

APPENDIX A

Sample File Input (Run 42)

42.ih1

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IDSanta Margarita Watershed
IT 30 120
IO 0 0
KKNode26
KM
KO 22
BA 50.52
KM SANTA MARGARITA STORMS
PB 1.61
IN 15
PI 0.027 0.031 0.034 0.035 0.039 0.039 0.039 0.040 0.042 0.043
PI 0.045 0.048 0.052 0.055 0.069 0.076 0.087 0.100 0.111 0.121
PI 0.171 0.233 0.055 0.016
LS 76.4
KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
UI 953. 1172. 1481. 2075. 2104. 3231. 3827. 6496. 10406. 4971.
UI 3858. 2366. 2228. 2042. 1914. 1510. 1318. 1300. 1128. 1047.
UI 971. 893. 726. 708. 650. 637. 529. 529. 437. 386.
UI 386. 344. 231. 231. 231. 231. 119. 49. 49.
UI 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3
UI 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3
UI 49.3 49.3 49.3 40.6
KKSkinne
KM
KO 22
RS 1 STOR 43800
SV 0 22284 23921 25559 27331 29104 30949 32866 34783 43800
SV 44072 44616 45160 45568 45840 46520 47900 49300 50667 52000
SQ 0 .1 .2 .3 .4 .5 .6 .7 .8 1.2
SQ 65 365 820 1250 1495 2250 4400 7125 10250 13750
KK14
KM
KO 22
RD 33528 .0095 .04 TRAP 200 5
KKNode2
KM
KO 22
BA 8.1
KM SANTA MARGARITA STORMS
PB 1.39
IN 15
PI 0.024 0.026 0.029 0.031 0.033 0.033 0.033 0.035 0.036 0.038
PI 0.039 0.042 0.044 0.050 0.060 0.065 0.075 0.086 0.096 0.104
PI 0.147 0.202 0.047 0.014
LS 77.6
KM UHG FROM VALLEY S-GRAPH
UI 260. 381. 555. 812. 990. 1129. 1059. 804. 553. 459.
UI 359. 297. 260. 215. 199. 169. 151. 139. 119. 112.
UI 99.0 96.1 87.3 87.3 71.7 69.0 69.0 57.4 55.0 55.0
UI 54.6 43.7 43.7 43.7 43.7 40.1 28.8 28.8 28.8 28.8
UI 28.8 28.8 28.8 14.3 14.2 14.2 14.2 14.2 14.2 14.2
UI 14.2 14.2 14.2 14.2 14.2 14.2 14.2 10.2
KKNode6
KM
KO 22
BA 27.55
KM SANTA MARGARITA STORMS
PB 1.46
IN 15
PI 0.025 0.028 0.031 0.032 0.035 0.035 0.035 0.036 0.038 0.039
PI 0.041 0.044 0.047 0.053 0.063 0.069 0.079 0.091 0.101 0.110
PI 0.155 0.212 0.050 0.015
LS 75.1
KM UHG FROM VALLEY S-GRAPH
UI 491. 581. 742. 929. 1158. 1485. 1727. 1964. 2154. 2235.
UI 1977. 2201. 1682. 1436. 1076. 982. 896. 736. 674. 589.
UI 588. 491. 452. 421. 396. 389. 327. 327. 286. 281.
UI 265. 236. 236. 222. 196. 196. 196. 180. 173. 173.
UI 173. 151. 137. 137. 137. 137. 125. 109. 109. 109.
UI 109. 109. 109. 88. 87. 87. 87. 87. 87. 87.
UI 86.6 65.6 57.2 57.2 57.2 57.2 57.2 57.2 57.2 57.2
UI 57.2 57.2 57.2 48.8 28.2 28.2 28.2 28.2 28.2 28.2
UI 28.2 28.2 28.2 28.2 28.2 28.2 28.2 28.2 28.2 28.2
UI 28.2 28.2 28.2 28.2 28.2 28.2 28.2 26.1
KKNode73
KM
KO 22
IC 3
KK13
KM
KO 22
ID 7762 .0025 .04 TRAP 200 5
KKNode31
KM
KO 22
A 2.65
M SANTA MARGARITA STORMS
B 1.37
N 15
I 0.023 0.026 0.029 0.030 0.033 0.033 0.033 0.034 0.036 0.037
I 0.038 0.041 0.044 0.049 0.059 0.064 0.074 0.085 0.095 0.103
I 0.145 0.199 0.047 0.014

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LS      77.4
KM UHG FROM VALLEY S-GRAPH
UI 161. 299. 505. 601. 448. 266. 183. 144. 111. 91.
UI 74.3 63.0 53.4 48.3 43.5 37.3 33.2 29.7 28.2 23.6
UI 23.6 20.9 15.6 15.6 15.6 15.6 8.1 7.7 7.7 7.7
UI 7.7 7.7 7.7 7.7 7.4
KKNode71
KM
KO      22
HC      2
KK12
KM
KO      22
RD 6019 .0044 .04 TRAP 200 5
KKNode9
KM
KO      22
BA 2.52
KM SANTA MARGARITA STORMS
PB 1.42
IN 15
PI 0.024 0.027 0.030 0.031 0.034 0.034 0.034 0.035 0.037 0.039
PI 0.040 0.043 0.045 0.051 0.061 0.067 0.077 0.088 0.098 0.106
PI 0.151 0.206 0.048 0.014
LS      75.5
KM UHG FROM VALLEY S-GRAPH
UI 187. 387. 613. 596. 339. 212. 156. 119. 92. 75.
UI 62.0 54.5 47.9 41.1 34.4 32.7 27.3 26.0 23.2 17.0
UI 17.2 17.2 12.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5
UI 1.4
KKNode70
KM
KO      22
HC      2
KKNode27
KM
KO      22
BA 16.92
KM SANTA MARGARITA STORMS
PB 1.48
IN 15
PI 0.025 0.028 0.031 0.033 0.036 0.036 0.036 0.037 0.038 0.040
PI 0.041 0.044 0.047 0.053 0.064 0.070 0.080 0.092 0.102 0.111
PI 0.157 0.215 0.050 0.015
LS      81.9
KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
UI 411. 571. 838. 927. 1463. 2148. 4296. 1997. 1445. 943.
UI 880. 773. 590. 560. 482. 441. 386. 319. 296. 280.
UI 234. 228. 168. 167. 143. 99. 99. 99. 99. 25.
UI 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2
UI 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 12.5
KK17
KM
KO      22
RD 55334 .0039 .04 TRAP 200 5
KKNode1
KM
KO      22
BA 22.37
KM SANTA MARGARITA STORMS
PB 1.37
IN 15
PI 0.023 0.026 0.029 0.030 0.033 0.033 0.033 0.034 0.036 0.037
PI 0.038 0.041 0.044 0.049 0.059 0.064 0.074 0.085 0.095 0.103
PI 0.145 0.199 0.047 0.014
LS      77.7
KM UHG FROM VALLEY S-GRAPH
UI 958. 1567. 2498. 3394. 3836. 3421. 2176. 1593. 1187. 984.
UI 785. 696. 574. 493. 427. 383. 345. 314. 304. 248.
UI 241. 217. 192. 192. 173. 152. 152. 152. 117. 101.
UI 101. 101. 101. 101. 53. 50. 50. 50. 50. 50.
UI 49.5 49.5 49.5 49.5 49.5 35.3
KKNode3
KM
KO      22
BA 18.4
KM SANTA MARGARITA STORMS
PB 1.37
IN 15
PI 0.023 0.026 0.029 0.030 0.033 0.033 0.033 0.034 0.036 0.037
PI 0.038 0.041 0.044 0.049 0.059 0.064 0.074 0.085 0.095 0.103
PI 0.145 0.199 0.047 0.014
LS      78.9
KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
UI 644. 1005. 1367. 2169. 5078. 3567. 1871. 1346. 1148. 846.
UI 756. 647. 538. 443. 408. 333. 282. 243. 183. 145.
UI 145. 107. 31. 31. 31. 31. 31. 31. 31. 31.
UI 31.0 31.0 31.0 31.0 31.0 31.0 30.6
KKNode66
KM
KO      22
HC      3

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KK16
KM
KO
RD 32736 .0069 .04 TRAP 200 5
KKNode4
KM
KO
BA 5.69
KM SANTA MARGARITA STORMS
PB 1.48
IN 15
PI 0.025 0.028 0.031 0.033 0.036 0.036 0.036 0.037 0.038 0.040
PI 0.041 0.044 0.047 0.053 0.064 0.070 0.080 0.092 0.102 0.111
PI 0.157 0.215 0.050 0.015
LS 78.7
KM UHG FROM VALLEY S-GRAPH
UI 278. 488. 807. 1030. 1079. 729. 476. 344. 279. 220.
UI 187. 155. 133. 116. 98. 91. 87. 70. 68. 58.
UI 54.5 53.9 43.3 43.3 43.3 33.5 28.6 28.6 28.6 28.6
UI 20.9 14.1 14.1 14.1 14.1 14.1 14.1 14.1 14.1 14.1
UI 12.6
KKNode75
KM
KO
HC 2
KKNode33
KM
KO
BA 18.46
KM SANTA MARGARITA STORMS
PB 2.14
IN 15
PI 0.036 0.041 0.045 0.047 0.051 0.051 0.051 0.054 0.056 0.058
PI 0.060 0.064 0.068 0.077 0.092 0.101 0.116 0.133 0.148 0.161
PI 0.227 0.310 0.073 0.021
LS 77.2
KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
UI 1631. 3501. 8638. 3253. 2017. 1416. 995. 747. 534. 341.
UI 270. 62. 62. 62. 62. 62. 62. 62. 40.
KK19
KM
KO
RD 8818 .006 .035 TRAP 50 2
KKNode32
KM
KO
BA 8.74
KM SANTA MARGARITA STORMS
PB 2.08
IN 15
PI 0.035 0.040 0.044 0.046 0.050 0.050 0.050 0.052 0.054 0.056
PI 0.058 0.062 0.067 0.075 0.089 0.098 0.112 0.129 0.144 0.156
PI 0.220 0.302 0.071 0.021
LS 76.7
KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
UI 361. 604. 887. 1636. 2757. 1122. 729. 607. 451. 384.
UI 324. 256. 224. 186. 151. 132. 84. 79. 77. 17.
UI 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8
UI 16.8 16.8 6.4
KKNode64
KM
KO
HC 2
KK18
KM
KO
RD 31786 .0029 .035 TRAP 50 2
KKNode5
KM
KO
BA 30.47
KM SANTA MARGARITA STORMS
PB 1.75
IN 15
PI 0.030 0.033 0.037 0.038 0.042 0.042 0.042 0.044 0.045 0.047
PI 0.049 0.052 0.056 0.063 0.075 0.082 0.095 0.108 0.121 0.131
PI 0.186 0.254 0.060 0.018
LS 79.3
KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
UI 761. 1076. 1558. 1803. 2776. 4638. 7461. 3337. 2379. 1742.
UI 1621. 1285. 1057. 991. 853. 771. 667. 570. 521. 477.
UI 423. 357. 308. 306. 184. 184. 184. 184. 75. 39.
UI 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3
UI 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3 9.0
KKNode76
KM
KO
HC 2
KKNode61
KM
KO
HC 2

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KK15
KM
KO
RD 845 .0018 .035 22 TRAP 50 2
KKNode10
KM
KO 22
BA 0.18
KM SANTA MARGARITA STORMS
PB 1.45
IN 15
PI 0.025 0.028 0.030 0.032 0.035 0.035 0.035 0.036 0.038 0.039
PI 0.041 0.044 0.046 0.052 0.062 0.068 0.078 0.090 0.100 0.109
PI 0.154 0.210 0.049 0.015
LS 77.8
KM UHG FROM VALLEY S-GRAPH
UI 140. 52. 19. 10. 6. 3. 2.
KKNode59
KM
KO 22
HC 3
KK11
KM
KO 22
RD 11722 .0022 .035 TRAP 50 2
KKNode29
KM
KO 22
BA 3.94
KM SANTA MARGARITA STORMS
PB 1.38
IN 15
PI 0.023 0.026 0.029 0.030 0.033 0.033 0.033 0.034 0.036 0.037
PI 0.039 0.041 0.044 0.050 0.059 0.065 0.075 0.086 0.095 0.104
PI 0.146 0.200 0.047 0.014
LS 84.7
KM UHG FROM VALLEY S-GRAPH
UI 303. 635. 1011. 906. 514. 321. 237. 182. 143. 116.
UI 94.7 84.3 71.4 64.0 52.4 50.3 41.6 41.6 31.0 27.5
UI 27.5 26.7 13.5 13.5 13.5 13.5 13.5 13.5 13.5 6.1
KK10
KM
KO 22
RD 3168 .0062 .035 TRAP 50 2
KKNode34
KM
KO 22
BA 2.05
KM SANTA MARGARITA STORMS
PB 1.40
IN 15
PI 0.024 0.027 0.029 0.031 0.034 0.034 0.034 0.035 0.036 0.038
PI 0.039 0.042 0.045 0.050 0.060 0.066 0.076 0.087 0.097 0.105
PI 0.148 0.203 0.048 0.014
LS 84.3
KM UHG FROM VALLEY S-GRAPH
UI 214. 499. 656. 367. 206. 140. 104. 78. 62. 53.
UI 42.4 36.0 32.6 26.6 25.3 17.6 17.6 16.4 8.7 8.7
UI 8.7 8.7 8.7 8.4
KKNode53
KM
KO 22
HC 3
KK9
KM
KO 22
RD 10085 .0029 .035 TRAP 50 2
KKNode13
KM
KO 22
BA 6.71
KM SANTA MARGARITA STORMS
PB 1.40
IN 15
PI 0.024 0.027 0.029 0.031 0.034 0.034 0.034 0.035 0.036 0.038
PI 0.039 0.042 0.045 0.050 0.060 0.066 0.076 0.087 0.097 0.105
PI 0.148 0.203 0.048 0.014
LS 82.6
KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
UI 427. 801. 1851. 2314. 813. 610. 445. 350. 255. 211.
UI 157. 114. 84. 56. 18. 18. 18. 18. 18. 18.
UI 18.0 18.0 18.0 3.4
KKNode74
KM
KO 22
HC 2
KKNode22
KM
KO 22
BA 38.15
KM SANTA MARGARITA STORMS
PB 2.11

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42.ih1

IN	15									
PI	0.036	0.040	0.044	0.046	0.051	0.051	0.051	0.053	0.055	0.057
PI	0.059	0.063	0.068	0.076	0.091	0.099	0.114	0.131	0.146	0.158
PI	0.224	0.306	0.072	0.021						
LS	75.2									
KM	UHG FROM MOUNTAIN S-GRAPH									
UI	1440.	1908.	2832.	4066.	5346.	3903.	2933.	2447.	1865.	1414.
UI	1251.	1227.	1028.	952.	888.	782.	782.	699.	625.	571.
UI	558.	521.	496.	447.	443.	417.	417.	356.	338.	338.
UI	287.	278.	278.	268.	245.	245.	245.	237.	219.	219.
UI	219.	219.	197.	192.	192.	192.	192.	172.	162.	162.
UI	162.	162.	162.	138.	124.	124.	124.	124.	124.	124.
UI	124.	101.	90.	90.	90.	90.	90.	90.	90.	90.
UI	90.0	90.0	47.3	32.7	32.7	32.7	32.7	32.7	32.7	32.7
UI	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
UI	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
UI	32.7	32.7	10.5							
KKNode24										
KM										
KO					22					
BA	19.81									
KM	SANTA MARGARITA STORMS									
PB	2.06									
IN	15									
PI	0.035	0.039	0.043	0.045	0.049	0.049	0.049	0.052	0.054	0.056
PI	0.058	0.062	0.066	0.074	0.089	0.097	0.111	0.128	0.142	0.154
PI	0.218	0.299	0.070	0.021						
LS	73.9									
KM	UHG FROM MOUNTAIN S-GRAPH									
UI	1418.	2549.	4368.	3069.	2046.	1313.	1102.	889.	776.	691.
UI	589.	512.	469.	415.	385.	368.	299.	283.	246.	239.
UI	217.	217.	197.	194.	189.	170.	170.	164.	144.	144.
UI	144.	121.	110.	110.	110.	109.	80.	80.	80.	80.
UI	79.6	79.6	50.2	29.0	29.0	29.0	29.0	29.0	29.0	29.0
UI	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
UI	2.1									
KKNode52										
KM										
KO					22					
HC	2									
KK7										
KM										
KO					22					
RD	35482	.0205	.050		TRAP	40	3			
KKNode18										
KM										
KO					22					
BA	22.18									
KM	SANTA MARGARITA STORMS									
PB	1.94									
IN	15									
PI	0.033	0.037	0.041	0.043	0.047	0.047	0.047	0.049	0.050	0.052
PI	0.054	0.058	0.062	0.070	0.083	0.091	0.105	0.120	0.134	0.146
PI	0.206	0.281	0.066	0.019						
LS	76.4									
KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
UI	580.	838.	1190.	1487.	2169.	4021.	5185.	2413.	1422.	1261.
UI	1160.	846.	789.	682.	613.	538.	434.	405.	375.	321.
UI	279.	234.	230.	140.	140.	140.	140.	35.	30.	30.
UI	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
UI	29.9	29.9	29.9	29.9	29.9	29.9	5.3			
KKNode20										
KM										
KO					22					
BA	18.04									
KM	SANTA MARGARITA STORMS									
PB	1.97									
IN	15									
PI	0.033	0.037	0.041	0.043	0.047	0.047	0.047	0.049	0.051	0.053
PI	0.055	0.059	0.063	0.071	0.085	0.093	0.106	0.122	0.136	0.148
PI	0.209	0.286	0.067	0.020						
LS	74.5									
KM	UHG FROM MOUNTAIN S-GRAPH									
UI	935.	1521.	2468.	3176.	2164.	1551.	1122.	813.	775.	639.
UI	581.	506.	496.	399.	368.	345.	325.	283.	275.	265.
UI	229.	214.	194.	176.	176.	158.	156.	156.	141.	139.
UI	139.	130.	122.	122.	122.	108.	103.	103.	103.	97.
UI	78.6	78.6	78.6	78.6	78.6	71.8	57.1	57.1	57.1	57.1
UI	57.1	57.1	57.1	51.1	20.8	20.8	20.8	20.8	20.8	20.8
UI	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
UI	20.8	20.8	20.8	20.8	20.8	20.8	5.0			
KKNode50										
KM										
KO					22					
HC	3									
KK6										
KM										
KO					22					
RD	41976	.012	.05		TRAP	60	3			
KKNode7										
KM										
KO					22					

42.ih1

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BA 24.6
KM SANTA MARGARITA STORMS
PB 1.95
IN 15
PI 0.033 0.037 0.041 0.043 0.047 0.047 0.047 0.049 0.051 0.053
PI 0.055 0.059 0.062 0.070 0.084 0.092 0.105 0.121 0.135 0.146
PI 0.207 0.283 0.066 0.020
LS 77.6
KM UHG FROM MOUNTAIN S-GRAPH
UI 995. 1342. 2049. 3059. 3501. 2428. 1838. 1506. 1112. 860.
UI 860. 737. 663. 614. 539. 537. 471. 425. 391. 374.
UI 358. 320. 307. 293. 287. 262. 232. 232. 202. 191.
UI 191. 182. 169. 169. 169. 157. 151. 151. 151. 143.
UI 132. 132. 132. 132. 119. 112. 112. 112. 112. 112.
UI 86.3 85.1 85.1 85.1 85.1 85.1 85.1 73.5 61.9 61.9
UI 61.9 61.9 61.9 61.9 61.9 61.9 61.9 52.4 22.5 22.5
UI 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
UI 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
UI 22.5 22.5 22.5 22.5 22.5 21.5
KKNode8
KM
KO 22
BA 88.44
KM SANTA MARGARITA STORMS
PB 1.93
IN 15
PI 0.033 0.037 0.041 0.042 0.046 0.046 0.046 0.048 0.050 0.052
PI 0.054 0.058 0.062 0.069 0.083 0.091 0.104 0.120 0.133 0.145
PI 0.205 0.280 0.066 0.019
LS 72.4
KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
UI 1288. 1396. 1757. 2120. 2950. 2588. 3547. 4749. 4958. 7878.
UI 12770. 12282. 6233. 5129. 4035. 2951. 2896. 2761. 2683. 2280.
UI 1915. 1757. 1757. 1621. 1486. 1384. 1326. 1208. 1105. 966.
UI 961. 878. 878. 803. 716. 716. 662. 522. 522. 522.
UI 522. 331. 312. 312. 312. 312. 312. 167. 67.
UI 66.6 66.6 66.6 66.6 66.6 66.6 66.6 66.6 66.6 66.6
UI 66.6 66.6 66.6 66.6 66.6 66.6 66.6 66.6 66.6 66.6
UI 66.6 66.6 66.6 66.6 66.6 66.6 66.6 66.6 66.6 66.6
UI 66.6 66.6 43.5
KKNode49
KM
KO 22
HC 2
KKE
KM
KO 22
RD 46358 .0154 .05 TRAP 60 3
KKNode12
KM
KO 22
BA 42.32
KM SANTA MARGARITA STORMS
PB 1.69
IN 15
PI 0.029 0.032 0.035 0.037 0.041 0.041 0.041 0.042 0.044 0.046
PI 0.047 0.051 0.054 0.061 0.073 0.079 0.091 0.105 0.117 0.127
PI 0.179 0.245 0.057 0.017
LS 74.4
KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
UI 1020. 1410. 2080. 2273. 3611. 5291. 10582. 5159. 3691. 2342.
UI 2186. 1974. 1479. 1391. 1219. 1104. 973. 816. 744. 696.
UI 601. 567. 442. 414. 385. 247. 247. 247. 247. 101.
UI 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8
UI 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 49.6
KKNode14
KM
KO 22
BA 23.58
KM SANTA MARGARITA STORMS
PB 2.05
IN 15
PI 0.035 0.039 0.043 0.045 0.049 0.049 0.049 0.051 0.053 0.055
PI 0.057 0.061 0.066 0.074 0.088 0.096 0.111 0.127 0.141 0.154
PI 0.217 0.297 0.070 0.020
LS 69.2
KM UHG FROM MOUNTAIN S-GRAPH
UI 1391. 2325. 3933. 4193. 2586. 1937. 1279. 1139. 941. 839.
UI 727. 692. 566. 518. 479. 433. 404. 380. 343. 308.
UI 278. 253. 249. 223. 214. 200. 200. 191. 175.
UI 175. 175. 151. 148. 148. 148. 121. 113. 113. 113.
UI 113. 101. 82. 82. 82. 82. 82. 82. 82. 33.
UI 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29.8
UI 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29.8 13.8
KKNode15
KM
KO 22
BA 1.0
KM SANTA MARGARITA STORMS
PB 1.55
IN 15
PI 0.026 0.029 0.033 0.034 0.037 0.037 0.037 0.039 0.040 0.042

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42.ih1

PI	0.043	0.046	0.050	0.056	0.067	0.073	0.084	0.096	0.107	0.116
PI	0.164	0.225	0.053	0.015						
LS	80.4									
KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
UI	246.	640.	195.	102.	57.	26.	6.	6.	6.	6.
KKNode17										
KM										
KO					22					
BA	38.5									
KM	SANTA MARGARITA STORMS									
PB	2.07									
IN	15									
PI	0.035	0.039	0.043	0.046	0.050	0.050	0.050	0.052	0.054	0.056
PI	0.058	0.062	0.066	0.075	0.089	0.097	0.112	0.128	0.143	0.155
PI	0.219	0.300	0.070	0.021						
LS	71.7									
KM	UHG FROM MOUNTAIN S-GRAPH									
UI	1474.	1961.	2928.	4314.	5339.	3911.	3943.	2458.	1847.	1406.
UI	1279.	1221.	1038.	961.	886.	799.	799.	678.	628.	581.
UI	557.	533.	485.	457.	443.	426.	416.	346.	346.	330.
UI	284.	284.	284.	259.	251.	251.	251.	230.	224.	224.
UI	224.	214.	197.	197.	197.	197.	187.	166.	166.	166.
UI	166.	166.	153.	127.	127.	127.	127.	127.	127.	127.
UI	110.	92.	92.	92.	92.	92.	92.	92.	92.	92.
UI	92.0	51.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
UI	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
UI	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
UI	32.7									
KKNode45										
KM										
KO					22					
HC	6									
KKVail										
KM										
KO					22					
RS	1	STOR	51000							
SV	0	51000	52100	53200	54300	55400	56500	62571	65000	
SQ	0	1	1000	3500	7000	11000	16000	50000	67500	
KK5										
KM										
KO					22					
RD	60984	.0066	.04		TRAP	380	2			
KKNode28										
KM										
KO					22					
BA	29.36									
KM	SANTA MARGARITA STORMS									
PB	1.59									
IN	15									
PI	0.027	0.030	0.033	0.035	0.038	0.038	0.038	0.040	0.041	0.043
PI	0.045	0.048	0.051	0.057	0.068	0.075	0.086	0.099	0.110	0.119
PI	0.169	0.231	0.054	0.016						
LS	73.0									
KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
UI	569.	708.	896.	1244.	1333.	1996.	2569.	4002.	5982.	2612.
UI	2173.	1323.	1269.	1220.	1045.	831.	776.	735.	648.	610.
UI	538.	477.	427.	398.	388.	331.	316.	282.	231.	231.
UI	219.	138.	138.	138.	138.	138.	71.	29.	29.	29.
UI	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
UI	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
UI	29.4	29.4	3.3							
KKNode30										
KM										
KO					22					
BA	16.19									
KM	SANTA MARGARITA STORMS									
PB	1.95									
IN	15									
PI	0.033	0.037	0.041	0.043	0.047	0.047	0.047	0.049	0.051	0.053
PI	0.055	0.059	0.062	0.070	0.084	0.092	0.105	0.121	0.135	0.146
PI	0.207	0.283	0.066	0.020						
LS	69.6									
KM	UHG FROM MOUNTAIN S-GRAPH									
UI	681.	926.	1473.	2175.	2292.	1564.	1189.	938.	682.	586.
UI	562.	474.	436.	394.	367.	353.	293.	273.	262.	244.
UI	227.	209.	203.	195.	182.	159.	159.	138.	130.	130.
UI	122.	115.	115.	115.	104.	103.	103.	103.	92.	90.
UI	90.2	90.2	87.5	76.2	76.2	76.2	76.2	76.2	63.3	58.1
UI	58.1	58.1	58.1	58.1	58.1	49.9	42.2	42.2	42.2	42.2
UI	42.2	42.2	42.2	42.2	42.2	25.6	15.4	15.4	15.4	15.4
UI	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
UI	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
UI	15.4	15.4	9.1							
KKNode43										
KM										
KO					22					
HC	3									
KK4										
KM										
KO					22					
RD	4435	.0044	.035		TRAP	115	2.5			
KKNode11										

42.ih1

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KM
KO
BA 1.88
KM SANTA MARGARITA STORMS
PB 1.51
IN 15
PI 0.026 0.029 0.032 0.033 0.036 0.036 0.036 0.038 0.039 0.041
PI 0.042 0.045 0.048 0.054 0.065 0.071 0.082 0.094 0.104 0.113
PI 0.160 0.219 0.051 0.015
LS 90.8
KM UHG FROM MOUNTAIN S-GRAPH
UI 922. 558. 259. 161. 115. 82. 66. 57. 48. 38.
UI 31.9 25.5 16.5 9.3 9.3 9.3 9.3 7.4
KKNode72
KM
KO
HC 2
KKNode41
KM
KO
HC 2
KK3
KM
KO
RD 50424 .0119 .03 TRAP 100 2.0
KKNode16
KM
KO
BA 32.84
KM SANTA MARGARITA STORMS
PB 1.58
IN 15
PI 0.027 0.030 0.033 0.035 0.038 0.038 0.038 0.040 0.041 0.043
PI 0.044 0.047 0.051 0.057 0.068 0.074 0.085 0.098 0.109 0.119
PI 0.167 0.229 0.054 0.016
LS 78.3
KM UHG FROM MOUNTAIN S-GRAPH
UI 1357. 1838. 2858. 4217. 4714. 3204. 2431. 1954. 1431. 1170.
UI 1157. 960. 884. 810. 731. 731. 596. 560. 532. 493.
UI 477. 418. 415. 390. 390. 320. 316. 301. 260. 260.
UI 260. 229. 229. 229. 222. 205. 205. 205. 201. 180.
UI 180. 180. 180. 166. 152. 152. 152. 152. 152. 119.
UI 116. 116. 116. 116. 116. 116. 97. 84. 84. 84.
UI 84.2 84.2 84.2 84.2 84.2 84.2 55.9 30.6 30.6 30.6
UI 30.6 30.6 30.6 30.6 30.6 30.6 30.6 30.6 30.6 30.6
UI 30.6 30.6 30.6 30.6 30.6 30.6 30.6 30.6 30.6 30.6
UI 30.6 30.6 30.6 30.6 4.0
KKNode21
KM
KO
BA 21.59
KM SANTA MARGARITA STORMS
PB 1.53
IN 15
PI 0.026 0.029 0.032 0.034 0.037 0.037 0.037 0.038 0.040 0.041
PI 0.043 0.046 0.049 0.055 0.066 0.072 0.083 0.095 0.106 0.115
PI 0.162 0.222 0.052 0.015
LS 83.9
KM UHG FROM MOUNTAIN S-GRAPH
UI 638. 785. 1013. 1415. 1947. 2552. 1889. 1501. 1235. 1102.
UI 867. 706. 566. 566. 553. 472. 437. 414. 389. 354.
UI 354. 343. 283. 278. 257. 236. 236. 214. 202.
UI 202. 190. 189. 189. 155. 153. 153. 144. 126. 126.
UI 126. 126. 113. 111. 111. 111. 101. 99. 99.
UI 99.3 99.3 96.1 87.1 87.1 87.1 87.1 87.1 87.1 75.3
UI 73.5 73.5 73.5 73.5 73.5 73.5 68.5 56.1 56.1 56.1
UI 56.1 56.1 56.1 56.1 56.1 56.1 50.7 40.7 40.7 40.7
UI 40.7 40.7 40.7 40.7 40.7 40.7 40.7 40.7 40.7 40.7
UI 23.2 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8
UI 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8
UI 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8
UI 14.8 14.8 14.8 14.8 14.8 14.8 14.8 13.5
KKNode39
KM
KO
HC 3
KK2
KM
KO
RD 39283 .0061 .04 TRAP 100 2.5
KKNode19
KM
KO
BA 47.79
KM SANTA MARGARITA STORMS
PB 1.79
IN 15
PI 0.030 0.034 0.038 0.039 0.043 0.043 0.043 0.045 0.047 0.048
PI 0.050 0.054 0.057 0.064 0.077 0.084 0.097 0.111 0.124 0.134
PI 0.190 0.260 0.061 0.018
LS 75.0
KM UHG FROM MOUNTAIN S-GRAPH

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42.ih1

UI	1248.	1464.	1870.	2630.	3267.	4151.	4973.	3740.	2826.	2435.
UI	2340.	1776.	1486.	1205.	1122.	1122.	1046.	929.	863.	822.
UI	789.	701.	701.	701.	617.	561.	540.	510.	510.	468.
UI	467.	444.	401.	401.	393.	374.	374.	374.	305.	303.
UI	303.	303.	254.	249.	249.	249.	249.	221.	220.	220.
UI	220.	220.	212.	197.	197.	197.	197.	197.	195.	173.
UI	173.	173.	173.	173.	173.	173.	147.	146.	146.	146.
UI	146.	146.	146.	146.	129.	111.	111.	111.	111.	111.
UI	111.	111.	111.	111.	111.	99.	91.	81.	81.	81.
UI	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
UI	74.9	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
UI	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
UI	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
UI	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
UI	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
UI	29.4	29.4	25.5							
KKNode23										
KM										
KO										
BA 10.58										
KM SANTA MARGARITA STORMS										
PB 1.47										
IN 15										
PI	0.025	0.028	0.031	0.032	0.035	0.035	0.035	0.037	0.038	0.040
PI	0.041	0.044	0.047	0.053	0.063	0.069	0.079	0.091	0.101	0.110
PI	0.156	0.213	0.050	0.015						
LS 69.2										
KM UHG FROM MOUNTAIN S-GRAPH										
UI	453.	619.	1037.	1488.	1475.	1001.	780.	590.	436.	390.
UI	362.	310.	285.	254.	244.	221.	194.	177.	170.	162.
UI	143.	139.	131.	130.	111.	105.	102.	87.	87.	86.
UI	76.5	76.5	76.5	72.7	68.4	69.4	68.4	64.4	60.0	60.0
UI	60.0	60.0	51.3	50.6	50.6	50.6	50.6	44.2	38.6	38.6
UI	38.6	38.6	38.6	38.6	33.7	28.1	28.1	28.1	28.1	28.1
UI	28.1	28.1	28.1	28.1	15.0	10.2	10.2	10.2	10.2	10.2
UI	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
UI	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
UI	10.2	0.0								
KKNode36										
KM										
KO										
HC 3										
KK1										
KM										
KO										
RD 69010										
KKNode25										
KM										
KO										
BA 43.88										
KM SANTA MARGARITA STORMS										
PB 1.42										
IN 15										
PI	0.024	0.027	0.030	0.031	0.034	0.034	0.034	0.035	0.037	0.038
PI	0.040	0.043	0.045	0.051	0.061	0.067	0.077	0.088	0.098	0.106
PI	0.151	0.206	0.048	0.014						
LS 74.7										
KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH										
UI	467.	467.	565.	637.	750.	912.	1058.	900.	1194.	1508.
UI	1751.	1751.	2549.	3194.	4742.	5300.	2521.	2110.	1806.	1767.
UI	1081.	1113.	1051.	1001.	1001.	962.	873.	701.	675.	637.
UI	637.	637.	554.	539.	510.	500.	470.	438.	438.	360.
UI	350.	350.	329.	318.	318.	312.	259.	259.	259.	259.
UI	207.	189.	189.	189.	189.	189.	131.	113.	113.	113.
UI	113.	113.	113.	113.	113.	113.	47.	24.	24.	24.
UI	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
UI	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
UI	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
UI	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
UI	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
UI	24.2	24.2	24.2	2.8						
KKNode35										
KM										
KO										
HC 2										
ZZ										

APPENDIX B

Sample File Output (Run 42)

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*****
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* SEPTEMBER 1990 *
* VERSION 4.0 *
* RUN DATE 12/17/1997 TIME 14:17:50 *
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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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X X XXXXXXX XXXXX X
X X X X X XX
X X X X X
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X X X X X
X X X X X
X X XXXXXXX XXXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

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

1

HEC-1 INPUT

PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	Santa Margarita Watershed									
2	IT	30			120						
3	IO	0	0								
4	KK	Node26									
5	KM										
6	KO					22					
7	BA	50.52									
8	KM	SANTA MARGARITA STORMS									
9	PB	6.27									
10	IN	15									
11	PI	0.013	0.019	0.019	0.025	0.019	0.019	0.019	0.025	0.025	0.025
12	PI	0.031	0.031	0.031	0.031	0.031	0.038	0.038	0.044	0.044	0.050
13	PI	0.038	0.044	0.050	0.050	0.056	0.056	0.063	0.063	0.063	0.069
14	PI	0.075	0.082	0.094	0.094	0.100	0.107	0.119	0.125	0.132	0.138
15	PI	0.094	0.094	0.125	0.125	0.119	0.119	0.107	0.113	0.157	0.163
16	PI	0.176	0.182	0.213	0.213	0.144	0.144	0.169	0.163	0.163	0.157
17	PI	0.150	0.144	0.119	0.119	0.025	0.025	0.019	0.019	0.031	0.031
18	PI	0.031	0.025	0.025	0.025	0.019	0.013	0.019	0.025	0.019	0.013
19	PI	0.019	0.019	0.019	0.013	0.019	0.013	0.019	0.013	0.019	0.013
20	PI	0.013	0.013	0.013	0.013	0.013	0.013				
21	LS	76.4									
22	KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
23	UI	953.	1172.	1481.	2075.	2104.	3231.	3827.	6496.	10406.	4971.
24	UI	3858.	2366.	2228.	2042.	1914.	1510.	1318.	1300.	1128.	1047.
25	UI	971.	893.	726.	708.	650.	637.	529.	529.	437.	386.
26	UI	386.	344.	231.	231.	231.	231.	231.	119.	49.	49.
27	UI	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
28	UI	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
29	UI	49.3	49.3	49.3	40.6						
30	KK	Skinne									
31	KM										
32	KO					22					
33	RS	1	STOR	36609							
34	SV	0	22284	23921	25559	27331	29104	30949	32866	34783	43800
35	SV	44072	44616	45160	45568	45840	46520	47900	49300	50667	52000
36	SQ	0	.1	.2	.3	.4	.5	.6	.7	.8	1.2
37	SQ	65	365	820	1250	1495	2250	4400	7125	10250	13750
38	KK	14									
39	KM										
40	KO					22					
41	RD	33528	.0095	.04		TRAP	200	5			
42	KK	Node2									
43	KM										
44	KO					22					
45	BA	8.1									
46	KM	SANTA MARGARITA STORMS									
47	PB	4.87									
48	IN	15									
49	PI	0.010	0.015	0.015	0.019	0.015	0.015	0.015	0.019	0.019	0.019
50	PI	0.024	0.024	0.024	0.024	0.024	0.029	0.029	0.034	0.034	0.039

1

LINE	ID	1	2	3	4	5	6	7	8	9	10
51	PI	0.029	0.034	0.039	0.039	0.044	0.044	0.049	0.049	0.049	0.054
		HEC-1 INPUT									
52	PI	0.058	0.063	0.073	0.073	0.078	0.083	0.093	0.097	0.102	0.107
53	PI	0.073	0.073	0.097	0.097	0.093	0.093	0.083	0.088	0.122	0.127
54	PI	0.136	0.141	0.166	0.166	0.112	0.112	0.131	0.127	0.127	0.122
55	PI	0.117	0.112	0.093	0.093	0.019	0.019	0.015	0.015	0.024	0.024
56	PI	0.024	0.019	0.019	0.019	0.015	0.010	0.015	0.019	0.015	0.010
57	PI	0.015	0.015	0.015	0.010	0.015	0.010	0.015	0.010	0.015	0.010
58	PI	0.010	0.010	0.010	0.010	0.010	0.010				
59	LS		77.6								
60	KM	UHG FROM VALLEY S-GRAPH									
61	UI	260.	381.	555.	812.	990.	1129.	1059.	804.	553.	459.
62	UI	359.	297.	260.	215.	199.	169.	151.	139.	119.	112.
63	UI	99.0	96.1	87.3	87.3	71.7	69.0	69.0	57.4	55.0	55.0
64	UI	54.6	43.7	43.7	43.7	43.7	40.1	28.8	28.8	28.8	28.8
65	UI	28.8	28.8	28.8	14.3	14.2	14.2	14.2	14.2	14.2	14.2
66	UI	14.2	14.2	14.2	14.2	14.2	14.2	14.2	10.2		
67	KK	Node6									
68	KM										
69	KO					22					
70	BA	27.55									
71	KM	SANTA MARGARITA STORMS									
72	PB	5.14									
73	IN	15									
74	PI	0.010	0.015	0.015	0.021	0.015	0.015	0.015	0.021	0.021	0.021
75	PI	0.026	0.026	0.026	0.026	0.031	0.031	0.031	0.036	0.036	0.041
76	PI	0.031	0.036	0.041	0.041	0.046	0.046	0.051	0.051	0.051	0.057
77	PI	0.062	0.067	0.077	0.077	0.082	0.087	0.098	0.103	0.108	0.113
78	PI	0.077	0.077	0.103	0.103	0.098	0.098	0.087	0.093	0.128	0.134
79	PI	0.144	0.149	0.175	0.175	0.118	0.118	0.139	0.134	0.134	0.128
80	PI	0.123	0.118	0.098	0.098	0.021	0.021	0.015	0.015	0.026	0.026
81	PI	0.026	0.021	0.021	0.021	0.015	0.010	0.015	0.021	0.015	0.010
82	PI	0.015	0.015	0.015	0.010	0.015	0.010	0.015	0.010	0.015	0.010
83	PI	0.010	0.010	0.010	0.010	0.010	0.010				
84	LS		75.1								
85	KM	UHG FROM VALLEY S-GRAPH									
86	UI	491.	581.	742.	929.	1158.	1485.	1727.	1964.	2154.	2235.
87	UI	1977.	2201.	1682.	1436.	1076.	982.	896.	736.	674.	589.
88	UI	588.	491.	452.	421.	396.	389.	327.	327.	286.	281.
89	UI	265.	236.	236.	222.	196.	196.	196.	180.	173.	173.
90	UI	173.	151.	137.	137.	137.	137.	125.	109.	109.	109.
91	UI	109.	109.	109.	88.	87.	87.	87.	87.	87.	87.
92	UI	86.6	65.6	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
93	UI	57.2	57.2	57.2	48.8	28.2	28.2	28.2	28.2	28.2	28.2
94	UI	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
95	UI	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	26.1	
96	KK	Node73									
97	KM										
98	KO					22					
99	HC	3									

1

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PAGE 3

LINE	ID	1	2	3	4	5	6	7	8	9	10
100	KK	13									
101	KM										
102	KO					22					
103	RD	7762	.0025	.04		TRAP	200	5			
104	KK	Node31									
105	KM										
106	KO					22					
107	BA	2.65									
108	KM	SANTA MARGARITA STORMS									
109	PB	4.91									
110	IN	15									
111	PI	0.010	0.015	0.015	0.020	0.015	0.015	0.015	0.020	0.020	0.020
112	PI	0.025	0.025	0.025	0.025	0.025	0.029	0.029	0.034	0.034	0.039
113	PI	0.029	0.034	0.039	0.039	0.044	0.044	0.049	0.049	0.049	0.054
114	PI	0.059	0.064	0.074	0.074	0.079	0.083	0.093	0.098	0.103	0.108
115	PI	0.074	0.074	0.098	0.098	0.093	0.093	0.083	0.088	0.123	0.128
116	PI	0.137	0.142	0.167	0.167	0.113	0.113	0.133	0.128	0.128	0.123
117	PI	0.118	0.113	0.093	0.093	0.020	0.020	0.015	0.015	0.025	0.025
118	PI	0.025	0.020	0.020	0.020	0.015	0.010	0.015	0.020	0.015	0.010
119	PI	0.015	0.015	0.015	0.010	0.015	0.010	0.015	0.010	0.015	0.010
120	PI	0.010	0.010	0.010	0.010	0.010	0.010				
121	LS		77.4								
122	KM	UHG FROM VALLEY S-GRAPH									
123	UI	161.	299.	505.	601.	448.	266.	183.	144.	111.	91.
124	UI	74.3	63.0	53.4	48.3	43.5	37.3	33.2	29.7	28.2	23.6
125	UI	23.6	20.9	15.6	15.6	15.6	15.6	8.1	7.7	7.7	7.7
126	UI	7.7	7.7	7.7	7.7	7.4					
127	KK	Node71									
128	KM										
129	KO					22					

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130      HC          2
131      KK 12
132      KM
133      KO
134      RD      6019      .0044      .04      22      200      5
              TRAP
135      KK Node9
136      KM
137      KO      22
138      BA      2.52
139      KM SANTA MARGARITA STORMS
140      PB      4.47
141      IN      15
142      PI 0.009 0.013 0.013 0.018 0.013 0.013 0.013 0.018 0.018 0.018
143      PI 0.022 0.022 0.022 0.022 0.022 0.027 0.027 0.031 0.031 0.036
144      PI 0.027 0.031 0.036 0.036 0.040 0.040 0.045 0.045 0.045 0.049
145      PI 0.054 0.058 0.067 0.067 0.072 0.076 0.085 0.089 0.094 0.098
146      PI 0.067 0.067 0.089 0.089 0.085 0.085 0.076 0.080 0.112 0.116
147      PI 0.125 0.130 0.152 0.152 0.103 0.103 0.121 0.116 0.116 0.112
148      PI 0.107 0.103 0.085 0.085 0.018 0.018 0.013 0.013 0.022 0.022
149      PI 0.022 0.018 0.018 0.018 0.018 0.013 0.009 0.013 0.018 0.009

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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
150      PI 0.013 0.013 0.013 0.009 0.013 0.009 0.013 0.009 0.013 0.009
151      PI 0.009 0.009 0.009 0.009 0.009 0.009 0.013 0.009 0.013 0.009
152      LS      75.5
153      KM UHG FROM VALLEY S-GRAPH
154      UI 187. 387. 613. 596. 339. 212. 156. 119. 92. 75.
155      UI 62.0 54.5 47.8 41.1 34.4 32.7 27.3 26.0 23.2 17.2
156      UI 17.2 17.2 12.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5
157      UI 1.4
158      KK Node70
159      KM
160      KO      22
161      HC          2
162      KK Node27
163      KM
164      KO      22
165      BA      16.92
166      KM SANTA MARGARITA STORMS
167      PB      5.29
168      IN      15
169      PI 0.011 0.016 0.016 0.021 0.016 0.016 0.016 0.021 0.021 0.021
170      PI 0.026 0.026 0.026 0.026 0.026 0.032 0.032 0.037 0.037 0.042
171      PI 0.032 0.037 0.042 0.042 0.048 0.048 0.053 0.053 0.053 0.058
172      PI 0.063 0.069 0.079 0.079 0.085 0.090 0.101 0.106 0.111 0.116
173      PI 0.079 0.079 0.106 0.106 0.101 0.101 0.090 0.095 0.132 0.138
174      PI 0.148 0.153 0.180 0.180 0.122 0.122 0.143 0.138 0.138 0.132
175      PI 0.127 0.122 0.101 0.101 0.021 0.021 0.016 0.016 0.026 0.026
176      PI 0.026 0.021 0.021 0.021 0.016 0.011 0.016 0.021 0.016 0.011
177      PI 0.016 0.016 0.016 0.011 0.016 0.011 0.016 0.011 0.016 0.011
178      PI 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.016 0.011
179      LS      81.9
180      KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
181      UI 411. 571. 838. 927. 1463. 2148. 4296. 1997. 1445. 943.
182      UI 880. 773. 590. 560. 482. 441. 386. 319. 296. 280.
183      UI 234. 228. 168. 167. 143. 99. 99. 99. 99. 25.
184      UI 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2
185      UI 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 12.5
186      KK 17
187      KM
188      KO      22
189      RD 55334 .0039 .04      22      200      5
              TRAP
190      KK Node1
191      KM
192      KO      22
193      BA      22.37
194      KM SANTA MARGARITA STORMS
195      PB      4.11
196      IN      15
197      PI 0.008 0.012 0.012 0.016 0.012 0.012 0.012 0.016 0.016 0.016
198      PI 0.021 0.021 0.021 0.021 0.021 0.025 0.025 0.029 0.029 0.033
199      PI 0.025 0.029 0.033 0.033 0.037 0.037 0.041 0.041 0.041 0.045
200      PI 0.049 0.053 0.062 0.062 0.066 0.070 0.078 0.082 0.086 0.090

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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
201      PI 0.062 0.062 0.082 0.082 0.078 0.078 0.070 0.074 0.103 0.107
202      PI 0.115 0.119 0.140 0.140 0.095 0.095 0.111 0.107 0.107 0.103
203      PI 0.099 0.095 0.078 0.078 0.016 0.016 0.012 0.012 0.021 0.021
204      PI 0.021 0.016 0.016 0.016 0.012 0.008 0.012 0.016 0.012 0.008
205      PI 0.012 0.012 0.012 0.008 0.012 0.008 0.012 0.008 0.012 0.008
206      PI 0.008 0.008 0.008 0.008 0.008 0.008 0.008 0.008 0.012 0.008
207      LS      77.7

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208	KM	UHG FROM VALLEY S-GRAPH									
209	UI	958.	1567.	2498.	3394.	3836.	3421.	2176.	1593.	1187.	984.
210	UI	785.	696.	574.	493.	427.	383.	345.	314.	304.	248.
211	UI	241.	217.	192.	192.	173.	152.	152.	152.	117.	101.
212	UI	101.	101.	101.	101.	53.	50.	50.	50.	50.	50.
213	UI	49.5	49.5	49.5	49.5	49.5	35.3				
214	KK	Node3									
215	KM										
216	KO						22				
217	BA	18.4									
218	KM	SANTA MARGARITA STORMS									
219	PB	4.75									
220	IN	15									
221	PI	0.009	0.014	0.014	0.019	0.014	0.014	0.014	0.019	0.019	0.019
222	PI	0.024	0.024	0.024	0.024	0.024	0.029	0.029	0.033	0.033	0.038
223	PI	0.029	0.033	0.038	0.038	0.043	0.043	0.047	0.047	0.047	0.052
224	PI	0.057	0.062	0.071	0.071	0.076	0.081	0.090	0.095	0.100	0.105
225	PI	0.071	0.071	0.095	0.095	0.090	0.090	0.081	0.085	0.119	0.123
226	PI	0.133	0.138	0.162	0.162	0.109	0.109	0.128	0.123	0.123	0.119
227	PI	0.114	0.109	0.090	0.090	0.019	0.019	0.014	0.014	0.024	0.024
228	PI	0.024	0.019	0.019	0.019	0.014	0.009	0.014	0.019	0.014	0.009
229	PI	0.014	0.014	0.014	0.009	0.014	0.009	0.014	0.009	0.014	0.009
230	PI	0.009	0.009	0.009	0.009	0.009	0.009				
231	LS	78.9									
232	KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
233	UI	644.	1005.	1367.	2169.	5078.	3567.	1871.	1346.	1148.	846.
234	UI	756.	647.	538.	443.	408.	333.	282.	243.	183.	145.
235	UI	145.	107.	31.	31.	31.	31.	31.	31.	31.	31.
236	UI	31.0	31.0	31.0	31.0	31.0	31.0	30.6			
237	KK	Node66									
238	KM										
239	KO						22				
240	HC	3									
241	KK	16									
242	KM										
243	KO						22				
244	RD	32736	.0069	.04		TRAP	200	5			
245	KK	Node4									
246	KM										
247	KO						22				
248	BA	5.69									
249	KM	SANTA MARGARITA STORMS									
250	PB	4.47									
251	IN	15									

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LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
252	PI 0.009 0.013 0.013 0.018 0.013 0.013 0.013 0.018 0.018 0.018
253	PI 0.022 0.022 0.022 0.022 0.022 0.027 0.027 0.031 0.031 0.036
254	PI 0.027 0.031 0.036 0.036 0.040 0.040 0.045 0.045 0.045 0.049
255	PI 0.054 0.058 0.067 0.067 0.072 0.076 0.085 0.089 0.094 0.098
256	PI 0.067 0.067 0.089 0.089 0.085 0.085 0.076 0.080 0.112 0.116
257	PI 0.125 0.130 0.152 0.152 0.103 0.103 0.121 0.116 0.116 0.112
258	PI 0.107 0.103 0.085 0.085 0.018 0.018 0.013 0.013 0.022 0.022
259	PI 0.022 0.018 0.018 0.018 0.013 0.009 0.013 0.018 0.013 0.009
260	PI 0.013 0.013 0.013 0.009 0.013 0.009 0.013 0.009 0.013 0.009
261	PI 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009
262	LS 78.7
263	KM UHG FROM VALLEY S-GRAPH
264	UI 278. 488. 807. 1030. 1079. 729. 476. 344. 279. 220.
265	UI 187. 155. 133. 116. 98. 91. 87. 70. 68. 58.
266	UI 54.5 53.9 43.3 43.3 43.3 33.5 28.6 28.6 28.6 28.6
267	UI 20.9 14.1 14.1 14.1 14.1 14.1 14.1 14.1 14.1 14.1
268	UI 12.6
269	KK Node75
270	KM
271	KO
272	HC 2
273	KK Node33
274	KM
275	KO
276	BA 18.46
277	KM SANTA MARGARITA STORMS
278	PB 7.84
279	IN 15
280	PI 0.016 0.024 0.024 0.031 0.024 0.024 0.024 0.031 0.031 0.031
281	PI 0.039 0.039 0.039 0.039 0.039 0.047 0.047 0.055 0.055 0.063
282	PI 0.047 0.055 0.063 0.063 0.071 0.071 0.078 0.078 0.078 0.086
283	PI 0.094 0.102 0.118 0.118 0.125 0.133 0.149 0.157 0.165 0.172
284	PI 0.118 0.118 0.157 0.157 0.149 0.149 0.133 0.141 0.196 0.204
285	PI 0.220 0.227 0.267 0.267 0.180 0.180 0.212 0.204 0.204 0.196
286	PI 0.188 0.180 0.149 0.149 0.031 0.031 0.024 0.024 0.039 0.039
287	PI 0.039 0.031 0.031 0.031 0.024 0.016 0.024 0.031 0.024 0.016
288	PI 0.024 0.024 0.024 0.016 0.024 0.016 0.024 0.016 0.024 0.016
289	PI 0.016 0.016 0.016 0.016 0.016 0.016 0.016 0.016 0.016 0.016

290 LS 77.2
 291 KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
 292 UI 1631. 3501. 8638. 3253. 2017. 1416. 995. 747. 534. 341.
 293 UI 270. 62. 62. 62. 62. 62. 62. 62. 40.

294 KK 19
 295 KM
 296 KO
 297 RD 8818 .006 .035 22 TRAP 50 2

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

298 KK Node32
 299 KM
 300 KO 22
 301 BA 8.74
 302 KM SANTA MARGARITA STORMS
 303 PB 7.33
 304 IN 15
 305 PI 0.015 0.022 0.022 0.029 0.022 0.022 0.022 0.029 0.029 0.029
 306 PI 0.037 0.037 0.037 0.037 0.037 0.044 0.044 0.051 0.051 0.059
 307 PI 0.044 0.051 0.059 0.059 0.066 0.066 0.073 0.073 0.073 0.081
 308 PI 0.088 0.095 0.110 0.110 0.117 0.125 0.139 0.147 0.154 0.161
 309 PI 0.110 0.110 0.147 0.147 0.139 0.139 0.125 0.132 0.183 0.191
 310 PI 0.205 0.213 0.249 0.249 0.169 0.169 0.198 0.191 0.191 0.183
 311 PI 0.176 0.169 0.139 0.139 0.029 0.029 0.022 0.022 0.037 0.037
 312 PI 0.037 0.029 0.029 0.029 0.022 0.015 0.022 0.029 0.022 0.015
 313 PI 0.022 0.022 0.022 0.015 0.022 0.015 0.022 0.015 0.022 0.015
 314 PI 0.015 0.015 0.015 0.015 0.015 0.015
 315 LS 76.7
 316 KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
 317 UI 361. 604. 887. 1636. 2757. 1122. 729. 607. 451. 384.
 318 UI 324. 256. 224. 186. 151. 132. 84. 79. 77. 17.
 319 UI 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8
 320 UI 16.8 16.8 6.4

321 KK Node64
 322 KM
 323 KO 22
 324 HC 2
 325 KK 18
 326 KM
 327 KO
 328 RD 31786 .0029 .035 22 TRAP 50 2

329 KK Node5
 330 KM
 331 KO 22
 332 BA 30.47
 333 KM SANTA MARGARITA STORMS
 334 PB 5.88
 335 IN 15
 336 PI 0.012 0.018 0.018 0.024 0.018 0.018 0.018 0.024 0.024 0.024
 337 PI 0.029 0.029 0.029 0.029 0.029 0.035 0.035 0.041 0.041 0.047
 338 PI 0.035 0.041 0.047 0.047 0.053 0.053 0.059 0.059 0.059 0.065
 339 PI 0.071 0.076 0.088 0.088 0.094 0.100 0.112 0.118 0.123 0.129
 340 PI 0.088 0.088 0.118 0.118 0.112 0.112 0.100 0.106 0.147 0.153
 341 PI 0.165 0.171 0.200 0.200 0.135 0.135 0.159 0.153 0.153 0.147
 342 PI 0.141 0.135 0.112 0.112 0.024 0.024 0.018 0.018 0.029 0.029
 343 PI 0.029 0.024 0.024 0.024 0.018 0.012 0.018 0.024 0.018 0.012
 344 PI 0.018 0.018 0.018 0.012 0.018 0.012 0.018 0.012 0.018 0.012
 345 PI 0.012 0.012 0.012 0.012 0.012 0.012
 346 LS 79.3
 347 KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
 348 UI 761. 1076. 1558. 1803. 2776. 4638. 7461. 3337. 2379. 1742.

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

349 UI 1621. 1285. 1057. 991. 853. 771. 667. 570. 521. 477.
 350 UI 423. 357. 308. 306. 184. 184. 184. 184. 75. 39.
 351 UI 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3
 352 UI 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3 9.0

353 KK Node76
 354 KM
 355 KO 22
 356 HC 2

357 KK Node61
 358 KM
 359 KO 22
 360 HC 2

361 KK 15
 362 KM
 363 KO
 364 RD 845 .0018 .035 22 TRAP 50 2

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365      KK Node10
366      KM
367      KO
368      BA      0.18
369      KM      SANTA MARGARITA STORMS
370      PB      4.57
371      IN      15
372      PI      0.009  0.014  0.014  0.018  0.014  0.014  0.014  0.018  0.018  0.018
373      PI      0.023  0.023  0.023  0.023  0.023  0.027  0.027  0.032  0.032  0.037
374      PI      0.027  0.032  0.037  0.037  0.041  0.041  0.046  0.046  0.046  0.050
375      PI      0.055  0.059  0.069  0.069  0.073  0.078  0.087  0.091  0.096  0.101
376      PI      0.069  0.069  0.091  0.091  0.087  0.087  0.078  0.082  0.114  0.119
377      PI      0.128  0.133  0.155  0.155  0.105  0.105  0.123  0.119  0.119  0.114
378      PI      0.110  0.105  0.087  0.087  0.018  0.018  0.014  0.014  0.023  0.023
379      PI      0.023  0.018  0.018  0.018  0.014  0.009  0.014  0.018  0.014  0.009
380      PI      0.014  0.014  0.014  0.009  0.014  0.009  0.014  0.009  0.014  0.009
381      PI      0.009  0.009  0.009  0.009  0.009  0.009  0.014  0.009  0.014  0.009
382      LS      77.8
383      KM      UHG FROM VALLEY S-GRAPH
384      UI      140.    52.    19.    10.    6.    3.    2.

