700	66	0.	*	4	APR	1800	91	0.	*
1	APR	1600	17	506.	*	2	APR	1700	42	0.	*	3	APR	1800	67	0.	*	4	APR	1900	92	0.	*
1	APR	1700	18	332.	*	2	APR	1800	43	0.	*	3	APR	1900	68	0.	*	4	APR	2000	93	0.	*
1	APR	1800	19	114.	*	2	APR	1900	44	0.	*	3	APR	2000	69	0.	*	4	APR	2100	94	0.	*
1	APR	1900	20	53.	*	2	APR	2000	45	0.	*	3	APR	2100	70	0.	*	4	APR	2200	95	0.	*
1	APR	2000	21	27.	*	2	APR	2100	46	0.	*	3	APR	2200	71	0.	*	4	APR	2300	96	0.	*
1	APR	2100	22	16.	*	2	APR	2200	47	0.	*	3	APR	2300	72	0.	*	5	APR	0000	97	0.	*
1	APR	2200	23	12.	*	2	APR	2300	48	0.	*	4	APR	0000	73	0.	*	5	APR	0100	98	0.	*
1	APR	2300	24	11.	*	3	APR	0000	49	0.	*	4	APR	0100	74	0.	*	5	APR	0200	99	0.	*
2	APR	0000	25	11.	*	3	APR	0100	50	0.	*	4	APR	0200	75	0.	*	5	APR	0300	100	0.	*

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	99.00-HR
+	510.	15.00	351.	114.	38.	28.
		(INCHES)	.382	.495	.496	.496

(AC-FT) 174. 225. SJR_20-yr.out
226. 226.
CUMULATIVE AREA = 8.54 SQ MI

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* *
533 KK * H * US@215
* *

US@215
COMBINE THE NUEVO RD., PERRIS, AND ROMOLAND HYDROGRAPHS

536 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION H
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	APR	0000	1	0.	*	2	APR	0100	26	1211.	*	3	APR	0200	51	7519.	*	4	APR	0300	76	2816.
1	APR	0100	2	18.	*	2	APR	0200	27	1211.	*	3	APR	0300	52	7265.	*	4	APR	0400	77	2687.
1	APR	0200	3	127.	*	2	APR	0300	28	1282.	*	3	APR	0400	53	6985.	*	4	APR	0500	78	2554.
1	APR	0300	4	231.	*	2	APR	0400	29	1517.	*	3	APR	0500	54	6696.	*	4	APR	0600	79	2420.
1	APR	0400	5	320.	*	2	APR	0500	30	1821.	*	3	APR	0600	55	6400.	*	4	APR	0700	80	2288.
1	APR	0500	6	414.	*	2	APR	0600	31	2179.	*	3	APR	0700	56	6098.	*	4	APR	0800	81	2160.
1	APR	0600	7	530.	*	2	APR	0700	32	2474.	*	3	APR	0800	57	5830.	*	4	APR	0900	82	2037.
1	APR	0700	8	634.	*	2	APR	0800	33	2928.	*	3	APR	0900	58	5574.	*	4	APR	1000	83	1865.
1	APR	0800	9	767.	*	2	APR	0900	34	3566.	*	3	APR	1000	59	5320.	*	4	APR	1100	84	1689.
1	APR	0900	10	960.	*	2	APR	1000	35	4636.	*	3	APR	1100	60	5071.	*	4	APR	1200	85	1540.
1	APR	1000	11	1236.	*	2	APR	1100	36	6278.	*	3	APR	1200	61	4837.	*	4	APR	1300	86	1414.
1	APR	1100	12	1765.	*	2	APR	1200	37	7883.	*	3	APR	1300	62	4623.	*	4	APR	1400	87	1307.
1	APR	1200	13	2089.	*	2	APR	1300	38	10580.	*	3	APR	1400	63	4428.	*	4	APR	1500	88	1216.
1	APR	1300	14	2599.	*	2	APR	1400	39	11861.	*	3	APR	1500	64	4246.	*	4	APR	1600	89	1138.
1	APR	1400	15	6333.	*	2	APR	1500	40	12077.	*	3	APR	1600	65	4074.	*	4	APR	1700	90	1070.
1	APR	1500	16	9408.	*	2	APR	1600	41	11782.	*	3	APR	1700	66	3946.	*	4	APR	1800	91	1010.
1	APR	1600	17	10067.	*	2	APR	1700	42	11242.	*	3	APR	1800	67	3848.	*	4	APR	1900	92	967.
1	APR	1700	18	8608.	*	2	APR	1800	43	10596.	*	3	APR	1900	68	3745.	*	4	APR	2000	93	930.
1	APR	1800	19	5211.	*	2	APR	1900	44	9912.	*	3	APR	2000	69	3638.	*	4	APR	2100	94	894.
1	APR	1900	20	3042.	*	2	APR	2000	45	9246.	*	3	APR	2100	70	3528.	*	4	APR	2200	95	862.
1	APR	2000	21	2262.	*	2	APR	2100	46	8673.	*	3	APR	2200	71	3415.	*	4	APR	2300	96	831.
1	APR	2100	22	1808.	*	2	APR	2200	47	8264.	*	3	APR	2300	72	3299.	*	5	APR	0000	97	802.
1	APR	2200	23	1499.	*	2	APR	2300	48	8047.	*	4	APR	0000	73	3180.	*	5	APR	0100	98	776.
1	APR	2300	24	1315.	*	3	APR	0000	49	7918.	*	4	APR	0100	74	3060.	*	5	APR	0200	99	751.
2	APR	0000	25	1228.	*	3	APR	0100	50	7741.	*	4	APR	0200	75	2940.	*	5	APR	0300	100	728.

SJR_20-yr.out

PEAK FLOW (CFS)	TIME (HR)		6-HR	24-HR	72-HR	99.00-HR
12077.	39.00	(CFS)	11301.	8310.	5007.	3872.
		(INCHES)	.188	.553	1.000	1.064
		(AC-FT)	5604.	16483.	29794.	31681.

CUMULATIVE AREA = 558.46 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-H/H/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-H/H/FLOW/01APR1992/1HOUR//

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 *
 538 KK * H-I * ROUTE
 *

ROUTE SAN JACINTO RIVER FROM I-215 TO CONCENTRATION POINT I
 BASED ON SV-SQ DATA FROM HEC-RAS Updated 14 Jan 2010
 Time Step (Ave Travel Time = 5.13 Hours - Divide by 1.5 Vw=3.42hr)
 Because of this use NSTPS = 3 jcc 9 Feb 2010

HYDROGRAPH ROUTING DATA

543 RS	STORAGE ROUTING	NSTPS	3	NUMBER OF SUBREACHES
		ITYP	STOR	TYPE OF INITIAL CONDITION
		RSVRIC	-1.00	INITIAL CONDITION
		X	.00	WORKING R AND D COEFFICIENT

544 SV	STORAGE	.0	156.0	291.0	878.0	3673.0	4783.0	5881.0	6288.0	8059.0	10737.0
		13406.0	15955.0	18408.0	20812.0	29306.0	36900.0				