385      KK Node59
386      KM
387      KO
388      HC      3

389      KK 11
390      KM
391      KO
392      RD      11722  .0022  .035      22      TRAP      50      2

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

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393      KK Node29
394      KM
395      KO
396      BA      3.94
397      KM      SANTA MARGARITA STORMS
398      PB      5.14
399      IN      15
400      PI      0.010  0.015  0.015  0.021  0.015  0.015  0.015  0.021  0.021  0.021
401      PI      0.026  0.026  0.026  0.026  0.026  0.031  0.031  0.036  0.036  0.041
402      PI      0.031  0.036  0.041  0.041  0.046  0.046  0.051  0.051  0.051  0.057
403      PI      0.062  0.067  0.077  0.077  0.082  0.087  0.098  0.103  0.108  0.113
404      PI      0.077  0.077  0.103  0.103  0.098  0.098  0.087  0.093  0.128  0.134
405      PI      0.144  0.149  0.175  0.175  0.118  0.118  0.139  0.134  0.134  0.128
406      PI      0.123  0.118  0.098  0.098  0.021  0.021  0.015  0.015  0.026  0.026
407      PI      0.026  0.021  0.021  0.021  0.015  0.010  0.015  0.021  0.015  0.010
408      PI      0.015  0.015  0.015  0.010  0.015  0.010  0.015  0.010  0.015  0.010
409      PI      0.010  0.010  0.010  0.010  0.010  0.010  0.010  0.010  0.015  0.010
410      LS      84.7
411      KM      UHG FROM VALLEY S-GRAPH
412      UI      303.    635.    1011.    906.    514.    321.    237.    182.    143.    116.
413      UI      94.7    84.3    71.4    64.0    52.4    50.3    41.6    41.6    31.0    27.5
414      UI      27.5    26.7    13.5    13.5    13.5    13.5    13.5    13.5    13.5    6.1

415      KK 10
416      KM
417      KO
418      RD      3168  .0062  .035      22      TRAP      50      2

419      KK Node34
420      KM
421      KO
422      BA      2.05
423      KM      SANTA MARGARITA STORMS
424      PB      5.67
425      IN      15
426      PI      0.011  0.017  0.017  0.023  0.017  0.017  0.017  0.023  0.023  0.023
427      PI      0.028  0.028  0.028  0.028  0.028  0.034  0.034  0.040  0.040  0.045
428      PI      0.034  0.040  0.045  0.045  0.051  0.051  0.057  0.057  0.057  0.062
429      PI      0.068  0.074  0.085  0.085  0.091  0.096  0.108  0.113  0.119  0.125
430      PI      0.085  0.085  0.113  0.113  0.108  0.108  0.096  0.102  0.142  0.147
431      PI      0.159  0.164  0.193  0.193  0.130  0.130  0.153  0.147  0.147  0.142
432      PI      0.136  0.130  0.108  0.108  0.023  0.023  0.017  0.017  0.028  0.028
433      PI      0.028  0.023  0.023  0.023  0.017  0.011  0.017  0.023  0.017  0.011
434      PI      0.017  0.017  0.017  0.011  0.017  0.011  0.017  0.011  0.017  0.011
435      PI      0.011  0.011  0.011  0.011  0.011  0.011  0.011  0.011  0.017  0.011
436      LS      84.3
437      KM      UHG FROM VALLEY S-GRAPH
438      UI      214.    499.    656.    367.    206.    140.    104.    78.    62.    53.
439      UI      42.4    36.0    32.6    26.6    25.3    17.6    17.6    16.4    8.7    8.7
440      UI      8.7    8.7    8.7    8.4

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PAGE 10

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

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441      KK Node53
442      KM

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526	UI	217.	217.	197.	194.	189.	170.	170.	164.	144.	144.
527	UI	144.	121.	110.	110.	110.	109.	80.	80.	80.	80.
528	UI	79.6	79.6	50.2	29.0	29.0	29.0	29.0	29.0	29.0	29.0
529	UI	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
530	UI	2.1									

531	KK	Node52									
532	KM										
533	KO										
534	HC	2				22					

535	KK	7									
536	KM										
537	KO										
538	RD	35482	.0205	.050		22	40	3			

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LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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539	KK	Node18									
540	KM										
541	KO										
542	BA	22.18				22					
543	KM	SANTA MARGARITA STORMS									
544	PB	6.80									
545	IN	15									
546	PI	0.014	0.020	0.020	0.027	0.020	0.020	0.020	0.027	0.027	0.027
547	PI	0.034	0.034	0.034	0.034	0.034	0.041	0.041	0.048	0.048	0.054
548	PI	0.041	0.048	0.054	0.054	0.061	0.061	0.068	0.068	0.068	0.075
549	PI	0.082	0.088	0.102	0.102	0.109	0.116	0.129	0.136	0.143	0.150
550	PI	0.102	0.102	0.136	0.136	0.129	0.129	0.116	0.122	0.170	0.177
551	PI	0.190	0.197	0.231	0.231	0.156	0.156	0.184	0.177	0.177	0.170
552	PI	0.163	0.156	0.129	0.129	0.027	0.027	0.020	0.020	0.034	0.034
553	PI	0.034	0.027	0.027	0.027	0.020	0.014	0.020	0.027	0.020	0.014
554	PI	0.020	0.020	0.020	0.014	0.020	0.014	0.020	0.027	0.020	0.014
555	PI	0.014	0.014	0.014	0.014	0.014	0.014	0.020	0.014	0.020	0.014
556	LS	76.4									
557	KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
558	UI	580.	838.	1190.	1487.	2169.	4021.	5185.	2413.	1422.	1261.
559	UI	1160.	846.	789.	682.	613.	538.	434.	405.	375.	321.
560	UI	279.	234.	230.	140.	140.	140.	140.	35.	30.	30.
561	UI	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
562	UI	29.9	29.9	29.9	29.9	29.9	29.9	5.3			

563	KK	Node20									
564	KM										
565	KO										
566	BA	18.04				22					
567	KM	SANTA MARGARITA STORMS									
568	PB	6.13									
569	IN	15									
570	PI	0.012	0.018	0.018	0.025	0.018	0.018	0.018	0.025	0.025	0.025
571	PI	0.031	0.031	0.031	0.031	0.031	0.037	0.037	0.043	0.043	0.049
572	PI	0.037	0.043	0.049	0.049	0.055	0.055	0.061	0.061	0.061	0.067
573	PI	0.074	0.080	0.092	0.092	0.098	0.104	0.116	0.123	0.129	0.135
574	PI	0.092	0.092	0.123	0.123	0.116	0.116	0.104	0.110	0.153	0.159
575	PI	0.172	0.178	0.208	0.208	0.141	0.141	0.166	0.159	0.159	0.153
576	PI	0.147	0.141	0.116	0.116	0.025	0.025	0.018	0.018	0.031	0.031
577	PI	0.031	0.025	0.025	0.025	0.018	0.012	0.018	0.025	0.018	0.012
578	PI	0.018	0.018	0.018	0.012	0.018	0.012	0.018	0.012	0.018	0.012
579	PI	0.012	0.012	0.012	0.012	0.012	0.012	0.018	0.012	0.018	0.012
580	LS	74.5									
581	KM	UHG FROM MOUNTAIN S-GRAPH									
582	UI	935.	1521.	2468.	3176.	2164.	1551.	1122.	813.	775.	639.
583	UI	581.	506.	496.	399.	368.	345.	325.	283.	275.	265.
584	UI	229.	214.	194.	176.	176.	158.	156.	156.	141.	139.
585	UI	139.	130.	122.	122.	122.	108.	103.	103.	103.	97.
586	UI	78.6	78.6	78.6	78.6	78.6	71.8	57.1	57.1	57.1	57.1
587	UI	57.1	57.1	57.1	51.1	20.8	20.8	20.8	20.8	20.8	20.8
588	UI	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
589	UI	20.8	20.8	20.8	20.8	20.8	20.8	5.0			

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LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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590	KK	Node50									
591	KM										
592	KO										
593	HC	3				22					
594	KK	6									
595	KM										
596	KO										
597	RD	41976	.012	.05		22	60	3			
598	KK	Node7									
599	KM										
600	KO										
601	BA	24.6				22					
602	KM	SANTA MARGARITA STORMS									

603	PB	6.74									
604	IN	15									
605	PI	0.013	0.020	0.020	0.027	0.020	0.020	0.020	0.027	0.027	0.027
606	PI	0.034	0.034	0.034	0.034	0.034	0.040	0.040	0.047	0.047	0.054
607	PI	0.040	0.047	0.054	0.054	0.061	0.061	0.067	0.067	0.067	0.074
608	PI	0.081	0.088	0.101	0.101	0.108	0.115	0.128	0.135	0.142	0.148
609	PI	0.101	0.101	0.135	0.135	0.128	0.128	0.115	0.121	0.168	0.175
610	PI	0.189	0.195	0.229	0.229	0.155	0.155	0.182	0.175	0.175	0.168
611	PI	0.162	0.155	0.128	0.128	0.027	0.027	0.020	0.020	0.034	0.034
612	PI	0.034	0.027	0.027	0.027	0.020	0.013	0.020	0.027	0.020	0.013
613	PI	0.020	0.020	0.020	0.013	0.020	0.013	0.020	0.013	0.020	0.013
614	PI	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.020	0.013
615	LS	77.6									
616	KM	UHG FROM MOUNTAIN S-GRAPH									
617	UI	995.	1342.	2049.	3059.	3501.	2428.	1838.	1506.	1112.	860.
618	UI	860.	737.	663.	614.	539.	537.	471.	425.	391.	374.
619	UI	358.	320.	307.	293.	287.	262.	232.	232.	202.	191.
620	UI	191.	182.	169.	169.	169.	157.	151.	151.	151.	143.
621	UI	132.	132.	132.	132.	119.	112.	112.	112.	112.	112.
622	UI	86.3	85.1	85.1	85.1	85.1	85.1	85.1	73.5	61.9	61.9
623	UI	61.9	61.9	61.9	61.9	61.9	61.9	61.9	52.4	22.5	22.5
624	UI	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
625	UI	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
626	UI	22.5	22.5	22.5	22.5	22.5	21.5	22.5	22.5	22.5	22.5
627	KK	Node8									
628	KM										
629	KO					22					
630	BA	88.44									
631	KM	SANTA MARGARITA STORMS									
632	PB	6.68									
633	IN	15									
634	PI	0.013	0.020	0.020	0.027	0.020	0.020	0.020	0.027	0.027	0.027
635	PI	0.033	0.033	0.033	0.033	0.033	0.040	0.040	0.047	0.047	0.053
636	PI	0.040	0.047	0.053	0.053	0.060	0.060	0.067	0.067	0.067	0.073
637	PI	0.080	0.087	0.100	0.100	0.107	0.114	0.127	0.134	0.140	0.147
638	PI	0.100	0.100	0.134	0.134	0.127	0.127	0.114	0.120	0.167	0.174
639	PI	0.187	0.194	0.227	0.227	0.154	0.154	0.180	0.174	0.174	0.167
640	PI	0.160	0.154	0.127	0.127	0.027	0.027	0.020	0.020	0.033	0.033

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LINE	ID	1	2	3	4	5	6	7	8	9	10
641	PI	0.033	0.027	0.027	0.027	0.020	0.013	0.020	0.027	0.020	0.013
642	PI	0.020	0.020	0.020	0.013	0.020	0.013	0.020	0.013	0.020	0.013
643	PI	0.013	0.013	0.013	0.013	0.013	0.013				
644	LS	72.4									
645	KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
646	UI	1288.	1396.	1757.	2120.	2950.	2588.	3547.	4749.	4958.	7878.
647	UI	12770.	12282.	6233.	5129.	4035.	2951.	2896.	2761.	2683.	2280.
648	UI	1915.	1757.	1757.	1621.	1486.	1384.	1326.	1208.	1105.	966.
649	UI	961.	878.	878.	803.	716.	716.	662.	522.	522.	522.
650	UI	522.	331.	312.	312.	312.	312.	312.	312.	167.	67.
651	UI	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
652	UI	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
653	UI	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
654	UI	66.6	66.6	43.5							
655	KK	Node49									
656	KM										
657	KO					22					
658	HC	2									
659	KK	8									
660	KM										
661	KO					22					
662	RD	46358	.0154	.05		TRAP	60	3			
663	KK	Node12									
664	KM										
665	KO					22					
666	BA	42.32									
667	KM	SANTA MARGARITA STORMS									
668	PB	6.61									
669	IN	15									
670	PI	0.013	0.020	0.020	0.026	0.020	0.020	0.020	0.026	0.026	0.026
671	PI	0.033	0.033	0.033	0.033	0.033	0.040	0.040	0.046	0.046	0.053
672	PI	0.040	0.046	0.053	0.053	0.059	0.059	0.066	0.066	0.066	0.073
673	PI	0.079	0.086	0.099	0.099	0.106	0.112	0.126	0.132	0.139	0.145
674	PI	0.099	0.099	0.132	0.132	0.126	0.126	0.112	0.119	0.165	0.172
675	PI	0.185	0.192	0.225	0.225	0.152	0.152	0.178	0.172	0.172	0.165
676	PI	0.159	0.152	0.126	0.126	0.026	0.026	0.020	0.020	0.033	0.033
677	PI	0.033	0.026	0.026	0.026	0.020	0.013	0.020	0.026	0.020	0.013
678	PI	0.020	0.020	0.020	0.013	0.020	0.013	0.020	0.013	0.020	0.013
679	PI	0.013	0.013	0.013	0.013	0.013	0.013				
680	LS	74.4									
681	KM	UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH									
682	UI	1020.	1410.	2080.	2273.	3611.	5291.	10582.	5159.	3691.	2342.
683	UI	2186.	1974.	1479.	1391.	1219.	1104.	973.	816.	744.	696.
684	UI	601.	567.	442.	414.	385.	247.	247.	247.	247.	101.
685	UI	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
686	UI	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	49.6

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
687	KK Node14
688	KM
689	KO 22
690	BA 23.58
691	KM SANTA MARGARITA STORMS
692	PB 6.27
693	IN 15
694	PI 0.013 0.019 0.019 0.025 0.019 0.019 0.019 0.025 0.025 0.025
695	PI 0.031 0.031 0.031 0.031 0.031 0.038 0.038 0.044 0.044 0.050
696	PI 0.038 0.044 0.050 0.050 0.056 0.056 0.063 0.063 0.063 0.069
697	PI 0.075 0.082 0.094 0.094 0.100 0.107 0.119 0.125 0.132 0.138
698	PI 0.094 0.094 0.125 0.125 0.119 0.119 0.107 0.113 0.157 0.163
699	PI 0.176 0.182 0.213 0.213 0.144 0.144 0.169 0.163 0.163 0.157
700	PI 0.150 0.144 0.119 0.119 0.025 0.025 0.019 0.019 0.031 0.031
701	PI 0.031 0.025 0.025 0.025 0.019 0.013 0.019 0.025 0.019 0.013
702	PI 0.019 0.019 0.019 0.013 0.019 0.013 0.019 0.013 0.019 0.013
703	PI 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013 0.013
704	LS 69.2
705	KM UHG FROM MOUNTAIN S-GRAPH
706	UI 1391. 2325. 3933. 4193. 2586. 1937. 1279. 1139. 941. 839.
707	UI 727. 692. 566. 518. 479. 433. 404. 380. 343. 308.
708	UI 278. 253. 249. 223. 223. 214. 200. 200. 191. 175.
709	UI 175. 175. 151. 148. 148. 148. 121. 113. 113. 113.
710	UI 113. 101. 82. 82. 82. 82. 82. 82. 82. 33.
711	UI 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29.8
712	UI 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29.8 29.8 13.8
713	KK Node15
714	KM
715	KO 22
716	BA 1.0
717	KM SANTA MARGARITA STORMS
718	PB 5.18
719	IN 15
720	PI 0.010 0.016 0.016 0.021 0.016 0.016 0.016 0.021 0.021 0.021
721	PI 0.026 0.026 0.026 0.026 0.026 0.031 0.031 0.036 0.036 0.041
722	PI 0.031 0.036 0.041 0.041 0.047 0.047 0.052 0.052 0.052 0.057
723	PI 0.062 0.067 0.078 0.078 0.083 0.088 0.098 0.104 0.109 0.114
724	PI 0.078 0.078 0.104 0.104 0.098 0.098 0.088 0.093 0.130 0.135
725	PI 0.145 0.150 0.176 0.176 0.119 0.119 0.140 0.135 0.135 0.130
726	PI 0.124 0.119 0.098 0.098 0.021 0.021 0.016 0.016 0.026 0.026
727	PI 0.026 0.021 0.021 0.021 0.016 0.010 0.016 0.021 0.016 0.010
728	PI 0.016 0.016 0.016 0.010 0.016 0.010 0.016 0.010 0.016 0.010
729	PI 0.010 0.010 0.010 0.010 0.010 0.010 0.016 0.010 0.016 0.010
730	LS 80.4
731	KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
732	UI 246. 640. 195. 102. 57. 26. 6. 6. 6. 6.
733	KK Node17
734	KM
735	KO 22
736	BA 38.5
737	KM SANTA MARGARITA STORMS
738	PB 6.93

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
739	IN 15
740	PI 0.014 0.021 0.021 0.028 0.021 0.021 0.021 0.028 0.028 0.028
741	PI 0.035 0.035 0.035 0.035 0.035 0.042 0.042 0.049 0.049 0.055
742	PI 0.042 0.049 0.055 0.055 0.062 0.062 0.069 0.069 0.069 0.076
743	PI 0.083 0.090 0.104 0.104 0.111 0.118 0.132 0.139 0.146 0.152
744	PI 0.104 0.104 0.139 0.139 0.132 0.132 0.118 0.125 0.173 0.180
745	PI 0.194 0.201 0.236 0.236 0.159 0.159 0.187 0.180 0.180 0.173
746	PI 0.166 0.159 0.132 0.132 0.028 0.028 0.021 0.021 0.035 0.035
747	PI 0.035 0.028 0.028 0.028 0.021 0.014 0.021 0.028 0.021 0.014
748	PI 0.021 0.021 0.021 0.014 0.021 0.014 0.021 0.014 0.021 0.014
749	PI 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014
750	LS 71.7
751	KM UHG FROM MOUNTAIN S-GRAPH
752	UI 1474. 1961. 2928. 4314. 5339. 3911. 2943. 2458. 1847. 1406.
753	UI 1279. 1221. 1038. 961. 886. 799. 799. 678. 628. 581.
754	UI 557. 533. 485. 457. 443. 426. 416. 346. 346. 330.
755	UI 284. 284. 284. 259. 251. 251. 230. 224. 224. 224.
756	UI 224. 214. 197. 197. 197. 197. 187. 166. 166. 166.
757	UI 166. 166. 153. 127. 127. 127. 127. 127. 127. 127.
758	UI 110. 92. 92. 92. 92. 92. 92. 92. 92. 92.
759	UI 92.0 51.3 33.5 33.5 33.5 33.5 33.5 33.5 33.5 33.5
760	UI 33.5 33.5 33.5 33.5 33.5 33.5 33.5 33.5 33.5 33.5
761	UI 33.5 33.5 33.5 33.5 33.5 33.5 33.5 33.5 33.5 33.5
762	UI 32.7
763	KK Node45
764	KM
765	KO 22
766	HC 6

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767      KK  Vail
768      KM
769      KO
770      RS      1      STOR      28985
771      SV      0      51000      52100      53200      54300      55400      56500      62571      65000
772      SQ      0      1      1000      3500      7000      11000      16000      50000      67500

773      KK  5
774      KM
775      KO
776      RD      60984      .0066      .04      22      TRAP      380      2

777      KK  Node28
778      KM
779      KO
780      BA      29.36
781      KM      SANTA MARGARITA STORMS
782      PB      4.85
783      IN      15
784      PI      0.010      0.015      0.015      0.019      0.015      0.015      0.015      0.019      0.019      0.019
785      PI      0.024      0.024      0.024      0.024      0.024      0.029      0.029      0.034      0.034      0.039
786      PI      0.029      0.034      0.039      0.039      0.044      0.044      0.048      0.048      0.048      0.053
787      PI      0.058      0.063      0.073      0.073      0.078      0.082      0.092      0.097      0.102      0.107
788      PI      0.073      0.073      0.097      0.097      0.092      0.092      0.082      0.087      0.121      0.126
789      PI      0.136      0.141      0.165      0.165      0.112      0.112      0.131      0.126      0.126      0.121

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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
790      PI      0.116      0.112      0.092      0.092      0.019      0.019      0.015      0.015      0.024      0.024
791      PI      0.024      0.019      0.019      0.019      0.015      0.010      0.015      0.019      0.015      0.010
792      PI      0.015      0.015      0.015      0.010      0.015      0.010      0.015      0.010      0.015      0.010
793      PI      0.010      0.010      0.010      0.010      0.010      0.010
794      LS      73.0
795      KM      UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
796      UI      569.      708.      896.      1244.      1333.      1996.      2569.      4002.      5982.      2612.
797      UI      2173.      1323.      1269.      1220.      1045.      831.      776.      735.      648.      610.
798      UI      538.      477.      427.      398.      388.      331.      316.      282.      231.      231.
799      UI      219.      138.      138.      138.      138.      138.      71.      29.      29.      29.
800      UI      29.4      29.4      29.4      29.4      29.4      29.4      29.4      29.4      29.4      29.4
801      UI      29.4      29.4      29.4      29.4      29.4      29.4      29.4      29.4      29.4      29.4
802      UI      29.4      29.4      3.3

803      KK  Node30
804      KM
805      KO
806      BA      16.19
807      KM      SANTA MARGARITA STORMS
808      PB      7.04
809      IN      15
810      PI      0.014      0.021      0.021      0.028      0.021      0.021      0.021      0.028      0.028      0.028
811      PI      0.035      0.035      0.035      0.035      0.035      0.042      0.042      0.049      0.049      0.056
812      PI      0.042      0.049      0.056      0.056      0.063      0.063      0.070      0.070      0.070      0.077
813      PI      0.084      0.092      0.106      0.106      0.113      0.120      0.134      0.141      0.148      0.155
814      PI      0.106      0.106      0.141      0.141      0.134      0.134      0.120      0.127      0.176      0.183
815      PI      0.197      0.204      0.239      0.239      0.162      0.162      0.190      0.183      0.183      0.176
816      PI      0.169      0.162      0.134      0.134      0.028      0.028      0.021      0.021      0.035      0.035
817      PI      0.035      0.028      0.028      0.028      0.021      0.014      0.021      0.028      0.021      0.014
818      PI      0.021      0.021      0.021      0.014      0.021      0.014      0.021      0.014      0.021      0.014
819      PI      0.014      0.014      0.014      0.014      0.014      0.014
820      LS      69.6
821      KM      UHG FROM MOUNTAIN S-GRAPH
822      UI      681.      926.      1473.      2175.      2292.      1564.      1189.      938.      682.      586.
823      UI      562.      474.      436.      394.      367.      353.      293.      273.      262.      244.
824      UI      227.      209.      203.      195.      182.      159.      159.      138.      130.      130.
825      UI      122.      115.      115.      115.      104.      103.      103.      103.      92.      90.
826      UI      90.2      90.2      87.5      76.2      76.2      76.2      76.2      76.2      63.3      58.1
827      UI      58.1      58.1      58.1      58.1      58.1      49.9      42.2      42.2      42.2      42.2
828      UI      42.2      42.2      42.2      42.2      42.2      25.6      15.4      15.4      15.4      15.4
829      UI      15.4      15.4      15.4      15.4      15.4      15.4      15.4      15.4      15.4      15.4
830      UI      15.4      15.4      15.4      15.4      15.4      15.4      15.4      15.4      15.4      15.4
831      UI      15.4      15.4      9.1

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1

HEC-1 INPUT

PAGE 18

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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
840      KK  Node11
841      KM
842      KO
843      BA      1.88

```

844	KM	SANTA MARGARITA STORMS									
845	PB	7.37									
846	IN	15									
847	PI	0.015	0.022	0.022	0.029	0.022	0.022	0.022	0.029	0.029	0.029
848	PI	0.037	0.037	0.037	0.037	0.037	0.044	0.044	0.052	0.052	0.059
849	PI	0.044	0.052	0.059	0.059	0.066	0.066	0.074	0.074	0.074	0.081
850	PI	0.088	0.096	0.111	0.111	0.118	0.125	0.140	0.147	0.155	0.162
851	PI	0.111	0.111	0.147	0.147	0.140	0.140	0.125	0.133	0.184	0.192
852	PI	0.206	0.214	0.251	0.251	0.170	0.170	0.199	0.192	0.192	0.184
853	PI	0.177	0.170	0.140	0.140	0.029	0.029	0.022	0.022	0.037	0.037
854	PI	0.037	0.029	0.029	0.029	0.022	0.015	0.022	0.029	0.022	0.015
855	PI	0.022	0.022	0.022	0.015	0.022	0.015	0.022	0.015	0.022	0.015
856	PI	0.015	0.015	0.015	0.015	0.015	0.015	0.022	0.015	0.022	0.015
857	LS	80.8									
858	KM	UHG FROM MOUNTAIN S-GRAPH									
859	UI	922.	558.	258.	161.	115.	82.	66.	57.	48.	38.
860	UI	31.9	25.5	18.5	9.3	9.3	9.3	9.3	7.4		
861	KK	Node72									
862	KM										
863	KO					22					
864	HC	2									
865	KK	Node41									
866	KM										
867	KO					22					
868	HC	2									
869	KK	3									
870	KM										
871	KO					22					
872	RD	50424	.0119	.03		TRAP	100	2.0			
873	KK	Node16									
874	KM										
875	KO					22					
876	BA	32.84									
877	KM	SANTA MARGARITA STORMS									
878	PB	6.23									
879	IN	15									
880	PI	0.012	0.019	0.019	0.025	0.019	0.019	0.019	0.025	0.025	0.025
881	PI	0.031	0.031	0.031	0.031	0.031	0.037	0.037	0.044	0.044	0.050
882	PI	0.037	0.044	0.050	0.050	0.056	0.056	0.062	0.062	0.062	0.069
883	PI	0.075	0.081	0.093	0.093	0.100	0.106	0.118	0.125	0.131	0.137
884	PI	0.093	0.093	0.125	0.125	0.118	0.118	0.106	0.112	0.156	0.162
885	PI	0.174	0.181	0.212	0.212	0.143	0.143	0.168	0.162	0.162	0.156
886	PI	0.150	0.143	0.118	0.118	0.025	0.025	0.019	0.019	0.031	0.031
887	PI	0.031	0.025	0.025	0.025	0.019	0.012	0.019	0.025	0.019	0.012
888	PI	0.019	0.019	0.019	0.012	0.019	0.012	0.019	0.012	0.019	0.012
889	PI	0.012	0.012	0.012	0.012	0.012	0.012	0.019	0.012	0.019	0.012

HEC-1 INPUT

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LINE	ID	1	2	3	4	5	6	7	8	9	10
890	LS	78.3									
891	KM	UHG FROM MOUNTAIN S-GRAPH									
892	UI	1357.	1838.	2858.	4217.	4714.	3204.	2431.	1954.	1431.	1170.
893	UI	1157.	960.	884.	810.	731.	731.	596.	560.	532.	493.
894	UI	477.	418.	415.	390.	390.	320.	316.	301.	260.	260.
895	UI	260.	229.	229.	229.	222.	205.	205.	205.	201.	180.
896	UI	180.	180.	180.	166.	152.	152.	152.	152.	152.	119.
897	UI	116.	116.	116.	116.	116.	116.	97.	84.	84.	84.
898	UI	84.2	84.2	84.2	84.2	84.2	84.2	55.9	30.6	30.6	30.6
899	UI	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
900	UI	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
901	UI	30.6	30.6	30.6	30.6	4.0					
902	KK	Node21									
903	KM										
904	KO					22					
905	BA	21.59									
906	KM	SANTA MARGARITA STORMS									
907	PB	4.76									
908	IN	15									
909	PI	0.010	0.014	0.014	0.019	0.014	0.014	0.014	0.019	0.019	0.019
910	PI	0.024	0.024	0.024	0.024	0.024	0.029	0.029	0.033	0.033	0.038
911	PI	0.029	0.033	0.038	0.038	0.043	0.043	0.048	0.048	0.048	0.052
912	PI	0.057	0.062	0.071	0.071	0.076	0.081	0.090	0.095	0.100	0.105
913	PI	0.071	0.071	0.095	0.095	0.090	0.090	0.081	0.086	0.119	0.124
914	PI	0.133	0.138	0.162	0.162	0.109	0.109	0.129	0.124	0.124	0.119
915	PI	0.114	0.109	0.090	0.090	0.019	0.019	0.014	0.014	0.024	0.024
916	PI	0.024	0.019	0.019	0.019	0.014	0.010	0.014	0.019	0.014	0.010
917	PI	0.014	0.014	0.014	0.010	0.014	0.010	0.014	0.010	0.014	0.010
918	PI	0.010	0.010	0.010	0.010	0.010	0.010				
919	LS	83.9									
920	KM	UHG FROM MOUNTAIN S-GRAPH									
921	UI	638.	785.	1013.	1415.	1947.	2552.	1889.	1501.	1235.	1102.
922	UI	867.	706.	566.	566.	553.	472.	437.	414.	389.	354.
923	UI	354.	343.	283.	278.	257.	257.	236.	236.	214.	202.
924	UI	202.	190.	189.	189.	155.	153.	153.	144.	126.	126.
925	UI	126.	126.	113.	111.	111.	111.	111.	101.	99.	99.
926	UI	99.3	99.3	96.1	87.1	87.1	87.1	87.1	87.1	87.1	75.3

927	UI	73.5	73.5	73.5	73.5	73.5	73.5	68.5	56.1	56.1	56.1
928	UI	56.1	56.1	56.1	56.1	56.1	56.1	50.7	40.7	40.7	40.7
929	UI	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
930	UI	23.2	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
931	UI	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
932	UI	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
933	UI	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
934	KK	Node39									
935	KM										
936	KO										
937	HC	3	22								

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LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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938	KK	2									
939	KM										
940	KO										
941	RD	39283	.0061	.04		22	100	2.5			
942	KK	Node19									
943	KM										
944	KO										
945	BA	47.79	22								
946	KM	SANTA MARGARITA STORMS									
947	PB	5.23									
948	IN	15									
949	PI	0.010	0.016	0.016	0.021	0.016	0.016	0.016	0.021	0.021	
950	PI	0.026	0.026	0.026	0.026	0.026	0.031	0.031	0.037	0.037	
951	PI	0.031	0.037	0.042	0.042	0.047	0.047	0.052	0.052	0.058	
952	PI	0.063	0.068	0.078	0.078	0.084	0.089	0.099	0.105	0.110	
953	PI	0.078	0.078	0.105	0.105	0.099	0.099	0.089	0.094	0.131	
954	PI	0.146	0.152	0.178	0.178	0.120	0.120	0.141	0.136	0.136	
955	PI	0.126	0.120	0.099	0.099	0.021	0.021	0.016	0.016	0.026	
956	PI	0.026	0.021	0.021	0.021	0.016	0.016	0.016	0.021	0.016	
957	PI	0.016	0.016	0.016	0.010	0.016	0.010	0.016	0.021	0.016	
958	PI	0.010	0.010	0.010	0.010	0.010	0.010	0.016	0.010	0.016	
959	LS	75.0									
960	KM	UHG FROM MOUNTAIN S-GRAPH									
961	UI	1248.	1464.	1870.	2630.	3267.	4151.	4973.	3740.	2826.	
962	UI	2240.	1776.	1486.	1205.	1122.	1046.	929.	863.	822.	
963	UI	789.	701.	701.	701.	617.	561.	540.	510.	510.	
964	UI	467.	444.	401.	401.	393.	374.	374.	374.	305.	
965	UI	303.	303.	254.	249.	249.	249.	249.	221.	220.	
966	UI	220.	220.	212.	197.	197.	197.	197.	197.	195.	
967	UI	173.	173.	173.	173.	173.	173.	147.	146.	146.	
968	UI	146.	146.	146.	146.	129.	111.	111.	111.	111.	
969	UI	111.	111.	111.	111.	111.	99.	81.	81.	81.	
970	UI	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	
971	UI	74.9	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	
972	UI	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	
973	UI	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	
974	UI	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	
975	UI	29.4	29.4	25.5							

976	KK	Node23									
977	KM										
978	KO										
979	BA	10.58	22								
980	KM	SANTA MARGARITA STORMS									
981	PB	4.38									
982	IN	15									
983	PI	0.009	0.013	0.013	0.018	0.013	0.013	0.013	0.018	0.018	
984	PI	0.022	0.022	0.022	0.022	0.022	0.026	0.026	0.031	0.031	
985	PI	0.026	0.031	0.035	0.035	0.039	0.039	0.044	0.044	0.048	
986	PI	0.053	0.057	0.066	0.066	0.070	0.074	0.083	0.088	0.092	
987	PI	0.066	0.066	0.088	0.088	0.083	0.083	0.074	0.079	0.110	
988	PI	0.123	0.127	0.149	0.149	0.101	0.101	0.118	0.114	0.114	
989	PI	0.105	0.101	0.083	0.083	0.018	0.018	0.013	0.013	0.022	

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LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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990	PI	0.022	0.018	0.018	0.018	0.013	0.009	0.013	0.018	0.013	0.009
991	PI	0.013	0.013	0.013	0.009	0.013	0.009	0.013	0.009	0.013	0.009
992	PI	0.009	0.009	0.009	0.009	0.009	0.009				
993	LS	69.2									
994	KM	UHG FROM MOUNTAIN S-GRAPH									
995	UI	453.	619.	1007.	1488.	1475.	1001.	780.	590.	436.	390.
996	UI	362.	310.	285.	254.	244.	221.	194.	177.	170.	162.
997	UI	143.	139.	131.	130.	111.	105.	102.	87.	87.	86.
998	UI	76.5	76.5	76.5	72.7	68.4	68.4	68.4	64.4	60.0	60.0
999	UI	60.0	60.0	51.3	50.6	50.6	50.6	50.6	44.2	38.6	38.6
1000	UI	38.6	38.6	38.6	38.6	33.7	28.1	28.1	28.1	28.1	28.1
1001	UI	28.1	28.1	28.1	28.1	15.0	10.2	10.2	10.2	10.2	10.2
1002	UI	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
1003	UI	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
1004	UI	10.2	0.0								

1005	KK	Node36									
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1006      KM
1007      KO
1008      HC          3          22

1009      KK 1
1010      KM
1011      KO          22
1012      RD 69010 0.002 .04 TRAP 150 5

1013      KK Node25
1014      KM
1015      KO          22
1016      BA 43.88
1017      KM SANTA MARGARITA STORMS
1018      PB 4.33
1019      IN 15
1020      PI 0.009 0.013 0.013 0.017 0.013 0.013 0.013 0.017 0.017 0.017
1021      PI 0.022 0.022 0.022 0.022 0.022 0.026 0.026 0.030 0.030 0.035
1022      PI 0.026 0.030 0.035 0.035 0.039 0.039 0.043 0.043 0.043 0.048
1023      PI 0.052 0.056 0.065 0.065 0.069 0.074 0.082 0.087 0.091 0.095
1024      PI 0.065 0.065 0.087 0.087 0.082 0.082 0.074 0.078 0.108 0.113
1025      PI 0.121 0.126 0.147 0.147 0.100 0.100 0.117 0.113 0.113 0.108
1026      PI 0.104 0.100 0.082 0.082 0.017 0.017 0.013 0.013 0.022 0.022
1027      PI 0.022 0.017 0.017 0.017 0.013 0.009 0.013 0.017 0.013 0.009
1028      PI 0.013 0.013 0.013 0.009 0.013 0.009 0.013 0.009 0.013 0.009
1029      PI 0.009 0.009 0.009 0.009 0.009 0.009 0.013 0.009 0.013 0.009
1030      LS 74.7
1031      KM UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
1032      UI 467. 467. 565. 637. 750. 912. 1058. 900. 1194. 1508.
1033      UI 1751. 1751. 2549. 3194. 4742. 5300. 2521. 2110. 1806. 1767.
1034      UI 1081. 1113. 1051. 1001. 1001. 962. 873. 701. 675. 637.
1035      UI 637. 637. 554. 539. 510. 500. 470. 438. 438. 360.
1036      UI 350. 350. 329. 318. 318. 312. 259. 259. 259. 259.
1037      UI 207. 189. 189. 189. 189. 189. 131. 113. 113. 113.
1038      UI 113. 113. 113. 113. 113. 113. 47. 24. 24. 24.
1039      UI 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2
1040      UI 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2
1041      UI 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2

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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1042      UI 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2
1043      UI 24.2 24.2 24.2 2.8

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1044      KK Node35
1045      KM
1046      KO          22
*** WARNING *** ZZ-CARD MISSING
1047      HC 2
1048      ZZ

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1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* SEPTEMBER 1990
* VERSION 4.0
*
* RUN DATE 12/17/1997 TIME 14:17:50
*
*****

```

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

```

Santa Margarita Watershed

3 IO

OUTPUT CONTROL VARIABLES

```

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

```

IT

HYDROGRAPH TIME DATA

```

NMIN      30 MINUTES IN COMPUTATION INTERVAL
IDATE      1 0 STARTING DATE
ITIME      0000 STARTING TIME
NQ         120 NUMBER OF HYDROGRAPH ORDINATES
NDDATE     3 0 ENDING DATE
NDTIME     1130 ENDING TIME
ICENT      19 CENTURY MARK

```

```

COMPUTATION INTERVAL .50 HOURS
TOTAL TIME BASE 59.50 HOURS

```

ENGLISH UNITS

```

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

```

*** **

*
4 KK * Node26 *
*

6 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

10 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 15 TIME INTERVAL IN MINUTES
JXDATE 1 0 STARTING DATE
JXTIME 0 STARTING TIME
UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

7 BA SUBBASIN CHARACTERISTICS
TAREA 50.52 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 6.27 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN

.03	.04	.04	.04	.05	.06	.06	.07	.08	.09
.08	.10	.11	.13	.13	.16	.19	.21	.24	.27
.19	.25	.24	.22	.32	.36	.43	.29	.33	.32
.29	.24	.05	.04	.06	.06	.05	.03	.04	.03
.04	.03	.03	.03	.03	.03	.03	.03		

21 LS SCS LOSS RATE
STRTL .62 INITIAL ABSTRACTION
CRVNBR 76.40 CURVE NUMBER
RTIMP .00 PERCENT IMPERVIOUS AREA

22 UI INPUT UNITGRAPH, 64 ORDINATES, VOLUME = 1.00

953.0	1172.0	1481.0	2075.0	2104.0	3231.0	3827.0	6496.0	10406.0	4971.0
3858.0	2366.0	2228.0	2042.0	1914.0	1510.0	1318.0	1300.0	1128.0	1047.0
971.0	893.0	726.0	708.0	650.0	637.0	529.0	529.0	437.0	386.0
386.0	344.0	231.0	231.0	231.0	231.0	231.0	119.0	49.0	49.0
49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
49.3	49.3	49.3	40.6						

HYDROGRAPH AT STATION Node26

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*		2	0600	61	.00	.00	.00	1251.	
1	0030	2	.03	.03	.00	0.	*		2	0630	62	.00	.00	.00	1118.	
1	0100	3	.04	.04	.00	0.	*		2	0700	63	.00	.00	.00	995.	
1	0130	4	.04	.04	.00	0.	*		2	0730	64	.00	.00	.00	868.	
1	0200	5	.04	.04	.00	0.	*		2	0800	65	.00	.00	.00	756.	
1	0230	6	.05	.05	.00	0.	*		2	0830	66	.00	.00	.00	672.	
1	0300	7	.06	.06	.00	0.	*		2	0900	67	.00	.00	.00	596.	
1	0330	8	.06	.06	.00	0.	*		2	0930	68	.00	.00	.00	519.	
1	0400	9	.07	.07	.00	0.	*		2	1000	69	.00	.00	.00	448.	
1	0430	10	.08	.08	.00	0.	*		2	1030	70	.00	.00	.00	387.	
1	0500	11	.09	.09	.00	0.	*		2	1100	71	.00	.00	.00	350.	
1	0530	12	.08	.08	.00	1.	*		2	1130	72	.00	.00	.00	329.	
1	0600	13	.10	.09	.01	6.	*		2	1200	73	.00	.00	.00	308.	
1	0630	14	.11	.10	.01	20.	*		2	1230	74	.00	.00	.00	287.	
1	0700	15	.13	.10	.02	46.	*		2	1300	75	.00	.00	.00	269.	
1	0730	16	.13	.10	.03	88.	*		2	1330	76	.00	.00	.00	255.	
1	0800	17	.16	.11	.05	154.	*		2	1400	77	.00	.00	.00	241.	
1	0830	18	.19	.12	.07	257.	*		2	1430	78	.00	.00	.00	229.	
1	0900	19	.21	.12	.09	407.	*		2	1500	79	.00	.00	.00	219.	
1	0930	20	.24	.13	.12	635.	*		2	1530	80	.00	.00	.00	208.	
1	1000	21	.27	.13	.14	968.	*		2	1600	81	.00	.00	.00	198.	

1	1030	22	.19	.08	.11	1341.	*	2	1630	82	.00	.00	.00	190.
1	1100	23	.25	.10	.15	1823.	*	2	1700	83	.00	.00	.00	180.
1	1130	24	.24	.08	.15	2364.	*	2	1730	84	.00	.00	.00	170.
1	1200	25	.22	.07	.15	2984.	*	2	1800	85	.00	.00	.00	159.
1	1230	26	.32	.09	.23	3777.	*	2	1830	86	.00	.00	.00	149.
1	1300	27	.36	.09	.26	4610.	*	2	1900	87	.00	.00	.00	140.
1	1330	28	.43	.10	.33	5596.	*	2	1930	88	.00	.00	.00	132.
1	1400	29	.29	.06	.23	6376.	*	2	2000	89	.00	.00	.00	124.
1	1430	30	.33	.06	.27	6967.	*	2	2030	90	.00	.00	.00	113.
1	1500	31	.32	.06	.26	7936.	*	2	2100	91	.00	.00	.00	99.
1	1530	32	.29	.05	.25	8654.	*	2	2130	92	.00	.00	.00	84.
1	1600	33	.24	.04	.20	9597.	*	2	2200	93	.00	.00	.00	72.
1	1630	34	.05	.01	.04	10642.	*	2	2230	94	.00	.00	.00	59.
1	1700	35	.04	.01	.03	11484.	*	2	2300	95	.00	.00	.00	46.
1	1730	36	.06	.01	.05	11952.	*	2	2330	96	.00	.00	.00	34.
1	1800	37	.06	.01	.05	11512.	*	3	0000	97	.00	.00	.00	26.
1	1830	38	.05	.01	.04	11527.	*	3	0030	98	.00	.00	.00	24.
1	1900	39	.03	.00	.03	11019.	*	3	0100	99	.00	.00	.00	22.
1	1930	40	.04	.01	.04	10317.	*	3	0130	100	.00	.00	.00	19.
1	2000	41	.03	.00	.03	9007.	*	3	0200	101	.00	.00	.00	17.
1	2030	42	.04	.00	.03	7281.	*	3	0230	102	.00	.00	.00	15.
1	2100	43	.03	.00	.03	6466.	*	3	0300	103	.00	.00	.00	13.
1	2130	44	.03	.00	.03	6000.	*	3	0330	104	.00	.00	.00	12.
1	2200	45	.03	.00	.03	5628.	*	3	0400	105	.00	.00	.00	10.
1	2230	46	.03	.00	.03	5209.	*	3	0430	106	.00	.00	.00	9.
1	2300	47	.03	.00	.02	4792.	*	3	0500	107	.00	.00	.00	7.
1	2330	48	.03	.00	.02	4501.	*	3	0530	108	.00	.00	.00	6.
2	0000	49	.03	.00	.02	4200.	*	3	0600	109	.00	.00	.00	4.
2	0030	50	.00	.00	.00	3973.	*	3	0630	110	.00	.00	.00	3.
2	0100	51	.00	.00	.00	3702.	*	3	0700	111	.00	.00	.00	2.
2	0130	52	.00	.00	.00	3462.	*	3	0730	112	.00	.00	.00	1.
2	0200	53	.00	.00	.00	3225.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	2990.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	2723.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	2487.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	2205.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	1837.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	1598.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	1399.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 6.27, TOTAL LOSS = 2.62, TOTAL EXCESS = 3.65

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	
(CFS)	(HR)	(CFS)		24-HR	72-HR
11952.	17.50	10064.	4812.	2002.	2002.
		(INCHES)	1.852	3.542	3.653
		(AC-FT)	4991.	9544.	9842.

CUMULATIVE AREA = 50.52 SQ MI

30 KK

* Skinne *

32 KO

OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

33 RS

STORAGE ROUTING

NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC 36609.00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

34 SV

STORAGE

.0	22284.0	23921.0	25559.0	27331.0	29104.0	30949.0	32866.0	34783.0	43800.0
44072.0	44616.0	45160.0	45568.0	45840.0	46520.0	47900.0	49300.0	50667.0	52000.0

36 SQ

DISCHARGE

0.	0.	0.	0.	0.	1.	1.	1.	1.	1.
65.	365.	820.	1250.	1495.	2250.	4400.	7125.	10250.	13750.

HYDROGRAPH AT STATION Skinne

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	1.	36609.00	*	1		2000	41	1.	42705.03	*	2		1600	81	753.	45079.58
1		0030	2	1.	36608.96	*	1		2030	42	1.	43041.52	*	2		1630	82	734.	45056.88
1		0100	3	1.	36608.93	*	1		2100	43	1.	43325.48	*	2		1700	83	715.	45034.59
1		0130	4	1.	36608.89	*	1		2130	44	1.	43583.00	*	2		1730	84	697.	45012.64
1		0200	5	1.	36608.86	*	1		2200	45	7.	43823.09	*	2		1800	85	679.	44991.01
1		0230	6	1.	36608.82	*	1		2230	46	59.	44045.64	*	2		1830	86	661.	44969.69
1		0300	7	1.	36608.78	*	1		2300	47	162.	44247.70	*	2		1900	87	643.	44948.70
1		0330	8	1.	36608.75	*	1		2330	48	263.	44430.93	*	2		1930	88	626.	44928.09
1		0400	9	1.	36608.71	*	2		0000	49	355.	44597.93	*	2		2000	89	609.	44907.86
1		0430	10	1.	36608.67	*	2		0030	50	477.	44749.61	*	2		2030	90	592.	44887.93
1		0500	11	1.	36608.64	*	2		0100	51	591.	44886.13	*	2		2100	91	576.	44868.16
1		0530	12	1.	36608.61	*	2		0130	52	693.	45007.62	*	2		2130	92	559.	44848.48
1		0600	13	1.	36608.71	*	2		0200	53	783.	45115.31	*	2		2200	93	543.	44828.91
1		0630	14	1.	36609.20	*	2		0230	54	872.	45209.54	*	2		2230	94	527.	44809.51
1		0700	15	1.	36610.52	*	2		0300	55	957.	45289.78	*	2		2300	95	511.	44790.24
1		0730	16	1.	36613.23	*	2		0330	56	1027.	45356.43	*	2		2330	96	495.	44771.12
1		0800	17	1.	36618.18	*	2		0400	57	1083.	45409.77	*	3		0000	97	479.	44752.23
1		0830	18	1.	36626.63	*	2		0430	58	1123.	45447.68	*	3		0030	98	464.	44733.78
1		0900	19	1.	36640.32	*	2		0500	59	1149.	45471.71	*	3		0100	99	449.	44715.87
1		0930	20	1.	36661.81	*	2		0530	60	1163.	45485.87	*	3		0130	100	434.	44698.48
1		1000	21	1.	36694.89	*	2		0600	61	1170.	45492.40	*	3		0200	101	420.	44681.58
1		1030	22	1.	36742.56	*	2		0630	62	1171.	45492.96	*	3		0230	102	406.	44665.17
1		1100	23	1.	36807.90	*	2		0700	63	1166.	45488.33	*	3		0300	103	393.	44649.25
1		1130	24	1.	36894.38	*	2		0730	64	1156.	45478.85	*	3		0330	104	380.	44633.80
1		1200	25	1.	37004.85	*	2		0800	65	1141.	45464.93	*	3		0400	105	367.	44618.81
1		1230	26	1.	37144.50	*	2		0830	66	1123.	45447.64	*	3		0430	106	358.	44604.20
1		1300	27	1.	37317.74	*	2		0900	67	1102.	45427.87	*	3		0500	107	351.	44589.87
1		1330	28	1.	37528.55	*	2		0930	68	1079.	45405.82	*	3		0530	108	343.	44575.82
1		1400	29	1.	37775.87	*	2		1000	69	1054.	45381.73	*	3		0600	109	335.	44562.02
1		1430	30	1.	38051.53	*	2		1030	70	1027.	45355.98	*	3		0630	110	328.	44548.48
1		1500	31	1.	38359.40	*	2		1100	71	998.	45329.36	*	3		0700	111	320.	44535.20
1		1530	32	1.	38702.12	*	2		1130	72	970.	45302.70	*	3		0730	112	313.	44522.17
1		1600	33	1.	39079.17	*	2		1200	73	943.	45276.33	*	3		0800	113	306.	44509.39
1		1630	34	1.	39497.30	*	2		1230	74	915.	45250.25	*	3		0830	114	299.	44496.88
1		1700	35	1.	39954.41	*	2		1300	75	888.	45224.48	*	3		0900	115	293.	44484.65
1		1730	36	1.	40438.59	*	2		1330	76	861.	45199.16	*	3		0930	116	286.	44472.70
1		1800	37	1.	40923.34	*	2		1400	77	835.	45174.36	*	3		1000	117	280.	44461.01
1		1830	38	1.	41399.29	*	2		1430	78	812.	45150.04	*	3		1030	118	273.	44449.59
1		1900	39	1.	41865.06	*	2		1500	79	792.	45126.17	*	3		1100	119	267.	44438.43
1		1930	40	1.	42305.82	*	2		1530	80	772.	45102.69	*	3		1130	120	261.	44427.51

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)				
+	1171.	30.50	(CFS)			
			1134.	839.	412.	412.
		(INCHES)	.209	.618	.751	.751
		(AC-FT)	563.	1665.	2024.	2024.

PEAK STORAGE	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(AC-FT)	(HR)				
+	45493.	30.50				
			45458.	45156.	42459.	42459.

CUMULATIVE AREA = 50.52 SQ MI

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38 KK

* 14 *

* *

40 KO

OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL

IPLT 0 PLOT CONTROL

QSCAL 0. HYDROGRAPH PLOT SCALE

IPNCH 0 PUNCH COMPUTED HYDROGRAPH

IOUT 22 SAVE HYDROGRAPH ON THIS UNIT

ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED

ISAV2 120 LAST ORDINATE PUNCHED OR SAVED

TIMINT .500 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

41 RD MUSKINGUM-CUNGE CHANNEL ROUTING
 L 33528. CHANNEL LENGTH
 S .0095 SLOPE
 N .040 CHANNEL ROUGHNESS COEFFICIENT
 CA .00 CONTRIBUTING AREA
 SHAPE TRAP CHANNEL SHAPE
 WD 200.00 BOTTOM WIDTH OR DIAMETER
 Z 5.00 SIDE SLOPE

COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	COMPUTATION TIME STEP		DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
		M	DT (MIN)					
MAIN	.14	1.61	30.00	4789.71	1172.33	1920.00	.73	5.21

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.14	1.61	30.00	1172.33	1920.00	.73
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2029E+04 EXCESS= .0000E+00 OUTFLOW= .1960E+04 BASIN STORAGE= .8543E+02 PERCENT ERROR= -.8

HYDROGRAPH AT STATION 14

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	0000	1	1.	*	1	1500	31	1.	*	2	0600	61	1133.	*	2	2100	91	634.					
1	0030	2	1.	*	1	1530	32	1.	*	2	0630	62	1151.	*	2	2130	92	618.					
1	0100	3	1.	*	1	1600	33	1.	*	2	0700	63	1169.	*	2	2200	93	601.					
1	0130	4	1.	*	1	1630	34	1.	*	2	0730	64	1169.	*	2	2230	94	585.					
1	0200	5	1.	*	1	1700	35	1.	*	2	0800	65	1172.	*	2	2300	95	570.					
1	0230	6	1.	*	1	1730	36	1.	*	2	0830	66	1163.	*	2	2330	96	554.					
1	0300	7	1.	*	1	1800	37	1.	*	2	0900	67	1154.	*	3	0000	97	538.					
1	0330	8	1.	*	1	1830	38	1.	*	2	0930	68	1137.	*	3	0030	98	523.					
1	0400	9	1.	*	1	1900	39	1.	*	2	1000	69	1119.	*	3	0100	99	507.					
1	0430	10	1.	*	1	1930	40	1.	*	2	1030	70	1098.	*	3	0130	100	492.					
1	0500	11	1.	*	1	2000	41	1.	*	2	1100	71	1075.	*	3	0200	101	477.					
1	0530	12	1.	*	1	2030	42	1.	*	2	1130	72	1050.	*	3	0230	102	462.					
1	0600	13	1.	*	1	2100	43	1.	*	2	1200	73	1024.	*	3	0300	103	448.					
1	0630	14	1.	*	1	2130	44	1.	*	2	1230	74	996.	*	3	0330	104	434.					
1	0700	15	1.	*	1	2200	45	1.	*	2	1300	75	969.	*	3	0400	105	421.					
1	0730	16	1.	*	1	2230	46	1.	*	2	1330	76	942.	*	3	0430	106	408.					
1	0800	17	1.	*	1	2300	47	1.	*	2	1400	77	916.	*	3	0500	107	395.					
1	0830	18	1.	*	1	2330	48	1.	*	2	1430	78	889.	*	3	0530	108	383.					
1	0900	19	1.	*	2	0000	49	1.	*	2	1500	79	864.	*	3	0600	109	371.					
1	0930	20	1.	*	2	0030	50	1.	*	2	1530	80	839.	*	3	0630	110	361.					
1	1000	21	1.	*	2	0100	51	1.	*	2	1600	81	815.	*	3	0700	111	353.					
1	1030	22	1.	*	2	0130	52	3.	*	2	1630	82	795.	*	3	0730	112	346.					
1	1100	23	1.	*	2	0200	53	128.	*	2	1700	83	776.	*	3	0800	113	339.					
1	1130	24	1.	*	2	0230	54	597.	*	2	1730	84	758.	*	3	0830	114	331.					
1	1200	25	1.	*	2	0300	55	593.	*	2	1800	85	739.	*	3	0900	115	324.					
1	1230	26	1.	*	2	0330	56	802.	*	2	1830	86	721.	*	3	0930	116	317.					
1	1300	27	1.	*	2	0400	57	845.	*	2	1900	87	703.	*	3	1000	117	310.					
1	1330	28	1.	*	2	0430	58	963.	*	2	1930	88	685.	*	3	1030	118	303.					
1	1400	29	1.	*	2	0500	59	1036.	*	2	2000	89	668.	*	3	1100	119	297.					
1	1430	30	1.	*	2	0530	60	1089.	*	2	2030	90	651.	*	3	1130	120	290.					

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	59.50-HR
1172.	32.00	1134.	839.	397.	397.
(INCHES)		.209	.618	.725	.725
(AC-FT)		562.	1665.	1954.	1954.

CUMULATIVE AREA = 50.52 SQ MI

42 KK Node2

44 KO OUTPUT CONTROL VARIABLES
 IPRNT 0 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
 ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
 TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

48 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

45 BA SUBBASIN CHARACTERISTICS
 TAREA 8.10 SUBBASIN AREA

PRECIPITATION DATA

47 PB STORM 4.87 BASIN TOTAL PRECIPITATION

49 PI INCREMENTAL PRECIPITATION PATTERN

.02	.03	.03	.03	.04	.05	.05	.05	.06	.07
.06	.08	.09	.10	.10	.12	.15	.16	.19	.21
.15	.19	.19	.17	.25	.28	.33	.22	.26	.25
.23	.19	.04	.03	.05	.04	.03	.03	.03	.03
.03	.03	.03	.03	.03	.02	.02	.02		

59 LS SCS LOSS RATE
 STRTL .58 INITIAL ABSTRACTION
 CRVNR 77.60 CURVE NUMBER
 RTIMP .00 PERCENT IMPERVIOUS AREA

60 UI INPUT UNITGRAPH, 58 ORDINATES, VOLUME = 1.00

260.0	381.0	555.0	812.0	990.0	1129.0	1059.0	804.0	553.0	459.0
359.0	297.0	260.0	215.0	199.0	169.0	151.0	139.0	119.0	112.0
99.0	96.1	87.3	87.3	71.7	69.0	69.0	57.4	55.0	55.0
54.6	43.7	43.7	43.7	43.7	40.1	28.8	28.8	28.8	28.8
28.8	28.8	28.8	14.3	14.2	14.2	14.2	14.2	14.2	14.2
14.2	14.2	14.2	14.2	14.2	14.2	14.2	10.2		

HYDROGRAPH AT STATION Node2

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*		2	0600	61	.00	.00	.00	133.	
1	0030	2	.02	.02	.00	0.	*		2	0630	62	.00	.00	.00	123.	
1	0100	3	.03	.03	.00	0.	*		2	0700	63	.00	.00	.00	114.	
1	0130	4	.03	.03	.00	0.	*		2	0730	64	.00	.00	.00	104.	
1	0200	5	.03	.03	.00	0.	*		2	0800	65	.00	.00	.00	98.	
1	0230	6	.04	.04	.00	0.	*		2	0830	66	.00	.00	.00	91.	
1	0300	7	.05	.05	.00	0.	*		2	0900	67	.00	.00	.00	85.	
1	0330	8	.05	.05	.00	0.	*		2	0930	68	.00	.00	.00	79.	
1	0400	9	.05	.05	.00	0.	*		2	1000	69	.00	.00	.00	73.	
1	0430	10	.06	.06	.00	0.	*		2	1030	70	.00	.00	.00	69.	
1	0500	11	.07	.07	.00	0.	*		2	1100	71	.00	.00	.00	64.	
1	0530	12	.06	.06	.00	0.	*		2	1130	72	.00	.00	.00	60.	
1	0600	13	.08	.08	.00	0.	*		2	1200	73	.00	.00	.00	56.	
1	0630	14	.09	.08	.00	1.	*		2	1230	74	.00	.00	.00	52.	
1	0700	15	.10	.09	.01	4.	*		2	1300	75	.00	.00	.00	48.	
1	0730	16	.10	.09	.02	9.	*		2	1330	76	.00	.00	.00	44.	
1	0800	17	.12	.10	.03	20.	*		2	1400	77	.00	.00	.00	42.	
1	0830	18	.15	.11	.04	39.	*		2	1430	78	.00	.00	.00	40.	
1	0900	19	.16	.11	.05	68.	*		2	1500	79	.00	.00	.00	38.	
1	0930	20	.19	.12	.07	111.	*		2	1530	80	.00	.00	.00	36.	
1	1000	21	.21	.11	.09	169.	*		2	1600	81	.00	.00	.00	33.	
1	1030	22	.15	.07	.07	233.	*		2	1630	82	.00	.00	.00	31.	
1	1100	23	.19	.09	.10	311.	*		2	1700	83	.00	.00	.00	29.	
1	1130	24	.19	.08	.11	395.	*		2	1730	84	.00	.00	.00	26.	
1	1200	25	.17	.07	.10	477.	*		2	1800	85	.00	.00	.00	23.	
1	1230	26	.25	.09	.16	569.	*		2	1830	86	.00	.00	.00	19.	
1	1300	27	.28	.09	.19	665.	*		2	1900	87	.00	.00	.00	16.	
1	1330	28	.33	.09	.24	778.	*		2	1930	88	.00	.00	.00	13.	
1	1400	29	.22	.06	.17	891.	*		2	2000	89	.00	.00	.00	10.	
1	1430	30	.26	.06	.20	1019.	*		2	2030	90	.00	.00	.00	8.	
1	1500	31	.25	.05	.19	1152.	*		2	2100	91	.00	.00	.00	6.	
1	1530	32	.23	.05	.18	1273.	*		2	2130	92	.00	.00	.00	5.	

1	1600	33	.19	.04	.15	1366.	*	2	2200	93	.00	.00	.00	5.
1	1630	34	.04	.01	.03	1389.	*	2	2230	94	.00	.00	.00	4.
1	1700	35	.03	.01	.02	1370.	*	2	2300	95	.00	.00	.00	4.
1	1730	36	.05	.01	.04	1315.	*	2	2330	96	.00	.00	.00	3.
1	1800	37	.04	.01	.04	1220.	*	3	0000	97	.00	.00	.00	3.
1	1830	38	.04	.01	.03	1089.	*	3	0030	98	.00	.00	.00	2.
1	1900	39	.02	.00	.02	942.	*	3	0100	99	.00	.00	.00	2.
1	1930	40	.03	.01	.03	813.	*	3	0130	100	.00	.00	.00	2.
1	2000	41	.02	.00	.02	716.	*	3	0200	101	.00	.00	.00	2.
1	2030	42	.03	.01	.02	651.	*	3	0230	102	.00	.00	.00	1.
1	2100	43	.02	.00	.02	593.	*	3	0300	103	.00	.00	.00	1.
1	2130	44	.02	.00	.02	544.	*	3	0330	104	.00	.00	.00	1.
1	2200	45	.02	.00	.02	505.	*	3	0400	105	.00	.00	.00	0.
1	2230	46	.02	.00	.02	472.	*	3	0430	106	.00	.00	.00	0.
1	2300	47	.02	.00	.02	444.	*	3	0500	107	.00	.00	.00	0.
1	2330	48	.02	.00	.02	418.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.02	.00	.02	397.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	372.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	348.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	322.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	294.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	265.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	235.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	208.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	186.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	169.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	155.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	143.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 4.87, TOTAL LOSS = 2.30, TOTAL EXCESS = 2.57

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
1389.	16.50		1152.	536.	225.	225.
		(INCHES)	1.322	2.460	2.565	2.565
		(AC-FT)	571.	1063.	1108.	1108.
CUMULATIVE AREA =			8.10 SQ MI			

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67 KK

* Node6 *

69 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

73 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	15	TIME INTERVAL IN MINUTES
JXDATE	1	STARTING DATE
JXTIME	0	STARTING TIME

UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

70 BA SUBBASIN CHARACTERISTICS

TAREA	27.55	SUBBASIN AREA
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PRECIPITATION DATA

72 PB STORM 5.14 BASIN TOTAL PRECIPITATION

74 PI INCREMENTAL PRECIPITATION PATTERN

.02	.04	.03	.04	.04	.05	.05	.06	.07	.08
.07	.08	.09	.10	.11	.13	.15	.17	.20	.22
.15	.21	.20	.18	.26	.29	.35	.24	.27	.26
.24	.20	.04	.03	.05	.05	.04	.03	.04	.03
.03	.03	.03	.03	.03	.02	.02	.02		

84 LS SCS LOSS RATE

STRTL	.66	INITIAL ABSTRACTION
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CRVNBR 75.10 CURVE NUMBER
RTIMP .00 PERCENT IMPERVIOUS AREA

85 UI

INPUT UNITGRAPH, 99 ORDINATES, VOLUME = 1.00

491.0	581.0	742.0	929.0	1158.0	1485.0	1727.0	1964.0	2154.0	2235.0
1977.0	2201.0	1682.0	1436.0	1076.0	982.0	896.0	736.0	674.0	589.0
588.0	491.0	452.0	421.0	396.0	389.0	327.0	327.0	286.0	281.0
265.0	236.0	236.0	222.0	196.0	196.0	196.0	180.0	173.0	173.0
173.0	151.0	137.0	137.0	137.0	137.0	125.0	109.0	109.0	109.0
109.0	109.0	109.0	88.0	87.0	87.0	87.0	87.0	87.0	87.0
86.6	65.6	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
57.2	57.2	57.2	48.8	28.2	28.2	28.2	28.2	28.2	28.2
28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	26.1	28.2

HYDROGRAPH AT STATION Node6

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*	2	0600	61	.00	.00	.00	722.	
1	0030	2	.03	.03	.00	0.	*	2	0630	62	.00	.00	.00	670.	
1	0100	3	.04	.04	.00	0.	*	2	0700	63	.00	.00	.00	625.	
1	0130	4	.03	.03	.00	0.	*	2	0730	64	.00	.00	.00	587.	
1	0200	5	.04	.04	.00	0.	*	2	0800	65	.00	.00	.00	553.	
1	0230	6	.04	.04	.00	0.	*	2	0830	66	.00	.00	.00	523.	
1	0300	7	.05	.05	.00	0.	*	2	0900	67	.00	.00	.00	496.	
1	0330	8	.05	.05	.00	0.	*	2	0930	68	.00	.00	.00	472.	
1	0400	9	.06	.06	.00	0.	*	2	1000	69	.00	.00	.00	448.	
1	0430	10	.07	.07	.00	0.	*	2	1030	70	.00	.00	.00	426.	
1	0500	11	.08	.08	.00	0.	*	2	1100	71	.00	.00	.00	407.	
1	0530	12	.07	.07	.00	0.	*	2	1130	72	.00	.00	.00	389.	
1	0600	13	.08	.08	.00	0.	*	2	1200	73	.00	.00	.00	371.	
1	0630	14	.09	.09	.00	0.	*	2	1230	74	.00	.00	.00	352.	
1	0700	15	.10	.10	.01	3.	*	2	1300	75	.00	.00	.00	337.	
1	0730	16	.11	.10	.01	10.	*	2	1330	76	.00	.00	.00	325.	
1	0800	17	.13	.11	.02	23.	*	2	1400	77	.00	.00	.00	313.	
1	0830	18	.15	.12	.04	46.	*	2	1430	78	.00	.00	.00	301.	
1	0900	19	.17	.12	.05	81.	*	2	1500	79	.00	.00	.00	288.	
1	0930	20	.20	.13	.07	136.	*	2	1530	80	.00	.00	.00	277.	
1	1000	21	.22	.13	.09	213.	*	2	1600	81	.00	.00	.00	267.	
1	1030	22	.15	.08	.07	297.	*	2	1630	82	.00	.00	.00	258.	
1	1100	23	.21	.10	.10	415.	*	2	1700	83	.00	.00	.00	248.	
1	1130	24	.20	.09	.11	555.	*	2	1730	84	.00	.00	.00	239.	
1	1200	25	.18	.08	.10	714.	*	2	1800	85	.00	.00	.00	230.	
1	1230	26	.26	.10	.16	921.	*	2	1830	86	.00	.00	.00	222.	
1	1300	27	.29	.10	.19	1158.	*	2	1900	87	.00	.00	.00	215.	
1	1330	28	.35	.11	.24	1441.	*	2	1930	88	.00	.00	.00	207.	
1	1400	29	.24	.07	.17	1708.	*	2	2000	89	.00	.00	.00	198.	
1	1430	30	.27	.07	.20	2002.	*	2	2030	90	.00	.00	.00	190.	
1	1500	31	.26	.06	.20	2310.	*	2	2100	91	.00	.00	.00	182.	
1	1530	32	.24	.05	.19	2629.	*	2	2130	92	.00	.00	.00	174.	
1	1600	33	.20	.04	.15	2919.	*	2	2200	93	.00	.00	.00	166.	
1	1630	34	.04	.01	.03	3158.	*	2	2230	94	.00	.00	.00	158.	
1	1700	35	.03	.01	.02	3364.	*	2	2300	95	.00	.00	.00	152.	
1	1730	36	.05	.01	.04	3526.	*	2	2330	96	.00	.00	.00	148.	
1	1800	37	.05	.01	.04	3638.	*	3	0000	97	.00	.00	.00	144.	
1	1830	38	.04	.01	.03	3662.	*	3	0030	98	.00	.00	.00	139.	
1	1900	39	.03	.00	.02	3629.	*	3	0100	99	.00	.00	.00	134.	
1	1930	40	.04	.01	.03	3473.	*	3	0130	100	.00	.00	.00	128.	
1	2000	41	.03	.00	.02	3289.	*	3	0200	101	.00	.00	.00	121.	
1	2030	42	.03	.01	.02	3051.	*	3	0230	102	.00	.00	.00	114.	
1	2100	43	.03	.00	.02	2806.	*	3	0300	103	.00	.00	.00	108.	
1	2130	44	.03	.00	.02	2567.	*	3	0330	104	.00	.00	.00	101.	
1	2200	45	.03	.00	.02	2307.	*	3	0400	105	.00	.00	.00	95.	
1	2230	46	.03	.00	.02	2111.	*	3	0430	106	.00	.00	.00	89.	
1	2300	47	.02	.00	.02	1950.	*	3	0500	107	.00	.00	.00	85.	
1	2330	48	.02	.00	.02	1826.	*	3	0530	108	.00	.00	.00	84.	
2	0000	49	.02	.00	.02	1706.	*	3	0600	109	.00	.00	.00	83.	
2	0030	50	.00	.00	.00	1588.	*	3	0630	110	.00	.00	.00	81.	
2	0100	51	.00	.00	.00	1496.	*	3	0700	111	.00	.00	.00	80.	
2	0130	52	.00	.00	.00	1404.	*	3	0730	112	.00	.00	.00	79.	
2	0200	53	.00	.00	.00	1324.	*	3	0800	113	.00	.00	.00	78.	
2	0230	54	.00	.00	.00	1233.	*	3	0830	114	.00	.00	.00	77.	
2	0300	55	.00	.00	.00	1156.	*	3	0900	115	.00	.00	.00	76.	
2	0330	56	.00	.00	.00	1079.	*	3	0930	116	.00	.00	.00	75.	
2	0400	57	.00	.00	.00	1002.	*	3	1000	117	.00	.00	.00	73.	
2	0430	58	.00	.00	.00	925.	*	3	1030	118	.00	.00	.00	71.	
2	0500	59	.00	.00	.00	849.	*	3	1100	119	.00	.00	.00	69.	
2	0530	60	.00	.00	.00	787.	*	3	1130	120	.00	.00	.00	65.	

TOTAL RAINFALL = 5.14, TOTAL LOSS = 2.57, TOTAL EXCESS = 2.57

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
6-HR 24-HR 72-HR 59.50-HR

42.oh1

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+   (CFS)      (HR)
+   3662.      18.50      (CFS)      3259.      1692.      763.      763.
                                (INCHES)  1.100      2.283      2.555      2.555
                                (AC-FT)   1616.      3355.      3754.      3754.

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CUMULATIVE AREA = 27.55 SQ MI

96 KK

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*                               *
*   Node73                     *
*                               *
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98 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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99 HC

HYDROGRAPH COMBINATION

ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node73 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	0000	1	1.	*	1	1500	31	3463.	*	2	0600	61	1987.	*	2	2100	91	822.	
1	0030	2	1.	*	1	1530	32	3903.	*	2	0630	62	1944.	*	2	2130	92	797.	
1	0100	3	1.	*	1	1600	33	4286.	*	2	0700	63	1907.	*	2	2200	93	772.	
1	0130	4	1.	*	1	1630	34	4548.	*	2	0730	64	1859.	*	2	2230	94	747.	
1	0200	5	1.	*	1	1700	35	4735.	*	2	0800	65	1823.	*	2	2300	95	725.	
1	0230	6	1.	*	1	1730	36	4842.	*	2	0830	66	1776.	*	2	2330	96	705.	
1	0300	7	1.	*	1	1800	37	4859.	*	2	0900	67	1734.	*	3	0000	97	685.	
1	0330	8	1.	*	1	1830	38	4753.	*	2	0930	68	1688.	*	3	0030	98	664.	
1	0400	9	1.	*	1	1900	39	4572.	*	2	1000	69	1641.	*	3	0100	99	644.	
1	0430	10	1.	*	1	1930	40	4286.	*	2	1030	70	1593.	*	3	0130	100	622.	
1	0500	11	1.	*	1	2000	41	4006.	*	2	1100	71	1546.	*	3	0200	101	600.	
1	0530	12	1.	*	1	2030	42	3703.	*	2	1130	72	1499.	*	3	0230	102	577.	
1	0600	13	1.	*	1	2100	43	3400.	*	2	1200	73	1450.	*	3	0300	103	557.	
1	0630	14	2.	*	1	2130	44	3112.	*	2	1230	74	1400.	*	3	0330	104	536.	
1	0700	15	8.	*	1	2200	45	2813.	*	2	1300	75	1354.	*	3	0400	105	516.	
1	0730	16	20.	*	1	2230	46	2584.	*	2	1330	76	1312.	*	3	0430	106	497.	
1	0800	17	44.	*	1	2300	47	2395.	*	2	1400	77	1271.	*	3	0500	107	480.	
1	0830	18	86.	*	1	2330	48	2245.	*	2	1430	78	1230.	*	3	0530	108	466.	
1	0900	19	150.	*	2	0000	49	2104.	*	2	1500	79	1190.	*	3	0600	109	453.	
1	0930	20	248.	*	2	0030	50	1961.	*	2	1530	80	1152.	*	3	0630	110	442.	
1	1000	21	383.	*	2	0100	51	1846.	*	2	1600	81	1116.	*	3	0700	111	432.	
1	1030	22	531.	*	2	0130	52	1728.	*	2	1630	82	1084.	*	3	0730	112	425.	
1	1100	23	727.	*	2	0200	53	1746.	*	2	1700	83	1053.	*	3	0800	113	417.	
1	1130	24	951.	*	2	0230	54	2095.	*	2	1730	84	1023.	*	3	0830	114	408.	
1	1200	25	1192.	*	2	0300	55	1984.	*	2	1800	85	991.	*	3	0900	115	400.	
1	1230	26	1491.	*	2	0330	56	2089.	*	2	1830	86	961.	*	3	0930	116	392.	
1	1300	27	1824.	*	2	0400	57	2033.	*	2	1900	87	934.	*	3	1000	117	383.	
1	1330	28	2220.	*	2	0430	58	2057.	*	2	1930	88	906.	*	3	1030	118	375.	
1	1400	29	2600.	*	2	0500	59	2039.	*	2	2000	89	877.	*	3	1100	119	365.	
1	1430	30	3022.	*	2	0530	60	2019.	*	2	2030	90	849.	*	3	1130	120	356.	

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PEAK FLOW      TIME
(CFS)          (HR)
4859.          18.00
                (CFS)
                (INCHES)
                (AC-FT)
                4327.      2620.      1386.      1386.
                .467      1.131      1.483      1.483
                2146.      5197.      6816.      6816.

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CUMULATIVE AREA = 86.17 SQ MI

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*          *
100 KK    * 13 *
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102 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

103 RD MUSKINGUM-CUNGE CHANNEL ROUTING

L	7762.	CHANNEL LENGTH
S	.0025	SLOPE
N	.040	CHANNEL ROUGHNESS COEFFICIENT
CA	.00	CONTRIBUTING AREA
SHAPE	TRAP	CHANNEL SHAPE
WD	200.00	BOTTOM WIDTH OR DIAMETER
Z	5.00	SIDE SLOPE

COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	COMPUTATION TIME STEP		DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
		M	DT (MIN)					
MAIN	.07	1.61	21.91	3881.00	4847.54	1095.53	1.48	5.90

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.07	1.61	30.00	4847.47	1080.00	1.48
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .6811E+04 EXCESS= .0000E+00 OUTFLOW= .6786E+04 BASIN STORAGE= .3596E+02 PERCENT ERROR= -.2

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	0000	1	1.	*	1	1500	31	3172.	*	2	0600	61	2012.	*	2	2100	91	851.					
1	0030	2	1.	*	1	1530	32	3624.	*	2	0630	62	1978.	*	2	2130	92	825.					
1	0100	3	1.	*	1	1600	33	4051.	*	2	0700	63	1937.	*	2	2200	93	800.					
1	0130	4	1.	*	1	1630	34	4395.	*	2	0730	64	1897.	*	2	2230	94	775.					
1	0200	5	1.	*	1	1700	35	4623.	*	2	0800	65	1854.	*	2	2300	95	751.					
1	0230	6	1.	*	1	1730	36	4781.	*	2	0830	66	1814.	*	2	2330	96	729.					
1	0300	7	1.	*	1	1800	37	4847.	*	2	0900	67	1769.	*	3	0000	97	709.					
1	0330	8	1.	*	1	1830	38	4806.	*	2	0930	68	1726.	*	3	0030	98	688.					
1	0400	9	1.	*	1	1900	39	4676.	*	2	1000	69	1680.	*	3	0100	99	668.					
1	0430	10	1.	*	1	1930	40	4454.	*	2	1030	70	1634.	*	3	0130	100	648.					
1	0500	11	1.	*	1	2000	41	4171.	*	2	1100	71	1586.	*	3	0200	101	627.					
1	0530	12	1.	*	1	2030	42	3890.	*	2	1130	72	1540.	*	3	0230	102	605.					
1	0600	13	1.	*	1	2100	43	3591.	*	2	1200	73	1493.	*	3	0300	103	583.					
1	0630	14	1.	*	1	2130	44	3300.	*	2	1230	74	1444.	*	3	0330	104	562.					
1	0700	15	1.	*	1	2200	45	3015.	*	2	1300	75	1396.	*	3	0400	105	542.					
1	0730	16	3.	*	1	2230	46	2749.	*	2	1330	76	1351.	*	3	0430	106	522.					
1	0800	17	10.	*	1	2300	47	2533.	*	2	1400	77	1308.	*	3	0500	107	503.					
1	0830	18	26.	*	1	2330	48	2356.	*	2	1430	78	1268.	*	3	0530	108	486.					
1	0900	19	56.	*	2	0000	49	2212.	*	2	1500	79	1228.	*	3	0600	109	471.					
1	0930	20	107.	*	2	0030	50	2072.	*	2	1530	80	1188.	*	3	0630	110	458.					
1	1000	21	190.	*	2	0100	51	1940.	*	2	1600	81	1151.	*	3	0700	111	446.					
1	1030	22	310.	*	2	0130	52	1825.	*	2	1630	82	1116.	*	3	0730	112	436.					
1	1100	23	481.	*	2	0200	53	1746.	*	2	1700	83	1084.	*	3	0800	113	428.					
1	1130	24	694.	*	2	0230	54	1832.	*	2	1730	84	1053.	*	3	0830	114	420.					
1	1200	25	942.	*	2	0300	55	2046.	*	2	1800	85	1023.	*	3	0900	115	412.					
1	1230	26	1215.	*	2	0330	56	2026.	*	2	1830	86	992.	*	3	0930	116	404.					
1	1300	27	1538.	*	2	0400	57	2062.	*	2	1900	87	963.	*	3	1000	117	396.					
1	1330	28	1906.	*	2	0430	58	2040.	*	2	1930	88	935.	*	3	1030	118	387.					
1	1400	29	2315.	*	2	0500	59	2049.	*	2	2000	89	908.	*	3	1100	119	379.					
1	1430	30	2729.	*	2	0530	60	2034.	*	2	2030	90	879.	*	3	1130	120	376.					

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
4847.	18.00	4312.	2619.	1381.	1381.	
		(INCHES)	.465	1.130	1.478	1.478
		(AC-FT)	2138.	5194.	6792.	6792.

CUMULATIVE AREA = 86.17 SQ MI

104 KK

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*                               *
*   Node31                     *
*                               *
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106 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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SANTA MARGARITA STORMS

110 IN

TIME DATA FOR INPUT TIME SERIES

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JXMIN      15  TIME INTERVAL IN MINUTES
JXDATE     1  0  STARTING DATE
JXTIME     0  STARTING TIME
UHGM FROM VALLEY S-GRAPH

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SUBBASIN RUNOFF DATA

107 BA

SUBBASIN CHARACTERISTICS

TAREA 2.65 SUBBASIN AREA

PRECIPITATION DATA

109 PB

STORM 4.91 BASIN TOTAL PRECIPITATION

111 PI

INCREMENTAL PRECIPITATION PATTERN

.02	.04	.03	.04	.04	.05	.05	.05	.06	.07
.06	.08	.09	.10	.10	.12	.15	.16	.19	.21
.15	.20	.19	.17	.25	.28	.33	.23	.26	.25
.23	.19	.04	.03	.05	.05	.04	.03	.03	.03
.03	.03	.03	.03	.03	.02	.02	.02		

121 LS

SCS LOSS RATE

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STRTL      .58  INITIAL ABSTRACTION
CRVNR      77.40 CURVE NUMBER
RTIMP      .00  PERCENT IMPERVIOUS AREA

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122 UI

INPUT UNITGRAPH, 35 ORDINATES, VOLUME = 1.00

161.0	299.0	505.0	601.0	448.0	266.0	183.0	144.0	111.0	91.0
74.3	63.0	53.4	48.3	43.5	37.3	33.2	29.7	28.2	23.6
23.6	20.9	15.6	15.6	15.6	15.6	8.1	7.7	7.7	7.7
7.7	7.7	7.7	7.7	7.4					

HYDROGRAPH AT STATION Node31

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1		.00	.00	.00	0.	*	2	0600	61		.00	.00	.00	19.
1	0030	2		.02	.02	.00	0.	*	2	0630	62		.00	.00	.00	17.
1	0100	3		.03	.03	.00	0.	*	2	0700	63		.00	.00	.00	14.
1	0130	4		.03	.03	.00	0.	*	2	0730	64		.00	.00	.00	12.
1	0200	5		.03	.03	.00	0.	*	2	0800	65		.00	.00	.00	10.
1	0230	6		.04	.04	.00	0.	*	2	0830	66		.00	.00	.00	8.
1	0300	7		.05	.05	.00	0.	*	2	0900	67		.00	.00	.00	6.
1	0330	8		.05	.05	.00	0.	*	2	0930	68		.00	.00	.00	4.
1	0400	9		.05	.05	.00	0.	*	2	1000	69		.00	.00	.00	4.
1	0430	10		.06	.06	.00	0.	*	2	1030	70		.00	.00	.00	3.
1	0500	11		.07	.07	.00	0.	*	2	1100	71		.00	.00	.00	3.
1	0530	12		.06	.06	.00	0.	*	2	1130	72		.00	.00	.00	2.
1	0600	13		.08	.08	.00	0.	*	2	1200	73		.00	.00	.00	2.

42.ohl

1	0630	14	.09	.08	.00	1.	*	2	1230	74	.00	.00	.00	2.
1	0700	15	.10	.09	.01	2.	*	2	1300	75	.00	.00	.00	1.
1	0730	16	.10	.09	.02	7.	*	2	1330	76	.00	.00	.00	1.
1	0800	17	.12	.10	.03	15.	*	2	1400	77	.00	.00	.00	1.
1	0830	18	.15	.11	.04	29.	*	2	1430	78	.00	.00	.00	1.
1	0900	19	.16	.11	.05	48.	*	2	1500	79	.00	.00	.00	1.
1	0930	20	.19	.12	.07	73.	*	2	1530	80	.00	.00	.00	1.
1	1000	21	.21	.12	.10	106.	*	2	1600	81	.00	.00	.00	0.
1	1030	22	.15	.07	.07	139.	*	2	1630	82	.00	.00	.00	0.
1	1100	23	.20	.09	.11	175.	*	2	1700	83	.00	.00	.00	0.
1	1130	24	.19	.08	.11	205.	*	2	1730	84	.00	.00	.00	0.
1	1200	25	.17	.07	.10	229.	*	2	1800	85	.00	.00	.00	0.
1	1230	26	.25	.09	.16	263.	*	2	1830	86	.00	.00	.00	0.
1	1300	27	.28	.09	.19	303.	*	2	1900	87	.00	.00	.00	0.
1	1330	28	.33	.10	.24	360.	*	2	1930	88	.00	.00	.00	0.
1	1400	29	.23	.06	.17	421.	*	2	2000	89	.00	.00	.00	0.
1	1430	30	.26	.06	.20	480.	*	2	2030	90	.00	.00	.00	0.
1	1500	31	.25	.06	.20	516.	*	2	2100	91	.00	.00	.00	0.
1	1530	32	.23	.05	.18	532.	*	2	2130	92	.00	.00	.00	0.
1	1600	33	.19	.04	.15	540.	*	2	2200	93	.00	.00	.00	0.
1	1630	34	.04	.01	.03	522.	*	2	2230	94	.00	.00	.00	0.
1	1700	35	.03	.01	.02	475.	*	2	2300	95	.00	.00	.00	0.
1	1730	36	.05	.01	.04	401.	*	2	2330	96	.00	.00	.00	0.
1	1800	37	.04	.01	.04	322.	*	3	0000	97	.00	.00	.00	0.
1	1830	38	.04	.01	.03	267.	*	3	0030	98	.00	.00	.00	0.
1	1900	39	.02	.00	.02	236.	*	3	0100	99	.00	.00	.00	0.
1	1930	40	.03	.01	.03	213.	*	3	0130	100	.00	.00	.00	0.
1	2000	41	.02	.00	.02	191.	*	3	0200	101	.00	.00	.00	0.
1	2030	42	.03	.01	.02	173.	*	3	0230	102	.00	.00	.00	0.
1	2100	43	.02	.00	.02	159.	*	3	0300	103	.00	.00	.00	0.
1	2130	44	.02	.00	.02	148.	*	3	0330	104	.00	.00	.00	0.
1	2200	45	.02	.00	.02	138.	*	3	0400	105	.00	.00	.00	0.
1	2230	46	.02	.00	.02	130.	*	3	0430	106	.00	.00	.00	0.
1	2300	47	.02	.00	.02	122.	*	3	0500	107	.00	.00	.00	0.
1	2330	48	.02	.00	.02	115.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.02	.00	.02	108.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	98.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	88.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	75.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	61.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	50.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	42.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	37.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	32.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	28.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	24.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	22.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 4.91, TOTAL LOSS = 2.33, TOTAL EXCESS = 2.58

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)	(CFS)			
+	540.	16.00	428.	183.	74.	74.
			(INCHES)	2.564	2.582	2.582
			(AC-FT)	362.	365.	365.

CUMULATIVE AREA = 2.65 SQ MI

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127 KK * Node71 *
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129 KO      OUTPUT CONTROL VARIABLES
              IPRNT      0      PRINT CONTROL
              IPILOT      0      PLOT CONTROL
              QSCAL      0.    HYDROGRAPH PLOT SCALE
              IPNCH      0      PUNCH COMPUTED HYDROGRAPH
              IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
              ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
              ISAV2     120     LAST ORDINATE PUNCHED OR SAVED
              TIMINT     .500   TIME INTERVAL IN HOURS

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130 HC      HYDROGRAPH COMBINATION
              ICOMP       2     NUMBER OF HYDROGRAPHS TO COMBINE

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MAIN .09 1.61 13.91 3009.50 5180.48 1071.28 1.51 7.21

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN .09 1.61 30.00 5172.79 1080.00 1.51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7156E+04 EXCESS= .0000E+00 OUTFLOW= .7139E+04 BASIN STORAGE= .2371E+02 PERCENT ERROR= -.1

HYDROGRAPH AT STATION 12

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	0000	1	1.	*	1	1500	31	3489.	*	2	0600	61	2044.	*	2	2100	91	871.					
1	0030	2	1.	*	1	1530	32	3971.	*	2	0630	62	2013.	*	2	2130	92	844.					
1	0100	3	1.	*	1	1600	33	4428.	*	2	0700	63	1973.	*	2	2200	93	818.					
1	0130	4	1.	*	1	1630	34	4800.	*	2	0730	64	1931.	*	2	2230	94	793.					
1	0200	5	1.	*	1	1700	35	5035.	*	2	0800	65	1887.	*	2	2300	95	769.					
1	0230	6	1.	*	1	1730	36	5151.	*	2	0830	66	1844.	*	2	2330	96	745.					
1	0300	7	1.	*	1	1800	37	5173.	*	2	0900	67	1800.	*	3	0000	97	724.					
1	0330	8	1.	*	1	1830	38	5108.	*	2	0930	68	1755.	*	3	0030	98	704.					
1	0400	9	1.	*	1	1900	39	4973.	*	2	1000	69	1709.	*	3	0100	99	684.					
1	0430	10	1.	*	1	1930	40	4761.	*	2	1030	70	1663.	*	3	0130	100	664.					
1	0500	11	1.	*	1	2000	41	4480.	*	2	1100	71	1616.	*	3	0200	101	643.					
1	0530	12	1.	*	1	2030	42	4178.	*	2	1130	72	1569.	*	3	0230	102	622.					
1	0600	13	1.	*	1	2100	43	3874.	*	2	1200	73	1522.	*	3	0300	103	601.					
1	0630	14	1.	*	1	2130	44	3571.	*	2	1230	74	1474.	*	3	0330	104	579.					
1	0700	15	1.	*	1	2200	45	3278.	*	2	1300	75	1426.	*	3	0400	105	559.					
1	0730	16	3.	*	1	2230	46	2998.	*	2	1330	76	1378.	*	3	0430	106	539.					
1	0800	17	9.	*	1	2300	47	2753.	*	2	1400	77	1335.	*	3	0500	107	520.					
1	0830	18	23.	*	1	2330	48	2555.	*	2	1430	78	1293.	*	3	0530	108	501.					
1	0900	19	52.	*	2	0000	49	2391.	*	2	1500	79	1253.	*	3	0600	109	484.					
1	0930	20	101.	*	2	0030	50	2243.	*	2	1530	80	1214.	*	3	0630	110	470.					
1	1000	21	181.	*	2	0100	51	2099.	*	2	1600	81	1175.	*	3	0700	111	457.					
1	1030	22	302.	*	2	0130	52	1965.	*	2	1630	82	1138.	*	3	0730	112	445.					
1	1100	23	477.	*	2	0200	53	1855.	*	2	1700	83	1104.	*	3	0800	113	435.					
1	1130	24	716.	*	2	0230	54	1837.	*	2	1730	84	1073.	*	3	0830	114	427.					
1	1200	25	989.	*	2	0300	55	1977.	*	2	1800	85	1043.	*	3	0900	115	419.					
1	1230	26	1291.	*	2	0330	56	2078.	*	2	1830	86	1013.	*	3	0930	116	411.					
1	1300	27	1636.	*	2	0400	57	2077.	*	2	1900	87	983.	*	3	1000	117	403.					
1	1330	28	2047.	*	2	0430	58	2083.	*	2	1930	88	954.	*	3	1030	118	395.					
1	1400	29	2514.	*	2	0500	59	2068.	*	2	2000	89	927.	*	3	1100	119	387.					
1	1430	30	3001.	*	2	0530	60	2065.	*	2	2030	90	899.	*	3	1130	120	381.					

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)				
+	5173.	18.00	4645.	2776.	1452.	1452.
			.486	1.162	1.507	1.507
		(INCHES)				
		(AC-FT)	2303.	5505.	7140.	7140.

CUMULATIVE AREA = 88.82 SQ MI

*** **

135 KK *****
* *
* Node9 *
* *

137 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

141 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 15 TIME INTERVAL IN MINUTES

JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

138 BA SUBBASIN CHARACTERISTICS
 TAREA 2.52 SUBBASIN AREA

PRECIPITATION DATA

140 PB STORM 4.47 BASIN TOTAL PRECIPITATION

142 PI INCREMENTAL PRECIPITATION PATTERN

.02	.03	.03	.03	.04	.04	.04	.05	.06	.07
.06	.07	.08	.09	.09	.11	.13	.15	.17	.19
.13	.18	.17	.16	.23	.25	.30	.21	.24	.23
.21	.17	.04	.03	.04	.04	.04	.02	.03	.02
.03	.02	.02	.02	.02	.02	.02	.02		

152 LS SCS LOSS RATE

STRTL .65 INITIAL ABSTRACTION

CRVNBR 75.50 CURVE NUMBER

RTIMP .00 PERCENT IMPERVIOUS AREA

153 UI INPUT UNITGRAPH, 31 ORDINATES, VOLUME = 1.00

187.0	387.0	613.0	596.0	339.0	212.0	156.0	119.0	92.0	75.0
62.0	54.5	47.8	41.1	34.4	32.7	27.3	26.0	23.2	17.2
17.2	17.2	12.6	8.5	8.5	8.5	8.5	8.5	8.5	8.5
1.4									

HYDROGRAPH AT STATION Node9

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*		2	0600	61	.00	.00	.00	9.	
1	0030	2	.02	.02	.00	0.	*		2	0630	62	.00	.00	.00	7.	
1	0100	3	.03	.03	.00	0.	*		2	0700	63	.00	.00	.00	5.	
1	0130	4	.03	.03	.00	0.	*		2	0730	64	.00	.00	.00	4.	
1	0200	5	.03	.03	.00	0.	*		2	0800	65	.00	.00	.00	4.	
1	0230	6	.04	.04	.00	0.	*		2	0830	66	.00	.00	.00	3.	
1	0300	7	.04	.04	.00	0.	*		2	0900	67	.00	.00	.00	3.	
1	0330	8	.04	.04	.00	0.	*		2	0930	68	.00	.00	.00	2.	
1	0400	9	.05	.05	.00	0.	*		2	1000	69	.00	.00	.00	2.	
1	0430	10	.06	.06	.00	0.	*		2	1030	70	.00	.00	.00	1.	
1	0500	11	.07	.07	.00	0.	*		2	1100	71	.00	.00	.00	1.	
1	0530	12	.06	.06	.00	0.	*		2	1130	72	.00	.00	.00	1.	
1	0600	13	.07	.07	.00	0.	*		2	1200	73	.00	.00	.00	1.	
1	0630	14	.08	.08	.00	0.	*		2	1230	74	.00	.00	.00	1.	
1	0700	15	.09	.09	.00	0.	*		2	1300	75	.00	.00	.00	1.	
1	0730	16	.09	.09	.01	2.	*		2	1330	76	.00	.00	.00	0.	
1	0800	17	.11	.10	.01	5.	*		2	1400	77	.00	.00	.00	0.	
1	0830	18	.13	.11	.02	14.	*		2	1430	78	.00	.00	.00	0.	
1	0900	19	.15	.11	.04	28.	*		2	1500	79	.00	.00	.00	0.	
1	0930	20	.17	.12	.05	48.	*		2	1530	80	.00	.00	.00	0.	
1	1000	21	.19	.12	.07	75.	*		2	1600	81	.00	.00	.00	0.	
1	1030	22	.13	.08	.06	102.	*		2	1630	82	.00	.00	.00	0.	
1	1100	23	.18	.10	.08	130.	*		2	1700	83	.00	.00	.00	0.	
1	1130	24	.17	.09	.08	153.	*		2	1730	84	.00	.00	.00	0.	
1	1200	25	.16	.07	.08	175.	*		2	1800	85	.00	.00	.00	0.	
1	1230	26	.23	.10	.13	205.	*		2	1830	86	.00	.00	.00	0.	
1	1300	27	.26	.10	.15	242.	*		2	1900	87	.00	.00	.00	0.	
1	1330	28	.30	.11	.20	297.	*		2	1930	88	.00	.00	.00	0.	
1	1400	29	.21	.07	.14	353.	*		2	2000	89	.00	.00	.00	0.	
1	1430	30	.24	.07	.17	398.	*		2	2030	90	.00	.00	.00	0.	
1	1500	31	.23	.06	.16	422.	*		2	2100	91	.00	.00	.00	0.	
1	1530	32	.21	.05	.16	433.	*		2	2130	92	.00	.00	.00	0.	
1	1600	33	.17	.04	.13	442.	*		2	2200	93	.00	.00	.00	0.	
1	1630	34	.04	.01	.03	420.	*		2	2230	94	.00	.00	.00	0.	
1	1700	35	.03	.01	.02	368.	*		2	2300	95	.00	.00	.00	0.	
1	1730	36	.04	.01	.03	294.	*		2	2330	96	.00	.00	.00	0.	
1	1800	37	.04	.01	.03	230.	*		3	0000	97	.00	.00	.00	0.	
1	1830	38	.04	.01	.03	197.	*		3	0030	98	.00	.00	.00	0.	
1	1900	39	.02	.00	.02	177.	*		3	0100	99	.00	.00	.00	0.	
1	1930	40	.03	.01	.02	158.	*		3	0130	100	.00	.00	.00	0.	
1	2000	41	.02	.00	.02	141.	*		3	0200	101	.00	.00	.00	0.	
1	2030	42	.03	.01	.02	128.	*		3	0230	102	.00	.00	.00	0.	
1	2100	43	.02	.00	.02	118.	*		3	0300	103	.00	.00	.00	0.	
1	2130	44	.02	.00	.02	109.	*		3	0330	104	.00	.00	.00	0.	
1	2200	45	.02	.00	.02	102.	*		3	0400	105	.00	.00	.00	0.	
1	2230	46	.02	.00	.02	95.	*		3	0430	106	.00	.00	.00	0.	
1	2300	47	.02	.00	.01	90.	*		3	0500	107	.00	.00	.00	0.	
1	2330	48	.02	.00	.01	85.	*		3	0530	108	.00	.00	.00	0.	
2	0000	49	.02	.00	.01	79.	*		3	0600	109	.00	.00	.00	0.	
2	0030	50	.00	.00	.00	71.	*		3	0630	110	.00	.00	.00	0.	
2	0100	51	.00	.00	.00	61.	*		3	0700	111	.00	.00	.00	0.	

42.ohl

2	0130	52	.00	.00	.00	49.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	38.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	31.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	26.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	22.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	19.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	16.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	13.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	11.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 4.47, TOTAL LOSS = 2.40, TOTAL EXCESS = 2.07

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
442.	16.00	342.	1.260	139.	56.	56.
		(INCHES)	2.058	2.065	2.065	2.065
		(AC-FT)	169.	277.	277.	277.

CUMULATIVE AREA = 2.52 SQ MI

158 KK

*
* Node70 *
*

160 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLST	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

161 HC

HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node70 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	0000	1	1.	*	1	1500	31	3911.	*	2	0600	61	2053.	*	2	2100	91	871.	*				
1	0030	2	1.	*	1	1530	32	4404.	*	2	0630	62	2020.	*	2	2130	92	844.	*				
1	0100	3	1.	*	1	1600	33	4870.	*	2	0700	63	1978.	*	2	2200	93	818.	*				
1	0130	4	1.	*	1	1630	34	5220.	*	2	0730	64	1935.	*	2	2230	94	793.	*				
1	0200	5	1.	*	1	1700	35	5403.	*	2	0800	65	1891.	*	2	2300	95	769.	*				
1	0230	6	1.	*	1	1730	36	5446.	*	2	0830	66	1847.	*	2	2330	96	745.	*				
1	0300	7	1.	*	1	1800	37	5403.	*	2	0900	67	1803.	*	3	0000	97	724.	*				
1	0330	8	1.	*	1	1830	38	5306.	*	2	0930	68	1757.	*	3	0030	98	704.	*				
1	0400	9	1.	*	1	1900	39	5150.	*	2	1000	69	1711.	*	3	0100	99	684.	*				
1	0430	10	1.	*	1	1930	40	4919.	*	2	1030	70	1664.	*	3	0130	100	664.	*				
1	0500	11	1.	*	1	2000	41	4621.	*	2	1100	71	1617.	*	3	0200	101	643.	*				
1	0530	12	1.	*	1	2030	42	4306.	*	2	1130	72	1569.	*	3	0230	102	622.	*				
1	0600	13	1.	*	1	2100	43	3992.	*	2	1200	73	1523.	*	3	0300	103	601.	*				
1	0630	14	1.	*	1	2130	44	3680.	*	2	1230	74	1475.	*	3	0330	104	579.	*				
1	0700	15	1.	*	1	2200	45	3380.	*	2	1300	75	1426.	*	3	0400	105	559.	*				
1	0730	16	5.	*	1	2230	46	3093.	*	2	1330	76	1379.	*	3	0430	106	539.	*				
1	0800	17	14.	*	1	2300	47	2843.	*	2	1400	77	1335.	*	3	0500	107	520.	*				
1	0830	18	37.	*	1	2330	48	2640.	*	2	1430	78	1293.	*	3	0530	108	501.	*				
1	0900	19	80.	*	2	0000	49	2470.	*	2	1500	79	1253.	*	3	0600	109	484.	*				
1	0930	20	149.	*	2	0030	50	2314.	*	2	1530	80	1214.	*	3	0630	110	470.	*				
1	1000	21	256.	*	2	0100	51	2160.	*	2	1600	81	1175.	*	3	0700	111	457.	*				
1	1030	22	404.	*	2	0130	52	2014.	*	2	1630	82	1138.	*	3	0730	112	445.	*				
1	1100	23	608.	*	2	0200	53	1893.	*	2	1700	83	1104.	*	3	0800	113	435.	*				
1	1130	24	870.	*	2	0230	54	1869.	*	2	1730	84	1073.	*	3	0830	114	427.	*				
1	1200	25	1164.	*	2	0300	55	2003.	*	2	1800	85	1043.	*	3	0900	115	419.	*				
1	1230	26	1496.	*	2	0330	56	2100.	*	2	1830	86	1013.	*	3	0930	116	411.	*				
1	1300	27	1878.	*	2	0400	57	2095.	*	2	1900	87	983.	*	3	1000	117	403.	*				
1	1330	28	2344.	*	2	0430	58	2099.	*	2	1930	88	954.	*	3	1030	118	395.	*				
1	1400	29	2867.	*	2	0500	59	2082.	*	2	2000	89	927.	*	3	1100	119	387.	*				
1	1430	30	3399.	*	2	0530	60	2076.	*	2	2030	90	899.	*	3	1130	120	381.	*				

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*****
PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+  (CFS)      (HR)      6-HR      24-HR      72-HR      59.50-HR
+  5446.      17.50      (CFS)      4917.      2898.      1508.      1508.
                        (INCHES)      .500      1.180      1.523      1.523
                        (AC-FT)      2438.      5748.      7417.      7417.
CUMULATIVE AREA = 91.34 SQ MI

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162 KK

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

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Node27

164 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT      22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500  TIME INTERVAL IN HOURS

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SANTA MARGARITA STORMS

168 IN

TIME DATA FOR INPUT TIME SERIES

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JXMIN      15  TIME INTERVAL IN MINUTES
JXDATE      1  0  STARTING DATE
JXTIME      0  STARTING TIME
UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

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SUBBASIN RUNOFF DATA

165 BA

SUBBASIN CHARACTERISTICS

TAREA 16.92 SUBBASIN AREA

PRECIPITATION DATA

167 PB

STORM 5.29 BASIN TOTAL PRECIPITATION

169 PI

INCREMENTAL PRECIPITATION PATTERN

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.03 .04 .03 .04 .04 .05 .05 .06 .07 .08
.07 .08 .10 .11 .11 .13 .16 .18 .21 .23
.16 .21 .20 .18 .27 .30 .36 .24 .28 .27
.25 .20 .04 .03 .05 .05 .04 .03 .04 .03
.03 .03 .03 .03 .03 .02 .02 .02

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179 LS

SCS LOSS RATE

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STRTL      .44  INITIAL ABSTRACTION
CRVNBR     81.90  CURVE NUMBER
RTIMP      .00  PERCENT IMPERVIOUS AREA

```

180 UI

INPUT UNITGRAPH, 50 ORDINATES, VOLUME = 1.00

```

411.0 571.0 838.0 927.0 1463.0 2148.0 4296.0 1997.0 1445.0 943.0
880.0 773.0 590.0 560.0 482.0 441.0 386.0 319.0 296.0 280.0
234.0 228.0 168.0 167.0 143.0 99.0 99.0 99.0 99.0 25.0
21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2
21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 12.5

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HYDROGRAPH AT STATION Node27

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*****
DA MON HRMN ORD RAIN LOSS EXCESS COMP Q      *      DA MON HRMN ORD RAIN LOSS EXCESS COMP Q
1 0000 1 .00 .00 .00 0. *      2 0600 61 .00 .00 .00 191.
1 0030 2 .03 .03 .00 0. *      2 0630 62 .00 .00 .00 164.
1 0100 3 .04 .04 .00 0. *      2 0700 63 .00 .00 .00 149.
1 0130 4 .03 .03 .00 0. *      2 0730 64 .00 .00 .00 138.
1 0200 5 .04 .04 .00 0. *      2 0800 65 .00 .00 .00 125.
1 0230 6 .04 .04 .00 0. *      2 0830 66 .00 .00 .00 115.
1 0300 7 .05 .05 .00 0. *      2 0900 67 .00 .00 .00 105.
1 0330 8 .05 .05 .00 0. *      2 0930 68 .00 .00 .00 98.
1 0400 9 .06 .06 .00 0. *      2 1000 69 .00 .00 .00 89.
1 0430 10 .07 .07 .00 0. *      2 1030 70 .00 .00 .00 82.

```

1	0500	11	.08	.08	.00	0.	*	2	1100	71	.00	.00	.00	74.
1	0530	12	.07	.06	.00	2.	*	2	1130	72	.00	.00	.00	68.
1	0600	13	.08	.07	.01	8.	*	2	1200	73	.00	.00	.00	62.
1	0630	14	.10	.08	.02	18.	*	2	1230	74	.00	.00	.00	56.
1	0700	15	.11	.08	.03	35.	*	2	1300	75	.00	.00	.00	51.
1	0730	16	.11	.08	.03	63.	*	2	1330	76	.00	.00	.00	45.
1	0800	17	.13	.08	.05	107.	*	2	1400	77	.00	.00	.00	38.
1	0830	18	.16	.09	.07	179.	*	2	1430	78	.00	.00	.00	31.
1	0900	19	.17	.09	.09	280.	*	2	1500	79	.00	.00	.00	26.
1	0930	20	.21	.09	.11	411.	*	2	1530	80	.00	.00	.00	21.
1	1000	21	.23	.09	.14	571.	*	2	1600	81	.00	.00	.00	16.
1	1030	22	.16	.06	.10	739.	*	2	1630	82	.00	.00	.00	12.
1	1100	23	.21	.07	.14	954.	*	2	1700	83	.00	.00	.00	9.
1	1130	24	.20	.06	.14	1192.	*	2	1730	84	.00	.00	.00	9.
1	1200	25	.18	.05	.14	1446.	*	2	1800	85	.00	.00	.00	8.
1	1230	26	.27	.06	.20	1726.	*	2	1830	86	.00	.00	.00	7.
1	1300	27	.30	.06	.24	1989.	*	2	1900	87	.00	.00	.00	6.
1	1330	28	.36	.07	.29	2168.	*	2	1930	88	.00	.00	.00	5.
1	1400	29	.24	.04	.20	2466.	*	2	2000	89	.00	.00	.00	5.
1	1430	30	.28	.04	.24	2716.	*	2	2030	90	.00	.00	.00	4.
1	1500	31	.27	.04	.23	2984.	*	2	2100	91	.00	.00	.00	4.
1	1530	32	.25	.03	.22	3433.	*	2	2130	92	.00	.00	.00	3.
1	1600	33	.20	.02	.18	3760.	*	2	2200	93	.00	.00	.00	3.
1	1630	34	.04	.00	.04	3984.	*	2	2230	94	.00	.00	.00	2.
1	1700	35	.03	.00	.03	3806.	*	2	2300	95	.00	.00	.00	2.
1	1730	36	.05	.01	.05	3807.	*	2	2330	96	.00	.00	.00	1.
1	1800	37	.05	.01	.04	3676.	*	3	0000	97	.00	.00	.00	1.
1	1830	38	.04	.00	.04	3426.	*	3	0030	98	.00	.00	.00	0.
1	1900	39	.03	.00	.02	2994.	*	3	0100	99	.00	.00	.00	0.
1	1930	40	.04	.00	.03	2350.	*	3	0130	100	.00	.00	.00	0.
1	2000	41	.03	.00	.02	2047.	*	3	0200	101	.00	.00	.00	0.
1	2030	42	.03	.00	.03	1883.	*	3	0230	102	.00	.00	.00	0.
1	2100	43	.03	.00	.02	1729.	*	3	0300	103	.00	.00	.00	0.
1	2130	44	.03	.00	.02	1575.	*	3	0330	104	.00	.00	.00	0.
1	2200	45	.03	.00	.02	1414.	*	3	0400	105	.00	.00	.00	0.
1	2230	46	.03	.00	.02	1330.	*	3	0430	106	.00	.00	.00	0.
1	2300	47	.02	.00	.02	1218.	*	3	0500	107	.00	.00	.00	0.
1	2330	48	.02	.00	.02	1137.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.02	.00	.02	1046.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	963.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	891.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	810.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	722.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	646.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	558.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	435.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	357.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	302.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	263.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	225.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 5.29, TOTAL LOSS = 1.96, TOTAL EXCESS = 3.33

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
3984.	16.50		3276.	1487.	611.	611.
		(INCHES)	1.800	3.268	3.328	3.328
		(AC-FT)	1624.	2949.	3003.	3003.

CUMULATIVE AREA = 16.92 SQ MI

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186 KK *****
* *
* 17 *
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188 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

189 RD MUSKINGUM-CUNGE CHANNEL ROUTING

L 55334. CHANNEL LENGTH
 S .0039 SLOPE
 N .040 CHANNEL ROUGHNESS COEFFICIENT
 CA .00 CONTRIBUTING AREA
 SHAPE TRAP CHANNEL SHAPE
 WD 200.00 BOTTOM WIDTH OR DIAMETER
 Z 5.00 SIDE SLOPE

COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	COMPUTATION TIME STEP		PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
		M	DT (MIN)				
MAIN	.09	1.61	30.00	6148.22	3974.66	1110.00	6.29

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.09	1.61	30.00	3974.66	1110.00	3.33
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .3003E+04 EXCESS= .0000E+00 OUTFLOW= .3009E+04 BASIN STORAGE= .1267E+01 PERCENT ERROR= -.3

HYDROGRAPH AT STATION 17

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1500	31	1634.	2		0600	61	672.	2		2100	91	26.
1		0030	2	0.	1		1530	32	2012.	2		0630	62	613.	2		2130	92	22.
1		0100	3	0.	1		1600	33	2301.	2		0700	63	553.	2		2200	93	18.
1		0130	4	0.	1		1630	34	2598.	2		0730	64	485.	2		2230	94	16.
1		0200	5	0.	1		1700	35	2951.	2		0800	65	418.	2		2300	95	13.
1		0230	6	0.	1		1730	36	3370.	2		0830	66	371.	2		2330	96	11.
1		0300	7	0.	1		1800	37	3745.	2		0900	67	321.	3		0000	97	10.
1		0330	8	0.	1		1830	38	3975.	2		0930	68	281.	3		0030	98	9.
1		0400	9	0.	1		1900	39	3910.	2		1000	69	247.	3		0100	99	8.
1		0430	10	0.	1		1930	40	3719.	2		1030	70	215.	3		0130	100	7.
1		0500	11	0.	1		2000	41	3613.	2		1100	71	188.	3		0200	101	6.
1		0530	12	0.	1		2030	42	3423.	2		1130	72	167.	3		0230	102	5.
1		0600	13	0.	1		2100	43	3078.	2		1200	73	152.	3		0300	103	5.
1		0630	14	0.	1		2130	44	2661.	2		1230	74	139.	3		0330	104	4.
1		0700	15	0.	1		2200	45	2271.	2		1300	75	128.	3		0400	105	4.
1		0730	16	0.	1		2230	46	2006.	2		1330	76	118.	3		0430	106	3.
1		0800	17	0.	1		2300	47	1823.	2		1400	77	109.	3		0500	107	3.
1		0830	18	0.	1		2330	48	1751.	2		1430	78	101.	3		0530	108	2.
1		0900	19	0.	2		0000	49	1655.	2		1500	79	93.	3		0600	109	2.
1		0930	20	0.	2		0030	50	1469.	2		1530	80	86.	3		0630	110	2.
1		1000	21	0.	2		0100	51	1387.	2		1600	81	79.	3		0700	111	1.
1		1030	22	0.	2		0130	52	1294.	2		1630	82	73.	3		0730	112	1.
1		1100	23	1.	2		0200	53	1208.	2		1700	83	67.	3		0800	113	1.
1		1130	24	5.	2		0230	54	1147.	2		1730	84	62.	3		0830	114	1.
1		1200	25	17.	2		0300	55	1060.	2		1800	85	57.	3		0900	115	0.
1		1230	26	47.	2		0330	56	993.	2		1830	86	51.	3		0930	116	0.
1		1300	27	111.	2		0400	57	932.	2		1900	87	46.	3		1000	117	0.
1		1330	28	229.	2		0430	58	860.	2		1930	88	40.	3		1030	118	0.
1		1400	29	613.	2		0500	59	806.	2		2000	89	35.	3		1100	119	0.
1		1430	30	1236.	2		0530	60	736.	2		2030	90	30.	3		1130	120	0.

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	59.50-HR
3975.	18.50	3277.	1488.	612.	612.
		(INCHES) 1.801	3.270	3.335	3.335
		(AC-FT) 1625.	2951.	3009.	3009.

CUMULATIVE AREA = 16.92 SQ MI

190 KK

 * Node1 *

42.ohl

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192 KO          OUTPUT CONTROL VARIABLES
                IPRNT          0  PRINT CONTROL
                IPLOT          0  PLOT CONTROL
                QSCAL          0.  HYDROGRAPH PLOT SCALE
                IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                IOUT           22  SAVE HYDROGRAPH ON THIS UNIT
                ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                ISAV2         120  LAST ORDINATE PUNCHED OR SAVED
                TIMINT          .500 TIME INTERVAL IN HOURS

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SANTA MARGARITA STORMS

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196 IN      TIME DATA FOR INPUT TIME SERIES
              JXMIN      15  TIME INTERVAL IN MINUTES
              JKDATE      1  0  STARTING DATE
              JXTIME      0  STARTING TIME
              UHG FROM VALLEY S-GRAPH

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SUBBASIN RUNOFF DATA

193 BA SUBBASIN CHARACTERISTICS
TAREA 22.37 SUBBASIN AREA

PRECIPITATION DATA

195 PB STORM 4.11 BASIN TOTAL PRECIPITATION

[illegible]

207 LS	SCS LOSS RATE		
	STRTL	.57	INITIAL ABSTRACTION
	CRVNBR	77.70	CURVE NUMBER
	RTIMP	.00	PERCENT IMPERVIOUS AREA

208 UI	INPUT UNITGRAPH, 46 ORDINATES, VOLUME = 1.00									
	958.0	1567.0	2498.0	3394.0	3836.0	3421.0	2176.0	1593.0	1187.0	984.0
	785.0	696.0	574.0	493.0	427.0	383.0	345.0	314.0	304.0	248.0
	241.0	217.0	192.0	192.0	173.0	152.0	152.0	152.0	117.0	101.0
	101.0	101.0	101.0	101.0	53.0	50.0	50.0	50.0	50.0	50.0
	49.5	49.5	49.5	49.5	49.5	35.3				

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HYDROGRAPH AT STATION Node1

*****								*	*****							
DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	2		0600	61	.00	.00	.00	208.
1		0030	2	.02	.02	.00	0.	*	2		0630	62	.00	.00	.00	189.
1		0100	3	.03	.03	.00	0.	*	2		0700	63	.00	.00	.00	175.
1		0130	4	.02	.02	.00	0.	*	2		0730	64	.00	.00	.00	160.
1		0200	5	.03	.03	.00	0.	*	2		0800	65	.00	.00	.00	145.
1		0230	6	.03	.03	.00	0.	*	2		0830	66	.00	.00	.00	130.
1		0300	7	.04	.04	.00	0.	*	2		0900	67	.00	.00	.00	118.
1		0330	8	.04	.04	.00	0.	*	2		0930	68	.00	.00	.00	110.
1		0400	9	.05	.05	.00	0.	*	2		1000	69	.00	.00	.00	103.
1		0430	10	.05	.05	.00	0.	*	2		1030	70	.00	.00	.00	95.
1		0500	11	.06	.06	.00	0.	*	2		1100	71	.00	.00	.00	87.
1		0530	12	.05	.05	.00	0.	*	2		1130	72	.00	.00	.00	78.
1		0600	13	.07	.07	.00	0.	*	2		1200	73	.00	.00	.00	68.
1		0630	14	.07	.07	.00	0.	*	2		1230	74	.00	.00	.00	58.
1		0700	15	.08	.08	.00	2.	*	2		1300	75	.00	.00	.00	49.
1		0730	16	.09	.08	.01	10.	*	2		1330	76	.00	.00	.00	40.
1		0800	17	.10	.09	.01	30.	*	2		1400	77	.00	.00	.00	31.
1		0830	18	.12	.10	.02	70.	*	2		1430	78	.00	.00	.00	23.
1		0900	19	.14	.10	.04	138.	*	2		1500	79	.00	.00	.00	18.
1		0930	20	.16	.11	.05	246.	*	2		1530	80	.00	.00	.00	16.
1		1000	21	.18	.11	.07	396.	*	2		1600	81	.00	.00	.00	14.
1		1030	22	.12	.07	.05	562.	*	2		1630	82	.00	.00	.00	12.
1		1100	23	.16	.09	.08	760.	*	2		1700	83	.00	.00	.00	10.
1		1130	24	.16	.08	.08	959.	*	2		1730	84	.00	.00	.00	8.
1		1200	25	.14	.07	.08	1146.	*	2		1800	85	.00	.00	.00	8.
1		1230	26	.21	.09	.12	1351.	*	2		1830	86	.00	.00	.00	7.
1		1300	27	.23	.09	.15	1585.	*	2		1900	87	.00	.00	.00	6.
1		1330	28	.28	.10	.18	1896.	*	2		1930	88	.00	.00	.00	5.
1		1400	29	.19	.06	.13	2204.	*	2		2000	89	.00	.00	.00	4.
1		1430	30	.22	.06	.16	2558.	*	2		2030	90	.00	.00	.00	3.
1		1500	31	.21	.06	.15	2890.	*	2		2100	91	.00	.00	.00	2.
1		1530	32	.19	.05	.15	3133.	*	2		2130	92	.00	.00	.00	2.
1		1600	33	.16	.04	.12	3265.	*	2		2200	93	.00	.00	.00	1.
1		1630	34	.03	.01	.02	3229.	*	2		2230	94	.00	.00	.00	0.
1																

1	1800	37	.04	.01	.03	2487.	*	3	0000	97	.00	.00	.00	0.
1	1830	38	.03	.01	.03	2088.	*	3	0030	98	.00	.00	.00	0.
1	1900	39	.02	.00	.02	1757.	*	3	0100	99	.00	.00	.00	0.
1	1930	40	.03	.01	.02	1552.	*	3	0130	100	.00	.00	.00	0.
1	2000	41	.02	.00	.02	1398.	*	3	0200	101	.00	.00	.00	0.
1	2030	42	.02	.01	.02	1267.	*	3	0230	102	.00	.00	.00	0.
1	2100	43	.02	.00	.02	1153.	*	3	0300	103	.00	.00	.00	0.
1	2130	44	.02	.00	.02	1062.	*	3	0330	104	.00	.00	.00	0.
1	2200	45	.02	.00	.02	989.	*	3	0400	105	.00	.00	.00	0.
1	2230	46	.02	.00	.02	926.	*	3	0430	106	.00	.00	.00	0.
1	2300	47	.02	.00	.01	873.	*	3	0500	107	.00	.00	.00	0.
1	2330	48	.02	.00	.01	825.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.02	.00	.01	781.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	728.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	670.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	602.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	532.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	460.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	394.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	347.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	309.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	279.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	254.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	231.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 4.11, TOTAL LOSS = 2.16, TOTAL EXCESS = 1.95

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW
(CFS)	(HR)	6-HR 24-HR 72-HR 59.50-HR
3265.	16.00	2615. 1151. 473. 473.
		(INCHES) 1.087 1.913 1.951 1.951
		(AC-FT) 1297. 2282. 2328. 2328.

CUMULATIVE AREA = 22.37 SQ MI

214 KK

* Node3 *

216 KO

OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

220 IN

TIME DATA FOR INPUT TIME SERIES

JXMIN 15 TIME INTERVAL IN MINUTES
JXDATE 1 0 STARTING DATE
JXTIME 0 STARTING TIME
UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

217 BA

SUBBASIN CHARACTERISTICS

TAREA 18.40 SUBBASIN AREA

PRECIPITATION DATA

219 PB

STORM 4.75 BASIN TOTAL PRECIPITATION

221 PI

INCREMENTAL PRECIPITATION PATTERN

.02	.03	.03	.03	.04	.05	.05	.05	.06	.07
.06	.08	.09	.09	.10	.12	.14	.16	.19	.21
.14	.19	.18	.17	.24	.27	.32	.25	.24	.24
.22	.18	.04	.03	.05	.04	.04	.02	.03	.02
.03	.02	.02	.02	.02	.02	.02	.02		

231 LS

SCS LOSS RATE

STRTL .53 INITIAL ABSTRACTION
CRVNBR 78.90 CURVE NUMBER
RTIMP .00 PERCENT IMPERVIOUS AREA

232 UI

INPUT UNITGRAPH, 37 ORDINATES, VOLUME = 1.00

42.ohl

644.0	1005.0	1367.0	2169.0	5078.0	3567.0	1871.0	1346.0	1148.0	846.0
756.0	647.0	538.0	443.0	408.0	333.0	282.0	243.0	183.0	145.0
145.0	107.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
31.0	31.0	31.0	31.0	31.0	31.0	30.6			

HYDROGRAPH AT STATION Node3

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*		2	0600	61	.00	.00	.00	105.	
1	0030	2	.02	.02	.00	0.	*		2	0630	62	.00	.00	.00	92.	
1	0100	3	.03	.03	.00	0.	*		2	0700	63	.00	.00	.00	80.	
1	0130	4	.03	.03	.00	0.	*		2	0730	64	.00	.00	.00	67.	
1	0200	5	.03	.03	.00	0.	*		2	0800	65	.00	.00	.00	54.	
1	0230	6	.04	.04	.00	0.	*		2	0830	66	.00	.00	.00	45.	
1	0300	7	.05	.05	.00	0.	*		2	0900	67	.00	.00	.00	35.	
1	0330	8	.05	.05	.00	0.	*		2	0930	68	.00	.00	.00	26.	
1	0400	9	.05	.05	.00	0.	*		2	1000	69	.00	.00	.00	19.	
1	0430	10	.06	.06	.00	0.	*		2	1030	70	.00	.00	.00	13.	
1	0500	11	.07	.07	.00	0.	*		2	1100	71	.00	.00	.00	11.	
1	0530	12	.06	.06	.00	0.	*		2	1130	72	.00	.00	.00	10.	
1	0600	13	.08	.08	.00	0.	*		2	1200	73	.00	.00	.00	9.	
1	0630	14	.09	.08	.01	4.	*		2	1230	74	.00	.00	.00	8.	
1	0700	15	.09	.08	.01	13.	*		2	1300	75	.00	.00	.00	7.	
1	0730	16	.10	.08	.02	31.	*		2	1330	76	.00	.00	.00	6.	
1	0800	17	.12	.09	.03	65.	*		2	1400	77	.00	.00	.00	5.	
1	0830	18	.14	.10	.04	132.	*		2	1430	78	.00	.00	.00	5.	
1	0900	19	.16	.10	.06	231.	*		2	1500	79	.00	.00	.00	4.	
1	0930	20	.19	.11	.08	363.	*		2	1530	80	.00	.00	.00	3.	
1	1000	21	.21	.11	.10	541.	*		2	1600	81	.00	.00	.00	3.	
1	1030	22	.14	.07	.07	741.	*		2	1630	82	.00	.00	.00	2.	
1	1100	23	.19	.08	.11	975.	*		2	1700	83	.00	.00	.00	1.	
1	1130	24	.18	.07	.11	1236.	*		2	1730	84	.00	.00	.00	1.	
1	1200	25	.17	.06	.10	1480.	*		2	1800	85	.00	.00	.00	0.	
1	1230	26	.24	.08	.16	1634.	*		2	1830	86	.00	.00	.00	0.	
1	1300	27	.27	.08	.19	1900.	*		2	1900	87	.00	.00	.00	0.	
1	1330	28	.32	.09	.24	2197.	*		2	1930	88	.00	.00	.00	0.	
1	1400	29	.22	.05	.17	2450.	*		2	2000	89	.00	.00	.00	0.	
1	1430	30	.25	.06	.20	2876.	*		2	2030	90	.00	.00	.00	0.	
1	1500	31	.24	.05	.19	3320.	*		2	2100	91	.00	.00	.00	0.	
1	1530	32	.22	.04	.18	3697.	*		2	2130	92	.00	.00	.00	0.	
1	1600	33	.18	.03	.15	3704.	*		2	2200	93	.00	.00	.00	0.	
1	1630	34	.04	.01	.03	3701.	*		2	2230	94	.00	.00	.00	0.	
1	1700	35	.03	.00	.02	3645.	*		2	2300	95	.00	.00	.00	0.	
1	1730	36	.05	.01	.04	3454.	*		2	2330	96	.00	.00	.00	0.	
1	1800	37	.04	.01	.04	3068.	*		3	0000	97	.00	.00	.00	0.	
1	1830	38	.04	.01	.03	2407.	*		3	0030	98	.00	.00	.00	0.	
1	1900	39	.02	.00	.02	1943.	*		3	0100	99	.00	.00	.00	0.	
1	1930	40	.03	.01	.03	1748.	*		3	0130	100	.00	.00	.00	0.	
1	2000	41	.02	.00	.02	1582.	*		3	0200	101	.00	.00	.00	0.	
1	2030	42	.03	.00	.02	1408.	*		3	0230	102	.00	.00	.00	0.	
1	2100	43	.02	.00	.02	1237.	*		3	0300	103	.00	.00	.00	0.	
1	2130	44	.02	.00	.02	1125.	*		3	0330	104	.00	.00	.00	0.	
1	2200	45	.02	.00	.02	1009.	*		3	0400	105	.00	.00	.00	0.	
1	2230	46	.02	.00	.02	922.	*		3	0430	106	.00	.00	.00	0.	
1	2300	47	.02	.00	.02	839.	*		3	0500	107	.00	.00	.00	0.	
1	2330	48	.02	.00	.02	763.	*		3	0530	108	.00	.00	.00	0.	
2	0000	49	.02	.00	.02	696.	*		3	0600	109	.00	.00	.00	0.	
2	0030	50	.00	.00	.00	628.	*		3	0630	110	.00	.00	.00	0.	
2	0100	51	.00	.00	.00	554.	*		3	0700	111	.00	.00	.00	0.	
2	0130	52	.00	.00	.00	489.	*		3	0730	112	.00	.00	.00	0.	
2	0200	53	.00	.00	.00	424.	*		3	0800	113	.00	.00	.00	0.	
2	0230	54	.00	.00	.00	320.	*		3	0830	114	.00	.00	.00	0.	
2	0300	55	.00	.00	.00	246.	*		3	0900	115	.00	.00	.00	0.	
2	0330	56	.00	.00	.00	210.	*		3	0930	116	.00	.00	.00	0.	
2	0400	57	.00	.00	.00	182.	*		3	1000	117	.00	.00	.00	0.	
2	0430	58	.00	.00	.00	156.	*		3	1030	118	.00	.00	.00	0.	
2	0500	59	.00	.00	.00	137.	*		3	1100	119	.00	.00	.00	0.	
2	0530	60	.00	.00	.00	120.	*		3	1130	120	.00	.00	.00	0.	

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.17, TOTAL EXCESS = 2.58

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
3704.	16.00		3037.	1269.	514.	514.
		(INCHES)	1.534	2.564	2.578	2.578
		(AC-FT)	1506.	2516.	2529.	2529.

CUMULATIVE AREA = 18.40 SQ MI

237 KK

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*   Node66   *
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239 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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240 HC

HYDROGRAPH COMBINATION

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ICOMP      3  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node66
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		0000	1	0.	1		1500	31	7844.	2		0600	61	985.	2		2100	91	28.
1		0030	2	0.	1		1530	32	8842.	2		0630	62	894.	2		2130	92	24.
1		0100	3	0.	1		1600	33	9270.	2		0700	63	807.	2		2200	93	19.
1		0130	4	0.	1		1630	34	9528.	2		0730	64	712.	2		2230	94	16.
1		0200	5	0.	1		1700	35	9704.	2		0800	65	617.	2		2300	95	13.
1		0230	6	0.	1		1730	36	9673.	2		0830	66	546.	2		2330	96	11.
1		0300	7	0.	1		1800	37	9300.	2		0900	67	474.	3		0000	97	10.
1		0330	8	0.	1		1830	38	8470.	2		0930	68	418.	3		0030	98	9.
1		0400	9	0.	1		1900	39	7609.	2		1000	69	368.	3		0100	99	8.
1		0430	10	0.	1		1930	40	7018.	2		1030	70	323.	3		0130	100	7.
1		0500	11	0.	1		2000	41	6594.	2		1100	71	286.	3		0200	101	6.
1		0530	12	0.	1		2030	42	6098.	2		1130	72	255.	3		0230	102	5.
1		0600	13	0.	1		2100	43	5468.	2		1200	73	229.	3		0300	103	5.
1		0630	14	4.	1		2130	44	4849.	2		1230	74	205.	3		0330	104	4.
1		0700	15	15.	1		2200	45	4269.	2		1300	75	184.	3		0400	105	4.
1		0730	16	41.	1		2230	46	3854.	2		1330	76	164.	3		0430	106	3.
1		0800	17	95.	1		2300	47	3534.	2		1400	77	145.	3		0500	107	3.
1		0830	18	202.	1		2330	48	3338.	2		1430	78	129.	3		0530	108	2.
1		0900	19	369.	2		0000	49	3132.	2		1500	79	115.	3		0600	109	2.
1		0930	20	609.	2		0030	50	2825.	2		1530	80	105.	3		0630	110	2.
1		1000	21	938.	2		0100	51	2611.	2		1600	81	96.	3		0700	111	1.
1		1030	22	1304.	2		0130	52	2384.	2		1630	82	87.	3		0730	112	1.
1		1100	23	1736.	2		0200	53	2164.	2		1700	83	78.	3		0800	113	1.
1		1130	24	2201.	2		0230	54	1927.	2		1730	84	71.	3		0830	114	1.
1		1200	25	2643.	2		0300	55	1701.	2		1800	85	65.	3		0900	115	0.
1		1230	26	3032.	2		0330	56	1550.	2		1830	86	58.	3		0930	116	0.
1		1300	27	3596.	2		0400	57	1423.	2		1900	87	51.	3		1000	117	0.
1		1330	28	4322.	2		0430	58	1296.	2		1930	88	45.	3		1030	118	0.
1		1400	29	5267.	2		0500	59	1198.	2		2000	89	39.	3		1100	119	0.
1		1430	30	6670.	2		0530	60	1087.	2		2030	90	34.	3		1130	120	0.

PEAK FLOW TIME
+ (CFS) (HR)

MAXIMUM AVERAGE FLOW
6-HR 24-HR 72-HR 59.50-HR

+ 9704. 17.00 (CFS) 8353. 3872. 1600. 1600.
 (INCHES) 1.346 2.496 2.557 2.557
 (AC-FT) 4142. 7680. 7867. 7867.

CUMULATIVE AREA = 57.69 SQ MI

241 KK

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*   16   *
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243 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0 PRINT CONTROL
IPLOT      0 PLOT CONTROL
QSCAL      0. HYDROGRAPH PLOT SCALE
IPNCH      0 PUNCH COMPUTED HYDROGRAPH
IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120 LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

244 RD

MUSKINGUM-CUNGE CHANNEL ROUTING

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L      32736. CHANNEL LENGTH
S      .0069 SLOPE
N      .040 CHANNEL ROUGHNESS COEFFICIENT
CA     .00 CONTRIBUTING AREA
SHAPE  TRAP CHANNEL SHAPE
WD     200.00 BOTTOM WIDTH OR DIAMETER
Z      5.00 SIDE SLOPE

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COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	.12	1.61	30.00	10912.00	9735.29	1080.00	2.56	10.52

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.12	1.61	30.00	9735.29	1080.00	2.56
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .7867E+04 EXCESS= .0000E+00 OUTFLOW= .7873E+04 BASIN STORAGE= .1368E+01 PERCENT ERROR= -.1

HYDROGRAPH AT STATION 16

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	1500	31	5732.	*	2	0600	61	1280.	*	2	2100	91	52.	
1	0030	2	0.	*	1	1530	32	7262.	*	2	0630	62	1192.	*	2	2130	92	46.	
1	0100	3	0.	*	1	1600	33	8513.	*	2	0700	63	1091.	*	2	2200	93	40.	
1	0130	4	0.	*	1	1630	34	9149.	*	2	0730	64	992.	*	2	2230	94	35.	
1	0200	5	0.	*	1	1700	35	9517.	*	2	0800	65	902.	*	2	2300	95	30.	
1	0230	6	0.	*	1	1730	36	9586.	*	2	0830	66	818.	*	2	2330	96	26.	
1	0300	7	0.	*	1	1800	37	9735.	*	2	0900	67	727.	*	3	0000	97	22.	
1	0330	8	0.	*	1	1830	38	9441.	*	2	0930	68	635.	*	3	0030	98	18.	
1	0400	9	0.	*	1	1900	39	8863.	*	2	1000	69	563.	*	3	0100	99	15.	
1	0430	10	0.	*	1	1930	40	7998.	*	2	1030	70	493.	*	3	0130	100	13.	
1	0500	11	0.	*	1	2000	41	7253.	*	2	1100	71	436.	*	3	0200	101	11.	
1	0530	12	0.	*	1	2030	42	6787.	*	2	1130	72	386.	*	3	0230	102	10.	
1	0600	13	0.	*	1	2100	43	6379.	*	2	1200	73	341.	*	3	0300	103	9.	
1	0630	14	0.	*	1	2130	44	5875.	*	2	1230	74	303.	*	3	0330	104	8.	
1	0700	15	0.	*	1	2200	45	5272.	*	2	1300	75	271.	*	3	0400	105	7.	
1	0730	16	0.	*	1	2230	46	4695.	*	2	1330	76	243.	*	3	0430	106	6.	
1	0800	17	1.	*	1	2300	47	4201.	*	2	1400	77	218.	*	3	0500	107	5.	
1	0830	18	5.	*	1	2330	48	3800.	*	2	1430	78	197.	*	3	0530	108	5.	
1	0900	19	20.	*	2	0000	49	3534.	*	2	1500	79	177.	*	3	0600	109	4.	
1	0930	20	57.	*	2	0030	50	3314.	*	2	1530	80	158.	*	3	0630	110	4.	
1	1000	21	145.	*	2	0100	51	3141.	*	2	1600	81	141.	*	3	0700	111	3.	
1	1030	22	307.	*	2	0130	52	2883.	*	2	1630	82	126.	*	3	0730	112	3.	
1	1100	23	557.	*	2	0200	53	2623.	*	2	1700	83	114.	*	3	0800	113	2.	
1	1130	24	910.	*	2	0230	54	2450.	*	2	1730	84	104.	*	3	0830	114	2.	
1	1200	25	1396.	*	2	0300	55	2230.	*	2	1800	85	95.	*	3	0900	115	2.	
1	1230	26	1998.	*	2	0330	56	2028.	*	2	1830	86	86.	*	3	0930	116	1.	
1	1300	27	2555.	*	2	0400	57	1815.	*	2	1900	87	78.	*	3	1000	117	1.	
1	1330	28	3041.	*	2	0430	58	1632.	*	2	1930	88	71.	*	3	1030	118	1.	
1	1400	29	3626.	*	2	0500	59	1509.	*	2	2000	89	65.	*	3	1100	119	1.	
1	1430	30	4536.	*	2	0530	60	1395.	*	2	2030	90	58.	*	3	1130	120	1.	