546 SQ	DISCHARGE	0.	500.	1000.	2000.	4000.	6000.	8000.	10000.	15000.	20000.
		25000.	30000.	35000.	40000.	60000.	80000.				

HYDROGRAPH AT STATION H-I

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1	APR	0000	1	0.	.00	*	2	APR	1000	35	2860.	693.17	*	3	APR	2000	69	4672.	1348.64
1	APR	0100	2	0.	.04	*	2	APR	1100	36	2802.	666.31	*	3	APR	2100	70	4499.	1316.73

SJR_20-yr.out

1 APR 0200	3	5.	.49	*	2 APR 1200	37	2770.	651.54	*	3 APR 2200	71	4349.	1288.98
1 APR 0300	4	21.	2.20	*	2 APR 1300	38	2781.	656.29	*	3 APR 2300	72	4225.	1265.88
1 APR 0400	5	57.	5.95	*	2 APR 1400	39	2861.	693.56	*	4 APR 0000	73	4126.	1247.66
1 APR 0500	6	113.	11.76	*	2 APR 1500	40	3089.	799.74	*	4 APR 0100	74	4046.	1232.92
1 APR 0600	7	184.	19.15	*	2 APR 1600	41	3566.	1022.02	*	4 APR 0200	75	3989.	1219.38
1 APR 0700	8	267.	27.75	*	2 APR 1700	42	4703.	1354.46	*	4 APR 0300	76	3957.	1204.53
1 APR 0800	9	360.	37.44	*	2 APR 1800	43	6598.	1703.69	*	4 APR 0400	77	3920.	1187.03
1 APR 0900	10	469.	48.76	*	2 APR 1900	44	8155.	1970.84	*	4 APR 0500	78	3877.	1166.87
1 APR 1000	11	611.	61.99	*	2 APR 2000	45	10017.	2098.04	*	4 APR 0600	79	3828.	1144.05
1 APR 1100	12	776.	76.85	*	2 APR 2100	46	10175.	2116.70	*	4 APR 0700	80	3773.	1118.58
1 APR 1200	13	937.	91.34	*	2 APR 2200	47	9896.	2088.94	*	4 APR 0800	81	3713.	1090.51
1 APR 1300	14	1051.	107.06	*	2 APR 2300	48	9206.	2042.16	*	4 APR 0900	82	3647.	1059.90
1 APR 1400	15	1175.	131.16	*	3 APR 0000	49	8657.	2004.93	*	4 APR 1000	83	3576.	1026.86
1 APR 1500	16	1377.	170.74	*	3 APR 0100	50	8296.	1980.40	*	4 APR 1100	84	3500.	991.43
1 APR 1600	17	1643.	222.74	*	3 APR 0200	51	8085.	1966.13	*	4 APR 1200	85	3419.	953.66
1 APR 1700	18	1965.	285.88	*	3 APR 0300	52	7983.	1957.19	*	4 APR 1300	86	3333.	913.58
1 APR 1800	19	2173.	373.16	*	3 APR 0400	53	7925.	1946.69	*	4 APR 1400	87	3242.	871.25
1 APR 1900	20	2412.	484.62	*	3 APR 0500	54	7839.	1930.94	*	4 APR 1500	88	3146.	826.54
1 APR 2000	21	2672.	605.48	*	3 APR 0600	55	7722.	1909.54	*	4 APR 1600	89	3044.	778.87
1 APR 2100	22	2914.	718.31	*	3 APR 0700	56	7575.	1882.53	*	4 APR 1700	90	2934.	727.79
1 APR 2200	23	3104.	806.88	*	3 APR 0800	57	7399.	1850.30	*	4 APR 1800	91	2817.	673.47
1 APR 2300	24	3240.	870.16	*	3 APR 0900	58	7198.	1813.58	*	4 APR 1900	92	2695.	616.42
2 APR 0000	25	3333.	913.43	*	3 APR 1000	59	6978.	1773.33	*	4 APR 2000	93	2556.	551.68
2 APR 0100	26	3385.	937.79	*	3 APR 1100	60	6745.	1730.58	*	4 APR 2100	94	2398.	478.04
2 APR 0200	27	3400.	944.98	*	3 APR 1200	61	6502.	1686.24	*	4 APR 2200	95	2234.	401.83
2 APR 0300	28	3384.	937.20	*	3 APR 1300	62	6256.	1641.12	*	4 APR 2300	96	2073.	326.68
2 APR 0400	29	3340.	916.95	*	3 APR 1400	63	6009.	1595.90	*	5 APR 0000	97	1825.	258.46
2 APR 0500	30	3276.	886.91	*	3 APR 1500	64	5766.	1551.03	*	5 APR 0100	98	1545.	203.60
2 APR 0600	31	3196.	849.97	*	3 APR 1600	65	5528.	1506.94	*	5 APR 0200	99	1326.	160.75
2 APR 0700	32	3109.	809.22	*	3 APR 1700	66	5296.	1464.14	*	5 APR 0300	100	1153.	127.02
2 APR 0800	33	3020.	767.66	*	3 APR 1800	67	5075.	1423.12	*				
2 APR 0900	34	2935.	728.05	*	3 APR 1900	68	4865.	1384.39	*				

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	10175.	45.00	9363.	7563.	4858.	3838.
		(INCHES)	.156	.504	.970	1.054
		(AC-FT)	4643.	15001.	28905.	31400.

PEAK STORAGE	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(AC-FT)	(HR)				
	2117.	45.00	2054.	1840.	1257.	961.

CUMULATIVE AREA = 558.46 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE H-I/H-I/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER ROUTE H-I/H-I/FLOW/01APR1992/1HOUR//

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*****
*
549 KK      *      15A      *      ROMOLAND SUB-AREA (A-SYSTEM)
*      *
*****
```

COMBINE HOMELAND, ROMOLAND (A-SYSTEM) AND THE REMAINING AREA AT THE
D/S OF I-215 FWY PER CDJ

```
554 IN      TIME DATA FOR INPUT TIME SERIES
              JXMIN      15      TIME INTERVAL IN MINUTES
              JXDATE      1APR92      STARTING DATE
              JXTIME      15      STARTING TIME
              UHG FROM VALLEY S-GRAPH
```

SUBBASIN RUNOFF DATA

```
552 BA      SUBBASIN CHARACTERISTICS
              TAREA      28.11      SUBBASIN AREA
```

PRECIPITATION DATA

```
553 PB      STORM      .93      BASIN TOTAL PRECIPITATION
```

```
555 PI      INCREMENTAL PRECIPITATION PATTERN
              .00      .00      .01      .01      .01      .01      .01      .01      .02      .02
              .04      .04      .06      .22      .20      .19      .09      .01      .01      .00
              .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
```

```
565 LU      UNIFORM LOSS RATE
              STRTL      .00      INITIAL LOSS
              CNSTL      .00      UNIFORM LOSS RATE
              RTIMP      .00      PERCENT IMPERVIOUS AREA
```