PEAK FLOW (CFS)	TIME (HR)	6-HR MAXIMUM AVERAGE FLOW	24-HR	72-HR	59.50-HR
9735.	18.00	(CFS)	8347.	3872.	1601.
		(INCHES)	1.345	2.496	2.559
		(AC-FT)	4139.	7680.	7873.

CUMULATIVE AREA = 57.69 SQ MI

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245 KK *****
 * Node4 *

247 KO OUTPUT CONTROL VARIABLES
 IPRNT 0 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
 ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
 TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

251 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

248 BA SUBBASIN CHARACTERISTICS
 TAREA 5.69 SUBBASIN AREA

PRECIPITATION DATA

250 PB STORM 4.47 BASIN TOTAL PRECIPITATION

252 PI INCREMENTAL PRECIPITATION PATTERN

.02	.03	.03	.03	.04	.04	.04	.05	.06	.07
.06	.07	.08	.09	.09	.11	.13	.15	.17	.19
.13	.18	.17	.16	.23	.25	.30	.21	.24	.23
.21	.17	.04	.03	.04	.04	.04	.02	.03	.02
.03	.02	.02	.02	.02	.02	.02	.02		

262 LS SCS LOSS RATE
 STRTL .54 INITIAL ABSTRACTION
 CRVNBR 78.70 CURVE NUMBER
 RTIMP .00 PERCENT IMPERVIOUS AREA

263 UI INPUT UNITGRAPH, 41 ORDINATES, VOLUME = 1.00

278.0	488.0	807.0	1030.0	1079.0	729.0	476.0	344.0	279.0	220.0
187.0	155.0	133.0	116.0	98.0	91.0	87.0	70.0	68.0	58.0
54.5	53.9	43.3	43.3	43.3	33.5	28.6	28.6	28.6	28.6
20.9	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
12.6									

HYDROGRAPH AT STATION Node4

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*		2	0600	61	.00	.00	.00	51.	
1	0030	2	.02	.02	.00	0.	*		2	0630	62	.00	.00	.00	46.	
1	0100	3	.03	.03	.00	0.	*		2	0700	63	.00	.00	.00	41.	
1	0130	4	.03	.03	.00	0.	*		2	0730	64	.00	.00	.00	37.	
1	0200	5	.03	.03	.00	0.	*		2	0800	65	.00	.00	.00	34.	
1	0230	6	.04	.04	.00	0.	*		2	0830	66	.00	.00	.00	31.	
1	0300	7	.04	.04	.00	0.	*		2	0900	67	.00	.00	.00	28.	
1	0330	8	.04	.04	.00	0.	*		2	0930	68	.00	.00	.00	24.	
1	0400	9	.05	.05	.00	0.	*		2	1000	69	.00	.00	.00	21.	
1	0430	10	.06	.06	.00	0.	*		2	1030	70	.00	.00	.00	18.	
1	0500	11	.07	.07	.00	0.	*		2	1100	71	.00	.00	.00	14.	
1	0530	12	.06	.06	.00	0.	*		2	1130	72	.00	.00	.00	11.	
1	0600	13	.07	.07	.00	0.	*		2	1200	73	.00	.00	.00	9.	
1	0630	14	.08	.08	.00	1.	*		2	1230	74	.00	.00	.00	6.	
1	0700	15	.09	.08	.01	3.	*		2	1300	75	.00	.00	.00	6.	
1	0730	16	.09	.08	.01	9.	*		2	1330	76	.00	.00	.00	5.	
1	0800	17	.11	.09	.02	21.	*		2	1400	77	.00	.00	.00	4.	
1	0830	18	.13	.10	.03	42.	*		2	1430	78	.00	.00	.00	4.	
1	0900	19	.15	.10	.05	72.	*		2	1500	79	.00	.00	.00	3.	
1	0930	20	.17	.11	.07	114.	*		2	1530	80	.00	.00	.00	3.	
1	1000	21	.19	.11	.09	169.	*		2	1600	81	.00	.00	.00	2.	
1	1030	22	.13	.07	.07	227.	*		2	1630	82	.00	.00	.00	2.	

42.ohl

1	1100	23	.18	.08	.09	291.	*	2	1700	83	.00	.00	.00	2.
1	1130	24	.17	.07	.10	352.	*	2	1730	84	.00	.00	.00	1.
1	1200	25	.16	.06	.09	405.	*	2	1800	85	.00	.00	.00	1.
1	1230	26	.23	.08	.15	463.	*	2	1830	86	.00	.00	.00	1.
1	1300	27	.26	.08	.17	537.	*	2	1900	87	.00	.00	.00	1.
1	1330	28	.30	.09	.22	634.	*	2	1930	88	.00	.00	.00	0.
1	1400	29	.21	.05	.15	733.	*	2	2000	89	.00	.00	.00	0.
1	1430	30	.24	.06	.18	845.	*	2	2030	90	.00	.00	.00	0.
1	1500	31	.23	.05	.18	932.	*	2	2100	91	.00	.00	.00	0.
1	1530	32	.21	.04	.17	988.	*	2	2130	92	.00	.00	.00	0.
1	1600	33	.17	.03	.14	1005.	*	2	2200	93	.00	.00	.00	0.
1	1630	34	.04	.01	.03	987.	*	2	2230	94	.00	.00	.00	0.
1	1700	35	.03	.00	.02	927.	*	2	2300	95	.00	.00	.00	0.
1	1730	36	.04	.01	.04	823.	*	2	2330	96	.00	.00	.00	0.
1	1800	37	.04	.01	.03	692.	*	3	0000	97	.00	.00	.00	0.
1	1830	38	.04	.01	.03	568.	*	3	0030	98	.00	.00	.00	0.
1	1900	39	.02	.00	.02	487.	*	3	0100	99	.00	.00	.00	0.
1	1930	40	.03	.01	.03	437.	*	3	0130	100	.00	.00	.00	0.
1	2000	41	.02	.00	.02	394.	*	3	0200	101	.00	.00	.00	0.
1	2030	42	.03	.00	.02	357.	*	3	0230	102	.00	.00	.00	0.
1	2100	43	.02	.00	.02	325.	*	3	0300	103	.00	.00	.00	0.
1	2130	44	.02	.00	.02	301.	*	3	0330	104	.00	.00	.00	0.
1	2200	45	.02	.00	.02	280.	*	3	0400	105	.00	.00	.00	0.
1	2230	46	.02	.00	.02	263.	*	3	0430	106	.00	.00	.00	0.
1	2300	47	.02	.00	.01	247.	*	3	0500	107	.00	.00	.00	0.
1	2330	48	.02	.00	.02	234.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.02	.00	.02	221.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	205.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	187.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	165.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	142.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	119.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	102.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	90.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	80.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	71.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	63.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	57.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 4.47, TOTAL LOSS = 2.14, TOTAL EXCESS = 2.33

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW		
(CFS)	(HR)			24-HR	72-HR	59.50-HR
+		(CFS)				
+	1005.	16.00	804.	351.	143.	143.
		(INCHES)	1.314	2.293	2.325	2.325
		(AC-FT)	399.	696.	706.	706.

CUMULATIVE AREA = 5.69 SQ MI

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269 KK *****
* Node75 *

271 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

272 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node75
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	0000	1	0.	*	1	1500	31	6664.	*	2	0600	61	1332.	*	2	2100	91	52.	

42.ohl

1	0030	2	0.	*	1	1530	32	8250.	*	2	0630	62	1238.	*	2	2130	92	46.
1	0100	3	0.	*	1	1600	33	9518.	*	2	0700	63	1131.	*	2	2200	93	40.
1	0130	4	0.	*	1	1630	34	10137.	*	2	0730	64	1029.	*	2	2230	94	35.
1	0200	5	0.	*	1	1700	35	10444.	*	2	0800	65	936.	*	2	2300	95	30.
1	0230	6	0.	*	1	1730	36	10410.	*	2	0830	66	849.	*	2	2330	96	26.
1	0300	7	0.	*	1	1800	37	10428.	*	2	0900	67	755.	*	3	0000	97	22.
1	0330	8	0.	*	1	1830	38	10009.	*	2	0930	68	660.	*	3	0030	98	18.
1	0400	9	0.	*	1	1900	39	9350.	*	2	1000	69	584.	*	3	0100	99	15.
1	0430	10	0.	*	1	1930	40	8434.	*	2	1030	70	511.	*	3	0130	100	13.
1	0500	11	0.	*	1	2000	41	7647.	*	2	1100	71	450.	*	3	0200	101	11.
1	0530	12	0.	*	1	2030	42	7144.	*	2	1130	72	398.	*	3	0230	102	10.
1	0600	13	0.	*	1	2100	43	6704.	*	2	1200	73	350.	*	3	0300	103	9.
1	0630	14	1.	*	1	2130	44	6177.	*	2	1230	74	309.	*	3	0330	104	8.
1	0700	15	3.	*	1	2200	45	5552.	*	2	1300	75	276.	*	3	0400	105	7.
1	0730	16	9.	*	1	2230	46	4959.	*	2	1330	76	248.	*	3	0430	106	6.
1	0800	17	22.	*	1	2300	47	4449.	*	2	1400	77	223.	*	3	0500	107	5.
1	0830	18	47.	*	1	2330	48	4035.	*	2	1430	78	200.	*	3	0530	108	5.
1	0900	19	91.	*	2	0000	49	3756.	*	2	1500	79	180.	*	3	0600	109	4.
1	0930	20	171.	*	2	0030	50	3519.	*	2	1530	80	161.	*	3	0630	110	4.
1	1000	21	314.	*	2	0100	51	3327.	*	2	1600	81	143.	*	3	0700	111	3.
1	1030	22	534.	*	2	0130	52	3048.	*	2	1630	82	128.	*	3	0730	112	3.
1	1100	23	848.	*	2	0200	53	2765.	*	2	1700	83	116.	*	3	0800	113	2.
1	1130	24	1262.	*	2	0230	54	2569.	*	2	1730	84	105.	*	3	0830	114	2.
1	1200	25	1800.	*	2	0300	55	2332.	*	2	1800	85	96.	*	3	0900	115	2.
1	1230	26	2461.	*	2	0330	56	2118.	*	2	1830	86	87.	*	3	0930	116	1.
1	1300	27	3092.	*	2	0400	57	1895.	*	2	1900	87	79.	*	3	1000	117	1.
1	1330	28	3675.	*	2	0430	58	1702.	*	2	1930	88	72.	*	3	1030	118	1.
1	1400	29	4359.	*	2	0500	59	1573.	*	2	2000	89	65.	*	3	1100	119	1.
1	1430	30	5381.	*	2	0530	60	1452.	*	2	2030	90	58.	*	3	1130	120	1.

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
10444.	17.00		9038.	4214.	1744.	1744.
		(INCHES)	1.326	2.473	2.538	2.538
		(AC-FT)	4482.	8359.	8578.	8578.

CUMULATIVE AREA = 63.38 SQ MI

273 KK

* Node33 *

275 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

279 IN

TIME DATA FOR INPUT TIME SERIES

JXMIN	15	TIME INTERVAL IN MINUTES
JXDATE	1	STARTING DATE
JXTIME	0	STARTING TIME

UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

276 BA

SUBBASIN CHARACTERISTICS

TAREA	18.46	SUBBASIN AREA
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PRECIPITATION DATA

278 PB

STORM	7.84	BASIN TOTAL PRECIPITATION
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280 PI

INCREMENTAL PRECIPITATION PATTERN

.04	.05	.05	.06	.06	.08	.08	.09	.10	.12
.10	.13	.14	.16	.16	.20	.24	.26	.31	.34
.24	.31	.30	.27	.40	.45	.53	.36	.42	.40
.37	.30	.06	.05	.08	.07	.06	.04	.06	.04
.05	.04	.04	.04	.04	.03	.03	.03		

290 LS

SCS LOSS RATE

STRTL	.59	INITIAL ABSTRACTION
CRVNBR	77.20	CURVE NUMBER

RTIMP .00 PERCENT IMPERVIOUS AREA

291 UI

INPUT UNITGRAPH, 19 ORDINATES, VOLUME = 1.00

1631.0	3501.0	8638.0	3253.0	2017.0	1416.0	995.0	747.0	534.0	341.0
270.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	40.0	

HYDROGRAPH AT STATION Node33

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	2		0600	61	.00	.00	.00	14.
1		0030	2	.04	.04	.00	0.	*	2		0630	62	.00	.00	.00	11.
1		0100	3	.05	.05	.00	0.	*	2		0700	63	.00	.00	.00	9.
1		0130	4	.05	.05	.00	0.	*	2		0730	64	.00	.00	.00	7.
1		0200	5	.05	.05	.00	0.	*	2		0800	65	.00	.00	.00	5.
1		0230	6	.06	.06	.00	0.	*	2		0830	66	.00	.00	.00	3.
1		0300	7	.08	.08	.00	0.	*	2		0900	67	.00	.00	.00	1.
1		0330	8	.08	.08	.00	0.	*	2		0930	68	.00	.00	.00	0.
1		0400	9	.09	.09	.00	0.	*	2		1000	69	.00	.00	.00	0.
1		0430	10	.10	.10	.00	0.	*	2		1030	70	.00	.00	.00	0.
1		0500	11	.12	.11	.01	9.	*	2		1100	71	.00	.00	.00	0.
1		0530	12	.10	.09	.01	38.	*	2		1130	72	.00	.00	.00	0.
1		0600	13	.13	.10	.02	123.	*	2		1200	73	.00	.00	.00	0.
1		0630	14	.14	.11	.03	248.	*	2		1230	74	.00	.00	.00	0.
1		0700	15	.16	.11	.05	431.	*	2		1300	75	.00	.00	.00	0.
1		0730	16	.16	.10	.06	652.	*	2		1330	76	.00	.00	.00	0.
1		0800	17	.20	.11	.08	919.	*	2		1400	77	.00	.00	.00	0.
1		0830	18	.24	.12	.11	1245.	*	2		1430	78	.00	.00	.00	0.
1		0900	19	.26	.12	.14	1692.	*	2		1500	79	.00	.00	.00	0.
1		0930	20	.31	.13	.18	2258.	*	2		1530	80	.00	.00	.00	0.
1		1000	21	.34	.12	.22	2878.	*	2		1600	81	.00	.00	.00	0.
1		1030	22	.24	.08	.16	3489.	*	2		1630	82	.00	.00	.00	0.
1		1100	23	.31	.09	.22	3983.	*	2		1700	83	.00	.00	.00	0.
1		1130	24	.30	.08	.22	4019.	*	2		1730	84	.00	.00	.00	0.
1		1200	25	.27	.06	.21	4554.	*	2		1800	85	.00	.00	.00	0.
1		1230	26	.40	.08	.32	4900.	*	2		1830	86	.00	.00	.00	0.
1		1300	27	.45	.08	.36	5392.	*	2		1900	87	.00	.00	.00	0.
1		1330	28	.53	.09	.45	6674.	*	2		1930	88	.00	.00	.00	0.
1		1400	29	.36	.05	.31	7543.	*	2		2000	89	.00	.00	.00	0.
1		1430	30	.42	.05	.36	8266.	*	2		2030	90	.00	.00	.00	0.
1		1500	31	.40	.05	.35	7777.	*	2		2100	91	.00	.00	.00	0.
1		1530	32	.37	.04	.33	8065.	*	2		2130	92	.00	.00	.00	0.
1		1600	33	.30	.03	.27	7959.	*	2		2200	93	.00	.00	.00	0.
1		1630	34	.06	.01	.06	7255.	*	2		2230	94	.00	.00	.00	0.
1		1700	35	.05	.00	.04	5945.	*	2		2300	95	.00	.00	.00	0.
1		1730	36	.08	.01	.07	3905.	*	2		2330	96	.00	.00	.00	0.
1		1800	37	.07	.01	.06	3045.	*	3		0000	97	.00	.00	.00	0.
1		1830	38	.06	.01	.06	2676.	*	3		0030	98	.00	.00	.00	0.
1		1900	39	.04	.00	.04	2234.	*	3		0100	99	.00	.00	.00	0.
1		1930	40	.05	.00	.05	1888.	*	3		0130	100	.00	.00	.00	0.
1		2000	41	.04	.00	.04	1540.	*	3		0200	101	.00	.00	.00	0.
1		2030	42	.05	.00	.04	1419.	*	3		0230	102	.00	.00	.00	0.
1		2100	43	.04	.00	.04	1234.	*	3		0300	103	.00	.00	.00	0.
1		2130	44	.04	.00	.04	1169.	*	3		0330	104	.00	.00	.00	0.
1		2200	45	.04	.00	.04	1082.	*	3		0400	105	.00	.00	.00	0.
1		2230	46	.04	.00	.04	1032.	*	3		0430	106	.00	.00	.00	0.
1		2300	47	.03	.00	.03	978.	*	3		0500	107	.00	.00	.00	0.
1		2330	48	.03	.00	.03	922.	*	3		0530	108	.00	.00	.00	0.
2		0000	49	.03	.00	.03	831.	*	3		0600	109	.00	.00	.00	0.
2		0030	50	.00	.00	.00	738.	*	3		0630	110	.00	.00	.00	0.
2		0100	51	.00	.00	.00	601.	*	3		0700	111	.00	.00	.00	0.
2		0130	52	.00	.00	.00	327.	*	3		0730	112	.00	.00	.00	0.
2		0200	53	.00	.00	.00	222.	*	3		0800	113	.00	.00	.00	0.
2		0230	54	.00	.00	.00	157.	*	3		0830	114	.00	.00	.00	0.
2		0300	55	.00	.00	.00	110.	*	3		0900	115	.00	.00	.00	0.
2		0330	56	.00	.00	.00	77.	*	3		0930	116	.00	.00	.00	0.
2		0400	57	.00	.00	.00	52.	*	3		1000	117	.00	.00	.00	0.
2		0430	58	.00	.00	.00	36.	*	3		1030	118	.00	.00	.00	0.
2		0500	59	.00	.00	.00	25.	*	3		1100	119	.00	.00	.00	0.
2		0530	60	.00	.00	.00	16.	*	3		1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 7.84, TOTAL LOSS = 2.69, TOTAL EXCESS = 5.15

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)	(CFS)			
+	8266.	14.50	6524.	2554.	1031.	1031.
			(INCHES)	3.286	5.145	5.149
			(AC-FT)	3235.	5066.	5069.

CUMULATIVE AREA = 18.46 SQ MI

294 KK

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*   19    *
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296 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL     0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT      22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

297 RD

MUSKINGUM-CUNGE CHANNEL ROUTING

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L      8818.  CHANNEL LENGTH
S      .0060  SLOPE
N      .035   CHANNEL ROUGHNESS COEFFICIENT
CA     .00    CONTRIBUTING AREA
SHAPE  TRAP   CHANNEL SHAPE
WD     50.00  BOTTOM WIDTH OR DIAMETER
Z      2.00  SIDE SLOPE

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COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	COMPUTATION TIME STEP		PEAK	TIME TO PEAK	VOLUME	MAXIMUM CELERITY
		M	DT				
			(MIN)	(FT)	(CFS)	(MIN)	(IN)
MAIN	.31	1.58	9.17	4409.00	8221.59	880.30	5.15

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.31	1.58	30.00	8083.18	870.00	5.15
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .5069E+04 EXCESS= .0000E+00 OUTFLOW= .5070E+04 BASIN STORAGE= .2575E-01 PERCENT ERROR= .0

HYDROGRAPH AT STATION 19

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	1500	31	7883.	*	2	0600	61	16.	*	2	2100	91	0.	
1	0030	2	0.	*	1	1530	32	7995.	*	2	0630	62	13.	*	2	2130	92	0.	
1	0100	3	0.	*	1	1600	33	7975.	*	2	0700	63	11.	*	2	2200	93	0.	
1	0130	4	0.	*	1	1630	34	7420.	*	2	0730	64	9.	*	2	2230	94	0.	
1	0200	5	0.	*	1	1700	35	6273.	*	2	0800	65	7.	*	2	2300	95	0.	
1	0230	6	0.	*	1	1730	36	4518.	*	2	0830	66	5.	*	2	2330	96	0.	
1	0300	7	0.	*	1	1800	37	3335.	*	2	0900	67	3.	*	3	0000	97	0.	
1	0330	8	0.	*	1	1830	38	2812.	*	2	0930	68	1.	*	3	0030	98	0.	
1	0400	9	0.	*	1	1900	39	2399.	*	2	1000	69	0.	*	3	0100	99	0.	
1	0430	10	0.	*	1	1930	40	2025.	*	2	1030	70	0.	*	3	0130	100	0.	
1	0500	11	2.	*	1	2000	41	1688.	*	2	1100	71	0.	*	3	0200	101	0.	
1	0530	12	15.	*	1	2030	42	1474.	*	2	1130	72	0.	*	3	0230	102	0.	
1	0600	13	59.	*	1	2100	43	1320.	*	2	1200	73	0.	*	3	0300	103	0.	
1	0630	14	160.	*	1	2130	44	1200.	*	2	1230	74	0.	*	3	0330	104	0.	
1	0700	15	308.	*	1	2200	45	1125.	*	2	1300	75	0.	*	3	0400	105	0.	
1	0730	16	510.	*	1	2230	46	1057.	*	2	1330	76	0.	*	3	0430	106	0.	
1	0800	17	768.	*	1	2300	47	1006.	*	2	1400	77	0.	*	3	0500	107	0.	
1	0830	18	1082.	*	1	2330	48	951.	*	2	1430	78	0.	*	3	0530	108	0.	
1	0900	19	1493.	*	2	0000	49	880.	*	2	1500	79	0.	*	3	0600	109	0.	
1	0930	20	2034.	*	2	0030	50	790.	*	2	1530	80	0.	*	3	0630	110	0.	
1	1000	21	2655.	*	2	0100	51	682.	*	2	1600	81	0.	*	3	0700	111	0.	
1	1030	22	3285.	*	2	0130	52	503.	*	2	1630	82	0.	*	3	0730	112	0.	
1	1100	23	3826.	*	2	0200	53	294.	*	2	1700	83	0.	*	3	0800	113	0.	
1	1130	24	4005.	*	2	0230	54	203.	*	2	1730	84	0.	*	3	0830	114	0.	
1	1200	25	4393.	*	2	0300	55	144.	*	2	1800	85	0.	*	3	0900	115	0.	
1	1230	26	4800.	*	2	0330	56	102.	*	2	1830	86	0.	*	3	0930	116	0.	
1	1300	27	5259.	*	2	0400	57	71.	*	2	1900	87	0.	*	3	1000	117	0.	
1	1330	28	6342.	*	2	0430	58	49.	*	2	1930	88	0.	*	3	1030	118	0.	
1	1400	29	7325.	*	2	0500	59	34.	*	2	2000	89	0.	*	3	1100	119	0.	
1	1430	30	8083.	*	2	0530	60	24.	*	2	2030	90	0.	*	3	1130	120	0.	

```

*****
PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)      6-HR      24-HR      72-HR      59.50-HR
+ 8083.        14.50      (CFS)
                        (INCHES)  6501.    2554.    1031.    1031.
                        (AC-FT)   3.274    5.146    5.150    5.150
                        3224.    5067.    5070.    5070.
CUMULATIVE AREA = 18.46 SQ MI

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*                               *
298 KK  *       Node32       *
*                               *
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300 KO      OUTPUT CONTROL VARIABLES
            IPRNT      0  PRINT CONTROL
            IPLOT      0  PLOT CONTROL
            QSCAL      0.  HYDROGRAPH PLOT SCALE
            IPNCH      0  PUNCH COMPUTED HYDROGRAPH
            IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
            TIMINT     .500 TIME INTERVAL IN HOURS

```

SANTA MARGARITA STORMS

```

304 IN      TIME DATA FOR INPUT TIME SERIES
            JXMIN      15  TIME INTERVAL IN MINUTES
            JXDATE     1  0  STARTING DATE
            JXTIME     0  STARTING TIME
            UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

```

SUBBASIN RUNOFF DATA

```

301 BA      SUBBASIN CHARACTERISTICS
            TAREA      8.74  SUBBASIN AREA

```

PRECIPITATION DATA

```

303 PB      STORM      7.33  BASIN TOTAL PRECIPITATION
305 PI      INCREMENTAL PRECIPITATION PATTERN
            .04      .05      .04      .05      .06      .07      .07      .08      .09      .11
            .09      .12      .13      .15      .15      .18      .22      .24      .29      .32
            .22      .29      .28      .26      .37      .42      .50      .34      .39      .37
            .35      .28      .06      .04      .07      .07      .06      .04      .05      .04
            .04      .04      .04      .04      .04      .03      .03      .03

```

```

315 LS      SCS LOSS RATE
            STRTL      .61  INITIAL ABSTRACTION
            CRVNBR     76.70 CURVE NUMBER
            RTIMP      .00  PERCENT IMPERVIOUS AREA

```

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316 UI      INPUT UNITGRAPH, 33 ORDINATES, VOLUME = 1.00
            361.0    604.0    887.0    1636.0    2757.0    1122.0    729.0    607.0    451.0    384.0
            324.0    256.0    224.0    186.0    151.0    132.0    84.0    79.0    77.0    17.0
            16.8     16.8     16.8     16.8     16.8     16.8     16.8     16.8     16.8     16.8
            16.8     16.8     6.4

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HYDROGRAPH AT STATION Node32

```

*****
DA MON HRMN  ORD  RAIN  LOSS  EXCESS  COMP Q  DA MON HRMN  ORD  RAIN  LOSS  EXCESS  COMP Q
1  0000  1  .00  .00  .00  0.  2  0600  61  .00  .00  .00  57.
1  0030  2  .04  .04  .00  0.  2  0630  62  .00  .00  .00  45.
1  0100  3  .05  .05  .00  0.  2  0700  63  .00  .00  .00  35.
1  0130  4  .04  .04  .00  0.  2  0730  64  .00  .00  .00  25.
1  0200  5  .05  .05  .00  0.  2  0800  65  .00  .00  .00  17.
1  0230  6  .06  .06  .00  0.  2  0830  66  .00  .00  .00  13.
1  0300  7  .07  .07  .00  0.  2  0900  67  .00  .00  .00  11.
1  0330  8  .07  .07  .00  0.  2  0930  68  .00  .00  .00  8.
1  0400  9  .08  .08  .00  0.  2  1000  69  .00  .00  .00  7.
1  0430  10 .09  .09  .00  0.  2  1030  70  .00  .00  .00  6.
1  0500  11 .11  .11  .00  1.  2  1100  71  .00  .00  .00  6.

```

1	0530	12	.09	.09	.01	3.	*	2	1130	72	.00	.00	.00	5.
1	0600	13	.12	.10	.02	11.	*	2	1200	73	.00	.00	.00	4.
1	0630	14	.13	.11	.03	27.	*	2	1230	74	.00	.00	.00	4.
1	0700	15	.15	.11	.04	58.	*	2	1300	75	.00	.00	.00	3.
1	0730	16	.15	.11	.05	108.	*	2	1330	76	.00	.00	.00	3.
1	0800	17	.18	.11	.07	180.	*	2	1400	77	.00	.00	.00	2.
1	0830	18	.22	.12	.10	273.	*	2	1430	78	.00	.00	.00	2.
1	0900	19	.24	.12	.12	388.	*	2	1500	79	.00	.00	.00	1.
1	0930	20	.29	.13	.16	533.	*	2	1530	80	.00	.00	.00	1.
1	1000	21	.31	.12	.19	722.	*	2	1600	81	.00	.00	.00	0.
1	1030	22	.22	.08	.14	920.	*	2	1630	82	.00	.00	.00	0.
1	1100	23	.29	.09	.20	1134.	*	2	1700	83	.00	.00	.00	0.
1	1130	24	.28	.08	.20	1359.	*	2	1730	84	.00	.00	.00	0.
1	1200	25	.26	.07	.19	1516.	*	2	1800	85	.00	.00	.00	0.
1	1230	26	.37	.09	.28	1615.	*	2	1830	86	.00	.00	.00	0.
1	1300	27	.42	.09	.33	1866.	*	2	1900	87	.00	.00	.00	0.
1	1330	28	.50	.09	.41	2084.	*	2	1930	88	.00	.00	.00	0.
1	1400	29	.34	.06	.28	2324.	*	2	2000	89	.00	.00	.00	0.
1	1430	30	.39	.06	.33	2720.	*	2	2030	90	.00	.00	.00	0.
1	1500	31	.37	.05	.32	3031.	*	2	2100	91	.00	.00	.00	0.
1	1530	32	.34	.04	.30	3221.	*	2	2130	92	.00	.00	.00	0.
1	1600	33	.28	.03	.25	3123.	*	2	2200	93	.00	.00	.00	0.
1	1630	34	.06	.01	.05	3129.	*	2	2230	94	.00	.00	.00	0.
1	1700	35	.04	.00	.04	2986.	*	2	2300	95	.00	.00	.00	0.
1	1730	36	.07	.01	.07	2713.	*	2	2330	96	.00	.00	.00	0.
1	1800	37	.07	.01	.06	2265.	*	3	0000	97	.00	.00	.00	0.
1	1830	38	.06	.01	.05	1685.	*	3	0030	98	.00	.00	.00	0.
1	1900	39	.04	.00	.03	1433.	*	3	0100	99	.00	.00	.00	0.
1	1930	40	.05	.01	.05	1307.	*	3	0130	100	.00	.00	.00	0.
1	2000	41	.04	.00	.03	1154.	*	3	0200	101	.00	.00	.00	0.
1	2030	42	.04	.00	.04	1012.	*	3	0230	102	.00	.00	.00	0.
1	2100	43	.04	.00	.03	883.	*	3	0300	103	.00	.00	.00	0.
1	2130	44	.04	.00	.03	804.	*	3	0330	104	.00	.00	.00	0.
1	2200	45	.04	.00	.03	716.	*	3	0400	105	.00	.00	.00	0.
1	2230	46	.04	.00	.03	654.	*	3	0430	106	.00	.00	.00	0.
1	2300	47	.03	.00	.03	584.	*	3	0500	107	.00	.00	.00	0.
1	2330	48	.03	.00	.03	537.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.03	.00	.03	495.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	450.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	395.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	346.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	291.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	208.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	170.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	143.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	120.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	103.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	85.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	70.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 7.33, TOTAL LOSS = 2.70, TOTAL EXCESS = 4.63

PEAK FLOW	TIME	6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)	(CFS)	(CFS)	(CFS)
3221.	15.50	2593.	1083.	439.	439.
		(INCHES)	(INCHES)	(INCHES)	(INCHES)
		2.758	4.610	4.628	4.628
		(AC-FT)	(AC-FT)	(AC-FT)	(AC-FT)
		1286.	2149.	2157.	2157.

CUMULATIVE AREA = 8.74 SQ MI

321 KK

*
* Node64 *
*

323 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLST	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

324 HC

HYDROGRAPH COMBINATION

ICOMB 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node64
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		0000	1	0.	*	1		1500	31	10914.	*	2		0600	61	73.	*	2		2100	91	0.	*
1		0030	2	0.	*	1		1530	32	11216.	*	2		0630	62	58.	*	2		2130	92	0.	*
1		0100	3	0.	*	1		1600	33	11098.	*	2		0700	63	46.	*	2		2200	93	0.	*
1		0130	4	0.	*	1		1630	34	10549.	*	2		0730	64	34.	*	2		2230	94	0.	*
1		0200	5	0.	*	1		1700	35	9258.	*	2		0800	65	24.	*	2		2300	95	0.	*
1		0230	6	0.	*	1		1730	36	7231.	*	2		0830	66	18.	*	2		2330	96	0.	*
1		0300	7	0.	*	1		1800	37	5600.	*	2		0900	67	14.	*	3		0000	97	0.	*
1		0330	8	0.	*	1		1830	38	4496.	*	2		0930	68	10.	*	3		0030	98	0.	*
1		0400	9	0.	*	1		1900	39	3831.	*	2		1000	69	8.	*	3		0100	99	0.	*
1		0430	10	0.	*	1		1930	40	3332.	*	2		1030	70	7.	*	3		0130	100	0.	*
1		0500	11	2.	*	1		2000	41	2842.	*	2		1100	71	6.	*	3		0200	101	0.	*
1		0530	12	18.	*	1		2030	42	2486.	*	2		1130	72	5.	*	3		0230	102	0.	*
1		0600	13	70.	*	1		2100	43	2203.	*	2		1200	73	4.	*	3		0300	103	0.	*
1		0630	14	187.	*	1		2130	44	2004.	*	2		1230	74	4.	*	3		0330	104	0.	*
1		0700	15	366.	*	1		2200	45	1841.	*	2		1300	75	3.	*	3		0400	105	0.	*
1		0730	16	618.	*	1		2230	46	1712.	*	2		1330	76	3.	*	3		0430	106	0.	*
1		0800	17	947.	*	1		2300	47	1590.	*	2		1400	77	2.	*	3		0500	107	0.	*
1		0830	18	1355.	*	1		2330	48	1488.	*	2		1430	78	2.	*	3		0530	108	0.	*
1		0900	19	1882.	*	2		0000	49	1375.	*	2		1500	79	1.	*	3		0600	109	0.	*
1		0930	20	2567.	*	2		0030	50	1240.	*	2		1530	80	1.	*	3		0630	110	0.	*
1		1000	21	3377.	*	2		0100	51	1077.	*	2		1600	81	0.	*	3		0700	111	0.	*
1		1030	22	4204.	*	2		0130	52	849.	*	2		1630	82	0.	*	3		0730	112	0.	*
1		1100	23	4960.	*	2		0200	53	585.	*	2		1700	83	0.	*	3		0800	113	0.	*
1		1130	24	5364.	*	2		0230	54	411.	*	2		1730	84	0.	*	3		0830	114	0.	*
1		1200	25	5910.	*	2		0300	55	314.	*	2		1800	85	0.	*	3		0900	115	0.	*
1		1230	26	6415.	*	2		0330	56	244.	*	2		1830	86	0.	*	3		0930	116	0.	*
1		1300	27	7125.	*	2		0400	57	192.	*	2		1900	87	0.	*	3		1000	117	0.	*
1		1330	28	8426.	*	2		0430	58	152.	*	2		1930	88	0.	*	3		1030	118	0.	*
1		1400	29	9649.	*	2		0500	59	120.	*	2		2000	89	0.	*	3		1100	119	0.	*
1		1430	30	10804.	*	2		0530	60	93.	*	2		2030	90	0.	*	3		1130	120	0.	*

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)				
+	11216.	15.50	(CFS)			
			9037.	3637.	1470.	1470.
		(INCHES)	3.089	4.973	4.982	4.982
		(AC-FT)	4481.	7214.	7228.	7228.

CUMULATIVE AREA = 27.20 SQ MI

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325 KK

*
* 18 *
*

327 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

328 RD

MUSKINGUM-CUNGE CHANNEL ROUTING

L	31786.	CHANNEL LENGTH
S	.0029	SLOPE
N	.035	CHANNEL ROUGHNESS COEFFICIENT
CA	.00	CONTRIBUTING AREA
SHAPE	TRAP	CHANNEL SHAPE
WD	50.00	BOTTOM WIDTH OR DIAMETER
Z	2.00	SIDE SLOPE

COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	M	DT	DX	PEAK	TIME TO	VOLUME	MAXIMUM
---------	-------	---	----	----	------	---------	--------	---------

			(MIN)	(FT)	(CFS)	PEAK (MIN)	(IN)	CELERITY (FPS)
MAIN	.22	1.58	30.00	15893.00	11146.81	990.00	4.99	14.24

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.22	1.58	30.00		11146.81	990.00	4.99
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .7228E+04 EXCESS= .0000E+00 OUTFLOW= .7232E+04 BASIN STORAGE= .1556E+00 PERCENT ERROR= -.1

HYDROGRAPH AT STATION 18

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1		0000	1	0.	*	1		1500	31	10675.	*	2		0600	61	139.	*	2		2100	91	0.	*
1		0030	2	0.	*	1		1530	32	11105.	*	2		0630	62	111.	*	2		2130	92	0.	*
1		0100	3	0.	*	1		1600	33	11056.	*	2		0700	63	88.	*	2		2200	93	0.	*
1		0130	4	0.	*	1		1630	34	11147.	*	2		0730	64	71.	*	2		2230	94	0.	*
1		0200	5	0.	*	1		1700	35	10454.	*	2		0800	65	57.	*	2		2300	95	0.	*
1		0230	6	0.	*	1		1730	36	9309.	*	2		0830	66	44.	*	2		2330	96	0.	*
1		0300	7	0.	*	1		1800	37	7552.	*	2		0900	67	34.	*	3		0000	97	0.	*
1		0330	8	0.	*	1		1830	38	5890.	*	2		0930	68	26.	*	3		0030	98	0.	*
1		0400	9	0.	*	1		1900	39	4806.	*	2		1000	69	20.	*	3		0100	99	0.	*
1		0430	10	0.	*	1		1930	40	4050.	*	2		1030	70	15.	*	3		0130	100	0.	*
1		0500	11	0.	*	1		2000	41	3552.	*	2		1100	71	11.	*	3		0200	101	0.	*
1		0530	12	0.	*	1		2030	42	3109.	*	2		1130	72	9.	*	3		0230	102	0.	*
1		0600	13	1.	*	1		2100	43	2693.	*	2		1200	73	7.	*	3		0300	103	0.	*
1		0630	14	9.	*	1		2130	44	2395.	*	2		1230	74	6.	*	3		0330	104	0.	*
1		0700	15	43.	*	1		2200	45	2151.	*	2		1300	75	5.	*	3		0400	105	0.	*
1		0730	16	136.	*	1		2230	46	1973.	*	2		1330	76	5.	*	3		0430	106	0.	*
1		0800	17	304.	*	1		2300	47	1824.	*	2		1400	77	4.	*	3		0500	107	0.	*
1		0830	18	555.	*	1		2330	48	1702.	*	2		1430	78	4.	*	3		0530	108	0.	*
1		0900	19	891.	*	2		0000	49	1587.	*	2		1500	79	3.	*	3		0600	109	0.	*
1		0930	20	1324.	*	2		0030	50	1489.	*	2		1530	80	2.	*	3		0630	110	0.	*
1		1000	21	2009.	*	2		0100	51	1383.	*	2		1600	81	2.	*	3		0700	111	0.	*
1		1030	22	2891.	*	2		0130	52	1256.	*	2		1630	82	1.	*	3		0730	112	0.	*
1		1100	23	3847.	*	2		0200	53	1100.	*	2		1700	83	1.	*	3		0800	113	0.	*
1		1130	24	4707.	*	2		0230	54	889.	*	2		1730	84	1.	*	3		0830	114	0.	*
1		1200	25	5321.	*	2		0300	55	645.	*	2		1800	85	0.	*	3		0900	115	0.	*
1		1230	26	5741.	*	2		0330	56	466.	*	2		1830	86	0.	*	3		0930	116	0.	*
1		1300	27	6357.	*	2		0400	57	354.	*	2		1900	87	0.	*	3		1000	117	0.	*
1		1330	28	7039.	*	2		0430	58	276.	*	2		1930	88	0.	*	3		1030	118	0.	*
1		1400	29	8231.	*	2		0500	59	218.	*	2		2000	89	0.	*	3		1100	119	0.	*
1		1430	30	9670.	*	2		0530	60	174.	*	2		2030	90	0.	*	3		1130	120	0.	*

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)				
+	11147.	16.50	(CFS)			
			9034.	3638.	1471.	1471.
			(INCHES)	3.088	4.974	4.986
			(AC-FT)	4480.	7216.	7232.

CUMULATIVE AREA = 27.20 SQ MI

329 KK

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*****
*           *
*   Node5   *
*           *
*****

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331 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

42.ohl

335 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

332 BA SUBBASIN CHARACTERISTICS
 TAREA 30.47 SUBBASIN AREA

PRECIPITATION DATA

334 PB STORM 5.88 BASIN TOTAL PRECIPITATION

336 PI INCREMENTAL PRECIPITATION PATTERN

.03	.04	.04	.04	.05	.06	.06	.06	.08	.09
.08	.09	.11	.12	.12	.15	.18	.19	.23	.25
.18	.24	.22	.21	.30	.34	.40	.27	.31	.30
.28	.22	.05	.04	.06	.05	.05	.03	.04	.03
.04	.03	.03	.03	.03	.02	.02	.02		

346 LS SCS LOSS RATE
 STRTL .52 INITIAL ABSTRACTION
 CRVNR 79.30 CURVE NUMBER
 RTIMP .00 PERCENT IMPERVIOUS AREA

347 UI INPUT UNITGRAPH, 49 ORDINATES, VOLUME = 1.00

761.0	1076.0	1558.0	1803.0	2776.0	4638.0	7461.0	3337.0	2379.0	1742.0
1621.0	1285.0	1057.0	991.0	853.0	771.0	667.0	570.0	521.0	477.0
423.0	357.0	308.0	306.0	184.0	184.0	184.0	184.0	75.0	39.0
39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	9.0	

HYDROGRAPH AT STATION Node5

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	2		0600	61	.00	.00	.00	350.
1		0030	2	.03	.03	.00	0.	*	2		0630	62	.00	.00	.00	313.
1		0100	3	.04	.04	.00	0.	*	2		0700	63	.00	.00	.00	287.
1		0130	4	.04	.04	.00	0.	*	2		0730	64	.00	.00	.00	261.
1		0200	5	.04	.04	.00	0.	*	2		0800	65	.00	.00	.00	238.
1		0230	6	.05	.05	.00	0.	*	2		0830	66	.00	.00	.00	217.
1		0300	7	.06	.06	.00	0.	*	2		0900	67	.00	.00	.00	200.
1		0330	8	.06	.06	.00	0.	*	2		0930	68	.00	.00	.00	182.
1		0400	9	.06	.06	.00	0.	*	2		1000	69	.00	.00	.00	166.
1		0430	10	.08	.08	.00	0.	*	2		1030	70	.00	.00	.00	151.
1		0500	11	.09	.09	.00	0.	*	2		1100	71	.00	.00	.00	137.
1		0530	12	.08	.07	.00	3.	*	2		1130	72	.00	.00	.00	125.
1		0600	13	.09	.08	.01	11.	*	2		1200	73	.00	.00	.00	113.
1		0630	14	.11	.09	.02	28.	*	2		1230	74	.00	.00	.00	101.
1		0700	15	.12	.09	.03	59.	*	2		1300	75	.00	.00	.00	88.
1		0730	16	.12	.09	.04	108.	*	2		1330	76	.00	.00	.00	72.
1		0800	17	.15	.10	.05	190.	*	2		1400	77	.00	.00	.00	60.
1		0830	18	.18	.10	.07	325.	*	2		1430	78	.00	.00	.00	49.
1		0900	19	.19	.10	.09	519.	*	2		1500	79	.00	.00	.00	39.
1		0930	20	.23	.11	.12	775.	*	2		1530	80	.00	.00	.00	30.
1		1000	21	.25	.11	.15	1091.	*	2		1600	81	.00	.00	.00	22.
1		1030	22	.18	.07	.11	1429.	*	2		1630	82	.00	.00	.00	19.
1		1100	23	.24	.08	.15	1858.	*	2		1700	83	.00	.00	.00	17.
1		1130	24	.22	.07	.15	2331.	*	2		1730	84	.00	.00	.00	15.
1		1200	25	.21	.06	.15	2836.	*	2		1800	85	.00	.00	.00	14.
1		1230	26	.30	.08	.22	3389.	*	2		1830	86	.00	.00	.00	12.
1		1300	27	.34	.08	.26	3874.	*	2		1900	87	.00	.00	.00	11.
1		1330	28	.40	.08	.32	4275.	*	2		1930	88	.00	.00	.00	9.
1		1400	29	.27	.05	.22	4867.	*	2		2000	89	.00	.00	.00	8.
1		1430	30	.31	.05	.26	5368.	*	2		2030	90	.00	.00	.00	7.
1		1500	31	.30	.04	.25	5960.	*	2		2100	91	.00	.00	.00	6.
1		1530	32	.28	.04	.24	6851.	*	2		2130	92	.00	.00	.00	5.
1		1600	33	.22	.03	.19	7519.	*	2		2200	93	.00	.00	.00	4.
1		1630	34	.05	.01	.04	7836.	*	2		2230	94	.00	.00	.00	3.
1		1700	35	.04	.00	.03	7514.	*	2		2300	95	.00	.00	.00	2.
1		1730	36	.06	.01	.05	7509.	*	2		2330	96	.00	.00	.00	1.
1		1800	37	.05	.01	.05	7227.	*	3		0000	97	.00	.00	.00	0.
1		1830	38	.05	.01	.04	6675.	*	3		0030	98	.00	.00	.00	0.
1		1900	39	.03	.00	.03	5719.	*	3		0100	99	.00	.00	.00	0.
1		1930	40	.04	.00	.04	4519.	*	3		0130	100	.00	.00	.00	0.
1		2000	41	.03	.00	.03	3979.	*	3		0200	101	.00	.00	.00	0.
1		2030	42	.04	.00	.03	3676.	*	3		0230	102	.00	.00	.00	0.
1		2100	43	.03	.00	.03	3362.	*	3		0300	103	.00	.00	.00	0.
1		2130	44	.03	.00	.03	3042.	*	3		0330	104	.00	.00	.00	0.
1		2200	45	.03	.00	.03	2748.	*	3		0400	105	.00	.00	.00	0.
1		2230	46	.03	.00	.03	2581.	*	3		0430	106	.00	.00	.00	0.
1		2300	47	.02	.00	.02	2357.	*	3		0500	107	.00	.00	.00	0.
1		2330	48	.02	.00	.02	2195.	*	3		0530	108	.00	.00	.00	0.

42.ohl

2	0000	49	.02	.00	.02	2014.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	1859.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	1708.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	1541.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	1379.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	1219.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	1034.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	794.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	658.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	563.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	485.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	410.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 5.88, TOTAL LOSS = 2.28, TOTAL EXCESS = 3.60

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
7836.	16.50	6453.	2902.	1190.	1190.	
		(INCHES)	1.969	3.542	3.601	3.601
		(AC-FT)	3200.	5756.	5851.	5851.

CUMULATIVE AREA = 30.47 SQ MI

353 KK

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* Node76 *
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355 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLST	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

356 HC

HYDROGRAPH COMBINATION

ICOMB 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node76
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	0000	1	0.	*	1	1500	31	16634.	*	2	0600	61	489.	*	2	2100	91	6.					
1	0030	2	0.	*	1	1530	32	17956.	*	2	0630	62	424.	*	2	2130	92	5.					
1	0100	3	0.	*	1	1600	33	18574.	*	2	0700	63	375.	*	2	2200	93	4.					
1	0130	4	0.	*	1	1630	34	18983.	*	2	0730	64	332.	*	2	2230	94	3.					
1	0200	5	0.	*	1	1700	35	17968.	*	2	0800	65	295.	*	2	2300	95	2.					
1	0230	6	0.	*	1	1730	36	16818.	*	2	0830	66	261.	*	2	2330	96	1.					
1	0300	7	0.	*	1	1800	37	14779.	*	2	0900	67	233.	*	3	0000	97	0.					
1	0330	8	0.	*	1	1830	38	12565.	*	2	0930	68	208.	*	3	0030	98	0.					
1	0400	9	0.	*	1	1900	39	10524.	*	2	1000	69	185.	*	3	0100	99	0.					
1	0430	10	0.	*	1	1930	40	8569.	*	2	1030	70	166.	*	3	0130	100	0.					
1	0500	11	0.	*	1	2000	41	7530.	*	2	1100	71	149.	*	3	0200	101	0.					
1	0530	12	3.	*	1	2030	42	6785.	*	2	1130	72	134.	*	3	0230	102	0.					
1	0600	13	12.	*	1	2100	43	6055.	*	2	1200	73	120.	*	3	0300	103	0.					
1	0630	14	37.	*	1	2130	44	5436.	*	2	1230	74	107.	*	3	0330	104	0.					
1	0700	15	102.	*	1	2200	45	4899.	*	2	1300	75	93.	*	3	0400	105	0.					
1	0730	16	245.	*	1	2230	46	4554.	*	2	1330	76	77.	*	3	0430	106	0.					
1	0800	17	494.	*	1	2300	47	4181.	*	2	1400	77	64.	*	3	0500	107	0.					
1	0830	18	880.	*	1	2330	48	3897.	*	2	1430	78	53.	*	3	0530	108	0.					
1	0900	19	1411.	*	2	0000	49	3601.	*	2	1500	79	42.	*	3	0600	109	0.					
1	0930	20	2099.	*	2	0030	50	3349.	*	2	1530	80	32.	*	3	0630	110	0.					
1	1000	21	3100.	*	2	0100	51	3091.	*	2	1600	81	23.	*	3	0700	111	0.					
1	1030	22	4320.	*	2	0130	52	2797.	*	2	1630	82	20.	*	3	0730	112	0.					
1	1100	23	5705.	*	2	0200	53	2479.	*	2	1700	83	18.	*	3	0800	113	0.					
1	1130	24	7038.	*	2	0230	54	2108.	*	2	1730	84	16.	*	3	0830	114	0.					
1	1200	25	8157.	*	2	0300	55	1679.	*	2	1800	85	14.	*	3	0900	115	0.					
1	1230	26	9130.	*	2	0330	56	1260.	*	2	1830	86	12.	*	3	0930	116	0.					
1	1300	27	10231.	*	2	0400	57	1012.	*	2	1900	87	11.	*	3	1000	117	0.					

42.ohl

1	1330	28	11314.	*	2	0430	58	839.	*	2	1930	88	9.	*	3	1030	118	0.
1	1400	29	13098.	*	2	0500	59	703.	*	2	2000	89	8.	*	3	1100	119	0.
1	1430	30	15039.	*	2	0530	60	584.	*	2	2030	90	7.	*	3	1130	120	0.

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
18983.	16.50	15342.	6538.	2661.	2661.	
		(INCHES)	2.473	4.216	4.254	4.254
		(AC-FT)	7608.	12967.	13084.	13084.

CUMULATIVE AREA = 57.67 SQ MI

357 KK

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* Node61 *
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359 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

360 HC

HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node61
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	0000	1	0.	*		1	1500	31	23298.	*		2	0600	61	1821.	*		2	2100	91	58.	
1	0030	2	0.	*		1	1530	32	26206.	*		2	0630	62	1662.	*		2	2130	92	51.	
1	0100	3	0.	*		1	1600	33	28093.	*		2	0700	63	1507.	*		2	2200	93	44.	
1	0130	4	0.	*		1	1630	34	29120.	*		2	0730	64	1361.	*		2	2230	94	38.	
1	0200	5	0.	*		1	1700	35	28412.	*		2	0800	65	1231.	*		2	2300	95	32.	
1	0230	6	0.	*		1	1730	36	27228.	*		2	0830	66	1110.	*		2	2330	96	27.	
1	0300	7	0.	*		1	1800	37	25207.	*		2	0900	67	988.	*		3	0000	97	22.	
1	0330	8	0.	*		1	1830	38	22575.	*		2	0930	68	868.	*		3	0030	98	18.	
1	0400	9	0.	*		1	1900	39	19874.	*		2	1000	69	769.	*		3	0100	99	15.	
1	0430	10	0.	*		1	1930	40	17003.	*		2	1030	70	677.	*		3	0130	100	13.	
1	0500	11	0.	*		1	2000	41	15178.	*		2	1100	71	599.	*		3	0200	101	11.	
1	0530	12	3.	*		1	2030	42	13929.	*		2	1130	72	532.	*		3	0230	102	10.	
1	0600	13	12.	*		1	2100	43	12759.	*		2	1200	73	470.	*		3	0300	103	9.	
1	0630	14	38.	*		1	2130	44	11613.	*		2	1230	74	416.	*		3	0330	104	8.	
1	0700	15	105.	*		1	2200	45	10451.	*		2	1300	75	369.	*		3	0400	105	7.	
1	0730	16	254.	*		1	2230	46	9513.	*		2	1330	76	325.	*		3	0430	106	6.	
1	0800	17	516.	*		1	2300	47	8630.	*		2	1400	77	287.	*		3	0500	107	5.	
1	0830	18	927.	*		1	2330	48	7931.	*		2	1430	78	253.	*		3	0530	108	5.	
1	0900	19	1502.	*		2	0000	49	7357.	*		2	1500	79	222.	*		3	0600	109	4.	
1	0930	20	2271.	*		2	0030	50	6867.	*		2	1530	80	193.	*		3	0630	110	4.	
1	1000	21	3414.	*		2	0100	51	6419.	*		2	1600	81	167.	*		3	0700	111	3.	
1	1030	22	4853.	*		2	0130	52	5845.	*		2	1630	82	148.	*		3	0730	112	3.	
1	1100	23	6554.	*		2	0200	53	5244.	*		2	1700	83	134.	*		3	0800	113	2.	
1	1130	24	8300.	*		2	0230	54	4677.	*		2	1730	84	121.	*		3	0830	114	2.	
1	1200	25	9957.	*		2	0300	55	4011.	*		2	1800	85	110.	*		3	0900	115	2.	
1	1230	26	11591.	*		2	0330	56	3379.	*		2	1830	86	99.	*		3	0930	116	1.	
1	1300	27	13323.	*		2	0400	57	2907.	*		2	1900	87	90.	*		3	1000	117	1.	
1	1330	28	14989.	*		2	0430	58	2542.	*		2	1930	88	81.	*		3	1030	118	1.	
1	1400	29	17457.	*		2	0500	59	2276.	*		2	2000	89	73.	*		3	1100	119	1.	
1	1430	30	20420.	*		2	0530	60	2037.	*		2	2030	90	65.	*		3	1130	120	1.	

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
29120.	16.50	23657.	10704.	4405.	4405.	

(INCHES) 1.817 3.289 3.355 3.355
 (AC-FT) 11731. 21232. 21662. 21662.

CUMULATIVE AREA = 121.05 SQ MI

361 KK

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* 15       *
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363 KO

OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
 ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
 TIMINT .500 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

364 RD

MUSKINGUM-CUNGE CHANNEL ROUTING

L 845. CHANNEL LENGTH
 S .0018 SLOPE
 N .035 CHANNEL ROUGHNESS COEFFICIENT
 CA .00 CONTRIBUTING AREA
 SHAPE TRAP CHANNEL SHAPE
 WD 50.00 BOTTOM WIDTH OR DIAMETER
 Z 2.00 SIDE SLOPE

COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	COMPUTATION TIME STEP		DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
		M	DT (MIN)					
MAIN	.17	1.58	.81	845.00	29096.19	990.23	3.36	17.37

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.17	1.58	30.00	29091.12	990.00	3.36
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2166E+05 EXCESS= .0000E+00 OUTFLOW= .2166E+05 BASIN STORAGE= .4207E-01 PERCENT ERROR= .0

HYDROGRAPH AT STATION 15

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	1500	31	23233.	*	2	0600	61	1833.	*	2	2100	91	58.	
1	0030	2	0.	*	1	1530	32	26138.	*	2	0630	62	1671.	*	2	2130	92	51.	
1	0100	3	0.	*	1	1600	33	28049.	*	2	0700	63	1516.	*	2	2200	93	45.	
1	0130	4	0.	*	1	1630	34	29091.	*	2	0730	64	1370.	*	2	2230	94	38.	
1	0200	5	0.	*	1	1700	35	28425.	*	2	0800	65	1240.	*	2	2300	95	32.	
1	0230	6	0.	*	1	1730	36	27249.	*	2	0830	66	1119.	*	2	2330	96	27.	
1	0300	7	0.	*	1	1800	37	25249.	*	2	0900	67	997.	*	3	0000	97	22.	
1	0330	8	0.	*	1	1830	38	22635.	*	2	0930	68	877.	*	3	0030	98	18.	
1	0400	9	0.	*	1	1900	39	19939.	*	2	1000	69	777.	*	3	0100	99	15.	
1	0430	10	0.	*	1	1930	40	17081.	*	2	1030	70	684.	*	3	0130	100	13.	
1	0500	11	0.	*	1	2000	41	15229.	*	2	1100	71	606.	*	3	0200	101	11.	
1	0530	12	2.	*	1	2030	42	13963.	*	2	1130	72	538.	*	3	0230	102	10.	
1	0600	13	11.	*	1	2100	43	12793.	*	2	1200	73	476.	*	3	0300	103	9.	
1	0630	14	36.	*	1	2130	44	11646.	*	2	1230	74	421.	*	3	0330	104	8.	
1	0700	15	100.	*	1	2200	45	10487.	*	2	1300	75	374.	*	3	0400	105	7.	
1	0730	16	238.	*	1	2230	46	9543.	*	2	1330	76	330.	*	3	0430	106	6.	
1	0800	17	491.	*	1	2300	47	8660.	*	2	1400	77	291.	*	3	0500	107	5.	
1	0830	18	896.	*	1	2330	48	7955.	*	2	1430	78	257.	*	3	0530	108	5.	
1	0900	19	1466.	*	2	0000	49	7377.	*	2	1500	79	225.	*	3	0600	109	4.	
1	0930	20	2230.	*	2	0030	50	6885.	*	2	1530	80	196.	*	3	0630	110	4.	
1	1000	21	3362.	*	2	0100	51	6435.	*	2	1600	81	169.	*	3	0700	111	3.	
1	1030	22	4795.	*	2	0130	52	5866.	*	2	1630	82	150.	*	3	0730	112	3.	
1	1100	23	6491.	*	2	0200	53	5267.	*	2	1700	83	135.	*	3	0800	113	2.	
1	1130	24	8241.	*	2	0230	54	4699.	*	2	1730	84	122.	*	3	0830	114	2.	

42.ohl

1	1200	25	9905.	*	2	0300	55	4040.	*	2	1800	85	111.	*	3	0900	115	2.
1	1230	26	11543.	*	2	0330	56	3408.	*	2	1830	86	100.	*	3	0930	116	1.
1	1300	27	13274.	*	2	0400	57	2930.	*	2	1900	87	91.	*	3	1000	117	1.
1	1330	28	14947.	*	2	0430	58	2561.	*	2	1930	88	82.	*	3	1030	118	1.
1	1400	29	17396.	*	2	0500	59	2290.	*	2	2000	89	74.	*	3	1100	119	1.
1	1430	30	20349.	*	2	0530	60	2050.	*	2	2030	90	66.	*	3	1130	120	1.

PEAK FLOW (CFS)	TIME (HR)	6-HR (CFS)	24-HR (INCHES)	72-HR (AC-FT)	59.50-HR (AC-FT)
29091.	16.50	23647.	1.816	10704.	4405.
		11726.	3.289	21232.	3.356
				21663.	21663.

CUMULATIVE AREA = 121.05 SQ MI

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365 KK
Node10

367 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

371 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	15	TIME INTERVAL IN MINUTES
JXDATE	1	STARTING DATE
JXTIME	0	STARTING TIME

UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

368 BA SUBBASIN CHARACTERISTICS

TAREA	.18	SUBBASIN AREA
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PRECIPITATION DATA

370 PB STORM 4.57 BASIN TOTAL PRECIPITATION

372 PI INCREMENTAL PRECIPITATION PATTERN

.02	.03	.03	.04	.05	.05	.05	.06	.07
.06	.07	.08	.09	.10	.11	.14	.15	.18
.14	.18	.17	.16	.23	.26	.31	.21	.23
.21	.17	.04	.03	.05	.04	.04	.02	.03
.03	.02	.02	.02	.02	.02	.02	.02	.02

382 LS SCS LOSS RATE

STRTL	.57	INITIAL ABSTRACTION
CRVNBR	77.80	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

383 UI INPUT UNITGRAPH, 7 ORDINATES, VOLUME = 1.00

140.0	52.0	19.0	10.0	6.0	3.0	2.0
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HYDROGRAPH AT STATION Node10

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*	2	0600	61	.00	.00	.00	0.	*
1	0030	2	.02	.02	.00	0.	*	2	0630	62	.00	.00	.00	0.	*
1	0100	3	.03	.03	.00	0.	*	2	0700	63	.00	.00	.00	0.	*
1	0130	4	.03	.03	.00	0.	*	2	0730	64	.00	.00	.00	0.	*
1	0200	5	.03	.03	.00	0.	*	2	0800	65	.00	.00	.00	0.	*
1	0230	6	.04	.04	.00	0.	*	2	0830	66	.00	.00	.00	0.	*
1	0300	7	.05	.05	.00	0.	*	2	0900	67	.00	.00	.00	0.	*
1	0330	8	.05	.05	.00	0.	*	2	0930	68	.00	.00	.00	0.	*

42.ohl

1	0400	9	.05	.05	.00	0.	*	2	1000	69	.00	.00	.00	0.
1	0430	10	.06	.06	.00	0.	*	2	1030	70	.00	.00	.00	0.
1	0500	11	.07	.07	.00	0.	*	2	1100	71	.00	.00	.00	0.
1	0530	12	.06	.06	.00	0.	*	2	1130	72	.00	.00	.00	0.
1	0600	13	.07	.07	.00	0.	*	2	1200	73	.00	.00	.00	0.
1	0630	14	.08	.08	.00	0.	*	2	1230	74	.00	.00	.00	0.
1	0700	15	.09	.09	.01	1.	*	2	1300	75	.00	.00	.00	0.
1	0730	16	.10	.08	.01	2.	*	2	1330	76	.00	.00	.00	0.
1	0800	17	.11	.09	.02	4.	*	2	1400	77	.00	.00	.00	0.
1	0830	18	.14	.10	.03	6.	*	2	1430	78	.00	.00	.00	0.
1	0900	19	.15	.10	.05	9.	*	2	1500	79	.00	.00	.00	0.
1	0930	20	.18	.11	.07	13.	*	2	1530	80	.00	.00	.00	0.
1	1000	21	.20	.11	.08	17.	*	2	1600	81	.00	.00	.00	0.
1	1030	22	.14	.07	.07	16.	*	2	1630	82	.00	.00	.00	0.
1	1100	23	.18	.09	.09	19.	*	2	1700	83	.00	.00	.00	0.
1	1130	24	.17	.08	.10	21.	*	2	1730	84	.00	.00	.00	0.
1	1200	25	.16	.07	.09	22.	*	2	1800	85	.00	.00	.00	0.
1	1230	26	.23	.09	.15	29.	*	2	1830	86	.00	.00	.00	0.
1	1300	27	.26	.09	.17	35.	*	2	1900	87	.00	.00	.00	0.
1	1330	28	.31	.09	.22	44.	*	2	1930	88	.00	.00	.00	0.
1	1400	29	.21	.06	.15	38.	*	2	2000	89	.00	.00	.00	0.
1	1430	30	.24	.06	.18	40.	*	2	2030	90	.00	.00	.00	0.
1	1500	31	.23	.05	.18	41.	*	2	2100	91	.00	.00	.00	0.
1	1530	32	.21	.05	.17	40.	*	2	2130	92	.00	.00	.00	0.
1	1600	33	.17	.04	.14	35.	*	2	2200	93	.00	.00	.00	0.
1	1630	34	.04	.01	.03	18.	*	2	2230	94	.00	.00	.00	0.
1	1700	35	.03	.01	.02	11.	*	2	2300	95	.00	.00	.00	0.
1	1730	36	.05	.01	.04	10.	*	2	2330	96	.00	.00	.00	0.
1	1800	37	.04	.01	.03	9.	*	3	0000	97	.00	.00	.00	0.
1	1830	38	.04	.01	.03	8.	*	3	0030	98	.00	.00	.00	0.
1	1900	39	.02	.00	.02	6.	*	3	0100	99	.00	.00	.00	0.
1	1930	40	.03	.01	.03	6.	*	3	0130	100	.00	.00	.00	0.
1	2000	41	.02	.00	.02	5.	*	3	0200	101	.00	.00	.00	0.
1	2030	42	.03	.01	.02	5.	*	3	0230	102	.00	.00	.00	0.
1	2100	43	.02	.00	.02	5.	*	3	0300	103	.00	.00	.00	0.
1	2130	44	.02	.00	.02	5.	*	3	0330	104	.00	.00	.00	0.
1	2200	45	.02	.00	.02	4.	*	3	0400	105	.00	.00	.00	0.
1	2230	46	.02	.00	.02	4.	*	3	0430	106	.00	.00	.00	0.
1	2300	47	.02	.00	.01	4.	*	3	0500	107	.00	.00	.00	0.
1	2330	48	.02	.00	.01	4.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.02	.00	.01	4.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	1.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	1.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	0.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	0.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	0.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	0.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	0.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	0.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	0.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	0.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	0.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 4.57, TOTAL LOSS = 2.24, TOTAL EXCESS = 2.33

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)	(CFS)			
+	44.	13.50	32.	11.	5.	5.
			(INCHES)	1.644	2.331	2.331
			(AC-FT)	16.	22.	22.

CUMULATIVE AREA = .18 SQ MI

385 KK

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*                               *
*   Node59                       *
*                               *
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387 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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388 HC

HYDROGRAPH COMBINATION

COMPUTED MUSKINGUM-CUNGE PARAMETERS
COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT	DX	PEAK	TIME TO PEAK	VOLUME	MAXIMUM CELERITY
			(MIN)	(FT)	(CFS)	(MIN)	(IN)	(FPS)
MAIN	.19	1.58	9.94	5861.00	34223.26	1003.88	2.57	19.66

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.19	1.58	30.00		33953.55	1020.00	2.57	
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2910E+05 EXCESS= .0000E+00 OUTFLOW= .2909E+05 BASIN STORAGE= .3279E+02 PERCENT ERROR= -.1

HYDROGRAPH AT STATION 11

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	1.	*	1	1500	31	26220.	*	2	0600	61	4021.	*	2	2100	91	959.	
1	0030	2	1.	*	1	1530	32	29637.	*	2	0630	62	3804.	*	2	2130	92	924.	
1	0100	3	1.	*	1	1600	33	32310.	*	2	0700	63	3610.	*	2	2200	93	890.	
1	0130	4	1.	*	1	1630	34	33934.	*	2	0730	64	3419.	*	2	2230	94	858.	
1	0200	5	1.	*	1	1700	35	33954.	*	2	0800	65	3237.	*	2	2300	95	827.	
1	0230	6	1.	*	1	1730	36	32982.	*	2	0830	66	3068.	*	2	2330	96	797.	
1	0300	7	1.	*	1	1800	37	31192.	*	2	0900	67	2905.	*	3	0000	97	769.	
1	0330	8	1.	*	1	1830	38	28689.	*	2	0930	68	2741.	*	3	0030	98	743.	
1	0400	9	1.	*	1	1900	39	25902.	*	2	1000	69	2585.	*	3	0100	99	719.	
1	0430	10	1.	*	1	1930	40	22939.	*	2	1030	70	2443.	*	3	0130	100	696.	
1	0500	11	1.	*	1	2000	41	20528.	*	2	1100	71	2310.	*	3	0200	101	674.	
1	0530	12	1.	*	1	2030	42	18781.	*	2	1130	72	2189.	*	3	0230	102	651.	
1	0600	13	4.	*	1	2100	43	17280.	*	2	1200	73	2077.	*	3	0300	103	629.	
1	0630	14	14.	*	1	2130	44	15828.	*	2	1230	74	1971.	*	3	0330	104	606.	
1	0700	15	44.	*	1	2200	45	14388.	*	2	1300	75	1872.	*	3	0400	105	584.	
1	0730	16	120.	*	1	2230	46	13091.	*	2	1330	76	1778.	*	3	0430	106	563.	
1	0800	17	283.	*	1	2300	47	11936.	*	2	1400	77	1691.	*	3	0500	107	543.	
1	0830	18	580.	*	1	2330	48	10954.	*	2	1430	78	1610.	*	3	0530	108	523.	
1	0900	19	1049.	*	2	0000	49	10151.	*	2	1500	79	1536.	*	3	0600	109	504.	
1	0930	20	1760.	*	2	0030	50	9468.	*	2	1530	80	1466.	*	3	0630	110	487.	
1	1000	21	2841.	*	2	0100	51	8850.	*	2	1600	81	1398.	*	3	0700	111	472.	
1	1030	22	4346.	*	2	0130	52	8191.	*	2	1630	82	1335.	*	3	0730	112	459.	
1	1100	23	6197.	*	2	0200	53	7484.	*	2	1700	83	1280.	*	3	0800	113	447.	
1	1130	24	8255.	*	2	0230	54	6843.	*	2	1730	84	1233.	*	3	0830	114	437.	
1	1200	25	10306.	*	2	0300	55	6294.	*	2	1800	85	1189.	*	3	0900	115	428.	
1	1230	26	12328.	*	2	0330	56	5772.	*	2	1830	86	1147.	*	3	0930	116	420.	
1	1300	27	14437.	*	2	0400	57	5272.	*	2	1900	87	1106.	*	3	1000	117	412.	
1	1330	28	16626.	*	2	0430	58	4852.	*	2	1930	88	1067.	*	3	1030	118	403.	
1	1400	29	19365.	*	2	0500	59	4527.	*	2	2000	89	1030.	*	3	1100	119	395.	
1	1430	30	22740.	*	2	0530	60	4262.	*	2	2030	90	995.	*	3	1130	120	387.	

PEAK FLOW	TIME	6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)				
33954.	17.00	28370.	13471.	5915.	5915.
		(INCHES)	1.241	2.357	2.566
		(AC-FT)	14068.	26720.	29089.

CUMULATIVE AREA = 212.57 SQ MI

393 KK

* Node29 *

395 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

399 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

396 BA SUBBASIN CHARACTERISTICS
 TAREA 3.94 SUBBASIN AREA

PRECIPITATION DATA

398 PB STORM 5.14 BASIN TOTAL PRECIPITATION

400 PI INCREMENTAL PRECIPITATION PATTERN

.02	.04	.03	.04	.04	.05	.05	.06	.07	.08
.07	.08	.09	.10	.11	.13	.15	.17	.20	.22
.15	.21	.20	.18	.26	.29	.35	.24	.27	.26
.24	.20	.04	.03	.05	.05	.04	.03	.04	.03
.03	.03	.03	.03	.03	.02	.02	.02		

410 LS SCS LOSS RATE
 STRTL .36 INITIAL ABSTRACTION
 CRVNBR 84.70 CURVE NUMBER
 RTIMP .00 PERCENT IMPERVIOUS AREA

411 UI INPUT UNITGRAPH, 30 ORDINATES, VOLUME = 1.00

303.0	635.0	1011.0	906.0	514.0	321.0	237.0	182.0	143.0	116.0
94.7	84.3	71.4	64.0	52.4	50.3	41.6	41.6	31.0	27.5
27.5	26.7	13.5	13.5	13.5	13.5	13.5	13.5	13.5	6.1

HYDROGRAPH AT STATION Node29

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*	2	0600	61	.00	.00	.00	.00	16.
1	0030	2	.03	.03	.00	0.	*	2	0630	62	.00	.00	.00	.00	12.
1	0100	3	.04	.04	.00	0.	*	2	0700	63	.00	.00	.00	.00	10.
1	0130	4	.03	.03	.00	0.	*	2	0730	64	.00	.00	.00	.00	8.
1	0200	5	.04	.04	.00	0.	*	2	0800	65	.00	.00	.00	.00	7.
1	0230	6	.04	.04	.00	0.	*	2	0830	66	.00	.00	.00	.00	6.
1	0300	7	.05	.05	.00	0.	*	2	0900	67	.00	.00	.00	.00	5.
1	0330	8	.05	.05	.00	0.	*	2	0930	68	.00	.00	.00	.00	4.
1	0400	9	.06	.06	.00	0.	*	2	1000	69	.00	.00	.00	.00	3.
1	0430	10	.07	.07	.00	0.	*	2	1030	70	.00	.00	.00	.00	3.
1	0500	11	.08	.07	.01	2.	*	2	1100	71	.00	.00	.00	.00	2.
1	0530	12	.07	.06	.01	7.	*	2	1130	72	.00	.00	.00	.00	2.
1	0600	13	.08	.07	.02	18.	*	2	1200	73	.00	.00	.00	.00	2.
1	0630	14	.09	.07	.02	34.	*	2	1230	74	.00	.00	.00	.00	1.
1	0700	15	.10	.07	.03	55.	*	2	1300	75	.00	.00	.00	.00	1.
1	0730	16	.11	.07	.04	82.	*	2	1330	76	.00	.00	.00	.00	1.
1	0800	17	.13	.07	.06	115.	*	2	1400	77	.00	.00	.00	.00	0.
1	0830	18	.15	.08	.08	156.	*	2	1430	78	.00	.00	.00	.00	0.
1	0900	19	.17	.07	.10	208.	*	2	1500	79	.00	.00	.00	.00	0.
1	0930	20	.20	.08	.12	274.	*	2	1530	80	.00	.00	.00	.00	0.
1	1000	21	.22	.07	.15	351.	*	2	1600	81	.00	.00	.00	.00	0.
1	1030	22	.15	.05	.11	421.	*	2	1630	82	.00	.00	.00	.00	0.
1	1100	23	.21	.05	.15	483.	*	2	1700	83	.00	.00	.00	.00	0.
1	1130	24	.20	.05	.15	523.	*	2	1730	84	.00	.00	.00	.00	0.
1	1200	25	.18	.04	.14	562.	*	2	1800	85	.00	.00	.00	.00	0.
1	1230	26	.26	.05	.21	620.	*	2	1830	86	.00	.00	.00	.00	0.
1	1300	27	.29	.05	.24	694.	*	2	1900	87	.00	.00	.00	.00	0.
1	1330	28	.35	.05	.30	814.	*	2	1930	88	.00	.00	.00	.00	0.
1	1400	29	.24	.03	.21	928.	*	2	2000	89	.00	.00	.00	.00	0.
1	1430	30	.27	.03	.24	1011.	*	2	2030	90	.00	.00	.00	.00	0.
1	1500	31	.26	.03	.23	1035.	*	2	2100	91	.00	.00	.00	.00	0.
1	1530	32	.24	.02	.22	1040.	*	2	2130	92	.00	.00	.00	.00	0.
1	1600	33	.20	.02	.18	1040.	*	2	2200	93	.00	.00	.00	.00	0.
1	1630	34	.04	.00	.04	973.	*	2	2230	94	.00	.00	.00	.00	0.
1	1700	35	.03	.00	.03	840.	*	2	2300	95	.00	.00	.00	.00	0.
1	1730	36	.05	.00	.05	666.	*	2	2330	96	.00	.00	.00	.00	0.
1	1800	37	.05	.00	.04	525.	*	3	0000	97	.00	.00	.00	.00	0.
1	1830	38	.04	.00	.04	452.	*	3	0030	98	.00	.00	.00	.00	0.
1	1900	39	.03	.00	.02	404.	*	3	0100	99	.00	.00	.00	.00	0.
1	1930	40	.04	.00	.03	360.	*	3	0130	100	.00	.00	.00	.00	0.
1	2000	41	.03	.00	.02	319.	*	3	0200	101	.00	.00	.00	.00	0.
1	2030	42	.03	.00	.03	289.	*	3	0230	102	.00	.00	.00	.00	0.
1	2100	43	.03	.00	.02	265.	*	3	0300	103	.00	.00	.00	.00	0.
1	2130	44	.03	.00	.02	244.	*	3	0330	104	.00	.00	.00	.00	0.
1	2200	45	.03	.00	.02	226.	*	3	0400	105	.00	.00	.00	.00	0.
1	2230	46	.03	.00	.02	210.	*	3	0430	106	.00	.00	.00	.00	0.
1	2300	47	.02	.00	.02	197.	*	3	0500	107	.00	.00	.00	.00	0.

42.oh1

1	2330	48	.02	.00	.02	184.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.02	.00	.02	169.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	150.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	129.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	103.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	80.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	65.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	54.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	45.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	38.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	31.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	26.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	21.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 5.14, TOTAL LOSS = 1.67, TOTAL EXCESS = 3.47

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW
(CFS)	(HR)	6-HR 24-HR 72-HR 59.50-HR
+ 1040.	15.50	850. 365. 148. 148.
		(INCHES) 2.007 3.447 3.465 3.465
		(AC-FT) 422. 724. 728. 728.

CUMULATIVE AREA = 3.94 SQ MI

415 KK

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*  10  *
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417 KO

OUTPUT CONTROL VARIABLES

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IPRNT  0  PRINT CONTROL
IPLOT   0  PLOT CONTROL
QSCAL   0. HYDROGRAPH PLOT SCALE
IPNCH   0  PUNCH COMPUTED HYDROGRAPH
IOUT    22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1   1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2  120  LAST ORDINATE PUNCHED OR SAVED
TIMINT  .500 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

418 RD

MUSKINGUM-CUNGE CHANNEL ROUTING

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L  3168. CHANNEL LENGTH
S  .0062 SLOPE
N  .035  CHANNEL ROUGHNESS COEFFICIENT
CA .00   CONTRIBUTING AREA
SHAPE TRAP CHANNEL SHAPE
WD  50.00 BOTTOM WIDTH OR DIAMETER
Z   2.00 SIDE SLOPE

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COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	COMPUTATION TIME STEP		PEAK	TIME TO PEAK	VOLUME	MAXIMUM CELERITY
		M	DT				
			(MIN)	(FT)	(CFS)	(MIN)	(FPS)
MAIN	.32	1.58	6.97	1584.00	1040.28	940.81	7.58

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.32	1.58	30.00	1039.39	960.00	3.47
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .7282E+03 EXCESS= .0000E+00 OUTFLOW= .7282E+03 BASIN STORAGE= .1095E-01 PERCENT ERROR= .0

HYDROGRAPH AT STATION 10

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	1500	31	1031.	*	2	0600	61	19.	*	2	2100	91	0.	

42.ohl

1	0030	2	0.	*	1	1530	32	1039.	*	2	0630	62	14.	*	2	2130	92	0.
1	0100	3	0.	*	1	1600	33	1039.	*	2	0700	63	11.	*	2	2200	93	0.
1	0130	4	0.	*	1	1630	34	986.	*	2	0730	64	9.	*	2	2230	94	0.
1	0200	5	0.	*	1	1700	35	866.	*	2	0800	65	8.	*	2	2300	95	0.
1	0230	6	0.	*	1	1730	36	702.	*	2	0830	66	7.	*	2	2330	96	0.
1	0300	7	0.	*	1	1800	37	557.	*	2	0900	67	6.	*	3	0000	97	0.
1	0330	8	0.	*	1	1830	38	470.	*	2	0930	68	5.	*	3	0030	98	0.
1	0400	9	0.	*	1	1900	39	417.	*	2	1000	69	4.	*	3	0100	99	0.
1	0430	10	0.	*	1	1930	40	372.	*	2	1030	70	3.	*	3	0130	100	0.
1	0500	11	1.	*	1	2000	41	331.	*	2	1100	71	3.	*	3	0200	101	0.
1	0530	12	4.	*	1	2030	42	297.	*	2	1130	72	2.	*	3	0230	102	0.
1	0600	13	12.	*	1	2100	43	272.	*	2	1200	73	2.	*	3	0300	103	0.
1	0630	14	25.	*	1	2130	44	250.	*	2	1230	74	1.	*	3	0330	104	0.
1	0700	15	44.	*	1	2200	45	232.	*	2	1300	75	1.	*	3	0400	105	0.
1	0730	16	69.	*	1	2230	46	215.	*	2	1330	76	1.	*	3	0430	106	0.
1	0800	17	101.	*	1	2300	47	201.	*	2	1400	77	1.	*	3	0500	107	0.
1	0830	18	140.	*	1	2330	48	188.	*	2	1430	78	0.	*	3	0530	108	0.
1	0900	19	190.	*	2	0000	49	174.	*	2	1500	79	0.	*	3	0600	109	0.
1	0930	20	254.	*	2	0030	50	157.	*	2	1530	80	0.	*	3	0630	110	0.
1	1000	21	330.	*	2	0100	51	137.	*	2	1600	81	0.	*	3	0700	111	0.
1	1030	22	403.	*	2	0130	52	113.	*	2	1630	82	0.	*	3	0730	112	0.
1	1100	23	468.	*	2	0200	53	90.	*	2	1700	83	0.	*	3	0800	113	0.
1	1130	24	514.	*	2	0230	54	72.	*	2	1730	84	0.	*	3	0830	114	0.
1	1200	25	553.	*	2	0300	55	59.	*	2	1800	85	0.	*	3	0900	115	0.
1	1230	26	608.	*	2	0330	56	49.	*	2	1830	86	0.	*	3	0930	116	0.
1	1300	27	678.	*	2	0400	57	42.	*	2	1900	87	0.	*	3	1000	117	0.
1	1330	28	790.	*	2	0430	58	35.	*	2	1930	88	0.	*	3	1030	118	0.
1	1400	29	906.	*	2	0500	59	29.	*	2	2000	89	0.	*	3	1100	119	0.
1	1430	30	995.	*	2	0530	60	24.	*	2	2030	90	0.	*	3	1130	120	0.

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)				
+	1039.	16.00	(CFS)			
			850.	365.	148.	148.
		(INCHES)	2.005	3.447	3.466	3.466
		(AC-FT)	421.	724.	728.	728.

CUMULATIVE AREA = 3.94 SQ MI

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419 KK *****
* Node34 *
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421 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

425 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 15 TIME INTERVAL IN MINUTES
JXDATE 1 0 STARTING DATE
JXTIME 0 STARTING TIME
UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

422 BA SUBBASIN CHARACTERISTICS
TAREA 2.05 SUBBASIN AREA

PRECIPITATION DATA

424 PB STORM 5.67 BASIN TOTAL PRECIPITATION

426 PI INCREMENTAL PRECIPITATION PATTERN
.03 .04 .03 .04 .05 .06 .06 .06 .07 .09
.07 .09 .10 .11 .12 .14 .17 .19 .22 .24
.17 .23 .22 .20 .29 .32 .39 .26 .30 .29
.27 .22 .05 .03 .06 .05 .05 .03 .04 .03
.03 .03 .03 .03 .03 .02 .02 .02 .04 .03

436 LS SCS LOSS RATE
STRTL .37 INITIAL ABSTRACTION
CRVNBR 84.30 CURVE NUMBER

RTIMP .00 PERCENT IMPERVIOUS AREA

437 UI

INPUT UNITGRAPH, 24 ORDINATES, VOLUME = 1.00

214.0	499.0	656.0	367.0	206.0	140.0	104.0	78.0	62.0	53.0
42.4	36.0	32.6	26.6	25.3	17.6	17.6	16.4	8.7	8.7
8.7	8.7	8.7	8.4						

HYDROGRAPH AT STATION Node34

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	2		0600	61	.00	.00	.00	5.
1		0030	2	.03	.03	.00	0.	2		0630	62	.00	.00	.00	4.
1		0100	3	.04	.04	.00	0.	2		0700	63	.00	.00	.00	3.
1		0130	4	.03	.03	.00	0.	2		0730	64	.00	.00	.00	2.
1		0200	5	.04	.04	.00	0.	2		0800	65	.00	.00	.00	2.
1		0230	6	.05	.05	.00	0.	2		0830	66	.00	.00	.00	2.
1		0300	7	.06	.06	.00	0.	2		0900	67	.00	.00	.00	1.
1		0330	8	.06	.06	.00	0.	2		0930	68	.00	.00	.00	1.
1		0400	9	.06	.06	.00	0.	2		1000	69	.00	.00	.00	1.
1		0430	10	.07	.07	.00	0.	2		1030	70	.00	.00	.00	1.
1		0500	11	.09	.08	.01	3.	2		1100	71	.00	.00	.00	0.
1		0530	12	.07	.06	.01	9.	2		1130	72	.00	.00	.00	0.
1		0600	13	.09	.07	.02	18.	2		1200	73	.00	.00	.00	0.
1		0630	14	.10	.07	.03	29.	2		1230	74	.00	.00	.00	0.
1		0700	15	.11	.07	.04	45.	2		1300	75	.00	.00	.00	0.
1		0730	16	.12	.07	.05	63.	2		1330	76	.00	.00	.00	0.
1		0800	17	.14	.07	.07	85.	2		1400	77	.00	.00	.00	0.
1		0830	18	.17	.08	.09	113.	2		1430	78	.00	.00	.00	0.
1		0900	19	.19	.08	.11	149.	2		1500	79	.00	.00	.00	0.
1		0930	20	.22	.08	.14	193.	2		1530	80	.00	.00	.00	0.
1		1000	21	.24	.08	.17	244.	2		1600	81	.00	.00	.00	0.
1		1030	22	.17	.05	.12	286.	2		1630	82	.00	.00	.00	0.
1		1100	23	.23	.06	.17	314.	2		1700	83	.00	.00	.00	0.
1		1130	24	.22	.05	.17	332.	2		1730	84	.00	.00	.00	0.
1		1200	25	.20	.04	.16	360.	2		1800	85	.00	.00	.00	0.
1		1230	26	.29	.05	.24	391.	2		1830	86	.00	.00	.00	0.
1		1300	27	.32	.05	.27	444.	2		1900	87	.00	.00	.00	0.
1		1330	28	.39	.05	.33	533.	2		1930	88	.00	.00	.00	0.
1		1400	29	.26	.03	.23	598.	2		2000	89	.00	.00	.00	0.
1		1430	30	.30	.03	.27	628.	2		2030	90	.00	.00	.00	0.
1		1500	31	.29	.03	.26	622.	2		2100	91	.00	.00	.00	0.
1		1530	32	.27	.02	.24	631.	2		2130	92	.00	.00	.00	0.
1		1600	33	.22	.02	.20	622.	2		2200	93	.00	.00	.00	0.
1		1630	34	.05	.00	.04	562.	2		2230	94	.00	.00	.00	0.
1		1700	35	.03	.00	.03	452.	2		2300	95	.00	.00	.00	0.
1		1730	36	.06	.00	.05	334.	2		2330	96	.00	.00	.00	0.
1		1800	37	.05	.00	.05	272.	3		0000	97	.00	.00	.00	0.
1		1830	38	.05	.00	.04	242.	3		0030	98	.00	.00	.00	0.
1		1900	39	.03	.00	.03	214.	3		0100	99	.00	.00	.00	0.
1		1930	40	.04	.00	.04	189.	3		0130	100	.00	.00	.00	0.
1		2000	41	.03	.00	.03	166.	3		0200	101	.00	.00	.00	0.
1		2030	42	.03	.00	.03	152.	3		0230	102	.00	.00	.00	0.
1		2100	43	.03	.00	.03	138.	3		0300	103	.00	.00	.00	0.
1		2130	44	.03	.00	.03	127.	3		0330	104	.00	.00	.00	0.
1		2200	45	.03	.00	.03	116.	3		0400	105	.00	.00	.00	0.
1		2230	46	.03	.00	.03	107.	3		0430	106	.00	.00	.00	0.
1		2300	47	.02	.00	.02	100.	3		0500	107	.00	.00	.00	0.
1		2330	48	.02	.00	.02	91.	3		0530	108	.00	.00	.00	0.
2		0000	49	.02	.00	.02	84.	3		0600	109	.00	.00	.00	0.
2		0030	50	.00	.00	.00	73.	3		0630	110	.00	.00	.00	0.
2		0100	51	.00	.00	.00	58.	3		0700	111	.00	.00	.00	0.
2		0130	52	.00	.00	.00	41.	3		0730	112	.00	.00	.00	0.
2		0200	53	.00	.00	.00	30.	3		0800	113	.00	.00	.00	0.
2		0230	54	.00	.00	.00	23.	3		0830	114	.00	.00	.00	0.
2		0300	55	.00	.00	.00	18.	3		0900	115	.00	.00	.00	0.
2		0330	56	.00	.00	.00	13.	3		0930	116	.00	.00	.00	0.
2		0400	57	.00	.00	.00	10.	3		1000	117	.00	.00	.00	0.
2		0430	58	.00	.00	.00	8.	3		1030	118	.00	.00	.00	0.
2		0500	59	.00	.00	.00	7.	3		1100	119	.00	.00	.00	0.
2		0530	60	.00	.00	.00	6.	3		1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 5.67, TOTAL LOSS = 1.75, TOTAL EXCESS = 3.92

PEAK FLOW	TIME	6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)			
631.	15.50	515.	215.	87.	87.
		(INCHES)	3.907	3.919	3.919
		(AC-FT)	255.	427.	428.

CUMULATIVE AREA = 2.05 SQ MI

441 KK

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*   Node53
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443 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1       1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2      120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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444 HC

HYDROGRAPH COMBINATION

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ICOMP      3  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node53
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	0000	1	1.	*	1	1500	31	27873.	*	2	0600	61	4045.	*	2	2100	91	959.	*
1	0030	2	1.	*	1	1530	32	31308.	*	2	0630	62	3822.	*	2	2130	92	924.	*
1	0100	3	1.	*	1	1600	33	33971.	*	2	0700	63	3624.	*	2	2200	93	890.	*
1	0130	4	1.	*	1	1630	34	35482.	*	2	0730	64	3430.	*	2	2230	94	858.	*
1	0200	5	1.	*	1	1700	35	35271.	*	2	0800	65	3247.	*	2	2300	95	827.	*
1	0230	6	1.	*	1	1730	36	34019.	*	2	0830	66	3077.	*	2	2330	96	797.	*
1	0300	7	1.	*	1	1800	37	32021.	*	2	0900	67	2912.	*	3	0000	97	769.	*
1	0330	8	1.	*	1	1830	38	29401.	*	2	0930	68	2747.	*	3	0030	98	743.	*
1	0400	9	1.	*	1	1900	39	26532.	*	2	1000	69	2589.	*	3	0100	99	719.	*
1	0430	10	1.	*	1	1930	40	23499.	*	2	1030	70	2447.	*	3	0130	100	696.	*
1	0500	11	5.	*	1	2000	41	21025.	*	2	1100	71	2313.	*	3	0200	101	674.	*
1	0530	12	14.	*	1	2030	42	19231.	*	2	1130	72	2191.	*	3	0230	102	651.	*
1	0600	13	33.	*	1	2100	43	17690.	*	2	1200	73	2078.	*	3	0300	103	629.	*
1	0630	14	69.	*	1	2130	44	16206.	*	2	1230	74	1973.	*	3	0330	104	606.	*
1	0700	15	133.	*	1	2200	45	14736.	*	2	1300	75	1873.	*	3	0400	105	584.	*
1	0730	16	252.	*	1	2230	46	13413.	*	2	1330	76	1779.	*	3	0430	106	563.	*
1	0800	17	469.	*	1	2300	47	12237.	*	2	1400	77	1691.	*	3	0500	107	543.	*
1	0830	18	833.	*	1	2330	48	11233.	*	2	1430	78	1611.	*	3	0530	108	523.	*
1	0900	19	1389.	*	2	0000	49	10409.	*	2	1500	79	1536.	*	3	0600	109	504.	*
1	0930	20	2207.	*	2	0030	50	9698.	*	2	1530	80	1466.	*	3	0630	110	487.	*
1	1000	21	3415.	*	2	0100	51	9045.	*	2	1600	81	1398.	*	3	0700	111	472.	*
1	1030	22	5034.	*	2	0130	52	8345.	*	2	1630	82	1335.	*	3	0730	112	459.	*
1	1100	23	6979.	*	2	0200	53	7604.	*	2	1700	83	1280.	*	3	0800	113	447.	*
1	1130	24	9101.	*	2	0230	54	6938.	*	2	1730	84	1233.	*	3	0830	114	437.	*
1	1200	25	11219.	*	2	0300	55	6371.	*	2	1800	85	1189.	*	3	0900	115	428.	*
1	1230	26	13327.	*	2	0330	56	5835.	*	2	1830	86	1147.	*	3	0930	116	420.	*
1	1300	27	15560.	*	2	0400	57	5324.	*	2	1900	87	1106.	*	3	1000	117	412.	*
1	1330	28	17949.	*	2	0430	58	4895.	*	2	1930	88	1067.	*	3	1030	118	403.	*
1	1400	29	20869.	*	2	0500	59	4563.	*	2	2000	89	1030.	*	3	1100	119	395.	*
1	1430	30	24364.	*	2	0530	60	4291.	*	2	2030	90	995.	*	3	1130	120	387.	*

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PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)      6-HR      24-HR      72-HR      59.50-HR
+ 35482.      16.50      29557.    14019.    6151.     6151.
                      (INCHES)  1.257    2.385    2.595    2.595
                      (AC-FT)  14656.   27806.   30245.   30245.

CUMULATIVE AREA = 218.56 SQ MI

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445 KK

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447 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLST	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

448 RD MUSKINGUM-CUNGE CHANNEL ROUTING

L	10085.	CHANNEL LENGTH
S	.0029	SLOPE
N	.035	CHANNEL ROUGHNESS COEFFICIENT
CA	.00	CONTRIBUTING AREA
SHAPE	TRAP	CHANNEL SHAPE
WD	50.00	BOTTOM WIDTH OR DIAMETER
Z	2.00	SIDE SLOPE

COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	COMPUTATION TIME STEP		DX	PEAK	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
		M	DT (MIN)					
MAIN	.22	1.58	7.74	5042.50	35448.07	998.55	2.59	21.71

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.22	1.58	30.00	35301.05	1020.00	2.59
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .3025E+05 EXCESS= .0000E+00 OUTFLOW= .3024E+05 BASIN STORAGE= .2610E+02 PERCENT ERROR= .0

HYDROGRAPH AT STATION 9

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	0000	1	1.	*	1	1500	31	27095.	*	2	0600	61	4153.	*	2	2100	91	982.	*				
1	0030	2	1.	*	1	1530	32	30574.	*	2	0630	62	3922.	*	2	2130	92	947.	*				
1	0100	3	1.	*	1	1600	33	33425.	*	2	0700	63	3715.	*	2	2200	93	912.	*				
1	0130	4	1.	*	1	1630	34	35169.	*	2	0730	64	3521.	*	2	2230	94	879.	*				
1	0200	5	1.	*	1	1700	35	35301.	*	2	0800	65	3334.	*	2	2300	95	847.	*				
1	0230	6	1.	*	1	1730	36	34260.	*	2	0830	66	3160.	*	2	2330	96	816.	*				
1	0300	7	1.	*	1	1800	37	32423.	*	2	0900	67	2993.	*	3	0000	97	787.	*				
1	0330	8	1.	*	1	1830	38	29954.	*	2	0930	68	2830.	*	3	0030	98	760.	*				
1	0400	9	1.	*	1	1900	39	27162.	*	2	1000	69	2671.	*	3	0100	99	734.	*				
1	0430	10	1.	*	1	1930	40	24200.	*	2	1030	70	2522.	*	3	0130	100	711.	*				
1	0500	11	2.	*	1	2000	41	21618.	*	2	1100	71	2385.	*	3	0200	101	688.	*				
1	0530	12	7.	*	1	2030	42	19676.	*	2	1130	72	2258.	*	3	0230	102	666.	*				
1	0600	13	18.	*	1	2100	43	18085.	*	2	1200	73	2142.	*	3	0300	103	644.	*				
1	0630	14	42.	*	1	2130	44	16598.	*	2	1230	74	2033.	*	3	0330	104	621.	*				
1	0700	15	86.	*	1	2200	45	15139.	*	2	1300	75	1931.	*	3	0400	105	599.	*				
1	0730	16	169.	*	1	2230	46	13789.	*	2	1330	76	1835.	*	3	0430	106	577.	*				
1	0800	17	322.	*	1	2300	47	12582.	*	2	1400	77	1744.	*	3	0500	107	556.	*				
1	0830	18	594.	*	1	2330	48	11537.	*	2	1430	78	1660.	*	3	0530	108	536.	*				
1	0900	19	1035.	*	2	0000	49	10665.	*	2	1500	79	1583.	*	3	0600	109	517.	*				
1	0930	20	1712.	*	2	0030	50	9925.	*	2	1530	80	1510.	*	3	0630	110	498.	*				
1	1000	21	2799.	*	2	0100	51	9259.	*	2	1600	81	1441.	*	3	0700	111	482.	*				
1	1030	22	4331.	*	2	0130	52	8580.	*	2	1630	82	1375.	*	3	0730	112	468.	*				
1	1100	23	6241.	*	2	0200	53	7862.	*	2	1700	83	1315.	*	3	0800	113	455.	*				
1	1130	24	8378.	*	2	0230	54	7178.	*	2	1730	84	1263.	*	3	0830	114	444.	*				
1	1200	25	10557.	*	2	0300	55	6581.	*	2	1800	85	1217.	*	3	0900	115	434.	*				
1	1230	26	12712.	*	2	0330	56	6040.	*	2	1830	86	1174.	*	3	0930	116	426.	*				
1	1300	27	14947.	*	2	0400	57	5526.	*	2	1900	87	1132.	*	3	1000	117	417.	*				
1	1330	28	17332.	*	2	0430	58	5070.	*	2	1930	88	1092.	*	3	1030	118	409.	*				
1	1400	29	20157.	*	2	0500	59	4703.	*	2	2000	89	1054.	*	3	1100	119	401.	*				
1	1430	30	23551.	*	2	0530	60	4408.	*	2	2030	90	1018.	*	3	1130	120	393.	*				

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	59.50-HR
35301.	17.00	29500.	14020.	6149.	6149.
		(INCHES)	1.255	2.386	2.594
		(AC-FT)	14628.	27808.	30239.

CUMULATIVE AREA = 218.56 SQ MI

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*   Node13   *
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451 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLST	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

455 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	15	TIME INTERVAL IN MINUTES
JXDATE	1	STARTING DATE
JXTIME	0	STARTING TIME

UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

452 BA SUBBASIN CHARACTERISTICS

TAREA	6.71	SUBBASIN AREA
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PRECIPITATION DATA

454 PB STORM 5.78 BASIN TOTAL PRECIPITATION

456 PI INCREMENTAL PRECIPITATION PATTERN

.03	.04	.03	.04	.05	.06	.06	.06	.07	.09
.08	.09	.10	.12	.12	.14	.17	.19	.23	.25
.17	.23	.22	.20	.30	.33	.39	.27	.31	.30
.27	.22	.05	.03	.06	.05	.05	.03	.04	.03
.03	.03	.03	.03	.03	.02	.02	.02		

466 LS SCS LOSS RATE

STRTL	.42	INITIAL ABSTRACTION
CRVNB	82.60	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

467 UI INPUT UNITGRAPH, 24 ORDINATES, VOLUME = 1.00

427.0	801.0	1851.0	2314.0	813.0	610.0	445.0	350.0	255.0	211.0
157.0	114.0	84.0	56.0	18.0	18.0	18.0	18.0	18.0	18.0
18.0	18.0	18.0	3.4						

HYDROGRAPH AT STATION Node13

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	2		0600	61	.00	.00	.00	8.
1		0030	2	.03	.03	.00	0.	*	2		0630	62	.00	.00	.00	6.
1		0100	3	.04	.04	.00	0.	*	2		0700	63	.00	.00	.00	4.
1		0130	4	.03	.03	.00	0.	*	2		0730	64	.00	.00	.00	4.
1		0200	5	.04	.04	.00	0.	*	2		0800	65	.00	.00	.00	3.
1		0230	6	.05	.05	.00	0.	*	2		0830	66	.00	.00	.00	3.
1		0300	7	.06	.06	.00	0.	*	2		0900	67	.00	.00	.00	2.
1		0330	8	.06	.06	.00	0.	*	2		0930	68	.00	.00	.00	2.
1		0400	9	.06	.06	.00	0.	*	2		1000	69	.00	.00	.00	1.
1		0430	10	.07	.07	.00	0.	*	2		1030	70	.00	.00	.00	1.
1		0500	11	.09	.08	.01	2.	*	2		1100	71	.00	.00	.00	0.
1		0530	12	.07	.07	.01	9.	*	2		1130	72	.00	.00	.00	0.
1		0600	13	.09	.07	.02	25.	*	2		1200	73	.00	.00	.00	0.
1		0630	14	.10	.08	.03	54.	*	2		1230	74	.00	.00	.00	0.
1		0700	15	.12	.08	.04	94.	*	2		1300	75	.00	.00	.00	0.
1		0730	16	.12	.08	.05	147.	*	2		1330	76	.00	.00	.00	0.
1		0800	17	.14	.08	.06	213.	*	2		1400	77	.00	.00	.00	0.
1		0830	18	.17	.09	.09	292.	*	2		1430	78	.00	.00	.00	0.
1		0900	19	.19	.09	.10	391.	*	2		1500	79	.00	.00	.00	0.
1		0930	20	.23	.09	.14	524.	*	2		1530	80	.00	.00	.00	0.
1		1000	21	.25	.09	.16	680.	*	2		1600	81	.00	.00	.00	0.
1		1030	22	.17	.05	.12	827.	*	2		1630	82	.00	.00	.00	0.

42.oh1

1	1100	23	.23	.06	.17	982.	*	2	1700	83	.00	.00	.00	0.
1	1130	24	.22	.05	.17	1062.	*	2	1730	84	.00	.00	.00	0.
1	1200	25	.20	.05	.16	1114.	*	2	1800	85	.00	.00	.00	0.
1	1230	26	.29	.06	.24	1262.	*	2	1830	86	.00	.00	.00	0.
1	1300	27	.33	.06	.27	1369.	*	2	1900	87	.00	.00	.00	0.
1	1330	28	.39	.06	.33	1586.	*	2	1930	88	.00	.00	.00	0.
1	1400	29	.27	.04	.23	1860.	*	2	2000	89	.00	.00	.00	0.
1	1430	30	.31	.04	.27	2071.	*	2	2030	90	.00	.00	.00	0.
1	1500	31	.29	.03	.26	2138.	*	2	2100	91	.00	.00	.00	0.
1	1530	32	.27	.03	.24	2072.	*	2	2130	92	.00	.00	.00	0.
1	1600	33	.22	.02	.20	2119.	*	2	2200	93	.00	.00	.00	0.
1	1630	34	.05	.00	.04	2000.	*	2	2230	94	.00	.00	.00	0.
1	1700	35	.03	.00	.03	1768.	*	2	2300	95	.00	.00	.00	0.
1	1730	36	.06	.01	.05	1376.	*	2	2330	96	.00	.00	.00	0.
1	1800	37	.05	.00	.05	974.	*	3	0000	97	.00	.00	.00	0.
1	1830	38	.05	.00	.04	827.	*	3	0030	98	.00	.00	.00	0.
1	1900	39	.03	.00	.03	733.	*	3	0100	99	.00	.00	.00	0.
1	1930	40	.04	.00	.04	627.	*	3	0130	100	.00	.00	.00	0.
1	2000	41	.03	.00	.03	525.	*	3	0200	101	.00	.00	.00	0.
1	2030	42	.03	.00	.03	449.	*	3	0230	102	.00	.00	.00	0.
1	2100	43	.03	.00	.03	403.	*	3	0300	103	.00	.00	.00	0.
1	2130	44	.03	.00	.03	353.	*	3	0330	104	.00	.00	.00	0.
1	2200	45	.03	.00	.03	325.	*	3	0400	105	.00	.00	.00	0.
1	2230	46	.03	.00	.03	297.	*	3	0430	106	.00	.00	.00	0.
1	2300	47	.02	.00	.02	281.	*	3	0500	107	.00	.00	.00	0.
1	2330	48	.02	.00	.02	270.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.02	.00	.02	255.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	228.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	199.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	151.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	93.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	69.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	50.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	36.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	26.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	20.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	15.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	11.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 5.78, TOTAL LOSS = 1.93, TOTAL EXCESS = 3.85

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
+	2138.	15.00	1722.	692.	280.	280.
		(INCHES)	2.386	3.838	3.843	3.843
		(AC-FT)	854.	1374.	1375.	1375.

CUMULATIVE AREA = 6.71 SQ MI

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471 KK *****
* Node74 *

473 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

474 HC HYDROGRAPH COMBINATION
ICOMB 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node74
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	1.	*	1	1500	31	29233.	*	2	0600	61	4161.	*
				*					*					*
				*					*					*
				*					*					*
				*					*					*
				*					*					*
				*					*					*
				*					*					*
				*					*					*
				*					*					*

42.ohl

1	0030	2	1.	*	1	1530	32	32647.	*	2	0630	62	3928.	*	2	2130	92	947.
1	0100	3	1.	*	1	1600	33	35544.	*	2	0700	63	3719.	*	2	2200	93	912.
1	0130	4	1.	*	1	1630	34	37169.	*	2	0730	64	3525.	*	2	2230	94	879.
1	0200	5	1.	*	1	1700	35	37069.	*	2	0800	65	3338.	*	2	2300	95	847.
1	0230	6	1.	*	1	1730	36	35636.	*	2	0830	66	3162.	*	2	2330	96	816.
1	0300	7	1.	*	1	1800	37	33396.	*	2	0900	67	2996.	*	3	0000	97	787.
1	0330	8	1.	*	1	1830	38	30781.	*	2	0930	68	2832.	*	3	0030	98	760.
1	0400	9	1.	*	1	1900	39	27895.	*	2	1000	69	2672.	*	3	0100	99	734.
1	0430	10	1.	*	1	1930	40	24827.	*	2	1030	70	2523.	*	3	0130	100	711.
1	0500	11	4.	*	1	2000	41	22143.	*	2	1100	71	2385.	*	3	0200	101	688.
1	0530	12	15.	*	1	2030	42	20125.	*	2	1130	72	2258.	*	3	0230	102	666.
1	0600	13	43.	*	1	2100	43	18487.	*	2	1200	73	2142.	*	3	0300	103	644.
1	0630	14	96.	*	1	2130	44	16950.	*	2	1230	74	2033.	*	3	0330	104	621.
1	0700	15	180.	*	1	2200	45	15464.	*	2	1300	75	1931.	*	3	0400	105	599.
1	0730	16	316.	*	1	2230	46	14086.	*	2	1330	76	1835.	*	3	0430	106	577.
1	0800	17	535.	*	1	2300	47	12863.	*	2	1400	77	1744.	*	3	0500	107	556.
1	0830	18	887.	*	1	2330	48	11807.	*	2	1430	78	1660.	*	3	0530	108	536.
1	0900	19	1426.	*	2	0000	49	10920.	*	2	1500	79	1583.	*	3	0600	109	517.
1	0930	20	2236.	*	2	0030	50	10153.	*	2	1530	80	1510.	*	3	0630	110	498.
1	1000	21	3479.	*	2	0100	51	9458.	*	2	1600	81	1441.	*	3	0700	111	482.
1	1030	22	5158.	*	2	0130	52	8731.	*	2	1630	82	1375.	*	3	0730	112	468.
1	1100	23	7223.	*	2	0200	53	7955.	*	2	1700	83	1315.	*	3	0800	113	455.
1	1130	24	9440.	*	2	0230	54	7246.	*	2	1730	84	1263.	*	3	0830	114	444.
1	1200	25	11671.	*	2	0300	55	6631.	*	2	1800	85	1217.	*	3	0900	115	434.
1	1230	26	13973.	*	2	0330	56	6076.	*	2	1830	86	1174.	*	3	0930	116	426.
1	1300	27	16316.	*	2	0400	57	5552.	*	2	1900	87	1132.	*	3	1000	117	417.
1	1330	28	18918.	*	2	0430	58	5091.	*	2	1930	88	1092.	*	3	1030	118	409.
1	1400	29	22017.	*	2	0500	59	4717.	*	2	2000	89	1054.	*	3	1100	119	401.
1	1430	30	25622.	*	2	0530	60	4418.	*	2	2030	90	1018.	*	3	1130	120	393.

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
37169.	16.50	30992.	14672.	6429.	6429.	
		(INCHES)	1.279	2.422	2.631	2.631
		(AC-FT)	15368.	29101.	31614.	31614.

CUMULATIVE AREA = 225.27 SQ MI

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475 KK

 * Node22 *

477 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLST	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

481 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	15	TIME INTERVAL IN MINUTES
JXDATE	1	STARTING DATE
JXTIME	0	STARTING TIME

UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

478 BA SUBBASIN CHARACTERISTICS

TAREA	38.15	SUBBASIN AREA
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PRECIPITATION DATA

480 PB STORM 8.08 BASIN TOTAL PRECIPITATION

482 PI INCREMENTAL PRECIPITATION PATTERN

.04	.06	.05	.06	.06	.08	.08	.09	.10	.12
.10	.13	.15	.16	.17	.20	.24	.27	.32	.35
.24	.32	.31	.28	.41	.46	.55	.37	.43	.41
.38	.31	.06	.05	.08	.07	.06	.04	.06	.04
.05	.04	.04	.04	.04	.03	.03	.03		

492 LS SCS LOSS RATE

STRTL	.66	INITIAL ABSTRACTION
CRVNBR	75.20	CURVE NUMBER

RTIMP .00 PERCENT IMPERVIOUS AREA

493 UI

INPUT UNITGRAPH, 103 ORDINATES,

VOLUME = 1.00

1440.0	1908.0	2832.0	4066.0	5346.0	3903.0	2933.0	2447.0	1865.0	1414.0
1251.0	1227.0	1028.0	952.0	888.0	782.0	782.0	699.0	625.0	571.0
558.0	521.0	496.0	447.0	443.0	417.0	417.0	356.0	338.0	338.0
287.0	278.0	278.0	268.0	245.0	245.0	245.0	237.0	219.0	219.0
219.0	219.0	197.0	192.0	192.0	192.0	192.0	172.0	162.0	162.0
162.0	162.0	162.0	138.0	124.0	124.0	124.0	124.0	124.0	124.0
124.0	101.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
90.0	90.0	47.3	32.7	32.7	32.7	32.7	32.7	32.7	32.7
32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
32.7	32.7	10.5							

HYDROGRAPH AT STATION Node22

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	2		0600	61	.00	.00	.00	1545.
1		0030	2	.04	.04	.00	0.	2		0630	62	.00	.00	.00	1475.
1		0100	3	.06	.06	.00	0.	2		0700	63	.00	.00	.00	1409.
1		0130	4	.05	.05	.00	0.	2		0730	64	.00	.00	.00	1355.
1		0200	5	.06	.06	.00	0.	2		0800	65	.00	.00	.00	1304.
1		0230	6	.06	.06	.00	0.	2		0830	66	.00	.00	.00	1254.
1		0300	7	.08	.08	.00	0.	2		0900	67	.00	.00	.00	1210.
1		0330	8	.08	.08	.00	0.	2		0930	68	.00	.00	.00	1170.
1		0400	9	.09	.09	.00	0.	2		1000	69	.00	.00	.00	1132.
1		0430	10	.11	.11	.00	0.	2		1030	70	.00	.00	.00	1091.
1		0500	11	.12	.12	.00	3.	2		1100	71	.00	.00	.00	1055.
1		0530	12	.11	.10	.01	15.	2		1130	72	.00	.00	.00	1024.
1		0600	13	.13	.11	.02	46.	2		1200	73	.00	.00	.00	991.
1		0630	14	.15	.12	.03	106.	2		1230	74	.00	.00	.00	955.
1		0700	15	.16	.12	.04	209.	2		1300	75	.00	.00	.00	919.
1		0730	16	.17	.12	.05	364.	2		1330	76	.00	.00	.00	890.
1		0800	17	.20	.13	.08	586.	2		1400	77	.00	.00	.00	863.
1		0830	18	.24	.14	.11	882.	2		1430	78	.00	.00	.00	836.
1		0900	19	.27	.13	.13	1253.	2		1500	79	.00	.00	.00	806.
1		0930	20	.32	.14	.18	1730.	2		1530	80	.00	.00	.00	776.
1		1000	21	.35	.14	.21	2324.	2		1600	81	.00	.00	.00	748.
1		1030	22	.24	.08	.16	2904.	2		1630	82	.00	.00	.00	723.
1		1100	23	.32	.10	.22	3586.	2		1700	83	.00	.00	.00	699.
1		1130	24	.31	.09	.22	4250.	2		1730	84	.00	.00	.00	674.
1		1200	25	.28	.07	.21	4810.	2		1800	85	.00	.00	.00	649.
1		1230	26	.41	.10	.32	5385.	2		1830	86	.00	.00	.00	626.
1		1300	27	.46	.09	.37	6136.	2		1900	87	.00	.00	.00	606.
1		1330	28	.55	.10	.45	7013.	2		1930	88	.00	.00	.00	587.
1		1400	29	.37	.06	.31	7806.	2		2000	89	.00	.00	.00	564.
1		1430	30	.43	.06	.37	8871.	2		2030	90	.00	.00	.00	542.
1		1500	31	.41	.05	.36	9816.	2		2100	91	.00	.00	.00	519.
1		1530	32	.38	.05	.33	10503.	2		2130	92	.00	.00	.00	494.
1		1600	33	.31	.03	.27	10729.	2		2200	93	.00	.00	.00	468.
1		1630	34	.06	.01	.06	10684.	2		2230	94	.00	.00	.00	446.
1		1700	35	.05	.01	.04	10342.	2		2300	95	.00	.00	.00	427.
1		1730	36	.08	.01	.07	9655.	2		2330	96	.00	.00	.00	411.
1		1800	37	.07	.01	.06	8656.	3		0000	97	.00	.00	.00	395.
1		1830	38	.06	.01	.06	7470.	3		0030	98	.00	.00	.00	374.
1		1900	39	.04	.00	.04	6623.	3		0100	99	.00	.00	.00	351.
1		1930	40	.06	.01	.05	6045.	3		0130	100	.00	.00	.00	324.
1		2000	41	.04	.00	.04	5540.	3		0200	101	.00	.00	.00	301.
1		2030	42	.05	.00	.04	5144.	3		0230	102	.00	.00	.00	278.
1		2100	43	.04	.00	.04	4822.	3		0300	103	.00	.00	.00	256.
1		2130	44	.04	.00	.04	4572.	3		0330	104	.00	.00	.00	235.
1		2200	45	.04	.00	.04	4297.	3		0400	105	.00	.00	.00	217.
1		2230	46	.04	.00	.04	4087.	3		0430	106	.00	.00	.00	210.
1		2300	47	.03	.00	.03	3890.	3		0500	107	.00	.00	.00	206.
1		2330	48	.03	.00	.03	3710.	3		0530	108	.00	.00	.00	201.
2		0000	49	.03	.00	.03	3548.	3		0600	109	.00	.00	.00	196.
2		0030	50	.00	.00	.00	3342.	3		0630	110	.00	.00	.00	192.
2		0100	51	.00	.00	.00	3132.	3		0700	111	.00	.00	.00	189.
2		0130	52	.00	.00	.00	2934.	3		0730	112	.00	.00	.00	187.
2		0200	53	.00	.00	.00	2711.	3		0800	113	.00	.00	.00	184.
2		0230	54	.00	.00	.00	2456.	3		0830	114	.00	.00	.00	182.
2		0300	55	.00	.00	.00	2249.	3		0900	115	.00	.00	.00	179.
2		0330	56	.00	.00	.00	2089.	3		0930	116	.00	.00	.00	176.
2		0400	57	.00	.00	.00	1948.	3		1000	117	.00	.00	.00	173.
2		0430	58	.00	.00	.00	1822.	3		1030	118	.00	.00	.00	169.
2		0500	59	.00	.00	.00	1721.	3		1100	119	.00	.00	.00	165.
2		0530	60	.00	.00	.00	1627.	3		1130	120	.00	.00	.00	160.

TOTAL RAINFALL = 8.08, TOTAL LOSS = 2.94, TOTAL EXCESS = 5.14

PEAK FLOW	TIME	6-HR	24-HR	72-HR	59.50-HR

42.oh1

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+   (CFS)      (HR)
+   10729.    16.00      (CFS)      8994.    4595.    2110.    2110.
                                (INCHES)  2.192    4.479    5.100    5.100
                                (AC-FT)   4460.    9114.   10376.   10376.

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CUMULATIVE AREA = 38.15 SQ MI

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*****
*
505 KK  *   Node24  *
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507 KO      OUTPUT CONTROL VARIABLES
            IPRNT      0  PRINT CONTROL
            IPLOT      0  PLOT CONTROL
            QSCAL      0.  HYDROGRAPH PLOT SCALE
            IPNCH      0  PUNCH COMPUTED HYDROGRAPH
            IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
            TIMINT     .500 TIME INTERVAL IN HOURS

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SANTA MARGARITA STORMS

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511 IN      TIME DATA FOR INPUT TIME SERIES
            JXMIN      15  TIME INTERVAL IN MINUTES
            JXDATE     1   0  STARTING DATE
            JXTIME      0  STARTING TIME
            UHG FROM MOUNTAIN S-GRAPH

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SUBBASIN RUNOFF DATA

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508 BA      SUBBASIN CHARACTERISTICS
            TAREA     19.81  SUBBASIN AREA

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PRECIPITATION DATA

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510 PB      STORM      6.68  BASIN TOTAL PRECIPITATION

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512 PI      INCREMENTAL PRECIPITATION PATTERN
            .03      .05      .04      .05      .05      .07      .07      .07      .09      .10
            .09      .11      .12      .13      .14      .17      .20      .22      .26      .29
            .20      .27      .25      .23      .34      .38      .45      .31      .35      .34
            .31      .25      .05      .04      .07      .06      .05      .03      .05      .03
            .04      .03      .03      .03      .03      .03      .03      .03      .03      .03

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522 LS      SCS LOSS RATE
            STRTL      .71  INITIAL ABSTRACTION
            CRVNR      73.90 CURVE NUMBER
            RTIMP      .00  PERCENT IMPERVIOUS AREA

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523 UI      INPUT UNITGRAPH, 61 ORDINATES, VOLUME = 1.00
            1418.0    2549.0    4368.0    3069.0    2046.0    1313.0    1102.0    889.0    776.0    691.0
            589.0    512.0    469.0    415.0    385.0    368.0    299.0    283.0    246.0    239.0
            217.0    217.0    197.0    194.0    189.0    170.0    170.0    164.0    144.0    144.0
            144.0    121.0    110.0    110.0    110.0    109.0    80.0    80.0    80.0    80.0
            79.6     79.6     50.2     29.0     29.0     29.0     29.0     29.0     29.0     29.0
            29.0     29.0     29.0     29.0     29.0     29.0     29.0     29.0     29.0     29.0
            2.1

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HYDROGRAPH AT STATION Node24

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1		.00	.00	.00	0.	*	2	0600	61		.00	.00	.00	470.
1	0030	2		.03	.03	.00	0.	*	2	0630	62		.00	.00	.00	438.
1	0100	3		.05	.05	.00	0.	*	2	0700	63		.00	.00	.00	406.
1	0130	4		.04	.04	.00	0.	*	2	0730	64		.00	.00	.00	375.
1	0200	5		.05	.05	.00	0.	*	2	0800	65		.00	.00	.00	351.
1	0230	6		.05	.05	.00	0.	*	2	0830	66		.00	.00	.00	329.
1	0300	7		.07	.07	.00	0.	*	2	0900	67		.00	.00	.00	307.
1	0330	8		.07	.07	.00	0.	*	2	0930	68		.00	.00	.00	284.
1	0400	9		.07	.07	.00	0.	*	2	1000	69		.00	.00	.00	261.
1	0430	10		.09	.09	.00	0.	*	2	1030	70		.00	.00	.00	240.
1	0500	11		.10	.10	.00	0.	*	2	1100	71		.00	.00	.00	222.
1	0530	12		.09	.09	.00	0.	*	2	1130	72		.00	.00	.00	204.
1	0600	13		.11	.10	.00	4.	*	2	1200	73		.00	.00	.00	186.

42.oh1

1	0630	14	.12	.11	.01	21.	*	2	1230	74	.00	.00	.00	169.
1	0700	15	.13	.11	.02	65.	*	2	1300	75	.00	.00	.00	154.
1	0730	16	.14	.11	.03	143.	*	2	1330	76	.00	.00	.00	145.
1	0800	17	.17	.12	.04	256.	*	2	1400	77	.00	.00	.00	139.
1	0830	18	.20	.14	.06	411.	*	2	1430	78	.00	.00	.00	133.
1	0900	19	.22	.14	.09	619.	*	2	1500	79	.00	.00	.00	126.
1	0930	20	.26	.14	.12	895.	*	2	1530	80	.00	.00	.00	119.
1	1000	21	.29	.14	.14	1231.	*	2	1600	81	.00	.00	.00	112.
1	1030	22	.20	.09	.11	1542.	*	2	1630	82	.00	.00	.00	106.
1	1100	23	.27	.11	.16	1849.	*	2	1700	83	.00	.00	.00	99.
1	1130	24	.25	.10	.16	2054.	*	2	1730	84	.00	.00	.00	92.
1	1200	25	.23	.08	.15	2318.	*	2	1800	85	.00	.00	.00	86.
1	1230	26	.34	.11	.23	2629.	*	2	1830	86	.00	.00	.00	78.
1	1300	27	.38	.11	.27	3033.	*	2	1900	87	.00	.00	.00	68.
1	1330	28	.45	.11	.34	3687.	*	2	1930	88	.00	.00	.00	57.
1	1400	29	.31	.07	.24	4232.	*	2	2000	89	.00	.00	.00	49.
1	1430	30	.35	.07	.28	4697.	*	2	2030	90	.00	.00	.00	40.
1	1500	31	.34	.06	.28	4821.	*	2	2100	91	.00	.00	.00	30.
1	1530	32	.31	.05	.26	5003.	*	2	2130	92	.00	.00	.00	22.
1	1600	33	.25	.04	.21	5059.	*	2	2200	93	.00	.00	.00	16.
1	1630	34	.05	.01	.05	4792.	*	2	2230	94	.00	.00	.00	15.
1	1700	35	.04	.01	.03	4222.	*	2	2300	95	.00	.00	.00	14.
1	1730	36	.07	.01	.06	3436.	*	2	2330	96	.00	.00	.00	12.
1	1800	37	.06	.01	.05	2907.	*	3	0000	97	.00	.00	.00	10.
1	1830	38	.05	.01	.05	2621.	*	3	0030	98	.00	.00	.00	9.
1	1900	39	.03	.00	.03	2405.	*	3	0100	99	.00	.00	.00	8.
1	1930	40	.05	.01	.04	2213.	*	3	0130	100	.00	.00	.00	7.
1	2000	41	.03	.00	.03	2017.	*	3	0200	101	.00	.00	.00	6.
1	2030	42	.04	.01	.03	1888.	*	3	0230	102	.00	.00	.00	5.
1	2100	43	.03	.00	.03	1753.	*	3	0300	103	.00	.00	.00	4.
1	2130	44	.03	.00	.03	1653.	*	3	0330	104	.00	.00	.00	4.
1	2200	45	.03	.00	.03	1560.	*	3	0400	105	.00	.00	.00	3.
1	2230	46	.03	.00	.03	1481.	*	3	0430	106	.00	.00	.00	2.
1	2300	47	.03	.00	.02	1409.	*	3	0500	107	.00	.00	.00	1.
1	2330	48	.03	.00	.02	1338.	*	3	0530	108	.00	.00	.00	1.
2	0000	49	.03	.00	.02	1264.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	1178.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	1077.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	943.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	842.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	769.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	712.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	661.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	618.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	576.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	537.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	501.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 6.68, TOTAL LOSS = 2.93, TOTAL EXCESS = 3.75

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)				
+	5059.	16.00	4043.	1905.	806.	806.
		(INCHES)	1.897	3.577	3.753	3.753
		(AC-FT)	2005.	3779.	3965.	3965.

CUMULATIVE AREA = 19.81 SQ MI

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531 KK

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*      *
* Node52 *
*      *
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533 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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534 HC

HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node52
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		0000	1	0.	*	1		1500	31	14637.	*	2		0600	61	2014.	*	2		2100	91	549.
1		0030	2	0.	*	1		1530	32	15507.	*	2		0630	62	1912.	*	2		2130	92	517.
1		0100	3	0.	*	1		1600	33	15788.	*	2		0700	63	1815.	*	2		2200	93	484.
1		0130	4	0.	*	1		1630	34	15476.	*	2		0730	64	1730.	*	2		2230	94	460.
1		0200	5	0.	*	1		1700	35	14563.	*	2		0800	65	1655.	*	2		2300	95	441.
1		0230	6	0.	*	1		1730	36	13091.	*	2		0830	66	1582.	*	2		2330	96	423.
1		0300	7	0.	*	1		1800	37	11563.	*	2		0900	67	1517.	*	3		0000	97	405.
1		0330	8	0.	*	1		1830	38	10091.	*	2		0930	68	1454.	*	3		0030	98	384.
1		0400	9	0.	*	1		1900	39	9028.	*	2		1000	69	1392.	*	3		0100	99	359.
1		0430	10	0.	*	1		1930	40	8258.	*	2		1030	70	1331.	*	3		0130	100	331.
1		0500	11	3.	*	1		2000	41	7557.	*	2		1100	71	1277.	*	3		0200	101	307.
1		0530	12	15.	*	1		2030	42	7031.	*	2		1130	72	1228.	*	3		0230	102	284.
1		0600	13	50.	*	1		2100	43	6575.	*	2		1200	73	1177.	*	3		0300	103	260.
1		0630	14	127.	*	1		2130	44	6225.	*	2		1230	74	1123.	*	3		0330	104	239.
1		0700	15	275.	*	1		2200	45	5857.	*	2		1300	75	1073.	*	3		0400	105	220.
1		0730	16	507.	*	1		2230	46	5568.	*	2		1330	76	1035.	*	3		0430	106	212.
1		0800	17	841.	*	1		2300	47	5299.	*	2		1400	77	1003.	*	3		0500	107	207.
1		0830	18	1293.	*	1		2330	48	5048.	*	2		1430	78	969.	*	3		0530	108	202.
1		0900	19	1872.	*	2		0000	49	4812.	*	2		1500	79	933.	*	3		0600	109	196.
1		0930	20	2625.	*	2		0030	50	4519.	*	2		1530	80	895.	*	3		0630	110	192.
1		1000	21	3555.	*	2		0100	51	4208.	*	2		1600	81	860.	*	3		0700	111	189.
1		1030	22	4447.	*	2		0130	52	3878.	*	2		1630	82	829.	*	3		0730	112	187.
1		1100	23	5435.	*	2		0200	53	3553.	*	2		1700	83	798.	*	3		0800	113	184.
1		1130	24	6304.	*	2		0230	54	3224.	*	2		1730	84	766.	*	3		0830	114	182.
1		1200	25	7128.	*	2		0300	55	2961.	*	2		1800	85	735.	*	3		0900	115	179.
1		1230	26	8013.	*	2		0330	56	2750.	*	2		1830	86	704.	*	3		0930	116	176.
1		1300	27	9170.	*	2		0400	57	2565.	*	2		1900	87	675.	*	3		1000	117	173.
1		1330	28	10701.	*	2		0430	58	2398.	*	2		1930	88	644.	*	3		1030	118	169.
1		1400	29	12038.	*	2		0500	59	2258.	*	2		2000	89	613.	*	3		1100	119	165.
1		1430	30	13568.	*	2		0530	60	2129.	*	2		2030	90	582.	*	3		1130	120	160.

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	
(CFS)	(HR)			24-HR	72-HR
15788.	16.00	(CFS)	13010.	6497.	2916.
		(INCHES)	2.087	4.169	4.639
		(AC-FT)	6451.	12886.	14341.