```
565 UI      INPUT UNITGRAPH, 9 ORDINATES, VOLUME = 1.00
              7956.0      5752.0      1833.0      981.0      622.0      412.0      267.0      159.0      148.0
```

HYDROGRAPH AT STATION 15A

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	7.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	42.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.01	.00	.01	72.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	99.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	116.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	145.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	172.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	207.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	265.	*	3	APR	1100	60	.00	.00	.00	0.

SJR_20-yr.out

1 APR 1000	11	.02	.00	.02	337.	*	3 APR 1200	61	.00	.00	.00	0.
1 APR 1100	12	.04	.00	.04	523.	*	3 APR 1300	62	.00	.00	.00	0.
1 APR 1200	13	.04	.00	.04	638.	*	3 APR 1400	63	.00	.00	.00	0.
1 APR 1300	14	.06	.00	.06	829.	*	3 APR 1500	64	.00	.00	.00	0.
1 APR 1400	15	.20	.00	.20	2117.	*	3 APR 1600	65	.00	.00	.00	0.
1 APR 1500	16	.18	.00	.18	2826.	*	3 APR 1700	66	.00	.00	.00	0.
1 APR 1600	17	.17	.00	.17	2905.	*	3 APR 1800	67	.00	.00	.00	0.
1 APR 1700	18	.09	.00	.09	2282.	*	3 APR 1900	68	.00	.00	.00	0.
1 APR 1800	19	.01	.00	.01	1207.	*	3 APR 2000	69	.00	.00	.00	0.
1 APR 1900	20	.01	.00	.01	644.	*	3 APR 2100	70	.00	.00	.00	0.
1 APR 2000	21	.00	.00	.00	426.	*	3 APR 2200	71	.00	.00	.00	0.
1 APR 2100	22	.00	.00	.00	297.	*	3 APR 2300	72	.00	.00	.00	0.
1 APR 2200	23	.00	.00	.00	216.	*	4 APR 0000	73	.00	.00	.00	0.
1 APR 2300	24	.00	.00	.00	148.	*	4 APR 0100	74	.00	.00	.00	0.
2 APR 0000	25	.00	.00	.00	108.	*	4 APR 0200	75	.00	.00	.00	0.
2 APR 0100	26	.00	.00	.00	74.	*	4 APR 0300	76	.00	.00	.00	0.
2 APR 0200	27	.00	.00	.00	34.	*	4 APR 0400	77	.00	.00	.00	0.
2 APR 0300	28	.00	.00	.00	15.	*	4 APR 0500	78	.00	.00	.00	0.
2 APR 0400	29	.00	.00	.00	9.	*	4 APR 0600	79	.00	.00	.00	0.
2 APR 0500	30	.00	.00	.00	5.	*	4 APR 0700	80	.00	.00	.00	0.
2 APR 0600	31	.00	.00	.00	3.	*	4 APR 0800	81	.00	.00	.00	0.
2 APR 0700	32	.00	.00	.00	2.	*	4 APR 0900	82	.00	.00	.00	0.
2 APR 0800	33	.00	.00	.00	1.	*	4 APR 1000	83	.00	.00	.00	0.
2 APR 0900	34	.00	.00	.00	0.	*	4 APR 1100	84	.00	.00	.00	0.
2 APR 1000	35	.00	.00	.00	0.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	0.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	0.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	0.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	0.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	0.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	0.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	0.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	0.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	0.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .92, TOTAL LOSS = .00, TOTAL EXCESS = .92

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	2905.	16.00	2012.	695.	233.	169.
		(INCHES)	.666	.920	.924	.924
		(AC-FT)	998.	1379.	1386.	1386.

CUMULATIVE AREA = 28.11 SQ MI

SJR_20-yr.out

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*
568 KK * I *
*

ENTRANCE TO RAILROAD CANYON DAM

570 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION I
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	3459.	*	3	APR	0200	51	8085.	*	4	APR	0300	76	3957.	*
1	APR	0100	2	8.	*	2	APR	0200	27	3434.	*	3	APR	0300	52	7983.	*	4	APR	0400	77	3920.	*
1	APR	0200	3	46.	*	2	APR	0300	28	3399.	*	3	APR	0400	53	7925.	*	4	APR	0500	78	3877.	*
1	APR	0300	4	93.	*	2	APR	0400	29	3349.	*	3	APR	0500	54	7839.	*	4	APR	0600	79	3828.	*
1	APR	0400	5	157.	*	2	APR	0500	30	3281.	*	3	APR	0600	55	7722.	*	4	APR	0700	80	3773.	*
1	APR	0500	6	229.	*	2	APR	0600	31	3200.	*	3	APR	0700	56	7575.	*	4	APR	0800	81	3713.	*
1	APR	0600	7	329.	*	2	APR	0700	32	3111.	*	3	APR	0800	57	7399.	*	4	APR	0900	82	3647.	*
1	APR	0700	8	439.	*	2	APR	0800	33	3021.	*	3	APR	0900	58	7198.	*	4	APR	1000	83	3576.	*
1	APR	0800	9	567.	*	2	APR	0900	34	2935.	*	3	APR	1000	59	6978.	*	4	APR	1100	84	3500.	*
1	APR	0900	10	734.	*	2	APR	1000	35	2860.	*	3	APR	1100	60	6745.	*	4	APR	1200	85	3419.	*
1	APR	1000	11	948.	*	2	APR	1100	36	2802.	*	3	APR	1200	61	6502.	*	4	APR	1300	86	3333.	*
1	APR	1100	12	1299.	*	2	APR	1200	37	2770.	*	3	APR	1300	62	6256.	*	4	APR	1400	87	3242.	*
1	APR	1200	13	1575.	*	2	APR	1300	38	2781.	*	3	APR	1400	63	6009.	*	4	APR	1500	88	3146.	*
1	APR	1300	14	1880.	*	2	APR	1400	39	2861.	*	3	APR	1500	64	5766.	*	4	APR	1600	89	3044.	*
1	APR	1400	15	3291.	*	2	APR	1500	40	3089.	*	3	APR	1600	65	5528.	*	4	APR	1700	90	2934.	*
1	APR	1500	16	4202.	*	2	APR	1600	41	3566.	*	3	APR	1700	66	5296.	*	4	APR	1800	91	2817.	*
1	APR	1600	17	4548.	*	2	APR	1700	42	4703.	*	3	APR	1800	67	5075.	*	4	APR	1900	92	2695.	*
1	APR	1700	18	4248.	*	2	APR	1800	43	6598.	*	3	APR	1900	68	4865.	*	4	APR	2000	93	2556.	*
1	APR	1800	19	3380.	*	2	APR	1900	44	8155.	*	3	APR	2000	69	4672.	*	4	APR	2100	94	2398.	*
1	APR	1900	20	3056.	*	2	APR	2000	45	10017.	*	3	APR	2100	70	4499.	*	4	APR	2200	95	2234.	*
1	APR	2000	21	3097.	*	2	APR	2100	46	10175.	*	3	APR	2200	71	4349.	*	4	APR	2300	96	2073.	*
1	APR	2100	22	3210.	*	2	APR	2200	47	9896.	*	3	APR	2300	72	4225.	*	5	APR	0000	97	1825.	*
1	APR	2200	23	3319.	*	2	APR	2300	48	9206.	*	4	APR	0000	73	4126.	*	5	APR	0100	98	1545.	*
1	APR	2300	24	3387.	*	3	APR	0000	49	8657.	*	4	APR	0100	74	4046.	*	5	APR	0200	99	1326.	*
2	APR	0000	25	3441.	*	3	APR	0100	50	8296.	*	4	APR	0200	75	3989.	*	5	APR	0300	100	1153.	*

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW	
+ (CFS)	(HR)		6-HR 24-HR 72-HR 99.00-HR	
		(CFS)		

+ 10175. 45.00 9363. 7563. SJR_20-yr.out
 (INCHES) .148 .480 4944. 4007.
 (AC-FT) 4643. 15001. 29419. 32786.

CUMULATIVE AREA = 586.57 SQ MI

----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-I/I/FLOW/01MAR1992/1HOUR//
 ----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-I/I/FLOW/01APR1992/1HOUR//

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 * *
 572 KK * I-J *
 * *

ROUTE FROM C.P.I TO C.P.J
 FROM S.J.RIVER STAGE III PLAN & PROFILE, VELOCITY=3.6 FT/SEC
 TRAVEL DISTANCE =24,288 FT.

HYDROGRAPH ROUTING DATA

576 RT TATUM OR STRADDLE-STAGGER ROUTING
 NSTPS 1 NUMBER OF TATUM STEPS
 NSTDL 2 NUMBER OF ORDINATES TO BE AVERAGED
 LAG 0 NUMBER OF INTERVALS TO LAG HYDROGRAPH

HYDROGRAPH AT STATION I-J

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	APR	0000	1	0.	*	2	APR	0100	26	3450.	*	3	APR	0200	51	8191.	*	4	APR	0300	76	3973.	*
1	APR	0100	2	4.	*	2	APR	0200	27	3446.	*	3	APR	0300	52	8034.	*	4	APR	0400	77	3939.	*
1	APR	0200	3	27.	*	2	APR	0300	28	3417.	*	3	APR	0400	53	7954.	*	4	APR	0500	78	3898.	*
1	APR	0300	4	70.	*	2	APR	0400	29	3374.	*	3	APR	0500	54	7882.	*	4	APR	0600	79	3852.	*
1	APR	0400	5	125.	*	2	APR	0500	30	3315.	*	3	APR	0600	55	7781.	*	4	APR	0700	80	3800.	*
1	APR	0500	6	193.	*	2	APR	0600	31	3240.	*	3	APR	0700	56	7649.	*	4	APR	0800	81	3743.	*
1	APR	0600	7	279.	*	2	APR	0700	32	3155.	*	3	APR	0800	57	7487.	*	4	APR	0900	82	3680.	*
1	APR	0700	8	384.	*	2	APR	0800	33	3066.	*	3	APR	0900	58	7298.	*	4	APR	1000	83	3612.	*
1	APR	0800	9	503.	*	2	APR	0900	34	2978.	*	3	APR	1000	59	7088.	*	4	APR	1100	84	3538.	*
1	APR	0900	10	651.	*	2	APR	1000	35	2897.	*	3	APR	1100	60	6861.	*	4	APR	1200	85	3459.	*
1	APR	1000	11	841.	*	2	APR	1100	36	2831.	*	3	APR	1200	61	6623.	*	4	APR	1300	86	3376.	*
1	APR	1100	12	1124.	*	2	APR	1200	37	2786.	*	3	APR	1300	62	6379.	*	4	APR	1400	87	3287.	*
1	APR	1200	13	1437.	*	2	APR	1300	38	2775.	*	3	APR	1400	63	6132.	*	4	APR	1500	88	3194.	*
1	APR	1300	14	1727.	*	2	APR	1400	39	2821.	*	3	APR	1500	64	5887.	*	4	APR	1600	89	3095.	*
1	APR	1400	15	2586.	*	2	APR	1500	40	2975.	*	3	APR	1600	65	5647.	*	4	APR	1700	90	2989.	*
1	APR	1500	16	3747.	*	2	APR	1600	41	3327.	*	3	APR	1700	66	5412.	*	4	APR	1800	91	2876.	*
1	APR	1600	17	4375.	*	2	APR	1700	42	4135.	*	3	APR	1800	67	5185.	*	4	APR	1900	92	2756.	*

1	APR	1700	18	4398.	*	2	APR	1800	43	5650.	*	3	APR	1900	68	4970.	*	4	APR	2000	93	2626.
1	APR	1800	19	3814.	*	2	APR	1900	44	7376.	*	3	APR	2000	69	4769.	*	4	APR	2100	94	2477.
1	APR	1900	20	3218.	*	2	APR	2000	45	9086.	*	3	APR	2100	70	4586.	*	4	APR	2200	95	2316.
1	APR	2000	21	3077.	*	2	APR	2100	46	10096.	*	3	APR	2200	71	4424.	*	4	APR	2300	96	2154.
1	APR	2100	22	3154.	*	2	APR	2200	47	10036.	*	3	APR	2300	72	4287.	*	5	APR	0000	97	1949.
1	APR	2200	23	3265.	*	2	APR	2300	48	9551.	*	4	APR	0000	73	4175.	*	5	APR	0100	98	1685.
1	APR	2300	24	3353.	*	3	APR	0000	49	8932.	*	4	APR	0100	74	4086.	*	5	APR	0200	99	1435.
2	APR	0000	25	3414.	*	3	APR	0100	50	8477.	*	4	APR	0200	75	4018.	*	5	APR	0300	100	1240.
					*						*						*					

SALT CREEK

SUBBASIN RUNOFF DATA

PRECIPITATION DATA

[illegible]

Page 109

RTIMP .00 PERCENT IMPERVIOUS AREA

592 UI

INPUT UNITGRAPH, 41 ORDINATES, VOLUME = 1.00

7481.0	17797.0	13137.0	7282.0	4868.0	3815.0	3168.0	2450.0	2175.0	1830.0
1661.0	1370.0	1145.0	1059.0	994.0	900.0	878.0	780.0	774.0	659.0
659.0	560.0	502.0	502.0	441.0	365.0	365.0	365.0	351.0	133.0
133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0
130.0									

HYDROGRAPH AT STATION 17

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	102.
1	APR	0100	2	.00	.00	.00	17.	*	3	APR	0300	52	.00	.00	.00	97.
1	APR	0200	3	.00	.00	.00	71.	*	3	APR	0400	53	.00	.00	.00	93.
1	APR	0300	4	.01	.00	.01	152.	*	3	APR	0500	54	.00	.00	.00	88.
1	APR	0400	5	.01	.00	.01	236.	*	3	APR	0600	55	.00	.00	.00	74.
1	APR	0500	6	.01	.00	.01	318.	*	3	APR	0700	56	.00	.00	.00	46.