CUMULATIVE AREA = 57.96 SQ MI

*** **

535 KK

* *
* 7 *
* *

537 KO

OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

538 RD

MUSKINGUM-CUNGE CHANNEL ROUTING
L 35482. CHANNEL LENGTH
S .0205 SLOPE
N .050 CHANNEL ROUGHNESS COEFFICIENT
CA .00 CONTRIBUTING AREA
SHAPE TRAP CHANNEL SHAPE
WD 40.00 BOTTOM WIDTH OR DIAMETER
Z 3.00 SIDE SLOPE

COMPUTED MUSKINGUM-CUNGE PARAMETERS
COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT	DX	PEAK	TIME TO	VOLUME	MAXIMUM
			(MIN)	(FT)	(CFS)	PEAK	(IN)	CELERITY
						(MIN)		(FPS)

MAIN .52 1.54 25.87 17741.00 15785.68 983.24 4.63 22.86

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN .52 1.54 30.00 15691.48 990.00 4.63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1434E+05 EXCESS= .0000E+00 OUTFLOW= .1432E+05 BASIN STORAGE= .3544E+02 PERCENT ERROR= -.2

HYDROGRAPH AT STATION 7

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1		0000	1	0.	*	1		1500	31	13845.	*	2		0600	61	2176.	*	2		2100	91	608.	*
1		0030	2	0.	*	1		1530	32	14918.	*	2		0630	62	2059.	*	2		2130	92	576.	*
1		0100	3	0.	*	1		1600	33	15601.	*	2		0700	63	1954.	*	2		2200	93	544.	*
1		0130	4	0.	*	1		1630	34	15691.	*	2		0730	64	1857.	*	2		2230	94	512.	*
1		0200	5	0.	*	1		1700	35	15132.	*	2		0800	65	1768.	*	2		2300	95	482.	*
1		0230	6	0.	*	1		1730	36	14088.	*	2		0830	66	1690.	*	2		2330	96	458.	*
1		0300	7	0.	*	1		1800	37	12685.	*	2		0900	67	1619.	*	3		0000	97	439.	*
1		0330	8	0.	*	1		1830	38	11218.	*	2		0930	68	1551.	*	3		0030	98	421.	*
1		0400	9	0.	*	1		1900	39	9885.	*	2		1000	69	1488.	*	3		0100	99	402.	*
1		0430	10	0.	*	1		1930	40	8884.	*	2		1030	70	1427.	*	3		0130	100	381.	*
1		0500	11	0.	*	1		2000	41	8164.	*	2		1100	71	1367.	*	3		0200	101	356.	*
1		0530	12	0.	*	1		2030	42	7520.	*	2		1130	72	1310.	*	3		0230	102	330.	*
1		0600	13	3.	*	1		2100	43	6995.	*	2		1200	73	1260.	*	3		0300	103	306.	*
1		0630	14	15.	*	1		2130	44	6560.	*	2		1230	74	1211.	*	3		0330	104	283.	*
1		0700	15	52.	*	1		2200	45	6193.	*	2		1300	75	1160.	*	3		0400	105	260.	*
1		0730	16	141.	*	1		2230	46	5859.	*	2		1330	76	1109.	*	3		0430	106	239.	*
1		0800	17	313.	*	1		2300	47	5556.	*	2		1400	77	1063.	*	3		0500	107	223.	*
1		0830	18	583.	*	1		2330	48	5302.	*	2		1430	78	1026.	*	3		0530	108	213.	*
1		0900	19	965.	*	2		0000	49	5051.	*	2		1500	79	994.	*	3		0600	109	207.	*
1		0930	20	1573.	*	2		0030	50	4807.	*	2		1530	80	960.	*	3		0630	110	202.	*
1		1000	21	2390.	*	2		0100	51	4535.	*	2		1600	81	924.	*	3		0700	111	197.	*
1		1030	22	3388.	*	2		0130	52	4229.	*	2		1630	82	887.	*	3		0730	112	193.	*
1		1100	23	4417.	*	2		0200	53	3914.	*	2		1700	83	853.	*	3		0800	113	189.	*
1		1130	24	5421.	*	2		0230	54	3596.	*	2		1730	84	822.	*	3		0830	114	187.	*
1		1200	25	6360.	*	2		0300	55	3290.	*	2		1800	85	791.	*	3		0900	115	184.	*
1		1230	26	7231.	*	2		0330	56	3020.	*	2		1830	86	760.	*	3		0930	116	182.	*
1		1300	27	8200.	*	2		0400	57	2800.	*	2		1900	87	728.	*	3		1000	117	179.	*
1		1330	28	9470.	*	2		0430	58	2614.	*	2		1930	88	698.	*	3		1030	118	176.	*
1		1400	29	10991.	*	2		0500	59	2448.	*	2		2000	89	669.	*	3		1100	119	173.	*
1		1430	30	12448.	*	2		0530	60	2303.	*	2		2030	90	639.	*	3		1130	120	172.	*

PEAK FLOW TIME
 + (CFS) (HR)
 + 15691. 16.50
 (CFS)
 (INCHES) 2.081
 (AC-FT) 6433.

CUMULATIVE AREA = 57.96 SQ MI

539 KK

 * Node18 *

541 KO

OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
 ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
 TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

545 IN

TIME DATA FOR INPUT TIME SERIES

JXMIN 15 TIME INTERVAL IN MINUTES

JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

542 BA

SUBBASIN CHARACTERISTICS

TAREA 22.18 SUBBASIN AREA

PRECIPITATION DATA

544 PB

STORM 6.80 BASIN TOTAL PRECIPITATION

546 PI

INCREMENTAL PRECIPITATION PATTERN

.03	.05	.04	.05	.05	.07	.07	.08	.09	.10
.09	.11	.12	.14	.14	.17	.20	.22	.26	.29
.20	.27	.26	.24	.35	.39	.46	.31	.36	.35
.32	.26	.05	.04	.07	.06	.05	.03	.05	.03
.04	.03	.03	.03	.03	.03	.03	.03		

556 LS

SCS LOSS RATE

STRTL .62 INITIAL ABSTRACTION

CRVNBR 76.40 CURVE NUMBER

RTIMP .00 PERCENT IMPERVIOUS AREA

557 UI

INPUT UNITGRAPH, 47 ORDINATES, VOLUME = 1.00

580.0	838.0	1190.0	1487.0	2169.0	4021.0	5185.0	2413.0	1422.0	1261.0
1160.0	846.0	789.0	682.0	613.0	538.0	434.0	405.0	375.0	321.0
279.0	234.0	230.0	140.0	140.0	140.0	140.0	35.0	30.0	30.0
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
29.9	29.9	29.9	29.9	29.9	29.9	5.3			

HYDROGRAPH AT STATION Node18

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	2		0600	61	.00	.00	.00	274.
1		0030	2	.03	.03	.00	0.	*	2		0630	62	.00	.00	.00	251.
1		0100	3	.05	.05	.00	0.	*	2		0700	63	.00	.00	.00	227.
1		0130	4	.04	.04	.00	0.	*	2		0730	64	.00	.00	.00	205.
1		0200	5	.05	.05	.00	0.	*	2		0800	65	.00	.00	.00	185.
1		0230	6	.05	.05	.00	0.	*	2		0830	66	.00	.00	.00	170.
1		0300	7	.07	.07	.00	0.	*	2		0900	67	.00	.00	.00	153.
1		0330	8	.07	.07	.00	0.	*	2		0930	68	.00	.00	.00	140.
1		0400	9	.08	.08	.00	0.	*	2		1000	69	.00	.00	.00	126.
1		0430	10	.09	.09	.00	0.	*	2		1030	70	.00	.00	.00	114.
1		0500	11	.10	.10	.00	0.	*	2		1100	71	.00	.00	.00	103.
1		0530	12	.09	.09	.00	2.	*	2		1130	72	.00	.00	.00	90.
1		0600	13	.11	.10	.01	8.	*	2		1200	73	.00	.00	.00	78.
1		0630	14	.12	.10	.02	22.	*	2		1230	74	.00	.00	.00	65.
1		0700	15	.14	.11	.03	48.	*	2		1300	75	.00	.00	.00	54.
1		0730	16	.14	.10	.04	90.	*	2		1330	76	.00	.00	.00	43.
1		0800	17	.17	.11	.06	160.	*	2		1400	77	.00	.00	.00	34.
1		0830	18	.20	.12	.08	277.	*	2		1430	78	.00	.00	.00	25.
1		0900	19	.23	.12	.10	446.	*	2		1500	79	.00	.00	.00	18.
1		0930	20	.27	.13	.14	668.	*	2		1530	80	.00	.00	.00	16.
1		1000	21	.29	.13	.17	943.	*	2		1600	81	.00	.00	.00	15.
1		1030	22	.20	.08	.12	1240.	*	2		1630	82	.00	.00	.00	13.
1		1100	23	.27	.10	.18	1616.	*	2		1700	83	.00	.00	.00	12.
1		1130	24	.26	.08	.18	2027.	*	2		1730	84	.00	.00	.00	10.
1		1200	25	.24	.07	.17	2458.	*	2		1800	85	.00	.00	.00	9.
1		1230	26	.35	.09	.26	2929.	*	2		1830	86	.00	.00	.00	8.
1		1300	27	.39	.09	.30	3309.	*	2		1900	87	.00	.00	.00	7.
1		1330	28	.46	.10	.37	3681.	*	2		1930	88	.00	.00	.00	6.
1		1400	29	.31	.06	.25	4167.	*	2		2000	89	.00	.00	.00	5.
1		1430	30	.36	.06	.30	4613.	*	2		2030	90	.00	.00	.00	4.
1		1500	31	.35	.05	.29	5164.	*	2		2100	91	.00	.00	.00	3.
1		1530	32	.32	.05	.27	5906.	*	2		2130	92	.00	.00	.00	2.
1		1600	33	.26	.03	.22	6491.	*	2		2200	93	.00	.00	.00	2.
1		1630	34	.05	.01	.05	6633.	*	2		2230	94	.00	.00	.00	1.
1		1700	35	.04	.01	.03	6391.	*	2		2300	95	.00	.00	.00	0.
1		1730	36	.07	.01	.06	6327.	*	2		2330	96	.00	.00	.00	0.
1		1800	37	.06	.01	.05	6064.	*	3		0000	97	.00	.00	.00	0.
1		1830	38	.05	.01	.05	5526.	*	3		0030	98	.00	.00	.00	0.
1		1900	39	.03	.00	.03	4610.	*	3		0100	99	.00	.00	.00	0.
1		1930	40	.05	.01	.04	3649.	*	3		0130	100	.00	.00	.00	0.
1		2000	41	.03	.00	.03	3218.	*	3		0200	101	.00	.00	.00	0.
1		2030	42	.04	.00	.04	3007.	*	3		0230	102	.00	.00	.00	0.
1		2100	43	.03	.00	.03	2735.	*	3		0300	103	.00	.00	.00	0.
1		2130	44	.03	.00	.03	2445.	*	3		0330	104	.00	.00	.00	0.
1		2200	45	.03	.00	.03	2231.	*	3		0400	105	.00	.00	.00	0.
1		2230	46	.03	.00	.03	2069.	*	3		0430	106	.00	.00	.00	0.
1		2300	47	.03	.00	.02	1890.	*	3		0500	107	.00	.00	.00	0.
1		2330	48	.03	.00	.02	1747.	*	3		0530	108	.00	.00	.00	0.
2		0000	49	.03	.00	.02	1608.	*	3		0600	109	.00	.00	.00	0.
2		0030	50	.00	.00	.00	1483.	*	3		0630	110	.00	.00	.00	0.

2	0100	51	.00	.00	.00	1352.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	1225.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	1085.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	951.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	780.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	598.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	497.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	426.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	360.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	304.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 6.80, TOTAL LOSS = 2.68, TOTAL EXCESS = 4.12

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)	(CFS)			
+	6633.	16.50	5463.	2422.	991.	991.
			(INCHES)	2.290	4.062	4.120
			(AC-FT)	2709.	4805.	4874.

CUMULATIVE AREA = 22.18 SQ MI

*** **

563 KK

* Node20 *

565 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

569 IN

TIME DATA FOR INPUT TIME SERIES

JXMIN	15	TIME INTERVAL IN MINUTES
JXDATE	1	STARTING DATE
JXTIME	0	STARTING TIME

UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

566 BA

SUBBASIN CHARACTERISTICS

TAREA 18.04 SUBBASIN AREA

PRECIPITATION DATA

568 PB

STORM 6.13 BASIN TOTAL PRECIPITATION

570 PI

INCREMENTAL PRECIPITATION PATTERN

.03	.04	.04	.04	.05	.06	.06	.07	.08	.09
.08	.10	.11	.12	.13	.15	.18	.20	.24	.26
.18	.25	.23	.21	.31	.35	.42	.28	.32	.31
.29	.23	.05	.04	.06	.06	.05	.03	.04	.03
.04	.03	.03	.03	.03	.02	.02	.02		

580 LS

SCS LOSS RATE

STRTL	.68	INITIAL ABSTRACTION
CRVNBR	74.50	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

581 UI

INPUT UNITGRAPH, 77 ORDINATES, VOLUME = 1.00

935.0	1521.0	2468.0	3176.0	2164.0	1551.0	1122.0	813.0	775.0	639.0
581.0	506.0	496.0	399.0	368.0	345.0	325.0	283.0	275.0	265.0
229.0	214.0	194.0	176.0	176.0	158.0	156.0	156.0	141.0	139.0
139.0	130.0	122.0	122.0	122.0	108.0	103.0	103.0	103.0	97.0
78.6	78.6	78.6	78.6	78.6	71.8	57.1	57.1	57.1	57.1
57.1	57.1	57.1	51.1	20.8	20.8	20.8	20.8	20.8	20.8
20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
20.8	20.8	20.8	20.8	20.8	20.8	5.0			

HYDROGRAPH AT STATION Node20

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	2		0600	61	.00	.00	.00	447.
1		0030	2	.03	.03	.00	0.	*	2		0630	62	.00	.00	.00	426.
1		0100	3	.04	.04	.00	0.	*	2		0700	63	.00	.00	.00	405.
1		0130	4	.04	.04	.00	0.	*	2		0730	64	.00	.00	.00	386.
1		0200	5	.04	.04	.00	0.	*	2		0800	65	.00	.00	.00	368.
1		0230	6	.05	.05	.00	0.	*	2		0830	66	.00	.00	.00	351.
1		0300	7	.06	.06	.00	0.	*	2		0900	67	.00	.00	.00	333.
1		0330	8	.06	.06	.00	0.	*	2		0930	68	.00	.00	.00	315.
1		0400	9	.07	.07	.00	0.	*	2		1000	69	.00	.00	.00	301.
1		0430	10	.08	.08	.00	0.	*	2		1030	70	.00	.00	.00	288.
1		0500	11	.09	.09	.00	0.	*	2		1100	71	.00	.00	.00	274.
1		0530	12	.08	.08	.00	0.	*	2		1130	72	.00	.00	.00	259.
1		0600	13	.10	.10	.00	1.	*	2		1200	73	.00	.00	.00	245.
1		0630	14	.11	.10	.01	8.	*	2		1230	74	.00	.00	.00	232.
1		0700	15	.12	.11	.01	27.	*	2		1300	75	.00	.00	.00	220.
1		0730	16	.13	.11	.02	65.	*	2		1330	76	.00	.00	.00	209.
1		0800	17	.15	.12	.04	131.	*	2		1400	77	.00	.00	.00	196.
1		0830	18	.18	.13	.06	228.	*	2		1430	78	.00	.00	.00	184.
1		0900	19	.20	.13	.07	360.	*	2		1500	79	.00	.00	.00	174.
1		0930	20	.24	.14	.10	539.	*	2		1530	80	.00	.00	.00	164.
1		1000	21	.26	.14	.13	765.	*	2		1600	81	.00	.00	.00	153.
1		1030	22	.18	.09	.10	985.	*	2		1630	82	.00	.00	.00	140.
1		1100	23	.25	.11	.14	1232.	*	2		1700	83	.00	.00	.00	130.
1		1130	24	.23	.09	.14	1441.	*	2		1730	84	.00	.00	.00	119.
1		1200	25	.21	.08	.14	1606.	*	2		1800	85	.00	.00	.00	109.
1		1230	26	.31	.10	.21	1859.	*	2		1830	86	.00	.00	.00	99.
1		1300	27	.35	.11	.25	2137.	*	2		1900	87	.00	.00	.00	92.
1		1330	28	.42	.11	.31	2529.	*	2		1930	88	.00	.00	.00	89.
1		1400	29	.28	.07	.21	2945.	*	2		2000	89	.00	.00	.00	87.
1		1430	30	.33	.07	.25	3336.	*	2		2030	90	.00	.00	.00	85.
1		1500	31	.31	.06	.25	3618.	*	2		2100	91	.00	.00	.00	82.
1		1530	32	.29	.05	.23	3733.	*	2		2130	92	.00	.00	.00	80.
1		1600	33	.23	.04	.19	3835.	*	2		2200	93	.00	.00	.00	78.
1		1630	34	.05	.01	.04	3723.	*	2		2230	94	.00	.00	.00	75.
1		1700	35	.04	.01	.03	3451.	*	2		2300	95	.00	.00	.00	72.
1		1730	36	.06	.01	.05	3032.	*	2		2330	96	.00	.00	.00	69.
1		1800	37	.06	.01	.05	2530.	*	3		0000	97	.00	.00	.00	66.
1		1830	38	.05	.01	.04	2221.	*	3		0030	98	.00	.00	.00	63.
1		1900	39	.03	.00	.03	2017.	*	3		0100	99	.00	.00	.00	59.
1		1930	40	.04	.01	.04	1863.	*	3		0130	100	.00	.00	.00	55.
1		2000	41	.03	.00	.03	1720.	*	3		0200	101	.00	.00	.00	52.
1		2030	42	.04	.01	.03	1593.	*	3		0230	102	.00	.00	.00	47.
1		2100	43	.03	.00	.03	1492.	*	3		0300	103	.00	.00	.00	42.
1		2130	44	.03	.00	.03	1398.	*	3		0330	104	.00	.00	.00	36.
1		2200	45	.03	.00	.03	1324.	*	3		0400	105	.00	.00	.00	31.
1		2230	46	.03	.00	.03	1252.	*	3		0430	106	.00	.00	.00	26.
1		2300	47	.02	.00	.02	1192.	*	3		0500	107	.00	.00	.00	20.
1		2330	48	.02	.00	.02	1138.	*	3		0530	108	.00	.00	.00	15.
2		0000	49	.02	.00	.02	1082.	*	3		0600	109	.00	.00	.00	11.
2		0030	50	.00	.00	.00	1010.	*	3		0630	110	.00	.00	.00	10.
2		0100	51	.00	.00	.00	935.	*	3		0700	111	.00	.00	.00	9.
2		0130	52	.00	.00	.00	849.	*	3		0730	112	.00	.00	.00	8.
2		0200	53	.00	.00	.00	751.	*	3		0800	113	.00	.00	.00	7.
2		0230	54	.00	.00	.00	682.	*	3		0830	114	.00	.00	.00	6.
2		0300	55	.00	.00	.00	628.	*	3		0900	115	.00	.00	.00	5.
2		0330	56	.00	.00	.00	586.	*	3		0930	116	.00	.00	.00	5.
2		0400	57	.00	.00	.00	554.	*	3		1000	117	.00	.00	.00	4.
2		0430	58	.00	.00	.00	523.	*	3		1030	118	.00	.00	.00	4.
2		0500	59	.00	.00	.00	496.	*	3		1100	119	.00	.00	.00	3.
2		0530	60	.00	.00	.00	471.	*	3		1130	120	.00	.00	.00	2.

TOTAL RAINFALL = 6.13, TOTAL LOSS = 2.79, TOTAL EXCESS = 3.34

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW
(CFS)	(HR)	6-HR 24-HR 72-HR 59.50-HR
3835.	16.00	3086. 1496. 654. 654.
		(INCHES) 1.590 3.084 3.342 3.342
		(AC-FT) 1530. 2967. 3215. 3215.

CUMULATIVE AREA = 18.04 SQ MI

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590 KK *****
* Node50 *

592 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

593 HC HYDROGRAPH COMBINATION

ICOMP	3	NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node50
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	0000	1	0.	*	1	1500	31	22626.	*	2	0600	61	2897.	*	2	2100	91	693.					
1	0030	2	0.	*	1	1530	32	24557.	*	2	0630	62	2735.	*	2	2130	92	658.					
1	0100	3	0.	*	1	1600	33	25927.	*	2	0700	63	2585.	*	2	2200	93	623.					
1	0130	4	0.	*	1	1630	34	26047.	*	2	0730	64	2448.	*	2	2230	94	588.					
1	0200	5	0.	*	1	1700	35	24974.	*	2	0800	65	2322.	*	2	2300	95	554.					
1	0230	6	0.	*	1	1730	36	23446.	*	2	0830	66	2211.	*	2	2330	96	528.					
1	0300	7	0.	*	1	1800	37	21279.	*	2	0900	67	2105.	*	3	0000	97	505.					
1	0330	8	0.	*	1	1830	38	18965.	*	2	0930	68	2007.	*	3	0030	98	483.					
1	0400	9	0.	*	1	1900	39	16511.	*	2	1000	69	1915.	*	3	0100	99	461.					
1	0430	10	0.	*	1	1930	40	14396.	*	2	1030	70	1829.	*	3	0130	100	436.					
1	0500	11	0.	*	1	2000	41	13102.	*	2	1100	71	1744.	*	3	0200	101	408.					
1	0530	12	2.	*	1	2030	42	12120.	*	2	1130	72	1659.	*	3	0230	102	377.					
1	0600	13	12.	*	1	2100	43	11222.	*	2	1200	73	1582.	*	3	0300	103	347.					
1	0630	14	45.	*	1	2130	44	10403.	*	2	1230	74	1508.	*	3	0330	104	318.					
1	0700	15	127.	*	1	2200	45	9747.	*	2	1300	75	1434.	*	3	0400	105	291.					
1	0730	16	295.	*	1	2230	46	9180.	*	2	1330	76	1360.	*	3	0430	106	265.					
1	0800	17	603.	*	1	2300	47	8639.	*	2	1400	77	1293.	*	3	0500	107	243.					
1	0830	18	1088.	*	1	2330	48	8187.	*	2	1430	78	1236.	*	3	0530	108	228.					
1	0900	19	1771.	*	2	0000	49	7741.	*	2	1500	79	1187.	*	3	0600	109	218.					
1	0930	20	2780.	*	2	0030	50	7300.	*	2	1530	80	1140.	*	3	0630	110	211.					
1	1000	21	4098.	*	2	0100	51	6822.	*	2	1600	81	1091.	*	3	0700	111	206.					
1	1030	22	5613.	*	2	0130	52	6303.	*	2	1630	82	1040.	*	3	0730	112	200.					
1	1100	23	7264.	*	2	0200	53	5749.	*	2	1700	83	994.	*	3	0800	113	196.					
1	1130	24	8889.	*	2	0230	54	5229.	*	2	1730	84	951.	*	3	0830	114	193.					
1	1200	25	10425.	*	2	0300	55	4698.	*	2	1800	85	909.	*	3	0900	115	190.					
1	1230	26	12019.	*	2	0330	56	4204.	*	2	1830	86	867.	*	3	0930	116	186.					
1	1300	27	13645.	*	2	0400	57	3852.	*	2	1900	87	827.	*	3	1000	117	183.					
1	1330	28	15681.	*	2	0430	58	3563.	*	2	1930	88	793.	*	3	1030	118	180.					
1	1400	29	18103.	*	2	0500	59	3304.	*	2	2000	89	761.	*	3	1100	119	176.					
1	1430	30	20397.	*	2	0530	60	3078.	*	2	2030	90	728.	*	3	1130	120	175.					

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)					
26047.	16.50	(CFS)	21489.	10400.	4558.	4558.
		(INCHES)	2.035	3.940	4.281	4.281
		(AC-FT)	10656.	20629.	22414.	22414.

CUMULATIVE AREA = 98.18 SQ MI

594 KK

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*   6       *
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596 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

597 RD

MUSKINGUM-CUNGE CHANNEL ROUTING
 L 41976. CHANNEL LENGTH
 S .0120 SLOPE
 N .050 CHANNEL ROUGHNESS COEFFICIENT
 CA .00 CONTRIBUTING AREA
 SHAPE TRAP CHANNEL SHAPE
 WD 60.00 BOTTOM WIDTH OR DIAMETER
 Z 3.00 SIDE SLOPE

 COMPUTED MUSKINGUM-CUNGE PARAMETERS

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	.29	1.57	30.00	20988.00	25991.15	1020.00	4.28	21.93

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.29	1.57	30.00		25991.15	1020.00	4.28	
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2242E+05 EXCESS= .0000E+00 OUTFLOW= .2241E+05 BASIN STORAGE= .5820E+02 PERCENT ERROR= -.2

HYDROGRAPH AT STATION 6

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	1500	31	20662.	*	2	0600	61	3246.	*	2	2100	91	768.	
1	0030	2	0.	*	1	1530	32	22857.	*	2	0630	62	3038.	*	2	2130	92	735.	
1	0100	3	0.	*	1	1600	33	24820.	*	2	0700	63	2870.	*	2	2200	93	701.	
1	0130	4	0.	*	1	1630	34	25986.	*	2	0730	64	2716.	*	2	2230	94	667.	
1	0200	5	0.	*	1	1700	35	25991.	*	2	0800	65	2572.	*	2	2300	95	633.	
1	0230	6	0.	*	1	1730	36	24780.	*	2	0830	66	2441.	*	2	2330	96	598.	
1	0300	7	0.	*	1	1800	37	23137.	*	2	0900	67	2320.	*	3	0000	97	564.	
1	0330	8	0.	*	1	1830	38	21110.	*	2	0930	68	2213.	*	3	0030	98	536.	
1	0400	9	0.	*	1	1900	39	18747.	*	2	1000	69	2108.	*	3	0100	99	512.	
1	0430	10	0.	*	1	1930	40	16529.	*	2	1030	70	2010.	*	3	0130	100	490.	
1	0500	11	0.	*	1	2000	41	14452.	*	2	1100	71	1919.	*	3	0200	101	469.	
1	0530	12	0.	*	1	2030	42	13104.	*	2	1130	72	1834.	*	3	0230	102	444.	
1	0600	13	0.	*	1	2100	43	12216.	*	2	1200	73	1749.	*	3	0300	103	418.	
1	0630	14	1.	*	1	2130	44	11322.	*	2	1230	74	1665.	*	3	0330	104	388.	
1	0700	15	5.	*	1	2200	45	10527.	*	2	1300	75	1589.	*	3	0400	105	359.	
1	0730	16	25.	*	1	2230	46	9842.	*	2	1330	76	1514.	*	3	0430	106	330.	
1	0800	17	86.	*	1	2300	47	9290.	*	2	1400	77	1442.	*	3	0500	107	303.	
1	0830	18	230.	*	1	2330	48	8764.	*	2	1430	78	1368.	*	3	0530	108	277.	
1	0900	19	522.	*	2	0000	49	8284.	*	2	1500	79	1301.	*	3	0600	109	254.	
1	0930	20	1014.	*	2	0030	50	7869.	*	2	1530	80	1243.	*	3	0630	110	236.	
1	1000	21	1734.	*	2	0100	51	7429.	*	2	1600	81	1193.	*	3	0700	111	224.	
1	1030	22	3018.	*	2	0130	52	6987.	*	2	1630	82	1147.	*	3	0730	112	216.	
1	1100	23	4794.	*	2	0200	53	6498.	*	2	1700	83	1099.	*	3	0800	113	209.	
1	1130	24	6660.	*	2	0230	54	5981.	*	2	1730	84	1048.	*	3	0830	114	203.	
1	1200	25	8507.	*	2	0300	55	5459.	*	2	1800	85	1002.	*	3	0900	115	199.	
1	1230	26	10196.	*	2	0330	56	4972.	*	2	1830	86	959.	*	3	0930	116	195.	
1	1300	27	11844.	*	2	0400	57	4478.	*	2	1900	87	917.	*	3	1000	117	191.	
1	1330	28	13615.	*	2	0430	58	4052.	*	2	1930	88	875.	*	3	1030	118	188.	
1	1400	29	15661.	*	2	0500	59	3751.	*	2	2000	89	836.	*	3	1100	119	185.	
1	1430	30	18204.	*	2	0530	60	3486.	*	2	2030	90	801.	*	3	1130	120	182.	

PEAK FLOW (CFS)	TIME (HR)	6-HR (CFS)	24-HR (CFS)	72-HR (CFS)	59.50-HR (CFS)
25991.	17.00	21490.	10400.	4556.	4556.
		2.035	3.940	4.278	4.278
		10656.	20629.	22402.	22402.

CUMULATIVE AREA = 98.18 SQ MI

598 KK

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 * Node7 *

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600 KO OUTPUT CONTROL VARIABLES
 IPRNT 0 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
 ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
 TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

604 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

601 BA SUBBASIN CHARACTERISTICS
 TAREA 24.60 SUBBASIN AREA

PRECIPITATION DATA

603 PB STORM 6.74 BASIN TOTAL PRECIPITATION

605 PI INCREMENTAL PRECIPITATION PATTERN

.03	.05	.04	.05	.05	.07	.07	.07	.09	.10
.09	.11	.12	.13	.14	.17	.20	.22	.26	.29
.20	.27	.26	.24	.34	.38	.46	.31	.36	.34
.32	.26	.05	.04	.07	.06	.05	.03	.05	.03
.04	.03	.03	.03	.03	.03	.03	.03		

615 LS SCS LOSS RATE
 STRTL .58 INITIAL ABSTRACTION
 CRVNBR 77.60 CURVE NUMBER
 RTIMP .00 PERCENT IMPERVIOUS AREA

616 UI INPUT UNITGRAPH, 96 ORDINATES, VOLUME = 1.00

995.0	1342.0	2049.0	3059.0	3501.0	2428.0	1838.0	1506.0	1112.0	860.0
860.0	737.0	663.0	614.0	539.0	537.0	471.0	425.0	391.0	374.0
358.0	320.0	307.0	293.0	287.0	262.0	232.0	232.0	202.0	191.0
191.0	182.0	169.0	169.0	169.0	157.0	151.0	151.0	151.0	143.0
132.0	132.0	132.0	132.0	119.0	112.0	112.0	112.0	112.0	112.0
86.3	85.1	85.1	85.1	85.1	85.1	85.1	73.5	61.9	61.9
61.9	61.9	61.9	61.9	61.9	61.9	61.9	52.4	22.5	22.5
22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
22.5	22.5	22.5	22.5	22.5	21.5				

HYDROGRAPH AT STATION Node7

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*	2	0600	61	.00	.00	.00	800.		
1	0030	2	.03	.03	.00	0.	*	2	0630	62	.00	.00	.00	766.		
1	0100	3	.05	.05	.00	0.	*	2	0700	63	.00	.00	.00	734.		
1	0130	4	.04	.04	.00	0.	*	2	0730	64	.00	.00	.00	705.		
1	0200	5	.05	.05	.00	0.	*	2	0800	65	.00	.00	.00	678.		
1	0230	6	.05	.05	.00	0.	*	2	0830	66	.00	.00	.00	653.		
1	0300	7	.07	.07	.00	0.	*	2	0900	67	.00	.00	.00	629.		
1	0330	8	.07	.07	.00	0.	*	2	0930	68	.00	.00	.00	606.		
1	0400	9	.07	.07	.00	0.	*	2	1000	69	.00	.00	.00	586.		
1	0430	10	.09	.09	.00	0.	*	2	1030	70	.00	.00	.00	565.		
1	0500	11	.10	.10	.00	1.	*	2	1100	71	.00	.00	.00	544.		
1	0530	12	.09	.08	.00	6.	*	2	1130	72	.00	.00	.00	523.		
1	0600	13	.11	.10	.01	20.	*	2	1200	73	.00	.00	.00	504.		
1	0630	14	.12	.10	.02	51.	*	2	1230	74	.00	.00	.00	488.		
1	0700	15	.13	.10	.03	104.	*	2	1300	75	.00	.00	.00	472.		
1	0730	16	.14	.10	.04	187.	*	2	1330	76	.00	.00	.00	454.		
1	0800	17	.17	.11	.06	307.	*	2	1400	77	.00	.00	.00	435.		
1	0830	18	.20	.12	.09	469.	*	2	1430	78	.00	.00	.00	417.		
1	0900	19	.22	.12	.11	672.	*	2	1500	79	.00	.00	.00	404.		
1	0930	20	.26	.12	.14	937.	*	2	1530	80	.00	.00	.00	389.		
1	1000	21	.29	.12	.17	1268.	*	2	1600	81	.00	.00	.00	374.		
1	1030	22	.20	.07	.13	1589.	*	2	1630	82	.00	.00	.00	359.		
1	1100	23	.27	.09	.18	1965.	*	2	1700	83	.00	.00	.00	345.		
1	1130	24	.26	.08	.18	2321.	*	2	1730	84	.00	.00	.00	333.		
1	1200	25	.24	.06	.17	2605.	*	2	1800	85	.00	.00	.00	321.		
1	1230	26	.34	.08	.26	2929.	*	2	1830	86	.00	.00	.00	307.		
1	1300	27	.38	.08	.30	3340.	*	2	1900	87	.00	.00	.00	293.		

42.ohl

1	1330	28	.46	.09	.37	3825.	*	2	1930	88	.00	.00	.00	278.
1	1400	29	.31	.05	.26	4293.	*	2	2000	89	.00	.00	.00	264.
1	1430	30	.36	.06	.30	4891.	*	2	2030	90	.00	.00	.00	251.
1	1500	31	.34	.05	.29	5398.	*	2	2100	91	.00	.00	.00	239.
1	1530	32	.32	.04	.28	5716.	*	2	2130	92	.00	.00	.00	230.
1	1600	33	.26	.03	.23	5837.	*	2	2200	93	.00	.00	.00	220.
1	1630	34	.05	.01	.05	5787.	*	2	2230	94	.00	.00	.00	207.
1	1700	35	.04	.00	.04	5555.	*	2	2300	95	.00	.00	.00	192.
1	1730	36	.07	.01	.06	5135.	*	2	2330	96	.00	.00	.00	177.
1	1800	37	.06	.01	.05	4524.	*	3	0000	97	.00	.00	.00	165.
1	1830	38	.05	.01	.05	3898.	*	3	0030	98	.00	.00	.00	152.
1	1900	39	.03	.00	.03	3463.	*	3	0100	99	.00	.00	.00	139.
1	1930	40	.05	.01	.04	3175.	*	3	0130	100	.00	.00	.00	128.
1	2000	41	.03	.00	.03	2914.	*	3	0200	101	.00	.00	.00	120.
1	2030	42	.04	.00	.04	2710.	*	3	0230	102	.00	.00	.00	117.
1	2100	43	.03	.00	.03	2549.	*	3	0300	103	.00	.00	.00	115.
1	2130	44	.03	.00	.03	2394.	*	3	0330	104	.00	.00	.00	112.
1	2200	45	.03	.00	.03	2258.	*	3	0400	105	.00	.00	.00	109.
1	2230	46	.03	.00	.03	2147.	*	3	0430	106	.00	.00	.00	107.
1	2300	47	.03	.00	.02	2039.	*	3	0500	107	.00	.00	.00	106.
1	2330	48	.03	.00	.02	1945.	*	3	0530	108	.00	.00	.00	104.
2	0000	49	.03	.00	.02	1849.	*	3	0600	109	.00	.00	.00	102.
2	0030	50	.00	.00	.00	1744.	*	3	0630	110	.00	.00	.00	101.
2	0100	51	.00	.00	.00	1636.	*	3	0700	111	.00	.00	.00	99.
2	0130	52	.00	.00	.00	1523.	*	3	0730	112	.00	.00	.00	97.
2	0200	53	.00	.00	.00	1392.	*	3	0800	113	.00	.00	.00	94.
2	0230	54	.00	.00	.00	1255.	*	3	0830	114	.00	.00	.00	91.
2	0300	55	.00	.00	.00	1155.	*	3	0900	115	.00	.00	.00	88.
2	0330	56	.00	.00	.00	1069.	*	3	0930	116	.00	.00	.00	83.
2	0400	57	.00	.00	.00	997.	*	3	1000	117	.00	.00	.00	79.
2	0430	58	.00	.00	.00	935.	*	3	1030	118	.00	.00	.00	76.
2	0500	59	.00	.00	.00	884.	*	3	1100	119	.00	.00	.00	72.
2	0530	60	.00	.00	.00	840.	*	3	1130	120	.00	.00	.00	68.

TOTAL RAINFALL = 6.74, TOTAL LOSS = 2.54, TOTAL EXCESS = 4.20

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
+	5837.	16.00	4855.	2451.	1115.	1115.
		(INCHES)	1.835	3.706	4.180	4.180
		(AC-FT)	2407.	4862.	5485.	5485.

CUMULATIVE AREA = 24.60 SQ MI

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627 KK *****
* Node8 *
* *

629 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

633 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 15 TIME INTERVAL IN MINUTES
JXDATE 1 0 STARTING DATE
JXTIME 0 STARTING TIME
UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

630 BA SUBBASIN CHARACTERISTICS
TAREA 88.44 SUBBASIN AREA

PRECIPITATION DATA

632 PB STORM 6.68 BASIN TOTAL PRECIPITATION

634 PI INCREMENTAL PRECIPITATION PATTERN
.03 .05 .04 .05 .05 .07 .07 .07 .09 .10
.09 .11 .12 .13 .14 .17 .20 .22 .26 .29
.20 .27 .25 .23 .34 .38 .45 .31 .35 .34

.31	.25	.05	.04	.07	.06	.05	.03	.05	.03
.04	.03	.03	.03	.03	.03	.03	.03		

644 LS

SCS LOSS RATE

STRTL

.76

INITIAL ABSTRACTION

CRVNBR

72.40

CURVE NUMBER

RTIMP

.00

PERCENT IMPERVIOUS AREA

645 UI

INPUT UNITGRAPH, 83 ORDINATES, VOLUME = 1.00

1288.0	1396.0	1757.0	2120.0	2950.0	2588.0	3547.0	4749.0	4958.0	7878.0
12770.0	12282.0	6233.0	5129.0	4035.0	2951.0	2896.0	2761.0	2683.0	2280.0
1915.0	1757.0	1757.0	1621.0	1486.0	1384.0	1326.0	1208.0	1105.0	966.0
961.0	878.0	878.0	803.0	716.0	716.0	662.0	522.0	522.0	522.0
522.0	331.0	312.0	312.0	312.0	312.0	312.0	312.0	167.0	67.0
66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
66.6	66.6	43.5							

HYDROGRAPH AT STATION Node8

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*		2	0600	61	.00	.00	.00	3495.	
1	0030	2	.03	.03	.00	0.	*		2	0630	62	.00	.00	.00	3201.	
1	0100	3	.05	.05	.00	0.	*		2	0700	63	.00	.00	.00	2953.	
1	0130	4	.04	.04	.00	0.	*		2	0730	64	.00	.00	.00	2715.	
1	0200	5	.05	.05	.00	0.	*		2	0800	65	.00	.00	.00	2507.	
1	0230	6	.05	.05	.00	0.	*		2	0830	66	.00	.00	.00	2319.	
1	0300	7	.07	.07	.00	0.	*		2	0900	67	.00	.00	.00	2128.	
1	0330	8	.07	.07	.00	0.	*		2	0930	68	.00	.00	.00	1944.	
1	0400	9	.07	.07	.00	0.	*		2	1000	69	.00	.00	.00	1752.	
1	0430	10	.09	.09	.00	0.	*		2	1030	70	.00	.00	.00	1605.	
1	0500	11	.10	.10	.00	0.	*		2	1100	71	.00	.00	.00	1476.	
1	0530	12	.09	.09	.00	0.	*		2	1130	72	.00	.00	.00	1347.	
1	0600	13	.11	.11	.00	1.	*		2	1200	73	.00	.00	.00	1222.	
1	0630	14	.12	.11	.01	9.	*		2	1230	74	.00	.00	.00	1100.	
1	0700	15	.13	.12	.01	29.	*		2	1300	75	.00	.00	.00	1001.	
1	0730	16	.14	.12	.02	63.	*		2	1330	76	.00	.00	.00	898.	
1	0800	17	.17	.13	.04	122.	*		2	1400	77	.00	.00	.00	801.	
1	0830	18	.20	.14	.06	220.	*		2	1430	78	.00	.00	.00	713.	
1	0900	19	.22	.14	.08	358.	*		2	1500	79	.00	.00	.00	624.	
1	0930	20	.26	.15	.11	560.	*		2	1530	80	.00	.00	.00	542.	
1	1000	21	.29	.15	.14	839.	*		2	1600	81	.00	.00	.00	470.	
1	1030	22	.20	.10	.10	1131.	*		2	1630	82	.00	.00	.00	427.	
1	1100	23	.27	.12	.15	1554.	*		2	1700	83	.00	.00	.00	404.	
1	1130	24	.25	.10	.15	2091.	*		2	1730	84	.00	.00	.00	383.	
1	1200	25	.23	.09	.15	2748.	*		2	1800	85	.00	.00	.00	360.	
1	1230	26	.34	.12	.22	3586.	*		2	1830	86	.00	.00	.00	339.	
1	1300	27	.38	.12	.26	4662.	*		2	1900	87	.00	.00	.00	325.	
1	1330	28	.45	.12	.33	5928.	*		2	1930	88	.00	.00	.00	312.	
1	1400	29	.31	.08	.23	7188.	*		2	2000	89	.00	.00	.00	299.	
1	1430	30	.35	.08	.27	8710.	*		2	2030	90	.00	.00	.00	287.	
1	1500	31	.34	.07	.27	10094.	*		2	2100	91	.00	.00	.00	279.	
1	1530	32	.31	.06	.25	11266.	*		2	2130	92	.00	.00	.00	272.	
1	1600	33	.25	.05	.21	12411.	*		2	2200	93	.00	.00	.00	266.	
1	1630	34	.05	.01	.04	13603.	*		2	2230	94	.00	.00	.00	259.	
1	1700	35	.04	.01	.03	14603.	*		2	2300	95	.00	.00	.00	253.	
1	1730	36	.07	.01	.05	15904.	*		2	2330	96	.00	.00	.00	247.	
1	1800	37	.06	.01	.05	17469.	*		3	0000	97	.00	.00	.00	241.	
1	1830	38	.05	.01	.05	18376.	*		3	0030	98	.00	.00	.00	238.	
1	1900	39	.03	.01	.03	18514.	*		3	0100	99	.00	.00	.00	236.	
1	1930	40	.05	.01	.04	18152.	*		3	0130	100	.00	.00	.00	233.	
1	2000	41	.03	.01	.03	17831.	*		3	0200	101	.00	.00	.00	229.	
1	2030	42	.04	.01	.03	16990.	*		3	0230	102	.00	.00	.00	223.	
1	2100	43	.03	.01	.03	15432.	*		3	0300	103	.00	.00	.00	215.	
1	2130	44	.03	.01	.03	13198.	*		3	0330	104	.00	.00	.00	207.	
1	2200	45	.03	.01	.03	11219.	*		3	0400	105	.00	.00	.00	199.	
1	2230	46	.03	.01	.03	10345.	*		3	0430	106	.00	.00	.00	189.	
1	2300	47	.03	.00	.02	9658.	*		3	0500	107	.00	.00	.00	179.	
1	2330	48	.03	.00	.02	8998.	*		3	0530	108	.00	.00	.00	167.	
2	0000	49	.03	.00	.02	8476.	*		3	0600	109	.00	.00	.00	151.	
2	0030	50	.00	.00	.00	7966.	*		3	0630	110	.00	.00	.00	132.	
2	0100	51	.00	.00	.00	7493.	*		3	0700	111	.00	.00	.00	113.	
2	0130	52	.00	.00	.00	7012.	*		3	0730	112	.00	.00	.00	96.	
2	0200	53	.00	.00	.00	6637.	*		3	0800	113	.00	.00	.00	78.	
2	0230	54	.00	.00	.00	6271.	*		3	0830	114	.00	.00	.00	60.	
2	0300	55	.00	.00	.00	5941.	*		3	0900	115	.00	.00	.00	45.	
2	0330	56	.00	.00	.00	5581.	*		3	0930	116	.00	.00	.00	34.	
2	0400	57	.00	.00	.00	5175.	*		3	1000	117	.00	.00	.00	32.	
2	0430	58	.00	.00	.00	4814.	*		3	1030	118	.00	.00	.00	29.	
2	0500	59	.00	.00	.00	4429.	*		3	1100	119	.00	.00	.00	26.	
2	0530	60	.00	.00	.00	3949.	*		3	1130	120	.00	.00	.00	22.	

42.oh1

TOTAL RAINFALL = 6.68, TOTAL LOSS = 3.08, TOTAL EXCESS = 3.60

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
18514.	19.00	15991.	8101.	3450.	3450.	
		(INCHES)	1.681	3.407	3.596	3.596
		(AC-FT)	7929.	16068.	16963.	16963.

CUMULATIVE AREA = 88.44 SQ MI

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*                               *
*   655 KK   Node49   *
*                               *
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657 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

658 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node49
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	0000	1	0.	*	1	1500	31	15492.	*	2	0600	61	4295.	*	2	2100	91	518.					
1	0030	2	0.	*	1	1530	32	16982.	*	2	0630	62	3967.	*	2	2130	92	502.					
1	0100	3	0.	*	1	1600	33	18249.	*	2	0700	63	3687.	*	2	2200	93	485.					
1	0130	4	0.	*	1	1630	34	19390.	*	2	0730	64	3420.	*	2	2230	94	465.					
1	0200	5	0.	*	1	1700	35	20158.	*	2	0800	65	3184.	*	2	2300	95	445.					
1	0230	6	0.	*	1	1730	36	21039.	*	2	0830	66	2973.	*	2	2330	96	424.					
1	0300	7	0.	*	1	1800	37	21993.	*	2	0900	67	2758.	*	3	0000	97	406.					
1	0330	8	0.	*	1	1830	38	22274.	*	2	0930	68	2550.	*	3	0030	98	389.					
1	0400	9	0.	*	1	1900	39	21977.	*	2	1000	69	2338.	*	3	0100	99	375.					
1	0430	10	0.	*	1	1930	40	21327.	*	2	1030	70	2171.	*	3	0130	100	361.					
1	0500	11	1.	*	1	2000	41	20745.	*	2	1100	71	2020.	*	3	0200	101	348.					
1	0530	12	6.	*	1	2030	42	19700.	*	2	1130	72	1870.	*	3	0230	102	340.					
1	0600	13	21.	*	1	2100	43	17981.	*	2	1200	73	1726.	*	3	0300	103	330.					
1	0630	14	59.	*	1	2130	44	15592.	*	2	1230	74	1588.	*	3	0330	104	319.					
1	0700	15	133.	*	1	2200	45	13477.	*	2	1300	75	1473.	*	3	0400	105	308.					
1	0730	16	251.	*	1	2230	46	12491.	*	2	1330	76	1352.	*	3	0430	106	296.					
1	0800	17	430.	*	1	2300	47	11697.	*	2	1400	77	1236.	*	3	0500	107	284.					
1	0830	18	688.	*	1	2330	48	10943.	*	2	1430	78	1129.	*	3	0530	108	271.					
1	0900	19	1030.	*	2	0000	49	10325.	*	2	1500	79	1027.	*	3	0600	109	254.					
1	0930	20	1497.	*	2	0030	50	9710.	*	2	1530	80	931.	*	3	0630	110	233.					
1	1000	21	2107.	*	2	0100	51	9129.	*	2	1600	81	843.	*	3	0700	111	211.					
1	1030	22	2720.	*	2	0130	52	8535.	*	2	1630	82	786.	*	3	0730	112	193.					
1	1100	23	3519.	*	2	0200	53	8029.	*	2	1700	83	749.	*	3	0800	113	172.					
1	1130	24	4413.	*	2	0230	54	7526.	*	2	1730	84	716.	*	3	0830	114	151.					
1	1200	25	5353.	*	2	0300	55	7096.	*	2	1800	85	680.	*	3	0900	115	132.					
1	1230	26	6514.	*	2	0330	56	6650.	*	2	1830	86	646.	*	3	0930	116	118.					
1	1300	27	8003.	*	2	0400	57	6172.	*	2	1900	87	618.	*	3	1000	117	111.					
1	1330	28	9753.	*	2	0430	58	5749.	*	2	1930	88	590.	*	3	1030	118	105.					
1	1400	29	11481.	*	2	0500	59	5313.	*	2	2000	89	563.	*	3	1100	119	97.					
1	1430	30	13601.	*	2	0530	60	4789.	*	2	2030	90	537.	*	3	1130	120	90.					

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
22274.	18.50	20093.	10520.	4565.	4565.	
		(INCHES)	1.653	3.461	3.723	3.723
		(AC-FT)	9964.	20865.	22447.	22447.

CUMULATIVE AREA = 113.04 SQ MI

659 KK

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

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661 KO

OUTPUT CONTROL VARIABLES

```

IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

```

HYDROGRAPH ROUTING DATA

662 RD

MUSKINGUM-CUNGE CHANNEL ROUTING

```

L      46358.  CHANNEL LENGTH
S      .0154  SLOPE
N      .050   CHANNEL ROUGHNESS COEFFICIENT
CA     .00    CONTRIBUTING AREA
SHAPE  TRAP   CHANNEL SHAPE
WD     60.00  BOTTOM WIDTH OR DIAMETER
Z      3.00  SIDE SLOPE

```

 COMPUTED MUSKINGUM-CUNGE PARAMETERS
 COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	.33	1.57	30.00	23179.00	22316.55	1140.00	3.72	22.44

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.33	1.57	30.00		22316.55	1140.00	3.72	
------	-----	------	-------	--	----------	---------	------	--

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2245E+05 EXCESS= .0000E+00 OUTFLOW= .2244E+05 BASIN STORAGE= .4190E+02 PERCENT ERROR= -.2

HYDROGRAPH AT STATION 8

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	1500	31	13333.	*	2	0600	61	5078.	*	2	2100	91	571.	
1	0030	2	0.	*	1	1530	32	15505.	*	2	0630	62	4577.	*	2	2130	92	545.	
1	0100	3	0.	*	1	1600	33	17008.	*	2	0700	63	4155.	*	2	2200	93	525.	
1	0130	4	0.	*	1	1630	34	18301.	*	2	0730	64	3875.	*	2	2230	94	507.	
1	0200	5	0.	*	1	1700	35	19421.	*	2	0800	65	3613.	*	2	2300	95	491.	
1	0230	6	0.	*	1	1730	36	20287.	*	2	0830	66	3363.	*	2	2330	96	472.	
1	0300	7	0.	*	1	1800	37	21071.	*	2	0900	67	3143.	*	3	0000	97	452.	
1	0330	8	0.	*	1	1830	38	22014.	*	2	0930	68	2943.	*	3	0030	98	432.	
1	0400	9	0.	*	1	1900	39	22317.	*	2	1000	69	2738.	*	3	0100	99	413.	
1	0430	10	0.	*	1	1930	40	21913.	*	2	1030	70	2541.	*	3	0130	100	396.	
1	0500	11	0.	*	1	2000	41	21309.	*	2	1100	71	2341.	*	3	0200	101	381.	
1	0530	12	0.	*	1	2030	42	20599.	*	2	1130	72	2175.	*	3	0230	102	366.	
1	0600	13	0.	*	1	2100	43	19639.	*	2	1200	73	2026.	*	3	0300	103	353.	
1	0630	14	2.	*	1	2130	44	17893.	*	2	1230	74	1878.	*	3	0330	104	344.	
1	0700	15	11.	*	1	2200	45	15725.	*	2	1300	75	1736.	*	3	0400	105	334.	
1	0730	16	36.	*	1	2230	46	13625.	*	2	1330	76	1599.	*	3	0430	106	323.	
1	0800	17	93.	*	1	2300	47	12443.	*	2	1400	77	1484.	*	3	0500	107	313.	
1	0830	18	197.	*	1	2330	48	11847.	*	2	1430	78	1366.	*	3	0530	108	301.	
1	0900	19	367.	*	2	0000	49	11042.	*	2	1500	79	1251.	*	3	0600	109	290.	
1	0930	20	622.	*	2	0030	50	10416.	*	2	1530	80	1145.	*	3	0630	110	277.	
1	1000	21	971.	*	2	0100	51	9843.	*	2	1600	81	1045.	*	3	0700	111	262.	
1	1030	22	1451.	*	2	0130	52	9251.	*	2	1630	82	950.	*	3	0730	112	243.	
1	1100	23	2086.	*	2	0200	53	8697.	*	2	1700	83	862.	*	3	0800	113	222.	
1	1130	24	2803.	*	2	0230	54	8153.	*	2	1730	84	800.	*	3	0830	114	203.	
1	1200	25	3780.	*	2	0300	55	7692.	*	2	1800	85	759.	*	3	0900	115	183.	
1	1230	26	4833.	*	2	0330	56	7227.	*	2	1830	86	724.	*	3	0930	116	163.	
1	1300	27	5979.	*	2	0400	57	6822.	*	2	1900	87	689.	*	3	1000	117	144.	
1	1330	28	7477.	*	2	0430	58	6372.	*	2	1930	88	655.	*	3	1030	118	128.	

42.ohl

1	1400	29	9326.	*	2	0500	59	5924.	*	2	2000	89	626.	*	3	1100	119	117.
1	1430	30	11289.	*	2	0530	60	5525.	*	2	2030	90	598.	*	3	1130	120	110.

```

*****
PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)      6-HR      24-HR      72-HR      59.50-HR
+ 22317.      19.00      (CFS)
                        (INCHES)  20094.    10520.    4564.    4564.
                        (AC-FT)   1.653    3.461    3.722    3.722
                        9964.    20865.   22441.   22441.
  
```

CUMULATIVE AREA = 113.04 SQ MI

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*****
*                               *
* 663.KK      Node12           *
*                               *
*****
  
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665 KO      OUTPUT CONTROL VARIABLES
            IPRNT      0      PRINT CONTROL
            IPLOT      0      PLOT CONTROL
            QSCAL      0.    HYDROGRAPH PLOT SCALE
            IPNCH      0      PUNCH COMPUTED HYDROGRAPH
            IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     120     LAST ORDINATE PUNCHED OR SAVED
            TIMINT     .500    TIME INTERVAL IN HOURS
  
```

SANTA MARGARITA STORMS

```

669 IN      TIME DATA FOR INPUT TIME SERIES
            JXMIN      15     TIME INTERVAL IN MINUTES
            JXDATE     1      0      STARTING DATE
            JXTIME     0      0      STARTING TIME
            UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH
  
```

SUBBASIN RUNOFF DATA

```

666 BA      SUBBASIN CHARACTERISTICS
            TAREA      42.32   SUBBASIN AREA
  
```

PRECIPITATION DATA

```

668 PB      STORM      6.61   BASIN TOTAL PRECIPITATION
  
```

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670 PI      INCREMENTAL PRECIPITATION PATTERN
            .03      .05      .04      .05      .05      .07      .07      .07      .09      .10
            .09      .11      .12      .13      .14      .16      .20      .22      .26      .28
            .20      .26      .25      .23      .34      .38      .45      .30      .35      .34
            .31      .25      .05      .04      .07      .06      .05      .03      .05      .03
            .04      .03      .03      .03      .03      .03      .03      .03      .05      .03
  
```

```

680 LS      SCS LOSS RATE
            STRTL      .69     INITIAL ABSTRACTION
            CRVNBR     74.40    CURVE NUMBER
            RTIMP      .00      PERCENT IMPERVIOUS AREA
  
```

```

681 UI      INPUT UNITGRAPH, 50 ORDINATES, VOLUME = 1.00
            1020.0    1410.0    2080.0    2273.0    3611.0    5291.0    10582.0    5159.0    3691.0    2342.0
            2186.0    1974.0    1479.0    1391.0    1219.0    1104.0    973.0    816.0    744.0    696.0
            601.0     567.0    442.0    414.0    385.0    247.0    247.0    247.0    247.0    101.0
            52.8     52.8     52.8     52.8     52.8     52.8     52.8     52.8     52.8     52.8
            52.8     52.8     52.8     52.8     52.8     52.8     52.8     52.8     52.8     49.6
  
```

HYDROGRAPH AT STATION Node12

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1		.00	.00	.00	0.	*	2	0600	61		.00	.00	.00	565.
1	0030	2		.03	.03	.00	0.	*	2	0630	62		.00	.00	.00	483.
1	0100	3		.05	.05	.00	0.	*	2	0700	63		.00	.00	.00	434.
1	0130	4		.04	.04	.00	0.	*	2	0730	64		.00	.00	.00	400.
1	0200	5		.05	.05	.00	0.	*	2	0800	65		.00	.00	.00	365.
1	0230	6		.05	.05	.00	0.	*	2	0830	66		.00	.00	.00	334.
1	0300	7		.07	.07	.00	0.	*	2	0900	67		.00	.00	.00	307.
1	0330	8		.07	.07	.00	0.	*	2	0930	68		.00	.00	.00	284.

42.ohl

1	0400	9	.07	.07	.00	0.	*	2	1000	69	.00	.00	.00	261.
1	0430	10	.09	.09	.00	0.	*	2	1030	70	.00	.00	.00	240.
1	0500	11	.10	.10	.00	0.	*	2	1100	71	.00	.00	.00	218.
1	0530	12	.09	.09	.00	0.	*	2	1130	72	.00	.00	.00	202.
1	0600	13	.11	.10	.00	4.	*	2	1200	73	.00	.00	.00	184.
1	0630	14	.12	.11	.01	16.	*	2	1230	74	.00	.00	.00	167.
1	0700	15	.13	.11	.02	43.	*	2	1300	75	.00	.00	.00	153.
1	0730	16	.14	.11	.03	89.	*	2	1330	76	.00	.00	.00	136.
1	0800	17	.17	.12	.04	165.	*	2	1400	77	.00	.00	.00	117.
1	0830	18	.20	.13	.07	293.	*	2	1430	78	.00	.00	.00	95.
1	0900	19	.22	.13	.09	505.	*	2	1500	79	.00	.00	.00	82.
1	0930	20	.26	.14	.12	821.	*	2	1530	80	.00	.00	.00	67.
1	1000	21	.28	.14	.15	1235.	*	2	1600	81	.00	.00	.00	52.
1	1030	22	.20	.09	.11	1686.	*	2	1630	82	.00	.00	.00	39.
1	1100	23	.26	.11	.16	2265.	*	2	1700	83	.00	.00	.00	28.
1	1130	24	.25	.09	.16	2923.	*	2	1730	84	.00	.00	.00	26.
1	1200	25	.23	.08	.15	3643.	*	2	1800	85	.00	.00	.00	24.
1	1230	26	.34	.10	.23	4452.	*	2	1830	86	.00	.00	.00	21.
1	1300	27	.38	.10	.27	5245.	*	2	1900	87	.00	.00	.00	19.
1	1330	28	.45	.11	.34	5829.	*	2	1930	88	.00	.00	.00	16.
1	1400	29	.30	.07	.24	6706.	*	2	2000	89	.00	.00	.00	15.
1	1430	30	.35	.07	.28	7481.	*	2	2030	90	.00	.00	.00	13.
1	1500	31	.34	.06	.27	8307.	*	2	2100	91	.00	.00	.00	11.
1	1530	32	.31	.05	.26	9645.	*	2	2130	92	.00	.00	.00	9.
1	1600	33	.25	.04	.21	10666.	*	2	2200	93	.00	.00	.00	8.
1	1630	34	.05	.01	.04	11390.	*	2	2230	94	.00	.00	.00	6.
1	1700	35	.04	.01	.03	10956.	*	2	2300	95	.00	.00	.00	5.
1	1730	36	.07	.01	.06	10993.	*	2	2330	96	.00	.00	.00	3.
1	1800	37	.06	.01	.05	10670.	*	3	0000	97	.00	.00	.00	2.
1	1830	38	.05	.01	.04	9991.	*	3	0030	98	.00	.00	.00	1.
1	1900	39	.03	.00	.03	8761.	*	3	0100	99	.00	.00	.00	0.
1	1930	40	.05	.01	.04	6887.	*	3	0130	100	.00	.00	.00	0.
1	2000	41	.03	.00	.03	5982.	*	3	0200	101	.00	.00	.00	0.
1	2030	42	.04	.01	.03	5504.	*	3	0230	102	.00	.00	.00	0.
1	2100	43	.03	.00	.03	5066.	*	3	0300	103	.00	.00	.00	0.
1	2130	44	.03	.00	.03	4621.	*	3	0330	104	.00	.00	.00	0.
1	2200	45	.03	.00	.03	4145.	*	3	0400	105	.00	.00	.00	0.
1	2230	46	.03	.00	.03	3899.	*	3	0430	106	.00	.00	.00	0.
1	2300	47	.03	.00	.02	3580.	*	3	0500	107	.00	.00	.00	0.
1	2330	48	.03	.00	.02	3349.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.03	.00	.02	3078.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	2837.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	2620.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	2385.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	2123.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	1896.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	1642.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	1291.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	1062.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	890.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	775.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	666.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 6.61, TOTAL LOSS = 2.86, TOTAL EXCESS = 3.75

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
+	11390.	16.50	9341.	4188.	1718.	1718.
		(INCHES)	2.052	3.680	3.744	3.744
		(AC-FT)	4632.	8307.	8449.	8449.