1	APR	0600	7	.01	.00	.01	423.	*	3	APR	0800	57	.00	.00	.00	26.
1	APR	0700	8	.01	.00	.01	536.	*	3	APR	0900	58	.00	.00	.00	8.
1	APR	0800	9	.01	.00	.01	647.	*	3	APR	1000	59	.00	.00	.00	4.
1	APR	0900	10	.02	.00	.02	797.	*	3	APR	1100	60	.00	.00	.00	3.
1	APR	1000	11	.03	.00	.03	1043.	*	3	APR	1200	61	.00	.00	.00	2.
1	APR	1100	12	.03	.00	.03	1298.	*	3	APR	1300	62	.00	.00	.00	2.
1	APR	1200	13	.03	.00	.03	1472.	*	3	APR	1400	63	.00	.00	.00	1.
1	APR	1300	14	.10	.00	.10	2132.	*	3	APR	1500	64	.00	.00	.00	1.
1	APR	1400	15	.21	.00	.21	4337.	*	3	APR	1600	65	.00	.00	.00	1.
1	APR	1500	16	.15	.00	.15	6890.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.14	.00	.14	7722.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.03	.00	.03	7069.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	5228.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	3691.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	2850.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	2330.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	1974.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	1701.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	1512.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	1323.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	1134.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	975.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	864.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	788.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	728.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	669.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	622.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	568.	*	4	APR	1100	84	.00	.00	.00	0.
2	APR	1000	35	.00	.00	.00	526.	*	4	APR	1200	85	.00	.00	.00	0.
2	APR	1100	36	.00	.00	.00	473.	*	4	APR	1300	86	.00	.00	.00	0.
2	APR	1200	37	.00	.00	.00	433.	*	4	APR	1400	87	.00	.00	.00	0.
2	APR	1300	38	.00	.00	.00	397.	*	4	APR	1500	88	.00	.00	.00	0.

SJR_20-yr.out

2 APR 1400	39	.00	.00	.00	358.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	323.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	295.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	273.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	244.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	193.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	157.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	125.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	116.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	112.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	109.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	105.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = .84, TOTAL LOSS = .00, TOTAL EXCESS = .84

PEAK FLOW	TIME		6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)				
		(CFS)				
+	7722.	16.00	5699.	2465.	929.	676.
		(INCHES)	.428	.740	.837	.837
		(AC-FT)	2826.	4889.	5529.	5529.

CUMULATIVE AREA = 123.91 SQ MI

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 * *
 599 KK * 16 * SUBAREA 16
 * *

RAILROAD CANYON

603 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 30 TIME INTERVAL IN MINUTES
 JXDATE 1APR92 STARTING DATE
 JXTIME 15 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

601 BA SUBBASIN CHARACTERISTICS
 TAREA 26.04 SUBBASIN AREA

PRECIPITATION DATA

602 PB STORM 1.08 BASIN TOTAL PRECIPITATION

604 PI INCREMENTAL PRECIPITATION PATTERN
 .00 .00 .00 .01 .01 .01 .01 .01 .02 .03

SJR_20-yr.out

.05 .05 .08 .22 .19 .18 .10 .00 .01 .00
.00 .00 .00 .00 .00 .00

609 LU

UNIFORM LOSS RATE

STRTL .00 INITIAL LOSS
CNSTL .00 UNIFORM LOSS RATE
RTIMP .00 PERCENT IMPERVIOUS AREA

609 UI

INPUT UNITGRAPH, 22 ORDINATES, VOLUME = 1.00

4825.0 4516.0 1821.0 1215.0 851.0 656.0 486.0 402.0 352.0 309.0
264.0 220.0 199.0 147.0 144.0 86.0 53.0 53.0 53.0 53.0
52.5 40.2

HYDROGRAPH AT STATION 16

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	APR	0000	1	.00	.00	.00	0.	*	3	APR	0200	51	.00	.00	.00	0.
1	APR	0100	2	.00	.00	.00	5.	*	3	APR	0300	52	.00	.00	.00	0.
1	APR	0200	3	.00	.00	.00	26.	*	3	APR	0400	53	.00	.00	.00	0.
1	APR	0300	4	.00	.00	.00	45.	*	3	APR	0500	54	.00	.00	.00	0.
1	APR	0400	5	.01	.00	.01	62.	*	3	APR	0600	55	.00	.00	.00	0.
1	APR	0500	6	.01	.00	.01	86.	*	3	APR	0700	56	.00	.00	.00	0.
1	APR	0600	7	.01	.00	.01	113.	*	3	APR	0800	57	.00	.00	.00	0.
1	APR	0700	8	.01	.00	.01	139.	*	3	APR	0900	58	.00	.00	.00	0.
1	APR	0800	9	.01	.00	.01	167.	*	3	APR	1000	59	.00	.00	.00	0.
1	APR	0900	10	.02	.00	.02	208.	*	3	APR	1100	60	.00	.00	.00	0.
1	APR	1000	11	.03	.00	.03	286.	*	3	APR	1200	61	.00	.00	.00	0.
1	APR	1100	12	.05	.00	.05	471.	*	3	APR	1300	62	.00	.00	.00	0.
1	APR	1200	13	.05	.00	.05	620.	*	3	APR	1400	63	.00	.00	.00	0.