CUMULATIVE AREA = 42.32 SQ MI

687 KK

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*****
*                               *
*   Node14   *
*                               *
*****

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689 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLLOT     0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

```

SANTA MARGARITA STORMS

42.ohl

693 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

690 BA SUBBASIN CHARACTERISTICS
 TAREA 23.58 SUBBASIN AREA

PRECIPITATION DATA

692 PB STORM 6.27 BASIN TOTAL PRECIPITATION

694 PI INCREMENTAL PRECIPITATION PATTERN

.03	.04	.04	.04	.05	.06	.06	.07	.08	.09
.08	.10	.11	.13	.13	.16	.19	.21	.24	.27
.19	.25	.24	.22	.32	.36	.43	.29	.33	.32
.29	.24	.05	.04	.06	.06	.05	.03	.04	.03
.04	.03	.03	.03	.03	.03	.03	.03		

704 LS SCS LOSS RATE
 STRTL .89 INITIAL ABSTRACTION
 CRVNB 69.20 CURVE NUMBER
 RTIMP .00 PERCENT IMPERVIOUS AREA

705 UI INPUT UNITGRAPH, 70 ORDINATES, VOLUME = 1.00

1391.0	2325.0	3933.0	4193.0	2586.0	1937.0	1279.0	1139.0	941.0	839.0
727.0	692.0	566.0	518.0	479.0	433.0	404.0	380.0	343.0	308.0
278.0	253.0	249.0	223.0	223.0	214.0	200.0	200.0	191.0	175.0
175.0	175.0	151.0	148.0	148.0	148.0	121.0	113.0	113.0	113.0
113.0	101.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	33.0
29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	13.8

HYDROGRAPH AT STATION Node14

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*		2	0600	61	.00	.00	.00	508.	
1	0030	2	.03	.03	.00	0.	*		2	0630	62	.00	.00	.00	481.	
1	0100	3	.04	.04	.00	0.	*		2	0700	63	.00	.00	.00	455.	
1	0130	4	.04	.04	.00	0.	*		2	0730	64	.00	.00	.00	429.	
1	0200	5	.04	.04	.00	0.	*		2	0800	65	.00	.00	.00	406.	
1	0230	6	.05	.05	.00	0.	*		2	0830	66	.00	.00	.00	386.	
1	0300	7	.06	.06	.00	0.	*		2	0900	67	.00	.00	.00	366.	
1	0330	8	.06	.06	.00	0.	*		2	0930	68	.00	.00	.00	344.	
1	0400	9	.07	.07	.00	0.	*		2	1000	69	.00	.00	.00	322.	
1	0430	10	.08	.08	.00	0.	*		2	1030	70	.00	.00	.00	303.	
1	0500	11	.09	.09	.00	0.	*		2	1100	71	.00	.00	.00	288.	
1	0530	12	.08	.08	.00	0.	*		2	1130	72	.00	.00	.00	271.	
1	0600	13	.10	.10	.00	0.	*		2	1200	73	.00	.00	.00	255.	
1	0630	14	.11	.11	.00	0.	*		2	1230	74	.00	.00	.00	239.	
1	0700	15	.13	.12	.00	3.	*		2	1300	75	.00	.00	.00	223.	
1	0730	16	.13	.12	.01	19.	*		2	1330	76	.00	.00	.00	208.	
1	0800	17	.16	.14	.02	60.	*		2	1400	77	.00	.00	.00	191.	
1	0830	18	.19	.15	.04	144.	*		2	1430	78	.00	.00	.00	177.	
1	0900	19	.21	.16	.05	279.	*		2	1500	79	.00	.00	.00	162.	
1	0930	20	.24	.17	.08	478.	*		2	1530	80	.00	.00	.00	147.	
1	1000	21	.27	.17	.10	740.	*		2	1600	81	.00	.00	.00	133.	
1	1030	22	.19	.11	.08	1002.	*		2	1630	82	.00	.00	.00	122.	
1	1100	23	.25	.13	.12	1297.	*		2	1700	83	.00	.00	.00	118.	
1	1130	24	.24	.12	.12	1541.	*		2	1730	84	.00	.00	.00	115.	
1	1200	25	.22	.10	.12	1768.	*		2	1800	85	.00	.00	.00	111.	
1	1230	26	.32	.14	.18	2095.	*		2	1830	86	.00	.00	.00	107.	
1	1300	27	.36	.14	.22	2462.	*		2	1900	87	.00	.00	.00	103.	
1	1330	28	.43	.15	.28	3018.	*		2	1930	88	.00	.00	.00	100.	
1	1400	29	.29	.09	.20	3557.	*		2	2000	89	.00	.00	.00	95.	
1	1430	30	.33	.10	.23	4062.	*		2	2030	90	.00	.00	.00	91.	
1	1500	31	.32	.09	.23	4372.	*		2	2100	91	.00	.00	.00	86.	
1	1530	32	.29	.07	.22	4535.	*		2	2130	92	.00	.00	.00	82.	
1	1600	33	.24	.06	.18	4690.	*		2	2200	93	.00	.00	.00	77.	
1	1630	34	.05	.01	.04	4521.	*		2	2230	94	.00	.00	.00	72.	
1	1700	35	.04	.01	.03	4143.	*		2	2300	95	.00	.00	.00	66.	
1	1730	36	.06	.01	.05	3525.	*		2	2330	96	.00	.00	.00	59.	
1	1800	37	.06	.01	.04	2932.	*		3	0000	97	.00	.00	.00	51.	
1	1830	38	.05	.01	.04	2601.	*		3	0030	98	.00	.00	.00	43.	
1	1900	39	.03	.01	.02	2370.	*		3	0100	99	.00	.00	.00	36.	
1	1930	40	.04	.01	.03	2193.	*		3	0130	100	.00	.00	.00	29.	
1	2000	41	.03	.01	.03	2018.	*		3	0200	101	.00	.00	.00	23.	
1	2030	42	.04	.01	.03	1876.	*		3	0230	102	.00	.00	.00	17.	
1	2100	43	.03	.01	.03	1762.	*		3	0300	103	.00	.00	.00	14.	
1	2130	44	.03	.01	.03	1657.	*		3	0330	104	.00	.00	.00	13.	
1	2200	45	.03	.01	.03	1570.	*		3	0400	105	.00	.00	.00	11.	
1	2230	46	.03	.01	.03	1491.	*		3	0430	106	.00	.00	.00	10.	

42.ohl

1	2300	47	.03	.01	.02	1424.	*	3	0500	107	.00	.00	.00	9.
1	2330	48	.03	.01	.02	1357.	*	3	0530	108	.00	.00	.00	8.
2	0000	49	.03	.01	.02	1293.	*	3	0600	109	.00	.00	.00	7.
2	0030	50	.00	.00	.00	1204.	*	3	0630	110	.00	.00	.00	6.
2	0100	51	.00	.00	.00	1108.	*	3	0700	111	.00	.00	.00	5.
2	0130	52	.00	.00	.00	988.	*	3	0730	112	.00	.00	.00	4.
2	0200	53	.00	.00	.00	871.	*	3	0800	113	.00	.00	.00	4.
2	0230	54	.00	.00	.00	792.	*	3	0830	114	.00	.00	.00	3.
2	0300	55	.00	.00	.00	730.	*	3	0900	115	.00	.00	.00	2.
2	0330	56	.00	.00	.00	682.	*	3	0930	116	.00	.00	.00	2.
2	0400	57	.00	.00	.00	640.	*	3	1000	117	.00	.00	.00	1.
2	0430	58	.00	.00	.00	604.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	569.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	537.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 6.27, TOTAL LOSS = 3.33, TOTAL EXCESS = 2.94

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
4690.	16.00		3698.	1751.	753.	753.
		(INCHES)	1.458	2.762	2.943	2.943
		(AC-FT)	1834.	3474.	3701.	3701.

CUMULATIVE AREA = 23.58 SQ MI

713 KK

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*           *
*   Node15  *
*           *
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715 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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SANTA MARGARITA STORMS

719 IN

TIME DATA FOR INPUT TIME SERIES

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JXMIN      15  TIME INTERVAL IN MINUTES
JXDATE     1  0  STARTING DATE
JXTIME     0  0  STARTING TIME
UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

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SUBBASIN RUNOFF DATA

716 BA

SUBBASIN CHARACTERISTICS

TAREA 1.00 SUBBASIN AREA

PRECIPITATION DATA

718 PB

STORM 5.18 BASIN TOTAL PRECIPITATION

720 PI

INCREMENTAL PRECIPITATION PATTERN

.03	.04	.03	.04	.04	.05	.05	.06	.07	.08
.07	.08	.09	.10	.11	.13	.16	.17	.20	.22
.16	.21	.20	.18	.26	.30	.35	.24	.28	.27
.24	.20	.04	.03	.05	.05	.04	.03	.04	.03
.03	.03	.03	.03	.03	.02	.02	.02		

730 LS

SCS LOSS RATE

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STRTL      .49  INITIAL ABSTRACTION
CRVNBR     80.40 CURVE NUMBER
RTIMP      .00  PERCENT IMPERVIOUS AREA

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731 UI

INPUT UNITGRAPH, 10 ORDINATES, VOLUME = 1.00

246.0	640.0	195.0	102.0	57.0	26.0	6.0	6.0	6.0	6.0
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HYDROGRAPH AT STATION Node15

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	2		0600	61	.00	.00	.00	0.
1		0030	2	.03	.03	.00	0.	*	2		0630	62	.00	.00	.00	0.
1		0100	3	.04	.04	.00	0.	*	2		0700	63	.00	.00	.00	0.
1		0130	4	.03	.03	.00	0.	*	2		0730	64	.00	.00	.00	0.
1		0200	5	.04	.04	.00	0.	*	2		0800	65	.00	.00	.00	0.
1		0230	6	.04	.04	.00	0.	*	2		0830	66	.00	.00	.00	0.
1		0300	7	.05	.05	.00	0.	*	2		0900	67	.00	.00	.00	0.
1		0330	8	.05	.05	.00	0.	*	2		0930	68	.00	.00	.00	0.
1		0400	9	.06	.06	.00	0.	*	2		1000	69	.00	.00	.00	0.
1		0430	10	.07	.07	.00	0.	*	2		1030	70	.00	.00	.00	0.
1		0500	11	.08	.08	.00	0.	*	2		1100	71	.00	.00	.00	0.
1		0530	12	.07	.07	.00	0.	*	2		1130	72	.00	.00	.00	0.
1		0600	13	.08	.08	.01	2.	*	2		1200	73	.00	.00	.00	0.
1		0630	14	.09	.08	.01	7.	*	2		1230	74	.00	.00	.00	0.
1		0700	15	.10	.08	.02	15.	*	2		1300	75	.00	.00	.00	0.
1		0730	16	.11	.08	.03	23.	*	2		1330	76	.00	.00	.00	0.
1		0800	17	.13	.09	.04	34.	*	2		1400	77	.00	.00	.00	0.
1		0830	18	.16	.10	.06	49.	*	2		1430	78	.00	.00	.00	0.
1		0900	19	.17	.10	.07	68.	*	2		1500	79	.00	.00	.00	0.
1		0930	20	.20	.10	.10	91.	*	2		1530	80	.00	.00	.00	0.
1		1000	21	.22	.10	.12	119.	*	2		1600	81	.00	.00	.00	0.
1		1030	22	.16	.06	.09	134.	*	2		1630	82	.00	.00	.00	0.
1		1100	23	.21	.08	.13	133.	*	2		1700	83	.00	.00	.00	0.
1		1130	24	.20	.07	.13	156.	*	2		1730	84	.00	.00	.00	0.
1		1200	25	.18	.06	.13	160.	*	2		1800	85	.00	.00	.00	0.
1		1230	26	.26	.07	.19	177.	*	2		1830	86	.00	.00	.00	0.
1		1300	27	.29	.07	.22	227.	*	2		1900	87	.00	.00	.00	0.
1		1330	28	.35	.08	.28	273.	*	2		1930	88	.00	.00	.00	0.
1		1400	29	.24	.05	.19	299.	*	2		2000	89	.00	.00	.00	0.
1		1430	30	.27	.05	.23	272.	*	2		2030	90	.00	.00	.00	0.
1		1500	31	.26	.04	.22	285.	*	2		2100	91	.00	.00	.00	0.
1		1530	32	.24	.04	.21	281.	*	2		2130	92	.00	.00	.00	0.
1		1600	33	.20	.03	.17	262.	*	2		2200	93	.00	.00	.00	0.
1		1630	34	.04	.01	.04	202.	*	2		2230	94	.00	.00	.00	0.
1		1700	35	.03	.00	.03	108.	*	2		2300	95	.00	.00	.00	0.
1		1730	36	.05	.01	.05	76.	*	2		2330	96	.00	.00	.00	0.
1		1800	37	.05	.01	.04	69.	*	3		0000	97	.00	.00	.00	0.
1		1830	38	.04	.01	.04	58.	*	3		0030	98	.00	.00	.00	0.
1		1900	39	.03	.00	.02	49.	*	3		0100	99	.00	.00	.00	0.
1		1930	40	.04	.00	.03	41.	*	3		0130	100	.00	.00	.00	0.
1		2000	41	.03	.00	.02	41.	*	3		0200	101	.00	.00	.00	0.
1		2030	42	.03	.00	.03	35.	*	3		0230	102	.00	.00	.00	0.
1		2100	43	.03	.00	.02	34.	*	3		0300	103	.00	.00	.00	0.
1		2130	44	.03	.00	.02	31.	*	3		0330	104	.00	.00	.00	0.
1		2200	45	.03	.00	.02	31.	*	3		0400	105	.00	.00	.00	0.
1		2230	46	.03	.00	.02	30.	*	3		0430	106	.00	.00	.00	0.
1		2300	47	.02	.00	.02	28.	*	3		0500	107	.00	.00	.00	0.
1		2330	48	.02	.00	.02	25.	*	3		0530	108	.00	.00	.00	0.
2		0000	49	.02	.00	.02	24.	*	3		0600	109	.00	.00	.00	0.
2		0030	50	.00	.00	.00	19.	*	3		0630	110	.00	.00	.00	0.
2		0100	51	.00	.00	.00	7.	*	3		0700	111	.00	.00	.00	0.
2		0130	52	.00	.00	.00	4.	*	3		0730	112	.00	.00	.00	0.
2		0200	53	.00	.00	.00	2.	*	3		0800	113	.00	.00	.00	0.
2		0230	54	.00	.00	.00	1.	*	3		0830	114	.00	.00	.00	0.
2		0300	55	.00	.00	.00	0.	*	3		0900	115	.00	.00	.00	0.
2		0330	56	.00	.00	.00	0.	*	3		0930	116	.00	.00	.00	0.
2		0400	57	.00	.00	.00	0.	*	3		1000	117	.00	.00	.00	0.
2		0430	58	.00	.00	.00	0.	*	3		1030	118	.00	.00	.00	0.
2		0500	59	.00	.00	.00	0.	*	3		1100	119	.00	.00	.00	0.
2		0530	60	.00	.00	.00	0.	*	3		1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 5.18, TOTAL LOSS = 2.09, TOTAL EXCESS = 3.09

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
+	299.	14.00	226.	83.	33.	33.
		(INCHES)	2.104	3.087	3.087	3.087
		(AC-FT)	112.	165.	165.	165.

CUMULATIVE AREA = 1.00 SQ MI

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733 KK * Node17 *

735 KO OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL

IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
 ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
 TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

739 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

736 BA SUBBASIN CHARACTERISTICS
 TAREA 38.50 SUBBASIN AREA

PRECIPITATION DATA

738 PB STORM 6.93 BASIN TOTAL PRECIPITATION

740 PI INCREMENTAL PRECIPITATION PATTERN

.04	.05	.04	.05	.06	.07	.07	.08	.09	.10
.09	.11	.12	.14	.14	.17	.21	.23	.27	.30
.21	.28	.26	.24	.35	.40	.47	.32	.37	.35
.32	.26	.06	.04	.07	.06	.06	.03	.05	.03
.04	.03	.03	.03	.03	.03	.03	.03		

750 LS SCS LOSS RATE
 STRTL .79 INITIAL ABSTRACTION
 CRVNBR 71.70 CURVE NUMBER
 RTIMP .00 PERCENT IMPERVIOUS AREA

751 UI INPUT UNITGRAPH, 101 ORDINATES, VOLUME = 1.00

1474.0	1961.0	2928.0	4314.0	5339.0	3911.0	2943.0	2458.0	1847.0	1406.0
1279.0	1221.0	1038.0	961.0	886.0	799.0	799.0	678.0	628.0	581.0
557.0	533.0	485.0	457.0	443.0	426.0	416.0	346.0	346.0	330.0
284.0	284.0	284.0	259.0	251.0	251.0	251.0	230.0	224.0	224.0
224.0	214.0	197.0	197.0	197.0	197.0	187.0	166.0	166.0	166.0
166.0	166.0	153.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
110.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
92.0	51.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
32.7									

HYDROGRAPH AT STATION Node17

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*	2	0600	61	.00	.00	.00	1163.		
1	0030	2	.03	.03	.00	0.	*	2	0630	62	.00	.00	.00	1110.		
1	0100	3	.05	.05	.00	0.	*	2	0700	63	.00	.00	.00	1060.		
1	0130	4	.04	.04	.00	0.	*	2	0730	64	.00	.00	.00	1019.		
1	0200	5	.05	.05	.00	0.	*	2	0800	65	.00	.00	.00	979.		
1	0230	6	.06	.06	.00	0.	*	2	0830	66	.00	.00	.00	941.		
1	0300	7	.07	.07	.00	0.	*	2	0900	67	.00	.00	.00	909.		
1	0330	8	.07	.07	.00	0.	*	2	0930	68	.00	.00	.00	878.		
1	0400	9	.08	.08	.00	0.	*	2	1000	69	.00	.00	.00	847.		
1	0430	10	.09	.09	.00	0.	*	2	1030	70	.00	.00	.00	817.		
1	0500	11	.10	.10	.00	0.	*	2	1100	71	.00	.00	.00	792.		
1	0530	12	.09	.09	.00	0.	*	2	1130	72	.00	.00	.00	767.		
1	0600	13	.11	.11	.00	1.	*	2	1200	73	.00	.00	.00	740.		
1	0630	14	.12	.12	.01	12.	*	2	1230	74	.00	.00	.00	712.		
1	0700	15	.14	.12	.02	39.	*	2	1300	75	.00	.00	.00	687.		
1	0730	16	.14	.12	.02	90.	*	2	1330	76	.00	.00	.00	666.		
1	0800	17	.17	.13	.04	186.	*	2	1400	77	.00	.00	.00	646.		
1	0830	18	.21	.15	.06	345.	*	2	1430	78	.00	.00	.00	624.		
1	0900	19	.23	.15	.08	570.	*	2	1500	79	.00	.00	.00	600.		
1	0930	20	.27	.16	.11	882.	*	2	1530	80	.00	.00	.00	577.		
1	1000	21	.30	.16	.14	1291.	*	2	1600	81	.00	.00	.00	557.		
1	1030	22	.21	.10	.11	1706.	*	2	1630	82	.00	.00	.00	539.		
1	1100	23	.28	.12	.15	2211.	*	2	1700	83	.00	.00	.00	520.		
1	1130	24	.26	.11	.16	2715.	*	2	1730	84	.00	.00	.00	500.		
1	1200	25	.24	.09	.15	3154.	*	2	1800	85	.00	.00	.00	482.		
1	1230	26	.35	.12	.23	3639.	*	2	1830	86	.00	.00	.00	466.		
1	1300	27	.39	.12	.27	4248.	*	2	1900	87	.00	.00	.00	452.		
1	1330	28	.47	.13	.34	4968.	*	2	1930	88	.00	.00	.00	436.		
1	1400	29	.32	.08	.24	5644.	*	2	2000	89	.00	.00	.00	419.		
1	1430	30	.37	.08	.28	6518.	*	2	2030	90	.00	.00	.00	402.		
1	1500	31	.35	.07	.29	7308.	*	2	2100	91	.00	.00	.00	383.		
1	1530	32	.32	.06	.26	7876.	*	2	2130	92	.00	.00	.00	364.		

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1	1600	33	.26	.05	.22	8126.	*	2	2200	93	.00	.00	.00	346.
1	1630	34	.06	.01	.05	8134.	*	2	2230	94	.00	.00	.00	332.
1	1700	35	.04	.01	.03	7897.	*	2	2300	95	.00	.00	.00	319.
1	1730	36	.07	.01	.06	7378.	*	2	2330	96	.00	.00	.00	307.
1	1800	37	.06	.01	.05	6592.	*	3	0000	97	.00	.00	.00	292.
1	1830	38	.06	.01	.05	5693.	*	3	0030	98	.00	.00	.00	273.
1	1900	39	.03	.01	.03	5053.	*	3	0100	99	.00	.00	.00	252.
1	1930	40	.05	.01	.04	4618.	*	3	0130	100	.00	.00	.00	234.
1	2000	41	.03	.01	.03	4234.	*	3	0200	101	.00	.00	.00	216.
1	2030	42	.04	.01	.04	3938.	*	3	0230	102	.00	.00	.00	198.
1	2100	43	.03	.01	.03	3700.	*	3	0300	103	.00	.00	.00	181.
1	2130	44	.03	.01	.03	3506.	*	3	0330	104	.00	.00	.00	167.
1	2200	45	.03	.01	.03	3298.	*	3	0400	105	.00	.00	.00	160.
1	2230	46	.03	.01	.03	3143.	*	3	0430	106	.00	.00	.00	157.
1	2300	47	.03	.00	.02	2993.	*	3	0500	107	.00	.00	.00	153.
1	2330	48	.03	.00	.02	2857.	*	3	0530	108	.00	.00	.00	149.
2	0000	49	.03	.00	.02	2734.	*	3	0600	109	.00	.00	.00	145.
2	0030	50	.00	.00	.00	2570.	*	3	0630	110	.00	.00	.00	143.
2	0100	51	.00	.00	.00	2414.	*	3	0700	111	.00	.00	.00	141.
2	0130	52	.00	.00	.00	2257.	*	3	0730	112	.00	.00	.00	139.
2	0200	53	.00	.00	.00	2073.	*	3	0800	113	.00	.00	.00	137.
2	0230	54	.00	.00	.00	1871.	*	3	0830	114	.00	.00	.00	135.
2	0300	55	.00	.00	.00	1708.	*	3	0900	115	.00	.00	.00	133.
2	0330	56	.00	.00	.00	1585.	*	3	0930	116	.00	.00	.00	131.
2	0400	57	.00	.00	.00	1472.	*	3	1000	117	.00	.00	.00	128.
2	0430	58	.00	.00	.00	1376.	*	3	1030	118	.00	.00	.00	125.
2	0500	59	.00	.00	.00	1298.	*	3	1100	119	.00	.00	.00	122.
2	0530	60	.00	.00	.00	1224.	*	3	1130	120	.00	.00	.00	118.

TOTAL RAINFALL = 6.93, TOTAL LOSS = 3.19, TOTAL EXCESS = 3.74

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
8134.	16.50	6751.	3397.	1550.	1550.	
		(INCHES)	1.630	3.282	3.712	3.712
		(AC-FT)	3348.	6739.	7623.	7623.

CUMULATIVE AREA = 38.50 SQ MI

763 KK

* Node45 *
* *

765 KO

OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL
IPLT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

766 HC

HYDROGRAPH COMBINATION

ICOMP 6 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node45
SUM OF 6 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	0000	1	0.	*	1	1500	31	54267.	*	2	0600	61	10560.	*	2	2100	91	1820.					
1	0030	2	0.	*	1	1530	32	60700.	*	2	0630	62	9689.	*	2	2130	92	1736.					
1	0100	3	0.	*	1	1600	33	65573.	*	2	0700	63	8973.	*	2	2200	93	1658.					
1	0130	4	0.	*	1	1630	34	68534.	*	2	0730	64	8438.	*	2	2230	94	1585.					
1	0200	5	0.	*	1	1700	35	68516.	*	2	0800	65	7934.	*	2	2300	95	1514.					
1	0230	6	0.	*	1	1730	36	67039.	*	2	0830	66	7466.	*	2	2330	96	1439.					
1	0300	7	0.	*	1	1800	37	64472.	*	2	0900	67	7045.	*	3	0000	97	1361.					
1	0330	8	0.	*	1	1830	38	61468.	*	2	0930	68	6662.	*	3	0030	98	1285.					
1	0400	9	0.	*	1	1900	39	57297.	*	2	1000	69	6276.	*	3	0100	99	1213.					
1	0430	10	0.	*	1	1930	40	52182.	*	2	1030	70	5911.	*	3	0130	100	1150.					
1	0500	11	0.	*	1	2000	41	48035.	*	2	1100	71	5559.	*	3	0200	101	1088.					

42.ohl

1	0530	12	0.	*	1	2030	42	45056.	*	2	1130	72	5249.	*	3	0230	102	1025.
1	0600	13	7.	*	1	2100	43	42416.	*	2	1200	73	4954.	*	3	0300	103	966.
1	0630	14	38.	*	1	2130	44	39030.	*	2	1230	74	4662.	*	3	0330	104	911.
1	0700	15	116.	*	1	2200	45	35296.	*	2	1300	75	4388.	*	3	0400	105	865.
1	0730	16	282.	*	1	2230	46	32030.	*	2	1330	76	4124.	*	3	0430	106	821.
1	0800	17	624.	*	1	2300	47	29758.	*	2	1400	77	3880.	*	3	0500	107	777.
1	0830	18	1259.	*	1	2330	48	28199.	*	2	1430	78	3630.	*	3	0530	108	735.
1	0900	19	2311.	*	2	0000	49	26455.	*	2	1500	79	3395.	*	3	0600	109	696.
1	0930	20	3907.	*	2	0030	50	24915.	*	2	1530	80	3180.	*	3	0630	110	663.
1	1000	21	6089.	*	2	0100	51	23422.	*	2	1600	81	2981.	*	3	0700	111	632.
1	1030	22	8998.	*	2	0130	52	21871.	*	2	1630	82	2796.	*	3	0730	112	602.
1	1100	23	12785.	*	2	0200	53	20263.	*	2	1700	83	2626.	*	3	0800	113	572.
1	1130	24	16798.	*	2	0230	54	18695.	*	2	1730	84	2490.	*	3	0830	114	544.
1	1200	25	21013.	*	2	0300	55	17232.	*	2	1800	85	2378.	*	3	0900	115	517.
1	1230	26	25391.	*	2	0330	56	15756.	*	2	1830	86	2278.	*	3	0930	116	490.
1	1300	27	30005.	*	2	0400	57	14474.	*	2	1900	87	2181.	*	3	1000	117	465.
1	1330	28	35180.	*	2	0430	58	13293.	*	2	1930	88	2083.	*	3	1030	118	442.
1	1400	29	41193.	*	2	0500	59	12317.	*	2	2000	89	1991.	*	3	1100	119	424.
1	1430	30	47825.	*	2	0530	60	11439.	*	2	2030	90	1905.	*	3	1130	120	409.

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)					
68534.	16.50		59544.	30253.	13174.	13174.	
		(INCHES)	1.748	3.553	3.836	3.836	
		(AC-FT)	29526.	60006.	64781.	64781.	

CUMULATIVE AREA = 316.62 SQ MI

767 KK

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*      *
*      *
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769 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

770 RS

STORAGE ROUTING

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NSTPS      1  NUMBER OF SUBREACHES
ITYP       STOR TYPE OF INITIAL CONDITION
RSVRIC    28985.00 INITIAL CONDITION
X          .00 WORKING R AND D COEFFICIENT

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771 SV

STORAGE

.0	51000.0	52100.0	53200.0	54300.0	55400.0	56500.0	62571.0	65000.0
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772 SQ

DISCHARGE

0.	1.	1000.	3500.	7000.	11000.	16000.	50000.	67500.
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HYDROGRAPH AT STATION Vail

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1	0000	1	1.	28985.00	*	1	2000	41	39181.	60639.09	*	2	1600	81	5110.	53705.92	
1	0030	2	1.	28984.98	*	1	2030	42	40708.	60911.87	*	2	1630	82	4836.	53619.79	
1	0100	3	1.	28984.95	*	1	2100	43	41336.	61024.02	*	2	1700	83	4574.	53537.41	
1	0130	4	1.	28984.93	*	1	2130	44	41209.	61001.32	*	2	1730	84	4325.	53459.26	
1	0200	5	1.	28984.91	*	1	2200	45	40370.	60851.46	*	2	1800	85	4092.	53385.93	
1	0230	6	1.	28984.88	*	1	2230	46	38979.	60603.04	*	2	1830	86	3874.	53317.54	
1	0300	7	1.	28984.86	*	1	2300	47	37302.	60303.60	*	2	1900	87	3671.	53253.76	
1	0330	8	1.	28984.84	*	1	2330	48	35575.	59995.34	*	2	1930	88	3486.	53193.97	
1	0400	9	1.	28984.81	*	2	0000	49	33864.	59689.86	*	2	2000	89	3356.	53136.78	
1	0430	10	1.	28984.79	*	2	0030	50	32168.	59386.92	*	2	2030	90	3230.	53081.20	
1	0500	11	1.	28984.77	*	2	0100	51	30509.	59090.65	*	2	2100	91	3107.	53027.23	
1	0530	12	1.	28984.75	*	2	0130	52	28878.	58799.46	*	2	2130	92	2988.	52974.77	
1	0600	13	1.	28984.88	*	2	0200	53	27258.	58510.18	*	2	2200	93	2872.	52923.81	
1	0630	14	1.	28985.79	*	2	0230	54	25644.	58222.08	*	2	2230	94	2760.	52874.43	

42.oh1

1	0700	15	1.	28988.94	*	2	0300	55	24051.	57937.59	*	2	2300	95	2651.	52826.65
1	0730	16	1.	28997.15	*	2	0330	56	22484.	57657.71	*	2	2330	96	2546.	52780.27
1	0800	17	1.	29015.85	*	2	0400	57	20955.	57384.80	*	3	0000	97	2443.	52735.04
1	0830	18	1.	29054.72	*	2	0430	58	19488.	57122.89	*	3	0030	98	2343.	52690.81
1	0900	19	1.	29128.46	*	2	0500	59	18102.	56875.36	*	3	0100	99	2245.	52647.65
1	0930	20	1.	29256.92	*	2	0530	60	16811.	56644.83	*	3	0130	100	2149.	52605.70
1	1000	21	1.	29463.45	*	2	0600	61	15674.	56428.18	*	3	0200	101	2057.	52565.03
1	1030	22	1.	29775.14	*	2	0630	62	14721.	56218.57	*	3	0230	102	1967.	52525.55
1	1100	23	1.	30225.18	*	2	0700	63	13795.	56014.98	*	3	0300	103	1880.	52487.21
1	1130	24	1.	30836.37	*	2	0730	64	12921.	55822.72	*	3	0330	104	1796.	52450.06
1	1200	25	1.	31617.56	*	2	0800	65	12108.	55643.86	*	3	0400	105	1714.	52414.25
1	1230	26	1.	32576.29	*	2	0830	66	11351.	55477.33	*	3	0430	106	1636.	52379.84
1	1300	27	1.	33720.80	*	2	0900	67	10714.	55321.24	*	3	0500	107	1561.	52346.80
1	1330	28	1.	35067.56	*	2	0930	68	10174.	55172.88	*	3	0530	108	1489.	52315.04
1	1400	29	1.	36645.49	*	2	1000	69	9656.	55030.47	*	3	0600	109	1419.	52284.51
1	1430	30	1.	38484.69	*	2	1030	70	9158.	54893.55	*	3	0630	110	1353.	52255.30
1	1500	31	1.	40594.00	*	2	1100	71	8680.	54761.97	*	3	0700	111	1290.	52227.45
1	1530	32	1.	42969.31	*	2	1130	72	8222.	54636.05	*	3	0730	112	1229.	52200.88
1	1600	33	1.	45578.20	*	2	1200	73	7786.	54516.12	*	3	0800	113	1172.	52175.51
1	1630	34	1.	48348.96	*	2	1230	74	7370.	54401.66	*	3	0830	114	1117.	52151.29
1	1700	35	162.	51177.21	*	2	1300	75	6975.	54292.26	*	3	0900	115	1064.	52128.18
1	1730	36	5597.	53858.96	*	2	1330	76	6640.	54186.83	*	3	0930	116	1014.	52106.07
1	1800	37	14462.	56161.69	*	2	1400	77	6314.	54084.55	*	3	1000	117	986.	52084.49
1	1830	38	24204.	57964.85	*	2	1430	78	5999.	53985.30	*	3	1030	118	966.	52062.89
1	1900	39	31500.	59267.75	*	2	1500	79	5692.	53888.91	*	3	1100	119	947.	52041.27
1	1930	40	36321.	60128.43	*	2	1530	80	5395.	53795.68	*	3	1130	120	927.	52019.78

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	
(CFS)	(HR)			24-HR	72-HR
+					59.50-HR
+	41336.	21.00	37335.	19379.	8490.
		(INCHES)	1.096	2.276	2.472
		(AC-FT)	18513.	38437.	41746.

PEAK STORAGE	TIME		6-HR	MAXIMUM AVERAGE STORAGE	
(AC-FT)	(HR)			24-HR	72-HR
+					59.50-HR
+	61024.	21.00	60310.	56860.	48508.

CUMULATIVE AREA = 316.62 SQ MI

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773 KK *****
* *
* 5 *
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775 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

776 RD MUSKINGUM-CUNGE CHANNEL ROUTING
L 60984. CHANNEL LENGTH
S .0066 SLOPE
N .040 CHANNEL ROUGHNESS COEFFICIENT
CA .00 CONTRIBUTING AREA
SHAPE TRAP CHANNEL SHAPE
WD 380.00 BOTTOM WIDTH OR DIAMETER
Z 2.00 SIDE SLOPE

COMPUTED MUSKINGUM-CUNGE PARAMETERS							
COMPUTATION TIME STEP							
ELEMENT	ALPHA	M	DT	DX	PEAK	TIME TO PEAK	VOLUME
			(MIN)	(FT)	(CFS)	(MIN)	(IN)
MAIN	.06	1.65	30.00	15246.00	41474.30	1320.00	2.47
							15.50

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN .06 1.65 30.00 41474.30 1320.00 2.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4177E+05 EXCESS= .0000E+00 OUTFLOW= .4168E+05 BASIN STORAGE= .4856E+03 PERCENT ERROR= -1.0

HYDROGRAPH AT STATION 5

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	1.	*	1		1500	31	1.	*	2		0600	61	18490.	*	2		2100	91	3694.
1		0030	2	1.	*	1		1530	32	1.	*	2		0630	62	17254.	*	2		2130	92	3511.
1		0100	3	1.	*	1		1600	33	1.	*	2		0700	63	16127.	*	2		2200	93	3377.
1		0130	4	1.	*	1		1630	34	1.	*	2		0730	64	15139.	*	2		2230	94	3251.
1		0200	5	1.	*	1		1700	35	1.	*	2		0800	65	14275.	*	2		2300	95	3130.
1		0230	6	1.	*	1		1730	36	1.	*	2		0830	66	13445.	*	2		2330	96	3012.
1		0300	7	1.	*	1		1800	37	1.	*	2		0900	67	12627.	*	3		0000	97	2897.
1		0330	8	1.	*	1		1830	38	1.	*	2		0930	68	11895.	*	3		0030	98	2786.
1		0400	9	1.	*	1		1900	39	117.	*	2		1000	69	11210.	*	3		0100	99	2678.
1		0430	10	1.	*	1		1930	40	21278.	*	2		1030	70	10616.	*	3		0130	100	2574.
1		0500	11	1.	*	1		2000	41	34750.	*	2		1100	71	10114.	*	3		0200	101	2472.
1		0530	12	1.	*	1		2030	42	36177.	*	2		1130	72	9637.	*	3		0230	102	2373.
1		0600	13	1.	*	1		2100	43	40405.	*	2		1200	73	9163.	*	3		0300	103	2276.
1		0630	14	1.	*	1		2130	44	40751.	*	2		1230	74	8715.	*	3		0330	104	2181.
1		0700	15	1.	*	1		2200	45	41474.	*	2		1300	75	8283.	*	3		0400	105	2090.
1		0730	16	1.	*	1		2230	46	40961.	*	2		1330	76	7871.	*	3		0430	106	2001.
1		0800	17	1.	*	1		2300	47	40017.	*	2		1400	77	7478.	*	3		0500	107	1914.
1		0830	18	1.	*	1		2330	48	38531.	*	2		1430	78	7106.	*	3		0530	108	1831.
1		0900	19	1.	*	2		0000	49	36866.	*	2		1500	79	6763.	*	3		0600	109	1750.
1		0930	20	1.	*	2		0030	50	35179.	*	2		1530	80	6464.	*	3		0630	110	1672.
1		1000	21	1.	*	2		0100	51	33532.	*	2		1600	81	6163.	*	3		0700	111	1597.
1		1030	22	1.	*	2		0130	52	31907.	*	2		1630	82	5872.	*	3		0730	112	1525.
1		1100	23	1.	*	2		0200	53	30306.	*	2		1700	83	5591.	*	3		0800	113	1456.
1		1130	24	1.	*	2		0230	54	28744.	*	2		1730	84	5319.	*	3		0830	114	1389.
1		1200	25	1.	*	2		0300	55	27196.	*	2		1800	85	5057.	*	3		0900	115	1326.
1		1230	26	1.	*	2		0330	56	25657.	*	2		1830	86	4806.	*	3		0930	116	1265.
1		1300	27	1.	*	2		0400	57	24139.	*	2		1900	87	4565.	*	3		1000	117	1207.
1		1330	28	1.	*	2		0430	58	22652.	*	2		1930	88	4337.	*	3		1030	118	1152.
1		1400	29	1.	*	2		0500	59	21206.	*	2		2000	89	4109.	*	3		1100	119	1099.
1		1430	30	1.	*	2		0530	60	19811.	*	2		2030	90	3894.	*	3		1130	120	1048.
					*						*						*					

PEAK FLOW TIME
+ (CFS) (HR)
+ 41474. 22.00
(CFS)
(INCHES) 37361. 19362. 8471. 8471.
(AC-FT) 18526. 38403. 41656. 41656.

CUMULATIVE AREA = 316.62 SQ MI

777 KK

* Node28 *

779 KO

OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

783 IN

TIME DATA FOR INPUT TIME SERIES

JXMIN 15 TIME INTERVAL IN MINUTES
JXDATE 1 0 STARTING DATE
JXTIME 0 STARTING TIME
UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH

SUBBASIN RUNOFF DATA

780 BA

SUBBASIN CHARACTERISTICS

TAREA 29.36 SUBBASIN AREA

PRECIPITATION DATA

782 PB STORM 4.85 BASIN TOTAL PRECIPITATION

784 PI INCREMENTAL PRECIPITATION PATTERN

.02	.03	.03	.03	.04	.05	.05	.05	.06	.07
.06	.08	.09	.10	.10	.12	.15	.16	.19	.21
.15	.19	.18	.17	.25	.28	.33	.22	.26	.25
.23	.18	.04	.03	.05	.04	.04	.03	.03	.03
.03	.03	.03	.03	.03	.02	.02	.02		

794 LS SCS LOSS RATE
 STRTL .74 INITIAL ABSTRACTION
 CRVNBR 73.00 CURVE NUMBER
 RTIMP .00 PERCENT IMPERVIOUS AREA

795 UI INPUT UNITGRAPH, 63 ORDINATES, VOLUME = 1.00

569.0	708.0	896.0	1244.0	1333.0	1996.0	2569.0	4002.0	5982.0	2612.0
2173.0	1323.0	1269.0	1220.0	1045.0	831.0	776.0	735.0	648.0	610.0
538.0	477.0	427.0	398.0	388.0	331.0	316.0	282.0	231.0	231.0
219.0	138.0	138.0	138.0	138.0	138.0	71.0	29.0	29.0	29.0
29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
29.4	29.4	3.3							

HYDROGRAPH AT STATION Node28

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*	2	0600	61	.00	.00	.00	.00	447.	
1	0030	2	.02	.02	.00	0.	*	2	0630	62	.00	.00	.00	.00	398.	
1	0100	3	.03	.03	.00	0.	*	2	0700	63	.00	.00	.00	.00	348.	
1	0130	4	.03	.03	.00	0.	*	2	0730	64	.00	.00	.00	.00	300.	
1	0200	5	.03	.03	.00	0.	*	2	0800	65	.00	.00	.00	.00	266.	
1	0230	6	.04	.04	.00	0.	*	2	0830	66	.00	.00	.00	.00	236.	
1	0300	7	.05	.05	.00	0.	*	2	0900	67	.00	.00	.00	.00	204.	
1	0330	8	.05	.05	.00	0.	*	2	0930	68	.00	.00	.00	.00	175.	
1	0400	9	.05	.05	.00	0.	*	2	1000	69	.00	.00	.00	.00	150.	
1	0430	10	.06	.06	.00	0.	*	2	1030	70	.00	.00	.00	.00	135.	
1	0500	11	.07	.07	.00	0.	*	2	1100	71	.00	.00	.00	.00	126.	
1	0530	12	.06	.06	.00	0.	*	2	1130	72	.00	.00	.00	.00	117.	
1	0600	13	.08	.08	.00	0.	*	2	1200	73	.00	.00	.00	.00	108.	
1	0630	14	.09	.09	.00	0.	*	2	1230	74	.00	.00	.00	.00	101.	
1	0700	15	.10	.10	.00	0.	*	2	1300	75	.00	.00	.00	.00	95.	
1	0730	16	.10	.10	.00	3.	*	2	1330	76	.00	.00	.00	.00	89.	
1	0800	17	.12	.11	.01	10.	*	2	1400	77	.00	.00	.00	.00	84.	
1	0830	18	.15	.12	.02	25.	*	2	1430	78	.00	.00	.00	.00	80.	
1	0900	19	.16	.13	.03	52.	*	2	1500	79	.00	.00	.00	.00	76.	
1	0930	20	.19	.14	.05	95.	*	2	1530	80	.00	.00	.00	.00	73.	
1	1000	21	.21	.14	.07	161.	*	2	1600	81	.00	.00	.00	.00	69.	
1	1030	22	.15	.09	.06	237.	*	2	1630	82	.00	.00	.00	.00	66.	
1	1100	23	.19	.11	.08	355.	*	2	1700	83	.00	.00	.00	.00	62.	
1	1130	24	.18	.10	.09	516.	*	2	1730	84	.00	.00	.00	.00	59.	
1	1200	25	.17	.08	.09	713.	*	2	1800	85	.00	.00	.00	.00	55.	
1	1230	26	.25	.11	.13	981.	*	2	1830	86	.00	.00	.00	.00	51.	
1	1300	27	.28	.12	.16	1282.	*	2	1900	87	.00	.00	.00	.00	49.	
1	1330	28	.33	.12	.21	1640.	*	2	1930	88	.00	.00	.00	.00	45.	
1	1400	29	.22	.08	.15	1952.	*	2	2000	89	.00	.00	.00	.00	41.	
1	1430	30	.26	.08	.17	2223.	*	2	2030	90	.00	.00	.00	.00	35.	
1	1500	31	.25	.07	.17	2614.	*	2	2100	91	.00	.00	.00	.00	30.	
1	1530	32	.23	.06	.16	2935.	*	2	2130	92	.00	.00	.00	.00	25.	
1	1600	33	.18	.05	.14	3337.	*	2	2200	93	.00	.00	.00	.00	20.	
1	1630	34	.04	.01	.03	3769.	*	2	2230	94	.00	.00	.00	.00	15.	
1	1700	35	.03	.01	.02	4102.	*	2	2300	95	.00	.00	.00	.00	11.	
1	1730	36	.05	.01	.04	4310.	*	2	2330	96	.00	.00	.00	.00	10.	
1	1800	37	.04	.01	.03	4186.	*	3	0000	97	.00	.00	.00	.00	9.	
1	1830	38	.04	.01	.03	4222.	*	3	0030	98	.00	.00	.00	.00	8.	
1	1900	39	.02	.01	.02	4038.	*	3	0100	99	.00	.00	.00	.00	7.	
1	1930	40	.03	.01	.03	3756.	*	3	0130	100	.00	.00	.00	.00	6.	
1	2000	41	.02	.01	.02	3250.	*	3	0200	101	.00	.00	.00	.00	6.	
1	2030	42	.03	.01	.02	2610.	*	3	0230	102	.00	.00	.00	.00	5.	
1	2100	43	.02	.01	.02	2347.	*	3	0300	103	.00	.00	.00	.00	4.	
1	2130	44	.02	.01	.02	2186.	*	3	0330	104	.00	.00	.00	.00	4.	
1	2200	45	.02	.01	.02	2049.	*	3	0400	105	.00	.00	.00	.00	3.	
1	2230	46	.02	.01	.02	1899.	*	3	0430	106	.00	.00	.00	.00	3.	
1	2300	47	.02	.00	.02	1747.	*	3	0500	107	.00	.00	.00	.00	2.	
1	2330	48	.02	.00	.02	1649.	*	3	0530	108	.00	.00	.00	.00	1.	
2	0000	49	.02	.00	.02	1546.	*	3	0600	109	.00	.00	.00	.00	1.	
2	0030	50	.00	.00	.00	1468.	*	3	0630	110	.00	.00	.00	.00	1.	
2	0100	51	.00	.00	.00	1363.	*	3	0700	111	.00	.00	.00	.00	0.	
2	0130	52	.00	.00	.00	1279.	*	3	0730	112	.00	.00	.00	.00	0.	
2	0200	53	.00	.00	.00	1189.	*	3	0800	113	.00	.00	.00	.00	0.	
2	0230	54	.00	.00	.00	1103.	*	3	0830	114	.00	.00	.00	.00	0.	
2	0300	55	.00	.00	.00	1002.	*	3	0900	115	.00	.00	.00	.00	0.	

42.ohl

2	0330	56	.00	.00	.00	909.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	797.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	656.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	572.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	501.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 4.85, TOTAL LOSS = 2.69, TOTAL EXCESS = 2.16

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
4310.	17.50		3583.	1663.	689.	689.
		(INCHES)	1.135	2.106	2.163	2.163
		(AC-FT)	1777.	3298.	3386.	3386.

CUMULATIVE AREA = 29.36 SQ MI

803 KK

* Node30 *

805 KO

OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

809 IN

TIME DATA FOR INPUT TIME SERIES

JXMIN 15 TIME INTERVAL IN MINUTES
JXDATE 1 0 STARTING DATE
JXTIME 0 STARTING TIME
UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

806 BA

SUBBASIN CHARACTERISTICS

TAREA 16.19 SUBBASIN AREA

PRECIPITATION DATA

808 PB

STORM 7.04 BASIN TOTAL PRECIPITATION

810 PI

INCREMENTAL PRECIPITATION PATTERN

.04	.05	.04	.05	.06	.07	.07	.08	.09	.11
.09	.11	.13	.14	.15	.18	.21	.23	.27	.30
.21	.28	.27	.25	.36	.40	.48	.32	.37	.36
.33	.27	.06	.04	.07	.06	.06	.03	.05	.03
.04	.03	.03	.03	.03	.03	.03	.03		

820 LS

SCS LOSS RATE

STRTL .87 INITIAL ABSTRACTION
CRVNBR 69.60 CURVE NUMBER
RTIMP .00 PERCENT IMPERVIOUS AREA

821 UI

INPUT UNITGRAPH, 93 ORDINATES, VOLUME = 1.00

681.0	926.0	1473.0	2175.0	2292.0	1564.0	1189.0	938.0	682.0	586.0
562.0	474.0	436.0	394.0	367.0	353.0	293.0	273.0	262.0	244.0
227.0	209.0	203.0	195.0	182.0	159.0	159.0	138.0	130.0	130.0
122.0	115.0	115.0	115.0	104.0	103.0	103.0	103.0	92.0	90.0
90.2	90.2	87.5	76.2	76.2	76.2	76.2	76.2	63.3	58.1
58.1	58.1	58.1	58.1	58.1	49.9	42.2	42.2	42.2	42.2
42.2	42.2	42.2	42.2	42.2	25.6	15.4	15.4	15.4	15.4
15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
15.4	15.4	9.1							

HYDROGRAPH AT STATION Node30

42.oh1

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	2		0600	61	.00	.00	.00	463.
1		0030	2	.04	.04	.00	0.	*	2		0630	62	.00	.00	.00	443.
1		0100	3	.05	.05	.00	0.	*	2		0700	63	.00	.00	.00	425.
1		0130	4	.04	.04	.00	0.	*	2		0730	64	.00	.00	.00	407.
1		0200	5	.05	.05	.00	0.	*	2		0800	65	.00	.00	.00	391.
1		0230	6	.06	.06	.00	0.	*	2		0830	66	.00	.00	.00	376.
1		0300	7	.07	.07	.00	0.	*	2		0900	67	.00	.00	.00	362.
1		0330	8	.07	.07	.00	0.	*	2		0930	68	.00	.00	.00	349.
1		0400	9	.08	.08	.00	0.	*	2		1000	69	.00	.00	.00	336.
1		0430	10	.09	.09	.00	0.	*	2		1030	70	.00	.00	.00	323.
1		0500	11	.11	.11	.00	0.	*	2		1100	71	.00	.00	.00	310.
1		0530	12	.09	.09	.00	0.	*	2		1130	72	.00	.00	.00	299.
1		0600	13	.11	.11	.00	0.	*	2		1200	73	.00	.00	.00	289.
1		0630	14	.13	.12	.00	2.	*	2		1230	74	.00	.00	.00	278.
1		0700	15	.14	.13	.01	9.	*	2		1300	75	.00	.00	.00	266.
1		0730	16	.15	.13	.02	26.	*	2		1330	76	.00	.00	.00	254.
1		0800	17	.18	.14	.03	60.	*	2		1400	77	.00	.00	.00	245.
1		0830	18	.21	.16	.05	122.	*	2		1430	78	.00	.00	.00	237.
1		0900	19	.23	.16	.07	215.	*	2		1500	79	.00	.00	.00	228.
1		0930	20	.28	.17	.10	348.	*	2		1530	80	.00	.00	.00	219.
1		1000	21	.30	.17	.13	525.	*	2		1600	81	.00	.00	.00	210.
1		1030	22	.21	.11	.10	705.	*	2		1630	82	.00	.00	.00	202.
1		1100	23	.28	.14	.15	924.	*	2		1700	83	.00	.00	.00	195.
1		1130	24	.27	.12	.15	1136.	*	2		1730	84	.00	.00	.00	187.
1		1200	25	.25	.10	.15	1314.	*	2		1800	85	.00	.00	.00	178.
1		1230	26	.36	.13	.22	1530.	*	2		1830	86	.00	.00	.00	169.
1		1300	27	.40	.14	.27	1794.	*	2		1900	87	.00	.00	.00	161.
1		1330	28	.48	.14	.33	2113.	*	2		1930	88	.00	.00	.00	152.
1		1400	29	.32	.09	.24	2434.	*	2		2000	89	.00	.00	.00	145.
1		1430	30	.37	.09	.28	2827.	*	2		2030	90	.00	.00	.00	140.
1		1500	31	.36	.08	.28	3156.	*	2		2100	91	.00	.00	.00	133.
1		1530	32	.33	.07	.26	3367.	*	2		2130	92	.00	.00	.00	125.
1		1600	33	.27	.05	.21	3473.	*	2		2200	93	.00	.00	.00	115.
1		1630	34	.06	.01	.05	3455.	*	2		2230	94	.00	.00	.00	107.
1		1700	35	.04	.01	.03	3318.	*	2		2300	95	.00	.00	.00	98.
1		1730	36	.07	.01	.06	3050.	*	2		2330	96	.00	.00	.00	90.
1		1800	37	.06	.01	.05	2662.	*	3		0000	97	.00	.00	.00	82.
1		1830	38	.06	.01	.05	2284.	*	3		0030	98	.00	.00	.00	75.
1		1900	39	.04	.01	.03	2033.	*	3		0100	99	.00	.00	.00	72.
1		1930	40	.05	.01	.04	1867.	*	3		0130	100	.00	.00	.00	70.
1		2000	41	.04	.01	.03	1719.	*	3		0200	101	.00	.00	.00	69.
1		2030	42	.04	.01	.03	1606.	*	3		0230	102	.00	.00	.00	67.
1		2100	43	.04	.01	.03	1507.	*	3		0300	103	.00	.00	.00	65.
1		2130	44	.04	.01	.03	1415.	*	3		0330	104	.00	.00	.00	64.
1		2200	45	.04	.01	.03	1340.	*	3		0400	105	.00	.00	.00	63.
1		2230	46	.04	.01	.03	1276.	*	3		0430	106	.00	.00	.00	62.
1		2300	47	.03	.00	.02	1213.	*	3		0500	107	.00	.00	.00	61.
1		2330	48	.03	.00	.02	1155.	*	3		0530	108	.00	.00	.00	60.
2		0000	49	.03	.00	.02	1102.	*	3		0600	109	.00	.00	.00	59.
2		0030	50	.00	.00	.00	1040.	*	3		0630	110	.00	.00	.00	57.
2		0100	51	.00	.00	.00	974.	*	3		0700	111	.00	.00	.00	55.
2		0130	52	.00	.00	.00	901.	*	3		0730	112	.00	.00	.00	54.
2		0200	53	.00	.00	.00	816.	*	3		0800	113	.00	.00	.00	51.
2		0230	54	.00	.00	.00	734.	*	3		0830	114	.00	.00	.00	49.
2		0300	55	.00	.00	.00	671.	*	3		0900	115	.00	.00	.00	47.
2		0330	56	.00	.00	.00	620.	*	3		0930	116	.00	.00	.00	44.
2		0400	57	.00	.00	.00	576.	*	3		1000	117	.00	.00	.00	42.
2		0430	58	.00	.00	.00	541.	*	3		1030	118	.00	.00	.00	39.
2		0500	59	.00	.00	.00	512.	*	3		1100	119	.00	.00	.00	36.
2		0530	60	.00	.00	.00	486.	*	3		1130	120	.00	.00	.00	31.

TOTAL RAINFALL = 7.04, TOTAL LOSS = 3.43, TOTAL EXCESS = 3.61

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)				
+	3473.	16.00	(CFS)			
			2838.	1404.	632.	632.
		(INCHES)	1.630	3.225	3.600	3.600
		(AC-FT)	1407.	2785.	3108.	3108.

CUMULATIVE AREA = 16.19 SQ MI

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832 KK

* Node43 *

834 KO

OUTPUT CONTROL VARIABLES

IPRNT 0 PRINT CONTROL

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IPLLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

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835 HC      HYDROGRAPH COMBINATION
            ICOMP      3  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node43
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	0000	1	1.	*	1	1500	31	5770.	*	2	0600	61	19400.	*	2	2100	91	3857.	
1	0030	2	1.	*	1	1530	32	6302.	*	2	0630	62	18095.	*	2	2130	92	3661.	
1	0100	3	1.	*	1	1600	33	6811.	*	2	0700	63	16900.	*	2	2200	93	3511.	
1	0130	4	1.	*	1	1630	34	7225.	*	2	0730	64	15846.	*	2	2230	94	3373.	
1	0200	5	1.	*	1	1700	35	7421.	*	2	0800	65	14932.	*	2	2300	95	3239.	
1	0230	6	1.	*	1	1730	36	7361.	*	2	0830	66	14057.	*	2	2330	96	3112.	
1	0300	7	1.	*	1	1800	37	6849.	*	2	0900	67	13193.	*	3	0000	97	2988.	
1	0330	8	1.	*	1	1830	38	6507.	*	2	0930	68	12419.	*	3	0030	98	2869.	
1	0400	9	1.	*	1	1900	39	6187.	*	2	1000	69	11696.	*	3	0100	99	2757.	
1	0430	10	1.	*	1	1930	40	26901.	*	2	1030	70	11073.	*	3	0130	100	2651.	
1	0500	11	1.	*	1	2000	41	39719.	*	2	1100	71	10549.	*	3	0200	101	2547.	
1	0530	12	1.	*	1	2030	42	40393.	*	2	1130	72	10053.	*	3	0230	102	2445.	
1	0600	13	1.	*	1	2100	43	44260.	*	2	1200	73	9561.	*	3	0300	103	2345.	
1	0630	14	2.	*	1	2130	44	44352.	*	2	1230	74	9094.	*	3	0330	104	2249.	
1	0700	15	10.	*	1	2200	45	44863.	*	2	1300	75	8644.	*	3	0400	105	2156.	
1	0730	16	29.	*	1	2230	46	44136.	*	2	1330	76	8214.	*	3	0430	106	2065.	
1	0800	17	71.	*	1	2300	47	42977.	*	2	1400	77	7808.	*	3	0500	107	1977.	
1	0830	18	148.	*	1	2330	48	41335.	*	2	1430	78	7423.	*	3	0530	108	1892.	
1	0900	19	267.	*	2	0000	49	39514.	*	2	1500	79	7067.	*	3	0600	109	1809.	
1	0930	20	444.	*	2	0030	50	37687.	*	2	1530	80	6755.	*	3	0630	110	1730.	
1	1000	21	686.	*	2	0100	51	35869.	*	2	1600	81	6442.	*	3	0700	111	1652.	
1	1030	22	943.	*	2	0130	52	34087.	*	2	1630	82	6141.	*	3	0730	112	1578.	
1	1100	23	1280.	*	2	0200	53	32311.	*	2	1700	83	5847.	*	3	0800	113	1507.	
1	1130	24	1653.	*	2	0230	54	30580.	*	2	1730	84	5564.	*	3	0830	114	1438.	
1	1200	25	2028.	*	2	0300	55	28869.	*	2	1800	85	5290.	*	3	0900	115	1372.	
1	1230	26	2512.	*	2	0330	56	27186.	*	2	1830	86	5026.	*	3	0930	116	1309.	
1	1300	27	3076.	*	2	0400	57	25512.	*	2	1900	87	4775.	*	3	1000	117	1249.	
1	1330	28	3754.	*	2	0430	58	23849.	*	2	1930	88	4534.	*	3	1030	118	1191.	
1	1400	29	4387.	*	2	0500	59	22290.	*	2	2000	89	4294.	*	3	1100	119	1134.	
1	1430	30	5050.	*	2	0530	60	20798.	*	2	2030	90	4069.	*	3	1130	120	1079.	

PEAK FLOW	TIME	6-HR	24-HR	72-HR	59.50-HR
+	(CFS)				
+	44863.	22.00	40467.	21009.	9792.
	(INCHES)		1.039	2.157	2.493
	(AC-FT)		20066.	41671.	48150.

CUMULATIVE AREA = 362.17 SQ MI

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836 KK      4
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838 KO      OUTPUT CONTROL VARIABLES
            IPRNT      0  PRINT CONTROL
            IPLLOT     0  PLOT CONTROL
            QSCAL      0.  HYDROGRAPH PLOT SCALE
            IPNCH      0  PUNCH COMPUTED HYDROGRAPH
            IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
            TIMINT     .500 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

42.ohl

839 RD

MUSKINGUM-CUNGE CHANNEL ROUTING
 L 4435. CHANNEL LENGTH
 S .0044 SLOPE
 N .035 CHANNEL ROUGHNESS COEFFICIENT
 CA .00 CONTRIBUTING AREA
 SHAPE TRAP CHANNEL SHAPE
 WD 115.00 BOTTOM WIDTH OR DIAMETER
 Z 2.50 SIDE SLOPE

 COMPUTED MUSKINGUM-CUNGE PARAMETERS
 COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	.15	1.61	3.34	2217.50	44827.87	1321.75	2.49	22.15

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.15	1.61	30.00		44809.28	1320.00	2.49	
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .4815E+05 EXCESS= .0000E+00 OUTFLOW= .4814E+05 BASIN STORAGE= .2539E+02 PERCENT ERROR= .0

HYDROGRAPH AT STATION 4

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	1.	*	1	1500	31	5634.	*	2	0600	61	19564.	*	2	2100	91	3903.	
1	0030	2	1.	*	1	1530	32	6206.	*	2	0630	62	18253.	*	2	2130	92	3704.	
1	0100	3	1.	*	1	1600	33	6721.	*	2	0700	63	17048.	*	2	2200	93	3545.	
1	0130	4	1.	*	1	1630	34	7154.	*	2	0730	64	15980.	*	2	2230	94	3404.	
1	0200	5	1.	*	1	1700	35	7387.	*	2	0800	65	15051.	*	2	2300	95	3270.	
1	0230	6	1.	*	1	1730	36	7370.	*	2	0830	66	14173.	*	2	2330	96	3142.	
1	0300	7	1.	*	1	1800	37	6938.	*	2	0900	67	13310.	*	3	0000	97	3018.	
1	0330	8	1.	*	1	1830	38	6568.	*	2	0930	68	12526.	*	3	0030	98	2898.	
1	0400	9	1.	*	1	1900	39	6274.	*	2	1000	69	11799.	*	3	0100	99	2785.	
1	0430	10	1.	*	1	1930	40	24617.	*	2	1030	70	11164.	*	3	0130	100	2677.	
1	0500	11	1.	*	1	2000	41	38462.	*	2	1100	71	10627.	*	3	0200	101	2573.	
1	0530	12	1.	*	1	2030	42	40358.	*	2	1130	72	10128.	*	3	0230	102	2471.	
1	0600	13	1.	*	1	2100	43	43895.	*	2	1200	73	9637.	*	3	0300	103	2371.	
1	0630	14	1.	*	1	2130	44	44348.	*	2	1230	74	9167.	*	3	0330	104	2275.	
1	0700	15	7.	*	1	2200	45	44809.	*	2	1300	75	8716.	*	3	0400	105	2181.	
1	0730	16	22.	*	1	2230	46	44195.	*	2	1330	76	8284.	*	3	0430	106	2090.	
1	0800	17	56.	*	1	2300	47	43073.	*	2	1400	77	7876.	*	3	0500	107	2001.	
1	0830	18	123.	*	1	2330	48	41478.	*	2	1430	78	7488.	*	3	0530	108	1915.	
1	0900	19	230.	*	2	0000	49	39677.	*	2	1500	79	7129.	*	3	0600	109	1832.	
1	0930	20	391.	*	2	0030	50	37854.	*	2	1530	80	6810.	*	3	0630	110	1752.	
1	1000	21	615.	*	2	0100	51	36038.	*	2	1600	81	6498.	*	3	0700	111	1674.	
1	1030	22	870.	*	2	0130	52	34256.	*	2	1630	82	6195.	*	3	0730	112	1599.	
1	1100	23	1185.	*	2	0200	53	32483.	*	2	1700	83	5901.	*	3	0800	113	1527.	
1	1130	24	1549.	*	2	0230	54	30751.	*	2	1730	84	5617.	*	3	0830	114	1457.	
1	1200	25	1925.	*	2	0300	55	29041.	*	2	1800	85	5342.	*	3	0900	115	1391.	
1	1230	26	2386.	*	2	0330	56	27360.	*	2	1830	86	5078.	*	3	0930	116	1327.	
1	1300	27	2940.	*	2	0400	57	25689.	*	2	1900	87	4825.	*	3	1000	117	1266.	
1	1330	28	3603.	*	2	0430	58	24030.	*	2	1930	88	4583.	*	3	1030	118	1207.	
1	1400	29	4254.	*	2	0500	59	22463.	*	2	2000	89	4344.	*	3	1100	119	1150.	
1	1430	30	4919.	*	2	0530	60	20968.	*	2	2030	90	4117.	*	3	1130	120	1098.	

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	59.50-HR
44809.	22.00	40455.	21018.	9793.	9793.
(INCHES)		1.039	2.158	2.493	2.493
(AC-FT)		20060.	41689.	48155.	48155.

CUMULATIVE AREA = 362.17 SQ MI

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840 KK

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 * Node11 *
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842 KO OUTPUT CONTROL VARIABLES
 IPRNT 0 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
 ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
 TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

846 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

843 BA SUBBASIN CHARACTERISTICS
 TAREA 1.88 SUBBASIN AREA

PRECIPITATION DATA

845 PB STORM 7.37 BASIN TOTAL PRECIPITATION

847 PI INCREMENTAL PRECIPITATION PATTERN
 .04 .05 .04 .05 .06 .07 .07 .08 .10 .11
 .10 .12 .13 .15 .15 .18 .22 .24 .29 .32
 .22 .29 .28 .26 .38 .42 .50 .34 .39 .38
 .35 .28 .06 .04 .07 .07 .06 .04 .05 .04
 .04 .04 .04 .04 .04 .03 .03 .03

857 LS SCS LOSS RATE
 STRTL .48 INITIAL ABSTRACTION
 CRVNBR 80.80 CURVE NUMBER
 RTIMP .00 PERCENT IMPERVIOUS AREA

858 UI INPUT UNITGRAPH, 18 ORDINATES, VOLUME = 1.00
 922.0 558.0 258.0 161.0 115.0 82.0 66.0 57.0 48.0 38.0
 31.9 25.5 18.5 9.3 9.3 9.3 9.3 7.4

HYDROGRAPH AT STATION Node11

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*	2	0600	61	.00	.00	.00	2.		
1	0030	2	.04	.04	.00	0.	*	2	0630	62	.00	.00	.00	1.		
1	0100	3	.05	.05	.00	0.	*	2	0700	63	.00	.00	.00	1.		
1	0130	4	.04	.04	.00	0.	*	2	0730	64	.00	.00	.00	1.		
1	0200	5	.05	.05	.00	0.	*	2	0800	65	.00	.00	.00	0.		
1	0230	6	.06	.06	.00	0.	*	2	0830	66	.00	.00	.00	0.		
1	0300	7	.07	.07	.00	0.	*	2	0900	67	.00	.00	.00	0.		
1	0330	8	.07	.07	.00	0.	*	2	0930	68	.00	.00	.00	0.		
1	0400	9	.08	.08	.00	0.	*	2	1000	69	.00	.00	.00	0.		
1	0430	10	.10	.09	.00	3.	*	2	1030	70	.00	.00	.00	0.		
1	0500	11	.11	.10	.01	13.	*	2	1100	71	.00	.00	.00	0.		
1	0530	12	.10	.08	.02	24.	*	2	1130	72	.00	.00	.00	0.		
1	0600	13	.12	.09	.03	40.	*	2	1200	73	.00	.00	.00	0.		
1	0630	14	.13	.09	.04	60.	*	2	1230	74	.00	.00	.00	0.		
1	0700	15	.15	.09	.05	85.	*	2	1300	75	.00	.00	.00	0.		
1	0730	16	.15	.09	.07	110.	*	2	1330	76	.00	.00	.00	0.		
1	0800	17	.18	.09	.09	146.	*	2	1400	77	.00	.00	.00	0.		
1	0830	18	.22	.10	.12	196.	*	2	1430	78	.00	.00	.00	0.		
1	0900	19	.24	.10	.15	249.	*	2	1500	79	.00	.00	.00	0.		
1	0930	20	.29	.10	.19	317.	*	2	1530	80	.00	.00	.00	0.		
1	1000	21	.32	.10	.22	389.	*	2	1600	81	.00	.00	.00	0.		
1	1030	22	.22	.06	.16	377.	*	2	1630	82	.00	.00	.00	0.		
1	1100	23	.29	.07	.22	426.	*	2	1700	83	.00	.00	.00	0.		
1	1130	24	.28	.06	.22	459.	*	2	1730	84	.00	.00	.00	0.		
1	1200	25	.26	.05	.21	466.	*	2	1800	85	.00	.00	.00	0.		
1	1230	26	.38	.06	.31	567.	*	2	1830	86	.00	.00	.00	0.		
1	1300	27	.42	.06	.36	674.	*	2	1900	87	.00	.00	.00	0.		
1	1330	28	.50	.07	.44	805.	*	2	1930	88	.00	.00	.00	0.		
1	1400	29	.34	.04	.30	758.	*	2	2000	89	.00	.00	.00	0.		
1	1430	30	.39	.04	.35	771.	*	2	2030	90	.00	.00	.00	0.		
1	1500	31	.38	.04	.34	785.	*	2	2100	91	.00	.00	.00	0.		
1	1530	32	.35	.03	.32	771.	*	2	2130	92	.00	.00	.00	0.		
1	1600	33	.28	.02	.26	710.	*	2	2200	93	.00	.00	.00	0.		
1	1630	34	.06	.00	.05	489.	*	2	2230	94	.00	.00	.00	0.		
1	1700	35	.04	.00	.04	350.	*	2	2300	95	.00	.00	.00	0.		
1	1730	36	.07	.01	.07	308.	*	2	2330	96	.00	.00	.00	0.		
1	1800	37	.07	.00	.06	275.	*	3	0000	97	.00	.00	.00	0.		
1	1830	38	.06	.00	.05	242.	*	3	0030	98	.00	.00	.00	0.		

42.ohl

1	1900	39	.04	.00	.03	200.	*	3	0100	99	.00	.00	.00	0.
1	1930	40	.05	.00	.05	183.	*	3	0130	100	.00	.00	.00	0.
1	2000	41	.04	.00	.03	158.	*	3	0200	101	.00	.00	.00	0.
1	2030	42	.04	.00	.04	145.	*	3	0230	102	.00	.00	.00	0.
1	2100	43	.04	.00	.03	130.	*	3	0300	103	.00	.00	.00	0.
1	2130	44	.04	.00	.03	117.	*	3	0330	104	.00	.00	.00	0.
1	2200	45	.04	.00	.03	108.	*	3	0400	105	.00	.00	.00	0.
1	2230	46	.04	.00	.03	101.	*	3	0430	106	.00	.00	.00	0.
1	2300	47	.03	.00	.03	92.	*	3	0500	107	.00	.00	.00	0.
1	2330	48	.03	.00	.03	84.	*	3	0530	108	.00	.00	.00	0.
2	0000	49	.03	.00	.03	79.	*	3	0600	109	.00	.00	.00	0.
2	0030	50	.00	.00	.00	49.	*	3	0630	110	.00	.00	.00	0.
2	0100	51	.00	.00	.00	31.	*	3	0700	111	.00	.00	.00	0.
2	0130	52	.00	.00	.00	23.	*	3	0730	112	.00	.00	.00	0.
2	0200	53	.00	.00	.00	17.	*	3	0800	113	.00	.00	.00	0.
2	0230	54	.00	.00	.00	13.	*	3	0830	114	.00	.00	.00	0.
2	0300	55	.00	.00	.00	11.	*	3	0900	115	.00	.00	.00	0.
2	0330	56	.00	.00	.00	8.	*	3	0930	116	.00	.00	.00	0.
2	0400	57	.00	.00	.00	7.	*	3	1000	117	.00	.00	.00	0.
2	0430	58	.00	.00	.00	5.	*	3	1030	118	.00	.00	.00	0.
2	0500	59	.00	.00	.00	4.	*	3	1100	119	.00	.00	.00	0.
2	0530	60	.00	.00	.00	3.	*	3	1130	120	.00	.00	.00	0.

TOTAL RAINFALL = 7.37, TOTAL LOSS = 2.24, TOTAL EXCESS = 5.13

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
805.	13.50		637.	259.	105.	105.
		(INCHES)	3.149	5.119	5.126	5.126
		(AC-FT)	316.	513.	514.	514.

CUMULATIVE AREA = 1.88 SQ MI

861 KK

*
* Node72 *
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863 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLST	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

864 HC

HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node72
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	0000	1	1.	*	1	1500	31	6419.	*	2	0600	61	19566.	*	2	2100	91	3903.											
1	0030	2	1.	*	1	1530	32	6976.	*	2	0630	62	18254.	*	2	2130	92	3704.											
1	0100	3	1.	*	1	1600	33	7431.	*	2	0700	63	17049.	*	2	2200	93	3545.											
1	0130	4	1.	*	1	1630	34	7643.	*	2	0730	64	15980.	*	2	2230	94	3404.											
1	0200	5	1.	*	1	1700	35	7737.	*	2	0800	65	15051.	*	2	2300	95	3270.											
1	0230	6	1.	*	1	1730	36	7678.	*	2	0830	66	14173.	*	2	2330	96	3142.											
1	0300	7	1.	*	1	1800	37	7213.	*	2	0900	67	13310.	*	3	0000	97	3018.											
1	0330	8	1.	*	1	1830	38	6809.	*	2	0930	68	12526.	*	3	0030	98	2898.											
1	0400	9	1.	*	1	1900	39	6473.	*	2	1000	69	11799.	*	3	0100	99	2785.											
1	0430	10	4.	*	1	1930	40	24799.	*	2	1030	70	11164.	*	3	0130	100	2677.											
1	0500	11	14.	*	1	2000	41	38620.	*	2	1100	71	10627.	*	3	0200	101	2573.											
1	0530	12	24.	*	1	2030	42	40503.	*	2	1130	72	10128.	*	3	0230	102	2471.											
1	0600	13	40.	*	1	2100	43	44025.	*	2	1200	73	9637.	*	3	0300	103	2371.											
1	0630	14	62.	*	1	2130	44	44465.	*	2	1230	74	9167.	*	3	0330	104	2275.											
1	0700	15	92.	*	1	2200	45	44917.	*	2	1300	75	8716.	*	3	0400	105	2181.											
1	0730	16	133.	*	1	2230	46	44296.	*	2	1330	76	8284.	*	3	0430	106	2090.											
1	0800	17	203.	*	1	2300	47	43165.	*	2	1400	77	7876.	*	3	0500	107	2001.											

42.ohl

1	0830	18	319.	*	1	2330	48	41563.	*	2	1430	78	7488.	*	3	0530	108	1915.
1	0900	19	478.	*	2	0000	49	39756.	*	2	1500	79	7129.	*	3	0600	109	1832.
1	0930	20	707.	*	2	0030	50	37903.	*	2	1530	80	6810.	*	3	0630	110	1752.
1	1000	21	1004.	*	2	0100	51	36069.	*	2	1600	81	6498.	*	3	0700	111	1674.
1	1030	22	1247.	*	2	0130	52	34279.	*	2	1630	82	6195.	*	3	0730	112	1599.
1	1100	23	1611.	*	2	0200	53	32500.	*	2	1700	83	5901.	*	3	0800	113	1527.
1	1130	24	2008.	*	2	0230	54	30765.	*	2	1730	84	5617.	*	3	0830	114	1457.
1	1200	25	2391.	*	2	0300	55	29052.	*	2	1800	85	5342.	*	3	0900	115	1391.
1	1230	26	2953.	*	2	0330	56	27368.	*	2	1830	86	5078.	*	3	0930	116	1327.
1	1300	27	3614.	*	2	0400	57	25696.	*	2	1900	87	4825.	*	3	1000	117	1266.
1	1330	28	4408.	*	2	0430	58	24035.	*	2	1930	88	4583.	*	3	1030	118	1207.
1	1400	29	5012.	*	2	0500	59	22467.	*	2	2000	89	4344.	*	3	1100	119	1150.
1	1430	30	5690.	*	2	0530	60	20971.	*	2	2030	90	4117.	*	3	1130	120	1098.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)			
44917.	22.00	40542.	21104.	9897.	9897.
		(INCHES)	1.035	2.156	2.507
		(AC-FT)	20103.	41860.	48669.

CUMULATIVE AREA = 364.05 SQ MI

865 KK

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*   Node41                       *
*                               *
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867 KO

OUTPUT CONTROL VARIABLES

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IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