1	APR	1300	14	.08	.00	.08	815.	*	3	APR	1500	64	.00	.00	.00	0.
1	APR	1400	15	.23	.00	.23	1715.	*	3	APR	1600	65	.00	.00	.00	0.
1	APR	1500	16	.21	.00	.21	2360.	*	3	APR	1700	66	.00	.00	.00	0.
1	APR	1600	17	.20	.00	.20	2536.	*	3	APR	1800	67	.00	.00	.00	0.
1	APR	1700	18	.10	.00	.10	2215.	*	3	APR	1900	68	.00	.00	.00	0.
1	APR	1800	19	.01	.00	.01	1431.	*	3	APR	2000	69	.00	.00	.00	0.
1	APR	1900	20	.01	.00	.01	917.	*	3	APR	2100	70	.00	.00	.00	0.
1	APR	2000	21	.00	.00	.00	694.	*	3	APR	2200	71	.00	.00	.00	0.
1	APR	2100	22	.00	.00	.00	549.	*	3	APR	2300	72	.00	.00	.00	0.
1	APR	2200	23	.00	.00	.00	456.	*	4	APR	0000	73	.00	.00	.00	0.
1	APR	2300	24	.00	.00	.00	393.	*	4	APR	0100	74	.00	.00	.00	0.
2	APR	0000	25	.00	.00	.00	339.	*	4	APR	0200	75	.00	.00	.00	0.
2	APR	0100	26	.00	.00	.00	287.	*	4	APR	0300	76	.00	.00	.00	0.
2	APR	0200	27	.00	.00	.00	236.	*	4	APR	0400	77	.00	.00	.00	0.
2	APR	0300	28	.00	.00	.00	191.	*	4	APR	0500	78	.00	.00	.00	0.
2	APR	0400	29	.00	.00	.00	159.	*	4	APR	0600	79	.00	.00	.00	0.
2	APR	0500	30	.00	.00	.00	126.	*	4	APR	0700	80	.00	.00	.00	0.
2	APR	0600	31	.00	.00	.00	97.	*	4	APR	0800	81	.00	.00	.00	0.
2	APR	0700	32	.00	.00	.00	75.	*	4	APR	0900	82	.00	.00	.00	0.
2	APR	0800	33	.00	.00	.00	60.	*	4	APR	1000	83	.00	.00	.00	0.
2	APR	0900	34	.00	.00	.00	52.	*	4	APR	1100	84	.00	.00	.00	0.

SJRW_20-yr.out												
2 APR 1000	35	.00	.00	.00	48.	*	4 APR 1200	85	.00	.00	.00	0.
2 APR 1100	36	.00	.00	.00	40.	*	4 APR 1300	86	.00	.00	.00	0.
2 APR 1200	37	.00	.00	.00	28.	*	4 APR 1400	87	.00	.00	.00	0.
2 APR 1300	38	.00	.00	.00	16.	*	4 APR 1500	88	.00	.00	.00	0.
2 APR 1400	39	.00	.00	.00	6.	*	4 APR 1600	89	.00	.00	.00	0.
2 APR 1500	40	.00	.00	.00	2.	*	4 APR 1700	90	.00	.00	.00	0.
2 APR 1600	41	.00	.00	.00	1.	*	4 APR 1800	91	.00	.00	.00	0.
2 APR 1700	42	.00	.00	.00	1.	*	4 APR 1900	92	.00	.00	.00	0.
2 APR 1800	43	.00	.00	.00	1.	*	4 APR 2000	93	.00	.00	.00	0.
2 APR 1900	44	.00	.00	.00	1.	*	4 APR 2100	94	.00	.00	.00	0.
2 APR 2000	45	.00	.00	.00	0.	*	4 APR 2200	95	.00	.00	.00	0.
2 APR 2100	46	.00	.00	.00	0.	*	4 APR 2300	96	.00	.00	.00	0.
2 APR 2200	47	.00	.00	.00	0.	*	5 APR 0000	97	.00	.00	.00	0.
2 APR 2300	48	.00	.00	.00	0.	*	5 APR 0100	98	.00	.00	.00	0.
3 APR 0000	49	.00	.00	.00	0.	*	5 APR 0200	99	.00	.00	.00	0.
3 APR 0100	50	.00	.00	.00	0.	*	5 APR 0300	100	.00	.00	.00	0.

TOTAL RAINFALL = 1.08, TOTAL LOSS = .00, TOTAL EXCESS = 1.08

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW		
(CFS)	(HR)			24-HR	72-HR	99.00-HR
+		(CFS)				
+	2536.	16.00	1854.	726.	251.	183.
		(INCHES)	.662	1.036	1.076	1.076
		(AC-FT)	919.	1439.	1494.	1494.

CUMULATIVE AREA = 26.04 SQ MI

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614 KK *****
 * *
 * J(US) *
 * *

UPSTREAM OF RAILROAD CANYON
 COMBINE THE R.R.CYN., SALT CREEK, & SHALLOW POND OUTFLOW HYDROGRAPHS

617 HC HYDROGRAPH COMBINATION
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION J(US)
 SUM OF 3 HYDROGRAPHS

 * * *

SJRW_20-yr.out																						
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	APR	0000	1	0.	*	2	APR	0100	26	5059.	*	3	APR	0200	51	8292.	*	4	APR	0300	76	3973.
1	APR	0100	2	26.	*	2	APR	0200	27	4817.	*	3	APR	0300	52	8131.	*	4	APR	0400	77	3939.
1	APR	0200	3	124.	*	2	APR	0300	28	4582.	*	3	APR	0400	53	8047.	*	4	APR	0500	78	3898.
1	APR	0300	4	267.	*	2	APR	0400	29	4396.	*	3	APR	0500	54	7970.	*	4	APR	0600	79	3852.
1	APR	0400	5	423.	*	2	APR	0500	30	4228.	*	3	APR	0600	55	7855.	*	4	APR	0700	80	3800.
1	APR	0500	6	597.	*	2	APR	0600	31	4065.	*	3	APR	0700	56	7694.	*	4	APR	0800	81	3743.
1	APR	0600	7	815.	*	2	APR	0700	32	3899.	*	3	APR	0800	57	7513.	*	4	APR	0900	82	3680.
1	APR	0700	8	1059.	*	2	APR	0800	33	3747.	*	3	APR	0900	58	7306.	*	4	APR	1000	83	3612.
1	APR	0800	9	1317.	*	2	APR	0900	34	3598.	*	3	APR	1000	59	7092.	*	4	APR	1100	84	3538.
1	APR	0900	10	1656.	*	2	APR	1000	35	3471.	*	3	APR	1100	60	6865.	*	4	APR	1200	85	3459.
1	APR	1000	11	2171.	*	2	APR	1100	36	3345.	*	3	APR	1200	61	6626.	*	4	APR	1300	86	3376.
1	APR	1100	12	2893.	*	2	APR	1200	37	3247.	*	3	APR	1300	62	6381.	*	4	APR	1400	87	3287.
1	APR	1200	13	3529.	*	2	APR	1300	38	3188.	*	3	APR	1400	63	6134.	*	4	APR	1500	88	3194.
1	APR	1300	14	4675.	*	2	APR	1400	39	3185.	*	3	APR	1500	64	5888.	*	4	APR	1600	89	3095.
1	APR	1400	15	8637.	*	2	APR	1500	40	3299.	*	3	APR	1600	65	5647.	*	4	APR	1700	90	2989.
1	APR	1500	16	12997.	*	2	APR	1600	41	3623.	*	3	APR	1700	66	5412.	*	4	APR	1800	91	2876.
1	APR	1600	17	14633.	*	2	APR	1700	42	4409.	*	3	APR	1800	67	5185.	*	4	APR	1900	92	2756.
1	APR	1700	18	13682.	*	2	APR	1800	43	5896.	*	3	APR	1900	68	4970.	*	4	APR	2000	93	2626.
1	APR	1800	19	10473.	*	2	APR	1900	44	7570.	*	3	APR	2000	69	4769.	*	4	APR	2100	94	2477.
1	APR	1900	20	7826.	*	2	APR	2000	45	9243.	*	3	APR	2100	70	4586.	*	4	APR	2200	95	2316.
1	APR	2000	21	6620.	*	2	APR	2100	46	10221.	*	3	APR	2200	71	4424.	*	4	APR	2300	96	2154.
1	APR	2100	22	6032.	*	2	APR	2200	47	10151.	*	3	APR	2300	72	4287.	*	5	APR	0000	97	1949.
1	APR	2200	23	5694.	*	2	APR	2300	48	9663.	*	4	APR	0000	73	4175.	*	5	APR	0100	98	1685.
1	APR	2300	24	5446.	*	3	APR	0000	49	9041.	*	4	APR	0100	74	4086.	*	5	APR	0200	99	1435.
2	APR	0000	25	5265.	*	3	APR	0100	50	8582.	*	4	APR	0200	75	4018.	*	5	APR	0300	100	1240.

PEAK FLOW		TIME		MAXIMUM AVERAGE FLOW			
				6-HR	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)	(CFS)				
+	14633.	16.00		11206.	7619.	5964.	4859.
			(INCHES)	.141	.385	.903	1.012
			(AC-FT)	5557.	15113.	35487.	39757.

CUMULATIVE AREA = 736.52 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-J(US)/J(US)/FLOW/01MAR1992/1HOUR//
-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-J(US)/J(US)/FLOW/01APR1992/1HOUR//

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* *
619 KK J(DS) RAILROAD CANYON DAM
* *

RATING CURVE WAS OBTAINED FROM PREVIOUS WORK DONE BY COOK, DATED 10/2/73

HYDROGRAPH ROUTING DATA

SJR_20-yr.out

621 RS	STORAGE ROUTING	NSTPS	1	NUMBER OF SUBREACHES	STOR	TYPE OF INITIAL CONDITION	RSVRIC	.00	INITIAL CONDITION	X	.00	WORKING R AND D COEFFICIENT
622 SV	STORAGE	.0	835.9	1671.9	2507.8	3343.7	4179.7	5015.6	5851.5	6687.5	7523.4	
		8359.3	9195.3	10031.2	10867.1	11703.1	12539.0	13375.0	14210.9	15046.8	15214.0	
624 SE	ELEVATION	1381.80	1382.80	1383.80	1384.80	1385.80	1386.80	1387.80	1388.80	1389.80	1390.80	
		1391.80	1392.80	1393.80	1394.80	1395.80	1396.80	1397.80	1398.80	1399.80	1400.00	
626 SQ	DISCHARGE	0.	538.	1592.	3024.	4765.	6851.	9204.	11781.	14614.	17699.	
		21031.	24547.	28216.	32091.	36078.	41478.	48467.	55911.	64285.	66000.	

HYDROGRAPH AT STATION J(DS)

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	APR	0000	1	0.	.0	1381.8	*	2	APR	1000	35	4372.	3154.9	1385.6	*	3	APR	2000	69	5779.	3749.8	1386.3
1	APR	0100	2	1.	1.0	1381.8	*	2	APR	1100	36	4219.	3081.5	1385.5	*	3	APR	2100	70	5573.	3667.3	1386.2
1	APR	0200	3	5.	7.0	1381.8	*	2	APR	1200	37	4073.	3011.3	1385.4	*	3	APR	2200	71	5373.	3587.3	1386.1
1	APR	0300	4	14.	22.4	1381.8	*	2	APR	1300	38	3937.	2946.2	1385.3	*	3	APR	2300	72	5183.	3511.1	1386.0
1	APR	0400	5	32.	48.9	1381.9	*	2	APR	1400	39	3818.	2889.1	1385.3	*	4	APR	0000	73	5005.	3439.8	1385.9
1	APR	0500	6	56.	87.5	1381.9	*	2	APR	1500	40	3727.	2845.3	1385.2	*	4	APR	0100	74	4842.	3374.3	1385.8
1	APR	0600	7	90.	139.8	1382.0	*	2	APR	1600	41	3685.	2825.1	1385.2	*	4	APR	0200	75	4705.	3314.7	1385.8
1	APR	0700	8	134.	208.0	1382.0	*	2	APR	1700	42	3737.	2850.3	1385.2	*	4	APR	0300	76	4592.	3260.7	1385.7
1	APR	0800	9	188.	292.8	1382.2	*	2	APR	1800	43	3962.	2957.9	1385.3	*	4	APR	0400	77	4491.	3212.3	1385.6
1	APR	0900	10	256.	397.3	1382.3	*	2	APR	1900	44	4401.	3168.8	1385.6	*	4	APR	0500	78	4401.	3168.7	1385.6
1	APR	1000	11	342.	530.7	1382.4	*	2	APR	2000	45	5084.	3471.6	1386.0	*	4	APR	0600	79	4317.	3128.7	1385.5
1	APR	1100	12	455.	707.0	1382.6	*	2	APR	2100	46	5953.	3819.8	1386.4	*	4	APR	0700	80	4240.	3091.4	1385.5
1	APR	1200	13	652.	926.6	1382.9	*	2	APR	2200	47	6745.	4136.9	1386.7	*	4	APR	0800	81	4165.	3055.7	1385.5
1	APR	1300	14	994.	1197.6	1383.2	*	2	APR	2300	48	7392.	4371.6	1387.0	*	4	APR	0900	82	4093.	3021.2	1385.4
1	APR	1400	15	1554.	1642.4	1383.8	*	3	APR	0000	49	7800.	4516.7	1387.2	*	4	APR	1000	83	4022.	2987.1	1385.4
1	APR	1500	16	2767.	2357.8	1384.6	*	3	APR	0100	50	8011.	4591.6	1387.3	*	4	APR	1100	84	3951.	2953.1	1385.3
1	APR	1600	17	4467.	3200.6	1385.6	*	3	APR	0200	51	8100.	4623.2	1387.3	*	4	APR	1200	85	3880.	2918.6	1385.3
1	APR	1700	18	6225.	3928.8	1386.5	*	3	APR	0300	52	8123.	4631.5	1387.3	*	4	APR	1300	86	3806.	2883.5	1385.2
1	APR	1800	19	7373.	4365.0	1387.0	*	3	APR	0400	53	8116.	4628.9	1387.3	*	4	APR	1400	87	3731.	2847.4	1385.2
1	APR	1900	20	7743.	4496.5	1387.2	*	3	APR	0500	54	8094.	4621.0	1387.3	*	4	APR	1500	88	3653.	2810.0	1385.2
1	APR	2000	21	7635.	4458.0	1387.1	*	3	APR	0600	55	8056.	4607.6	1387.3	*	4	APR	1600	89	3573.	2771.3	1385.1
1	APR	2100	22	7362.	4361.1	1387.0	*	3	APR	0700	56	7997.	4586.8	1387.3	*	4	APR	1700	90	3489.	2730.9	1385.1
1	APR	2200	23	7050.	4250.1	1386.9	*	3	APR	0800	57	7915.	4557.6	1387.3	*	4	APR	1800	91	3400.	2688.6	1385.0
1	APR	2300	24	6753.	4140.1	1386.8	*	3	APR	0900	58	7810.	4520.2	1387.2	*	4	APR	1900	92	3308.	2644.1	1385.0
2	APR	0000	25	6491.	4035.5	1386.6	*	3	APR	1000	59	7683.	4475.0	1387.2	*	4	APR	2000	93	3210.	2597.2	1384.9
2	APR	0100	26	6243.	3935.9	1386.5	*	3	APR	1100	60	7536.	4422.8	1387.1	*	4	APR	2100	94	3106.	2547.0	1384.8
2	APR	0200	27	5999.	3838.1	1386.4	*	3	APR	1200	61	7371.	4364.3	1387.0	*	4	APR	2200	95	2998.	2492.9	1384.8
2	APR	0300	28	5756.	3740.7	1386.3	*	3	APR	1300	62	7190.	4300.1	1386.9	*	4	APR	2300	96	2897.	2434.0	1384.7
2	APR	0400	29	5519.	3645.8	1386.2	*	3	APR	1400	63	6996.	4231.0	1386.9	*	5	APR	0000	97	2785.	2368.7	1384.6
2	APR	0500	30	5293.	3555.4	1386.1	*	3	APR	1500	64	6797.	4157.8	1386.8	*	5	APR	0100	98	2657.	2293.9	1384.5
2	APR	0600	31	5079.	3469.5	1386.0	*	3	APR	1600	65	6604.	4080.7	1386.7	*	5	APR	0200	99	2512.	2209.3	1384.4
2	APR	0700	32	4874.	3387.3	1385.9	*	3	APR	1700	66	6404.	4000.2	1386.6	*	5	APR	0300	100	2357.	2118.6	1384.3

SJRW20-yr.out

2 APR 0800	33	4691.	3308.0	1385.8	*	3 APR 1800	67	6197.	3917.5	1386.5	*
2 APR 0900	34	4529.	3230.5	1385.7	*	3 APR 1900	68	5988.	3833.6	1386.4	*

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	99.00-HR
+	(CFS)	(HR)					
+	8123.	51.00	(CFS)	8082.	7269.	5727.	4600.
			(INCHES)	.102	.367	.868	.958
			(AC-FT)	4008.	14418.	34077.	37639.

PEAK STORAGE	TIME		6-HR	MAXIMUM AVERAGE STORAGE	24-HR	72-HR	99.00-HR
+	(AC-FT)	(HR)					
+	4631.	51.00		4617.	4320.	3699.	3070.

PEAK STAGE	TIME		6-HR	MAXIMUM AVERAGE STAGE	24-HR	72-HR	99.00-HR
+	(FEET)	(HR)					
+	1387.34	51.00		1387.32	1386.97	1386.23	1385.47

CUMULATIVE AREA = 736.52 SQ MI

-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-J(DS)/J(DS)/FLOW/01MAR1992/1HOUR//
 -----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-J(DS)/J(DS)/FLOW/01APR1992/1HOUR//
 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	6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
+											
+	HYDROGRAPH AT	2	22092.	18.00	17622.	8019.	3132.	178.50			
+	HYDROGRAPH AT	3	4656.	18.00	3563.	1526.	574.	51.38			
+	HYDROGRAPH AT	4	2335.	17.00	1731.	676.	233.	15.76			
+	3 COMBINED AT	A	28839.	18.00	22837.	10206.	3939.	245.64			
+	ROUTED TO	A-B	28571.	18.00	22603.	10205.	3939.	245.64			
+	HYDROGRAPH AT	6	4523.	16.00	3405.	1405.	497.	35.42			
+	HYDROGRAPH AT	5	1212.	15.00	876.	346.	120.	12.07			

SJR_20-yr.out								
+	3 COMBINED AT	B	32557.	18.00	26366.	11922.	4556.	293.13
+	HYDROGRAPH AT	7	639.	15.00	466.	174.	59.	5.64
+	2 COMBINED AT	C	32795.	18.00	26683.	12087.	4615.	298.77
+	HYDROGRAPH AT	8	877.	15.00	617.	233.	79.	9.73
+	2 COMBINED AT	D	33108.	18.00	27109.	12302.	4694.	308.50
+	HYDROGRAPH AT	9	3571.	15.00	2524.	961.	329.	43.98
+	2 COMBINED AT	E	34442.	18.00	28879.	13209.	5022.	352.48
+	ROUTED TO	E-F	18600.	24.00	17451.	10615.	4264.	352.48
+	HYDROGRAPH AT	10	1586.	16.00	1152.	431.	146.	17.90
+	HYDROGRAPH AT	11	1417.	16.00	1014.	380.	129.	18.10
+	3 COMBINED AT	F	18863.	24.00	17658.	10745.	4464.	388.48
+	ROUTED TO	F-F1	15992.	27.00	15400.	10616.	4437.	388.48
+	ROUTED TO	F1-G	13870.	32.00	13521.	9964.	4411.	388.48
+	HYDROGRAPH AT	12A	363.	14.00	227.	75.	25.	12.26
+	HYDROGRAPH AT	12A1	818.	14.00	517.	174.	58.	12.26
+	3 COMBINED AT	G	13870.	32.00	13521.	9967.	4461.	413.00
+	ROUTED TO	G-H	11972.	39.00	11196.	8236.	4374.	413.00
+	HYDROGRAPH AT	13	820.	16.00	591.	232.	81.	25.74
+	HYDROGRAPH AT	13	1386.	16.00	981.	358.	121.	25.74

SJRW_20-yr.out									
+	3 COMBINED AT	NUEVDS	11974.	39.00	11198.	8238.	4414.	464.48	
+	HYDROGRAPH AT	14	790.	16.00	524.	176.	59.	9.03	
+	ROUTED TO	PB	108.	19.00	107.	105.	59.	9.03	
+									1682.20 19.00
+	HYDROGRAPH AT	IA	115.	15.00	73.	23.	8.	1.17	
+	2 COMBINED AT	IA	217.	15.00	173.	123.	67.	10.20	
+	ROUTED TO	IB	142.	17.00	137.	120.	67.	10.20	
+									1641.30 17.00
+	HYDROGRAPH AT	LA	72.	15.00	46.	15.	5.	.69	
+	ROUTED TO	LB	40.	17.00	35.	15.	5.	.69	
+									1739.12 17.00
+	HYDROGRAPH AT	NA	578.	15.00	395.	126.	42.	4.33	
+	ROUTED TO	NB	326.	17.00	289.	125.	42.	4.33	
+									67.27 17.00
+	HYDROGRAPH AT	SA	526.	15.00	348.	112.	37.	4.34	
+	4 COMBINED AT	CP1	1000.	16.00	770.	356.	151.	19.56	
+	HYDROGRAPH AT	CP4A	5942.	16.00	4088.	1431.	480.	62.87	
+	HYDROGRAPH AT	SEATA	365.	15.00	244.	78.	26.	3.01	
+	3 COMBINED AT	CP4	7297.	16.00	5094.	1856.	658.	85.44	
+	2 COMBINED AT	COMB	12077.	39.00	11301.	8310.	4973.	549.92	
+	HYDROGRAPH AT	15B	158.	15.00	107.	34.	11.	4.27	
+	HYDROGRAPH AT	15B1	352.	15.00	244.	79.	27.	4.27	

SJR_20-yr.out

+	2 COMBINED AT	15B7	510.	15.00	351.	114.	38.	8.54		
+	2 COMBINED AT	H	12077.	39.00	11301.	8310.	5007.	558.46		
+	ROUTED TO	H-I	10175.	45.00	9363.	7563.	4858.	558.46		
+	HYDROGRAPH AT	15A	2905.	16.00	2012.	695.	233.	28.11		
+	2 COMBINED AT	I	10175.	45.00	9363.	7563.	4944.	586.57		
+	ROUTED TO	I-J	10096.	45.00	9288.	7553.	4940.	586.57		
+	HYDROGRAPH AT	17	7722.	16.00	5699.	2465.	929.	123.91		
+	HYDROGRAPH AT	16	2536.	16.00	1854.	726.	251.	26.04		
+	3 COMBINED AT	J(US)	14633.	16.00	11206.	7619.	5964.	736.52		
+	ROUTED TO	J(DS)	8123.	51.00	8082.	7269.	5727.	736.52	1387.34	51.00
+										

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

-----DSS---ZCLOSE Unit: 71, File: H1DSS.DSS
 Pointer Utilization: .27
 Number of Records: 40
 File Size: 152.9 Kbytes
 Percent Inactive: .0