```

868 HC

HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node41
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	0000	1	1.	*	1	1500	31	35653.	*	2	0600	61	23727.	*	2	2100	91	4885.					
1	0030	2	1.	*	1	1530	32	39623.	*	2	0630	62	22181.	*	2	2130	92	4651.					
1	0100	3	1.	*	1	1600	33	42975.	*	2	0700	63	20768.	*	2	2200	93	4457.					
1	0130	4	1.	*	1	1630	34	44812.	*	2	0730	64	19505.	*	2	2230	94	4283.					
1	0200	5	1.	*	1	1700	35	44807.	*	2	0800	65	18389.	*	2	2300	95	4117.					
1	0230	6	1.	*	1	1730	36	43314.	*	2	0830	66	17335.	*	2	2330	96	3958.					
1	0300	7	1.	*	1	1800	37	40609.	*	2	0900	67	16306.	*	3	0000	97	3805.					
1	0330	8	1.	*	1	1830	38	37591.	*	2	0930	68	15358.	*	3	0030	98	3658.					
1	0400	9	1.	*	1	1900	39	34369.	*	2	1000	69	14471.	*	3	0100	99	3519.					
1	0430	10	5.	*	1	1930	40	49627.	*	2	1030	70	13687.	*	3	0130	100	3388.					
1	0500	11	18.	*	1	2000	41	60763.	*	2	1100	71	13012.	*	3	0200	101	3261.					
1	0530	12	40.	*	1	2030	42	60628.	*	2	1130	72	12386.	*	3	0230	102	3137.					
1	0600	13	84.	*	1	2100	43	62513.	*	2	1200	73	11778.	*	3	0300	103	3015.					
1	0630	14	158.	*	1	2130	44	61416.	*	2	1230	74	11200.	*	3	0330	104	2896.					
1	0700	15	272.	*	1	2200	45	60382.	*	2	1300	75	10647.	*	3	0400	105	2780.					
1	0730	16	448.	*	1	2230	46	58382.	*	2	1330	76	10119.	*	3	0430	106	2667.					
1	0800	17	737.	*	1	2300	47	56028.	*	2	1400	77	9620.	*	3	0500	107	2558.					
1	0830	18	1206.	*	1	2330	48	53370.	*	2	1430	78	9148.	*	3	0530	108	2451.					
1	0900	19	1905.	*	2	0000	49	50676.	*	2	1500	79	8711.	*	3	0600	109	2349.					
1	0930	20	2943.	*	2	0030	50	48056.	*	2	1530	80	8320.	*	3	0630	110	2250.					
1	1000	21	4483.	*	2	0100	51	45527.	*	2	1600	81	7939.	*	3	0700	111	2156.					
1	1030	22	6405.	*	2	0130	52	43010.	*	2	1630	82	7571.	*	3	0730	112	2067.					
1	1100	23	8834.	*	2	0200	53	40455.	*	2	1700	83	7217.	*	3	0800	113	1982.					
1	1130	24	11448.	*	2	0230	54	38011.	*	2	1730	84	6880.	*	3	0830	114	1901.					
1	1200	25	14062.	*	2	0300	55	35683.	*	2	1800	85	6559.	*	3	0900	115	1825.					
1	1230	26	16926.	*	2	0330	56	33444.	*	2	1830	86	6251.	*	3	0930	116	1753.					
1	1300	27	19929.	*	2	0400	57	31248.	*	2	1900	87	5957.	*	3	1000	117	1683.					
1	1330	28	23326.	*	2	0430	58	29125.	*	2	1930	88	5675.	*	3	1030	118	1616.					

42.ohl

1	1400	29	27028.	*	2	0500	59	27184.	*	2	2000	89	5398.	*	3	1100	119	1551.
1	1430	30	31312.	*	2	0530	60	25389.	*	2	2030	90	5134.	*	3	1130	120	1491.

```

*****
PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)      6-HR      24-HR      72-HR      59.50-HR
+ 62513.      21.00      (CFS)
                        (INCHES) 55338.    34873.    16327.    16327.
                        (AC-FT)  .873     2.201    2.554    2.554
                        27440.    69170.    80284.    80284.

```

CUMULATIVE AREA = 589.32 SQ MI

869 KK

```

*****
*          *
*    3    *
*          *
*****

```

871 KO

OUTPUT CONTROL VARIABLES

```

IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

```

HYDROGRAPH ROUTING DATA

872 RD

MUSKINGUM-CUNGE CHANNEL ROUTING

```

L      50424.  CHANNEL LENGTH
S      .0119  SLOPE
N      .030   CHANNEL ROUGHNESS COEFFICIENT
CA      .00   CONTRIBUTING AREA
SHAPE   TRAP  CHANNEL SHAPE
WD     100.00 BOTTOM WIDTH OR DIAMETER
Z       2.00  SIDE SLOPE

```

COMPUTED MUSKINGUM-CUNGE PARAMETERS

```

*****
COMPUTATION TIME STEP
ELEMENT  ALPHA  M      DT      DX      PEAK  TIME TO  VOLUME  MAXIMUM
              (MIN) (FT)  (CFS)  PEAK  (IN)  CELERITY
              (MIN) (FPS)
MAIN      .30   1.62   21.07  25212.00  62922.52  1285.04  2.55  39.89

```

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

```

MAIN      .30   1.62   30.00   62526.12  1290.00  2.55

```

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8029E+05 EXCESS= .0000E+00 OUTFLOW= .8018E+05 BASIN STORAGE= .2283E+03 PERCENT ERROR= -.2

HYDROGRAPH AT STATION 3

```

*****
DA MON HRMN  ORD  FLOW  *  DA MON HRMN  ORD  FLOW  *  DA MON HRMN  ORD  FLOW  *  DA MON HRMN  ORD  FLOW
1  0000  1  1.  *  1  1500  31  32657.  *  2  0600  61  24999.  *  2  2100  91  5237.
1  0030  2  1.  *  1  1530  32  36991.  *  2  0630  62  23403.  *  2  2130  92  4987.
1  0100  3  1.  *  1  1600  33  40810.  *  2  0700  63  21909.  *  2  2200  93  4750.
1  0130  4  1.  *  1  1630  34  43703.  *  2  0730  64  20557.  *  2  2230  94  4540.
1  0200  5  1.  *  1  1700  35  44842.  *  2  0800  65  19339.  *  2  2300  95  4358.
1  0230  6  1.  *  1  1730  36  44143.  *  2  0830  66  18246.  *  2  2330  96  4190.
1  0300  7  1.  *  1  1800  37  42353.  *  2  0900  67  17215.  *  3  0000  97  4029.
1  0330  8  1.  *  1  1830  38  39505.  *  2  0930  68  16219.  *  3  0030  98  3874.
1  0400  9  1.  *  1  1900  39  36690.  *  2  1000  69  15297.  *  3  0100  99  3725.
1  0430  10  1.  *  1  1930  40  39804.  *  2  1030  70  14437.  *  3  0130  100  3583.
1  0500  11  2.  *  1  2000  41  55662.  *  2  1100  71  13674.  *  3  0200  101  3449.
1  0530  12  7.  *  1  2030  42  60995.  *  2  1130  72  13006.  *  3  0230  102  3321.
1  0600  13  18.  *  1  2100  43  60854.  *  2  1200  73  12387.  *  3  0300  103  3196.
1  0630  14  44.  *  1  2130  44  62526.  *  2  1230  74  11793.  *  3  0330  104  3074.

```

42.ohl

1	0700	15	92.	*	1	2200	45	60867.	*	2	1300	75	11224.	*	3	0400	105	2954.
1	0730	16	178.	*	1	2230	46	59527.	*	2	1330	76	10682.	*	3	0430	106	2837.
1	0800	17	313.	*	1	2300	47	57334.	*	2	1400	77	10163.	*	3	0500	107	2723.
1	0830	18	542.	*	1	2330	48	54877.	*	2	1430	78	9671.	*	3	0530	108	2613.
1	0900	19	915.	*	2	0000	49	52236.	*	2	1500	79	9208.	*	3	0600	109	2506.
1	0930	20	1512.	*	2	0030	50	49601.	*	2	1530	80	8775.	*	3	0630	110	2402.
1	1000	21	2424.	*	2	0100	51	47044.	*	2	1600	81	8383.	*	3	0700	111	2302.
1	1030	22	3797.	*	2	0130	52	44554.	*	2	1630	82	8008.	*	3	0730	112	2206.
1	1100	23	5779.	*	2	0200	53	42056.	*	2	1700	83	7645.	*	3	0800	113	2115.
1	1130	24	8459.	*	2	0230	54	39581.	*	2	1730	84	7297.	*	3	0830	114	2028.
1	1200	25	11356.	*	2	0300	55	37219.	*	2	1800	85	6963.	*	3	0900	115	1946.
1	1230	26	14242.	*	2	0330	56	34948.	*	2	1830	86	6645.	*	3	0930	116	1867.
1	1300	27	17301.	*	2	0400	57	32766.	*	2	1900	87	6341.	*	3	1000	117	1794.
1	1330	28	20546.	*	2	0430	58	30629.	*	2	1930	88	6050.	*	3	1030	118	1723.
1	1400	29	24190.	*	2	0500	59	28601.	*	2	2000	89	5771.	*	3	1100	119	1655.
1	1430	30	26187.	*	2	0530	60	26734.	*	2	2030	90	5499.	*	3	1130	120	1610.

PEAK FLOW (CFS)	TIME (HR)	6-HR (CFS)	24-HR (CFS)	72-HR (CFS)	59.50-HR (CFS)
62526.	21.50	55309.	34891.	16316.	16316.
		.873	2.202	2.553	2.553
		(AC-FT) 27426.	69204.	80232.	80232.

CUMULATIVE AREA = 589.32 SQ MI

873 KK

* Node16 *

875 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

879 IN

TIME DATA FOR INPUT TIME SERIES

JXMIN	15	TIME INTERVAL IN MINUTES
JXDATE	1	STARTING DATE
JXTIME	0	STARTING TIME
UHG FROM MOUNTAIN S-GRAPH		

SUBBASIN RUNOFF DATA

876 BA

SUBBASIN CHARACTERISTICS

TAREA	32.84	SUBBASIN AREA
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PRECIPITATION DATA

878 PB

STORM	6.23	BASIN TOTAL PRECIPITATION
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880 PI

INCREMENTAL PRECIPITATION PATTERN

.03	.04	.04	.04	.05	.06	.06	.07	.08	.09
.08	.10	.11	.12	.13	.16	.19	.21	.24	.27
.19	.25	.24	.22	.32	.36	.42	.29	.33	.32
.29	.24	.05	.04	.06	.06	.05	.03	.04	.03
.04	.03	.03	.03	.03	.02	.02	.02		

890 LS

SCS LOSS RATE

STRTL	.55	INITIAL ABSTRACTION
CRVNBR	78.30	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

891 UI

INPUT UNITGRAPH, 95 ORDINATES, VOLUME = 1.00

1357.0	1838.0	2858.0	4217.0	4714.0	3204.0	2431.0	1954.0	1431.0	1170.0
1157.0	960.0	884.0	810.0	731.0	731.0	596.0	560.0	532.0	493.0
477.0	418.0	415.0	390.0	390.0	320.0	316.0	301.0	260.0	260.0
260.0	229.0	229.0	229.0	222.0	205.0	205.0	205.0	201.0	180.0
180.0	180.0	180.0	166.0	152.0	152.0	152.0	152.0	152.0	119.0
116.0	116.0	116.0	116.0	116.0	116.0	97.0	84.0	84.0	84.0
84.2	84.2	84.2	84.2	84.2	84.2	55.9	30.6	30.6	30.6
30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
30.6	30.6	30.6	30.6	4.0					

HYDROGRAPH AT STATION Node16

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	2		0600	61	.00	.00	.00	968.
1		0030	2	.03	.03	.00	0.	*	2		0630	62	.00	.00	.00	927.
1		0100	3	.04	.04	.00	0.	*	2		0700	63	.00	.00	.00	888.
1		0130	4	.04	.04	.00	0.	*	2		0730	64	.00	.00	.00	853.
1		0200	5	.04	.04	.00	0.	*	2		0800	65	.00	.00	.00	820.
1		0230	6	.05	.05	.00	0.	*	2		0830	66	.00	.00	.00	791.
1		0300	7	.06	.06	.00	0.	*	2		0900	67	.00	.00	.00	760.
1		0330	8	.06	.06	.00	0.	*	2		0930	68	.00	.00	.00	733.
1		0400	9	.07	.07	.00	0.	*	2		1000	69	.00	.00	.00	708.
1		0430	10	.08	.08	.00	0.	*	2		1030	70	.00	.00	.00	680.
1		0500	11	.09	.09	.00	0.	*	2		1100	71	.00	.00	.00	654.
1		0530	12	.08	.08	.00	5.	*	2		1130	72	.00	.00	.00	629.
1		0600	13	.10	.09	.01	20.	*	2		1200	73	.00	.00	.00	608.
1		0630	14	.11	.09	.02	54.	*	2		1230	74	.00	.00	.00	587.
1		0700	15	.12	.10	.03	115.	*	2		1300	75	.00	.00	.00	565.
1		0730	16	.13	.09	.04	212.	*	2		1330	76	.00	.00	.00	541.
1		0800	17	.16	.10	.05	355.	*	2		1400	77	.00	.00	.00	517.
1		0830	18	.19	.11	.08	550.	*	2		1430	78	.00	.00	.00	501.
1		0900	19	.21	.11	.10	797.	*	2		1500	79	.00	.00	.00	483.
1		0930	20	.24	.12	.13	1120.	*	2		1530	80	.00	.00	.00	464.
1		1000	21	.27	.11	.15	1525.	*	2		1600	81	.00	.00	.00	446.
1		1030	22	.19	.07	.12	1917.	*	2		1630	82	.00	.00	.00	428.
1		1100	23	.25	.09	.16	2380.	*	2		1700	83	.00	.00	.00	413.
1		1130	24	.24	.07	.16	2813.	*	2		1730	84	.00	.00	.00	396.
1		1200	25	.22	.06	.16	3159.	*	2		1800	85	.00	.00	.00	379.
1		1230	26	.32	.08	.24	3559.	*	2		1830	86	.00	.00	.00	362.
1		1300	27	.36	.08	.27	4068.	*	2		1900	87	.00	.00	.00	343.
1		1330	28	.42	.09	.34	4673.	*	2		1930	88	.00	.00	.00	325.
1		1400	29	.29	.05	.23	5264.	*	2		2000	89	.00	.00	.00	308.
1		1430	30	.33	.05	.28	6011.	*	2		2030	90	.00	.00	.00	294.
1		1500	31	.32	.05	.27	6628.	*	2		2100	91	.00	.00	.00	283.
1		1530	32	.29	.04	.25	7011.	*	2		2130	92	.00	.00	.00	269.
1		1600	33	.24	.03	.21	7156.	*	2		2200	93	.00	.00	.00	252.
1		1630	34	.05	.01	.04	7087.	*	2		2230	94	.00	.00	.00	233.
1		1700	35	.04	.00	.03	6790.	*	2		2300	95	.00	.00	.00	216.
1		1730	36	.06	.01	.05	6253.	*	2		2330	96	.00	.00	.00	201.
1		1800	37	.06	.01	.05	5487.	*	3		0000	97	.00	.00	.00	184.
1		1830	38	.05	.01	.04	4718.	*	3		0030	98	.00	.00	.00	168.
1		1900	39	.03	.00	.03	4194.	*	3		0100	99	.00	.00	.00	155.
1		1930	40	.04	.01	.04	3851.	*	3		0130	100	.00	.00	.00	148.
1		2000	41	.03	.00	.03	3543.	*	3		0200	101	.00	.00	.00	145.
1		2030	42	.04	.00	.03	3303.	*	3		0230	102	.00	.00	.00	142.
1		2100	43	.03	.00	.03	3103.	*	3		0300	103	.00	.00	.00	138.
1		2130	44	.03	.00	.03	2912.	*	3		0330	104	.00	.00	.00	135.
1		2200	45	.03	.00	.03	2755.	*	3		0400	105	.00	.00	.00	132.
1		2230	46	.03	.00	.03	2621.	*	3		0430	106	.00	.00	.00	130.
1		2300	47	.02	.00	.02	2488.	*	3		0500	107	.00	.00	.00	128.
1		2330	48	.02	.00	.02	2370.	*	3		0530	108	.00	.00	.00	126.
2		0000	49	.02	.00	.02	2251.	*	3		0600	109	.00	.00	.00	124.
2		0030	50	.00	.00	.00	2128.	*	3		0630	110	.00	.00	.00	121.
2		0100	51	.00	.00	.00	1990.	*	3		0700	111	.00	.00	.00	118.
2		0130	52	.00	.00	.00	1847.	*	3		0730	112	.00	.00	.00	114.
2		0200	53	.00	.00	.00	1682.	*	3		0800	113	.00	.00	.00	110.
2		0230	54	.00	.00	.00	1517.	*	3		0830	114	.00	.00	.00	105.
2		0300	55	.00	.00	.00	1395.	*	3		0900	115	.00	.00	.00	99.
2		0330	56	.00	.00	.00	1290.	*	3		0930	116	.00	.00	.00	95.
2		0400	57	.00	.00	.00	1204.	*	3		1000	117	.00	.00	.00	90.
2		0430	58	.00	.00	.00	1129.	*	3		1030	118	.00	.00	.00	85.
2		0500	59	.00	.00	.00	1069.	*	3		1100	119	.00	.00	.00	81.
2		0530	60	.00	.00	.00	1017.	*	3		1130	120	.00	.00	.00	74.

TOTAL RAINFALL = 6.23, TOTAL LOSS = 2.42, TOTAL EXCESS = 3.81

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)	(CFS)			
+	7156.	16.00	5934.	2986.	1354.	1354.
		(INCHES)	1.680	3.381	3.801	3.801
		(AC-FT)	2943.	5922.	6658.	6658.

CUMULATIVE AREA = 32.84 SQ MI

*** **

902 KK

```

*****
*           *
*   Node21  *
*           *
*****

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904 KO

OUTPUT CONTROL VARIABLES

```

IPRNT      0  PRINT CONTROL
IPLOT      0  PLOT CONTROL
QSCAL      0.  HYDROGRAPH PLOT SCALE
IPNCH      0  PUNCH COMPUTED HYDROGRAPH
IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
TIMINT     .500 TIME INTERVAL IN HOURS

```

SANTA MARGARITA STORMS

908 IN

TIME DATA FOR INPUT TIME SERIES

```

JXMIN      15  TIME INTERVAL IN MINUTES
JXDATE     1   0  STARTING DATE
JXTIME     0   0  STARTING TIME
UHG FROM MOUNTAIN S-GRAPH

```

SUBBASIN RUNOFF DATA

905 BA.

SUBBASIN CHARACTERISTICS

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TAREA      21.59  SUBBASIN AREA

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PRECIPITATION DATA

907 PB

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STORM      4.76  BASIN TOTAL PRECIPITATION

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909 PI

INCREMENTAL PRECIPITATION PATTERN

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.02 .03 .03 .03 .04 .05 .05 .05 .06 .07
.06 .08 .09 .10 .10 .12 .14 .16 .19 .21
.14 .19 .18 .17 .24 .27 .32 .22 .25 .24
.22 .18 .04 .03 .05 .04 .04 .02 .03 .02
.03 .02 .02 .02 .02 .02 .02 .02 .02 .02

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919 LS

SCS LOSS RATE

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STRTL      .38  INITIAL ABSTRACTION
CRVNBR     83.90 CURVE NUMBER
RTIMP      .00  PERCENT IMPERVIOUS AREA

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920 UI

INPUT UNITGRAPH, 128 ORDINATES, VOLUME = 1.00

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638.0 785.0 1013.0 1415.0 1947.0 2552.0 1889.0 1501.0 1235.0 1102.0
867.0 706.0 566.0 553.0 553.0 472.0 437.0 414.0 389.0 354.0
354.0 343.0 283.0 278.0 257.0 257.0 236.0 236.0 214.0 202.0
202.0 190.0 189.0 189.0 155.0 153.0 153.0 144.0 126.0 126.0
126.0 126.0 113.0 111.0 111.0 111.0 111.0 101.0 99.0 99.0
99.3 99.3 96.1 87.1 87.1 87.1 87.1 87.1 87.1 75.3
73.5 73.5 73.5 73.5 73.5 73.5 68.5 56.1 56.1 56.1
56.1 56.1 56.1 56.1 56.1 56.1 50.7 40.7 40.7 40.7
40.7 40.7 40.7 40.7 40.7 40.7 40.7 40.7 40.7 40.7
23.2 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8
14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8
14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8
14.8 14.8 14.8 14.8 14.8 14.8 14.8 13.5 14.8 14.8

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HYDROGRAPH AT STATION Node21

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*****
DA MON HRMN ORD RAIN LOSS EXCESS COMP Q  *  DA MON HRMN ORD RAIN LOSS EXCESS COMP Q
*
1 0000 1 .00 .00 .00 0. * 2 0600 61 .00 .00 .00 576.
1 0030 2 .02 .02 .00 0. * 2 0630 62 .00 .00 .00 548.
1 0100 3 .03 .03 .00 0. * 2 0700 63 .00 .00 .00 524.
1 0130 4 .03 .03 .00 0. * 2 0730 64 .00 .00 .00 499.
1 0200 5 .03 .03 .00 0. * 2 0800 65 .00 .00 .00 475.
1 0230 6 .04 .04 .00 0. * 2 0830 66 .00 .00 .00 453.
1 0300 7 .05 .05 .00 0. * 2 0900 67 .00 .00 .00 433.
1 0330 8 .05 .05 .00 0. * 2 0930 68 .00 .00 .00 417.
1 0400 9 .05 .05 .00 0. * 2 1000 69 .00 .00 .00 402.
1 0430 10 .06 .06 .00 0. * 2 1030 70 .00 .00 .00 386.
1 0500 11 .07 .07 .00 1. * 2 1100 71 .00 .00 .00 373.
1 0530 12 .06 .06 .01 4. * 2 1130 72 .00 .00 .00 363.
1 0600 13 .08 .07 .01 12. * 2 1200 73 .00 .00 .00 353.
1 0630 14 .09 .07 .02 27. * 2 1230 74 .00 .00 .00 342.
1 0700 15 .10 .07 .03 52. * 2 1300 75 .00 .00 .00 332.
1 0730 16 .10 .07 .03 88. * 2 1330 76 .00 .00 .00 324.
1 0800 17 .12 .07 .05 144. * 2 1400 77 .00 .00 .00 316.
1 0830 18 .14 .08 .06 221. * 2 1430 78 .00 .00 .00 309.
1 0900 19 .16 .08 .08 320. * 2 1500 79 .00 .00 .00 300.
1 0930 20 .18 .08 .10 446. * 2 1530 80 .00 .00 .00 291.
1 1000 21 .20 .08 .13 602. * 2 1600 81 .00 .00 .00 284.

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42.ohl

1	1030	22	.14	.05	.09	758.	*	2	1630	82	.00	.00	.00	278.
1	1100	23	.19	.06	.13	951.	*	2	1700	83	.00	.00	.00	271.
1	1130	24	.18	.05	.13	1149.	*	2	1730	84	.00	.00	.00	264.
1	1200	25	.17	.04	.12	1340.	*	2	1800	85	.00	.00	.00	257.
1	1230	26	.24	.06	.19	1549.	*	2	1830	86	.00	.00	.00	250.
1	1300	27	.27	.06	.22	1746.	*	2	1900	87	.00	.00	.00	243.
1	1330	28	.32	.06	.27	2011.	*	2	1930	88	.00	.00	.00	238.
1	1400	29	.22	.03	.18	2228.	*	2	2000	89	.00	.00	.00	232.
1	1430	30	.25	.04	.22	2488.	*	2	2030	90	.00	.00	.00	226.
1	1500	31	.24	.03	.21	2789.	*	2	2100	91	.00	.00	.00	219.
1	1530	32	.22	.03	.20	3053.	*	2	2130	92	.00	.00	.00	214.
1	1600	33	.18	.02	.16	3238.	*	2	2200	93	.00	.00	.00	208.
1	1630	34	.04	.00	.03	3235.	*	2	2230	94	.00	.00	.00	203.
1	1700	35	.03	.00	.03	3222.	*	2	2300	95	.00	.00	.00	196.
1	1730	36	.05	.01	.04	3139.	*	2	2330	96	.00	.00	.00	191.
1	1800	37	.04	.00	.04	2964.	*	3	0000	97	.00	.00	.00	184.
1	1830	38	.04	.00	.03	2681.	*	3	0030	98	.00	.00	.00	179.
1	1900	39	.02	.00	.02	2346.	*	3	0100	99	.00	.00	.00	173.
1	1930	40	.03	.00	.03	2114.	*	3	0130	100	.00	.00	.00	168.
1	2000	41	.02	.00	.02	1949.	*	3	0200	101	.00	.00	.00	165.
1	2030	42	.03	.00	.03	1798.	*	3	0230	102	.00	.00	.00	162.
1	2100	43	.02	.00	.02	1656.	*	3	0300	103	.00	.00	.00	158.
1	2130	44	.02	.00	.02	1549.	*	3	0330	104	.00	.00	.00	153.
1	2200	45	.02	.00	.02	1473.	*	3	0400	105	.00	.00	.00	148.
1	2230	46	.02	.00	.02	1407.	*	3	0430	106	.00	.00	.00	143.
1	2300	47	.02	.00	.02	1344.	*	3	0500	107	.00	.00	.00	138.
1	2330	48	.02	.00	.02	1280.	*	3	0530	108	.00	.00	.00	133.
2	0000	49	.02	.00	.02	1228.	*	3	0600	109	.00	.00	.00	127.
2	0030	50	.00	.00	.00	1167.	*	3	0630	110	.00	.00	.00	123.
2	0100	51	.00	.00	.00	1111.	*	3	0700	111	.00	.00	.00	119.
2	0130	52	.00	.00	.00	1047.	*	3	0730	112	.00	.00	.00	115.
2	0200	53	.00	.00	.00	986.	*	3	0800	113	.00	.00	.00	111.
2	0230	54	.00	.00	.00	914.	*	3	0830	114	.00	.00	.00	107.
2	0300	55	.00	.00	.00	835.	*	3	0900	115	.00	.00	.00	103.
2	0330	56	.00	.00	.00	776.	*	3	0930	116	.00	.00	.00	98.
2	0400	57	.00	.00	.00	725.	*	3	1000	117	.00	.00	.00	92.
2	0430	58	.00	.00	.00	682.	*	3	1030	118	.00	.00	.00	85.
2	0500	59	.00	.00	.00	642.	*	3	1100	119	.00	.00	.00	80.
2	0530	60	.00	.00	.00	607.	*	3	1130	120	.00	.00	.00	74.

TOTAL RAINFALL = 4.76, TOTAL LOSS = 1.72, TOTAL EXCESS = 3.04

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
+						
+	3238.	16.00	2787.	1473.	697.	697.
		(INCHES)	1.200	2.538	2.978	2.978
		(AC-FT)	1382.	2922.	3429.	3429.

CUMULATIVE AREA = 21.59 SQ MI

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934 KK *****
* Node39 *
* *

936 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

937 HC HYDROGRAPH COMBINATION

ICOMP	3	NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node39
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
					*						*						*						*					

1	0000	1	1.	*	1	1500	31	42074.	*	2	0600	61	26543.	*	2	2100	91	5739.
1	0030	2	1.	*	1	1530	32	47055.	*	2	0630	62	24878.	*	2	2130	92	5470.
1	0100	3	1.	*	1	1600	33	51205.	*	2	0700	63	23321.	*	2	2200	93	5211.
1	0130	4	1.	*	1	1630	34	54025.	*	2	0730	64	21909.	*	2	2230	94	4976.
1	0200	5	1.	*	1	1700	35	54854.	*	2	0800	65	20634.	*	2	2300	95	4771.
1	0230	6	1.	*	1	1730	36	53535.	*	2	0830	66	19490.	*	2	2330	96	4581.
1	0300	7	1.	*	1	1800	37	50803.	*	2	0900	67	18408.	*	3	0000	97	4397.
1	0330	8	1.	*	1	1830	38	46905.	*	2	0930	68	17369.	*	3	0030	98	4221.
1	0400	9	1.	*	1	1900	39	43231.	*	2	1000	69	16407.	*	3	0100	99	4053.
1	0430	10	1.	*	1	1930	40	45769.	*	2	1030	70	15504.	*	3	0130	100	3899.
1	0500	11	3.	*	1	2000	41	61154.	*	2	1100	71	14702.	*	3	0200	101	3760.
1	0530	12	16.	*	1	2030	42	66095.	*	2	1130	72	13998.	*	3	0230	102	3625.
1	0600	13	51.	*	1	2100	43	65612.	*	2	1200	73	13349.	*	3	0300	103	3492.
1	0630	14	125.	*	1	2130	44	66987.	*	2	1230	74	12723.	*	3	0330	104	3361.
1	0700	15	258.	*	1	2200	45	65095.	*	2	1300	75	12120.	*	3	0400	105	3234.
1	0730	16	479.	*	1	2230	46	63556.	*	2	1330	76	11547.	*	3	0430	106	3110.
1	0800	17	812.	*	1	2300	47	61166.	*	2	1400	77	10997.	*	3	0500	107	2989.
1	0830	18	1312.	*	1	2330	48	58527.	*	2	1430	78	10481.	*	3	0530	108	2872.
1	0900	19	2031.	*	2	0000	49	55715.	*	2	1500	79	9991.	*	3	0600	109	2757.
1	0930	20	3079.	*	2	0030	50	52897.	*	2	1530	80	9530.	*	3	0630	110	2646.
1	1000	21	4552.	*	2	0100	51	50146.	*	2	1600	81	9113.	*	3	0700	111	2539.
1	1030	22	6473.	*	2	0130	52	47448.	*	2	1630	82	8714.	*	3	0730	112	2436.
1	1100	23	9110.	*	2	0200	53	44724.	*	2	1700	83	8329.	*	3	0800	113	2336.
1	1130	24	12421.	*	2	0230	54	42012.	*	2	1730	84	7957.	*	3	0830	114	2241.
1	1200	25	15855.	*	2	0300	55	39449.	*	2	1800	85	7600.	*	3	0900	115	2148.
1	1230	26	19350.	*	2	0330	56	37014.	*	2	1830	86	7257.	*	3	0930	116	2061.
1	1300	27	23115.	*	2	0400	57	34695.	*	2	1900	87	6927.	*	3	1000	117	1976.
1	1330	28	27230.	*	2	0430	58	32440.	*	2	1930	88	6612.	*	3	1030	118	1894.
1	1400	29	31683.	*	2	0500	59	30312.	*	2	2000	89	6310.	*	3	1100	119	1815.
1	1430	30	36685.	*	2	0530	60	28358.	*	2	2030	90	6018.	*	3	1130	120	1758.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	59.50-HR
66987.	21.50	59463.	39149.	18368.	18368.
		(INCHES)	.859	2.262	2.631
		(AC-FT)	29486.	77651.	90320.

CUMULATIVE AREA = 643.75 SQ MI

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938 KK

* 2 *

* *

940 KO

OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

941 RD

MUSKINGUM-CUNGE CHANNEL ROUTING

L	39283.	CHANNEL LENGTH
S	.0061	SLOPE
N	.040	CHANNEL ROUGHNESS COEFFICIENT
CA	.00	CONTRIBUTING AREA
SHAPE	TRAP	CHANNEL SHAPE
WD	100.00	BOTTOM WIDTH OR DIAMETER
Z	2.50	SIDE SLOPE

COMPUTED MUSKINGUM-CUNGE PARAMETERS

COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT	DX	PEAK	TIME TO PEAK	VOLUME	MAXIMUM CELERITY
			(MIN)	(FT)	(CFS)	(MIN)	(IN)	(FPS)
MAIN	.17	1.61	24.11	19641.50	66931.20	1253.67	2.63	27.16

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.17	1.61	30.00		66581.87	1260.00	2.63	
------	-----	------	-------	--	----------	---------	------	--

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9037E+05 EXCESS= .0000E+00 OUTFLOW= .9023E+05 BASIN STORAGE= .2916E+03 PERCENT ERROR= -.2

HYDROGRAPH AT STATION 2

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1		0000	1	1.	*	1		1500	31	37927.	*	2		0600	61	28120.	*	2		2100	91	6171.	*
1		0030	2	1.	*	1		1530	32	43363.	*	2		0630	62	26356.	*	2		2130	92	5893.	*
1		0100	3	1.	*	1		1600	33	48229.	*	2		0700	63	24729.	*	2		2200	93	5626.	*
1		0130	4	1.	*	1		1630	34	52131.	*	2		0730	64	23230.	*	2		2230	94	5368.	*
1		0200	5	1.	*	1		1700	35	54254.	*	2		0800	65	21861.	*	2		2300	95	5125.	*
1		0230	6	1.	*	1		1730	36	54253.	*	2		0830	66	20612.	*	2		2330	96	4906.	*
1		0300	7	1.	*	1		1800	37	52581.	*	2		0900	67	19478.	*	3		0000	97	4707.	*
1		0330	8	1.	*	1		1830	38	49632.	*	2		0930	68	18422.	*	3		0030	98	4520.	*
1		0400	9	1.	*	1		1900	39	46037.	*	2		1000	69	17413.	*	3		0100	99	4339.	*
1		0430	10	1.	*	1		1930	40	44789.	*	2		1030	70	16464.	*	3		0130	100	4167.	*
1		0500	11	1.	*	1		2000	41	51028.	*	2		1100	71	15580.	*	3		0200	101	4005.	*
1		0530	12	2.	*	1		2030	42	63065.	*	2		1130	72	14785.	*	3		0230	102	3857.	*
1		0600	13	4.	*	1		2100	43	66582.	*	2		1200	73	14085.	*	3		0300	103	3719.	*
1		0630	14	16.	*	1		2130	44	65970.	*	2		1230	74	13439.	*	3		0330	104	3585.	*
1		0700	15	48.	*	1		2200	45	66193.	*	2		1300	75	12821.	*	3		0400	105	3454.	*
1		0730	16	123.	*	1		2230	46	64497.	*	2		1330	76	12228.	*	3		0430	106	3325.	*
1		0800	17	264.	*	1		2300	47	62675.	*	2		1400	77	11662.	*	3		0500	107	3199.	*
1		0830	18	505.	*	1		2330	48	60227.	*	2		1430	78	11121.	*	3		0530	108	3077.	*
1		0900	19	884.	*	2		0000	49	57560.	*	2		1500	79	10606.	*	3		0600	109	2958.	*
1		0930	20	1466.	*	2		0030	50	54757.	*	2		1530	80	10121.	*	3		0630	110	2842.	*
1		1000	21	2317.	*	2		0100	51	52024.	*	2		1600	81	9665.	*	3		0700	111	2729.	*
1		1030	22	3552.	*	2		0130	52	49320.	*	2		1630	82	9243.	*	3		0730	112	2619.	*
1		1100	23	5369.	*	2		0200	53	46653.	*	2		1700	83	8846.	*	3		0800	113	2514.	*
1		1130	24	8182.	*	2		0230	54	43980.	*	2		1730	84	8464.	*	3		0830	114	2413.	*
1		1200	25	11775.	*	2		0300	55	41354.	*	2		1800	85	8097.	*	3		0900	115	2315.	*
1		1230	26	15609.	*	2		0330	56	38871.	*	2		1830	86	7743.	*	3		0930	116	2220.	*
1		1300	27	19442.	*	2		0400	57	36510.	*	2		1900	87	7402.	*	3		1000	117	2130.	*
1		1330	28	23502.	*	2		0430	58	34239.	*	2		1930	88	7075.	*	3		1030	118	2044.	*
1		1400	29	27883.	*	2		0500	59	32056.	*	2		2000	89	6761.	*	3		1100	119	1960.	*
1		1430	30	32642.	*	2		0530	60	30010.	*	2		2030	90	6461.	*	3		1130	120	1884.	*

PEAK FLOW TIME
 + (CFS) (HR)
 + 66582. 21.00
 (CFS)
 (INCHES)
 (AC-FT)

CUMULATIVE AREA = 643.75 SQ MI

*** **

942 KK

 *
 * Node19 *
 *

944 KO OUTPUT CONTROL VARIABLES
 IPRNT 0 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
 ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
 TIMINT .500 TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

948 IN TIME DATA FOR INPUT TIME SERIES
 JXMIN 15 TIME INTERVAL IN MINUTES
 JXDATE 1 0 STARTING DATE
 JXTIME 0 STARTING TIME
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

945 BA SUBBASIN CHARACTERISTICS
 TAREA 47.79 SUBBASIN AREA

PRECIPITATION DATA

947 PB STORM 5.23 BASIN TOTAL PRECIPITATION

949 PI INCREMENTAL PRECIPITATION PATTERN

.03	.04	.03	.04	.04	.05	.05	.06	.07	.08
.07	.08	.09	.10	.11	.13	.16	.17	.20	.23
.16	.21	.20	.18	.27	.30	.36	.24	.28	.27
.25	.20	.04	.03	.05	.05	.04	.03	.04	.03
.03	.03	.03	.03	.03	.02	.02	.02		

959 LS SCS LOSS RATE

STRTL .67 INITIAL ABSTRACTION

CRVNBR 75.00 CURVE NUMBER

RTIMP .00 PERCENT IMPERVIOUS AREA

960 UI INPUT UNITGRAPH, 143 ORDINATES, VOLUME = 1.00

1248.0	1464.0	1870.0	2630.0	3267.0	4151.0	4973.0	3740.0	2826.0	2435.0
2240.0	1776.0	1486.0	1205.0	1122.0	1122.0	1046.0	929.0	863.0	822.0
789.0	701.0	701.0	701.0	617.0	561.0	540.0	510.0	510.0	468.0
467.0	444.0	401.0	401.0	393.0	374.0	374.0	374.0	305.0	303.0
303.0	303.0	254.0	249.0	249.0	249.0	249.0	221.0	220.0	220.0
220.0	220.0	212.0	197.0	197.0	197.0	197.0	197.0	195.0	173.0
173.0	173.0	173.0	173.0	173.0	173.0	147.0	146.0	146.0	146.0
146.0	146.0	146.0	146.0	129.0	111.0	111.0	111.0	111.0	111.0
111.0	111.0	111.0	111.0	111.0	99.0	81.0	81.0	81.0	81.0
80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
74.9	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
29.4	29.4	25.5							

HYDROGRAPH AT STATION Node19

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	0000	1	.00	.00	.00	0.	*		2	0600	61	.00	.00	.00	1203.	
1	0030	2	.03	.03	.00	0.	*		2	0630	62	.00	.00	.00	1144.	
1	0100	3	.04	.04	.00	0.	*		2	0700	63	.00	.00	.00	1094.	
1	0130	4	.03	.03	.00	0.	*		2	0730	64	.00	.00	.00	1047.	
1	0200	5	.04	.04	.00	0.	*		2	0800	65	.00	.00	.00	999.	
1	0230	6	.04	.04	.00	0.	*		2	0830	66	.00	.00	.00	954.	
1	0300	7	.05	.05	.00	0.	*		2	0900	67	.00	.00	.00	916.	
1	0330	8	.05	.05	.00	0.	*		2	0930	68	.00	.00	.00	877.	
1	0400	9	.06	.06	.00	0.	*		2	1000	69	.00	.00	.00	839.	
1	0430	10	.07	.07	.00	0.	*		2	1030	70	.00	.00	.00	799.	
1	0500	11	.08	.08	.00	0.	*		2	1100	71	.00	.00	.00	767.	
1	0530	12	.07	.07	.00	0.	*		2	1130	72	.00	.00	.00	742.	
1	0600	13	.08	.08	.00	0.	*		2	1200	73	.00	.00	.00	716.	
1	0630	14	.09	.09	.00	1.	*		2	1230	74	.00	.00	.00	690.	
1	0700	15	.10	.10	.01	10.	*		2	1300	75	.00	.00	.00	665.	
1	0730	16	.11	.10	.01	28.	*		2	1330	76	.00	.00	.00	649.	
1	0800	17	.13	.11	.02	64.	*		2	1400	77	.00	.00	.00	634.	
1	0830	18	.16	.12	.04	126.	*		2	1430	78	.00	.00	.00	617.	
1	0900	19	.17	.12	.05	224.	*		2	1500	79	.00	.00	.00	600.	
1	0930	20	.20	.13	.07	375.	*		2	1530	80	.00	.00	.00	583.	
1	1000	21	.23	.13	.10	589.	*		2	1600	81	.00	.00	.00	571.	
1	1030	22	.16	.08	.07	816.	*		2	1630	82	.00	.00	.00	560.	
1	1100	23	.21	.10	.11	1122.	*		2	1700	83	.00	.00	.00	547.	
1	1130	24	.20	.09	.11	1463.	*		2	1730	84	.00	.00	.00	535.	
1	1200	25	.18	.08	.11	1812.	*		2	1800	85	.00	.00	.00	522.	
1	1230	26	.27	.10	.16	2245.	*		2	1830	86	.00	.00	.00	510.	
1	1300	27	.30	.10	.19	2695.	*		2	1900	87	.00	.00	.00	497.	
1	1330	28	.36	.11	.25	3187.	*		2	1930	88	.00	.00	.00	489.	
1	1400	29	.24	.07	.17	3667.	*		2	2000	89	.00	.00	.00	478.	
1	1430	30	.28	.07	.21	4204.	*		2	2030	90	.00	.00	.00	468.	
1	1500	31	.27	.06	.20	4774.	*		2	2100	91	.00	.00	.00	457.	
1	1530	32	.25	.05	.19	5364.	*		2	2130	92	.00	.00	.00	447.	
1	1600	33	.20	.04	.16	5873.	*		2	2200	93	.00	.00	.00	438.	
1	1630	34	.04	.01	.03	6102.	*		2	2230	94	.00	.00	.00	428.	
1	1700	35	.03	.01	.03	6117.	*		2	2300	95	.00	.00	.00	418.	
1	1730	36	.05	.01	.04	6099.	*		2	2330	96	.00	.00	.00	408.	
1	1800	37	.05	.01	.04	5913.	*		3	0000	97	.00	.00	.00	398.	
1	1830	38	.04	.01	.03	5559.	*		3	0030	98	.00	.00	.00	388.	
1	1900	39	.03	.00	.02	5022.	*		3	0100	99	.00	.00	.00	379.	
1	1930	40	.04	.01	.03	4437.	*		3	0130	100	.00	.00	.00	372.	
1	2000	41	.03	.00	.02	4014.	*		3	0200	101	.00	.00	.00	364.	
1	2030	42	.03	.01	.03	3732.	*		3	0230	102	.00	.00	.00	354.	
1	2100	43	.03	.00	.02	3469.	*		3	0300	103	.00	.00	.00	344.	
1	2130	44	.03	.00	.02	3208.	*		3	0330	104	.00	.00	.00	335.	
1	2200	45	.03	.00	.02	3006.	*		3	0400	105	.00	.00	.00	325.	
1	2230	46	.03	.00	.02	2870.	*		3	0430	106	.00	.00	.00	314.	
1	2300	47	.02	.00	.02	2746.	*		3	0500	107	.00	.00	.00	304.	
1	2330	48	.02	.00	.02	2633.	*		3	0530	108	.00	.00	.00	297.	

2	0000	49	.02	.00	.02	2514.	*	3	0600	109	.00	.00	.00	293.
2	0030	50	.00	.00	.00	2393.	*	3	0630	110	.00	.00	.00	288.
2	0100	51	.00	.00	.00	2279.	*	3	0700	111	.00	.00	.00	282.
2	0130	52	.00	.00	.00	2159.	*	3	0730	112	.00	.00	.00	275.
2	0200	53	.00	.00	.00	2029.	*	3	0800	113	.00	.00	.00	267.
2	0230	54	.00	.00	.00	1903.	*	3	0830	114	.00	.00	.00	259.
2	0300	55	.00	.00	.00	1773.	*	3	0900	115	.00	.00	.00	252.
2	0330	56	.00	.00	.00	1633.	*	3	0930	116	.00	.00	.00	244.
2	0400	57	.00	.00	.00	1512.	*	3	1000	117	.00	.00	.00	237.
2	0430	58	.00	.00	.00	1420.	*	3	1030	118	.00	.00	.00	229.
2	0500	59	.00	.00	.00	1339.	*	3	1100	119	.00	.00	.00	223.
2	0530	60	.00	.00	.00	1267.	*	3	1130	120	.00	.00	.00	219.

TOTAL RAINFALL = 5.23, TOTAL LOSS = 2.59, TOTAL EXCESS = 2.64

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW		
(CFS)	(HR)		6-HR	24-HR	72-HR
6117.	17.00	(CFS)	5275.	2780.	1321.
		(INCHES)	1.026	2.163	2.549
		(AC-FT)	2616.	5514.	6497.

CUMULATIVE AREA = 47.79 SQ MI

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976 KK Node23

978 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	120	LAST ORDINATE PUNCHED OR SAVED
TIMINT	.500	TIME INTERVAL IN HOURS

SANTA MARGARITA STORMS

982 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	15	TIME INTERVAL IN MINUTES
JXDATE	1	STARTING DATE
JXTIME	0	STARTING TIME

UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

979 BA SUBBASIN CHARACTERISTICS

TAREA	10.58	SUBBASIN AREA
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PRECIPITATION DATA

981 PB STORM 4.38 BASIN TOTAL PRECIPITATION

983 PI INCREMENTAL PRECIPITATION PATTERN

.02	.03	.03	.03	.04	.04	.04	.05	.06	.07
.06	.07	.08	.09	.09	.11	.13	.14	.17	.19
.13	.18	.17	.15	.22	.25	.30	.20	.23	.22
.21	.17	.04	.03	.04	.04	.04	.02	.03	.02
.03	.02	.02	.02	.02	.02	.02	.02		

993 LS SCS LOSS RATE

STRTL	.89	INITIAL ABSTRACTION
CRVNBR	69.20	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

994 UI INPUT UNITGRAPH, 91 ORDINATES, VOLUME = 1.00

453.0	619.0	1007.0	1488.0	1475.0	1001.0	780.0	590.0	436.0	390.0
362.0	310.0	285.0	254.0	244.0	221.0	194.0	177.0	170.0	162.0
143.0	139.0	131.0	130.0	111.0	105.0	102.0	87.0	87.0	86.0
76.5	76.5	76.5	72.7	68.4	68.4	68.4	64.4	60.0	60.0
60.0	60.0	51.3	50.6	50.6	50.6	50.6	44.2	38.6	38.6
38.6	38.6	38.6	38.6	33.7	28.1	28.1	28.1	28.1	28.1
28.1	28.1	28.1	28.1	15.0	10.2	10.2	10.2	10.2	10.2
10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
10.2									

HYDROGRAPH AT STATION Node23

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	2		0600	61	.00	.00	.00	135.
1		0030	2	.02	.02	.00	0.	*	2		0630	62	.00	.00	.00	129.
1		0100	3	.03	.03	.00	0.	*	2		0700	63	.00	.00	.00	123.
1		0130	4	.03	.03	.00	0.	*	2		0730	64	.00	.00	.00	118.
1		0200	5	.03	.03	.00	0.	*	2		0800	65	.00	.00	.00	113.
1		0230	6	.04	.04	.00	0.	*	2		0830	66	.00	.00	.00	109.
1		0300	7	.04	.04	.00	0.	*	2		0900	67	.00	.00	.00	105.
1		0330	8	.04	.04	.00	0.	*	2		0930	68	.00	.00	.00	101.
1		0400	9	.05	.05	.00	0.	*	2		1000	69	.00	.00	.00	97.
1		0430	10	.06	.06	.00	0.	*	2		1030	70	.00	.00	.00	93.
1		0500	11	.07	.07	.00	0.	*	2		1100	71	.00	.00	.00	89.
1		0530	12	.06	.06	.00	0.	*	2		1130	72	.00	.00	.00	86.
1		0600	13	.07	.07	.00	0.	*	2		1200	73	.00	.00	.00	83.
1		0630	14	.08	.08	.00	0.	*	2		1230	74	.00	.00	.00	80.
1		0700	15	.09	.09	.00	0.	*	2		1300	75	.00	.00	.00	76.
1		0730	16	.09	.09	.00	0.	*	2		1330	76	.00	.00	.00	73.
1		0800	17	.11	.11	.00	0.	*	2		1400	77	.00	.00	.00	71.
1		0830	18	.13	.13	.00	2.	*	2		1430	78	.00	.00	.00	68.
1		0900	19	.14	.13	.01	8.	*	2		1500	79	.00	.00	.00	65.
1		0930	20	.17	.15	.03	24.	*	2		1530	80	.00	.00	.00	62.
1		1000	21	.19	.15	.04	52.	*	2		1600	81	.00	.00	.00	60.
1		1030	22	.13	.10	.03	90.	*	2		1630	82	.00	.00	.00	58.
1		1100	23	.18	.12	.05	144.	*	2		1700	83	.00	.00	.00	56.
1		1130	24	.17	.11	.06	203.	*	2		1730	84	.00	.00	.00	54.
1		1200	25	.15	.10	.06	259.	*	2		1800	85	.00	.00	.00	51.
1		1230	26	.22	.13	.09	330.	*	2		1830	86	.00	.00	.00	49.
1		1300	27	.25	.13	.12	415.	*	2		1900	87	.00	.00	.00	46.
1		1330	28	.30	.15	.15	521.	*	2		1930	88	.00	.00	.00	44.
1		1400	29	.20	.09	.11	632.	*	2		2000	89	.00	.00	.00	42.
1		1430	30	.23	.10	.13	765.	*	2		2030	90	.00	.00	.00	40.
1		1500	31	.22	.09	.13	881.	*	2		2100	91	.00	.00	.00	38.
1		1530	32	.21	.08	.13	962.	*	2		2130	92	.00	.00	.00	35.
1		1600	33	.17	.06	.11	1015.	*	2		2200	93	.00	.00	.00	32.
1		1630	34	.04	.01	.02	1024.	*	2		2230	94	.00	.00	.00	30.
1		1700	35	.03	.01	.02	991.	*	2		2300	95	.00	.00	.00	27.
1		1730	36	.04	.02	.03	912.	*	2		2330	96	.00	.00	.00	24.
1		1800	37	.04	.01	.03	792.	*	3		0000	97	.00	.00	.00	22.
1		1830	38	.04	.01	.02	679.	*	3		0030	98	.00	.00	.00	21.
1		1900	39	.02	.01	.01	606.	*	3		0100	99	.00	.00	.00	21.
1		1930	40	.03	.01	.02	558.	*	3		0130	100	.00	.00	.00	20.
1		2000	41	.02	.01	.01	515.	*	3		0200	101	.00	.00	.00	19.
1		2030	42	.03	.01	.02	483.	*	3		0230	102	.00	.00	.00	19.
1		2100	43	.02	.01	.01	453.	*	3		0300	103	.00	.00	.00	18.
1		2130	44	.02	.01	.01	427.	*	3		0330	104	.00	.00	.00	18.
1		2200	45	.02	.01	.01	404.	*	3		0400	105	.00	.00	.00	18.
1		2230	46	.02	.01	.01	386.	*	3		0430	106	.00	.00	.00	17.
1		2300	47	.02	.01	.01	368.	*	3		0500	107	.00	.00	.00	17.
1		2330	48	.02	.01	.01	351.	*	3		0530	108	.00	.00	.00	17.
2		0000	49	.02	.01	.01	337.	*	3		0600	109	.00	.00	.00	17.
2		0030	50	.00	.00	.00	317.	*	3		0630	110	.00	.00	.00	16.
2		0100	51	.00	.00	.00	297.	*	3		0700	111	.00	.00	.00	16.
2		0130	52	.00	.00	.00	273.	*	3		0730	112	.00	.00	.00	15.
2		0200	53	.00	.00	.00	245.	*	3		0800	113	.00	.00	.00	15.
2		0230	54	.00	.00	.00	219.	*	3		0830	114	.00	.00	.00	14.
2		0300	55	.00	.00	.00	199.	*	3		0900	115	.00	.00	.00	13.
2		0330	56	.00	.00	.00	183.	*	3		0930	116	.00	.00	.00	13.
2		0400	57	.00	.00	.00	169.	*	3		1000	117	.00	.00	.00	12.
2		0430	58	.00	.00	.00	159.	*	3		1030	118	.00	.00	.00	11.
2		0500	59	.00	.00	.00	150.	*	3		1100	119	.00	.00	.00	9.
2		0530	60	.00	.00	.00	142.	*	3		1130	120	.00	.00	.00	8.

TOTAL RAINFALL = 4.38, TOTAL LOSS = 2.85, TOTAL EXCESS = 1.53

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
+	(CFS)	(HR)				
+	1024.	16.50	(CFS)			
			817.	394.	176.	176.
		(INCHES)	.718	1.383	1.530	1.530
		(AC-FT)	405.	781.	863.	863.

CUMULATIVE AREA = 10.58 SQ MI

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42.ohl

1005 KK * Node36 *
* *

1007 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
TIMINT .500 TIME INTERVAL IN HOURS

1008 HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node36
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	0000	1	1.	1500	31	43583.	2	0600	61	29459.	2	2100	91	6667.					
1	0030	2	1.	1530	32	49689.	2	0630	62	27629.	2	2130	92	6375.					
1	0100	3	1.	1600	33	55117.	2	0700	63	25946.	2	2200	93	6096.					
1	0130	4	1.	1630	34	59258.	2	0730	64	24395.	2	2230	94	5826.					
1	0200	5	1.	1700	35	61362.	2	0800	65	22973.	2	2300	95	5571.					
1	0230	6	1.	1730	36	61264.	2	0830	66	21675.	2	2330	96	5338.					
1	0300	7	1.	1800	37	59286.	2	0900	67	20499.	3	0000	97	5127.					
1	0330	8	1.	1830	38	55870.	2	0930	68	19400.	3	0030	98	4929.					
1	0400	9	1.	1900	39	51665.	2	1000	69	18349.	3	0100	99	4739.					
1	0430	10	1.	1930	40	49785.	2	1030	70	17356.	3	0130	100	4559.					
1	0500	11	1.	2000	41	55557.	2	1100	71	16436.	3	0200	101	4388.					
1	0530	12	2.	2030	42	67281.	2	1130	72	15613.	3	0230	102	4230.					
1	0600	13	4.	2100	43	70504.	2	1200	73	14884.	3	0300	103	4081.					
1	0630	14	17.	2130	44	69604.	2	1230	74	14208.	3	0330	104	3938.					
1	0700	15	59.	2200	45	69603.	2	1300	75	13562.	3	0400	105	3796.					
1	0730	16	151.	2230	46	67752.	2	1330	76	12950.	3	0430	106	3657.					
1	0800	17	327.	2300	47	65789.	2	1400	77	12367.	3	0500	107	3521.					
1	0830	18	634.	2330	48	63212.	2	1430	78	11805.	3	0530	108	3392.					
1	0900	19	1117.	0000	49	60411.	2	1500	79	11271.	3	0600	109	3267.					
1	0930	20	1864.	0030	50	57467.	2	1530	80	10766.	3	0630	110	3145.					
1	1000	21	2959.	0100	51	54599.	2	1600	81	10296.	3	0700	111	3026.					
1	1030	22	4457.	0130	52	51752.	2	1630	82	9861.	3	0730	112	2909.					
1	1100	23	6635.	0200	53	48927.	2	1700	83	9449.	3	0800	113	2795.					
1	1130	24	9847.	0230	54	46102.	2	1730	84	9053.	3	0830	114	2685.					
1	1200	25	13846.	0300	55	43326.	2	1800	85	8670.	3	0900	115	2580.					
1	1230	26	18183.	0330	56	40687.	2	1830	86	8301.	3	0930	116	2477.					
1	1300	27	22552.	0400	57	38192.	2	1900	87	7945.	3	1000	117	2378.					
1	1330	28	27210.	0430	58	35818.	2	1930	88	7607.	3	1030	118	2284.					
1	1400	29	32182.	0500	59	33545.	2	2000	89	7282.	3	1100	119	2192.					
1	1430	30	37611.	0530	60	31418.	2	2030	90	6969.	3	1130	120	2111.					

PEAK FLOW	TIME	6-HR	24-HR	72-HR	59.50-HR
+	(CFS)				
+	70504.	21.00	62712.	42297.	19850.
	(INCHES)	.830	2.240	2.607	2.607
	(AC-FT)	31097.	83895.	97607.	97607.

CUMULATIVE AREA = 702.12 SQ MI

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1009 KK *
* 1 *
* *

1011 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT

ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
 ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
 TIMINT .500 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

1012 RD MUSKINGUM-CUNGE CHANNEL ROUTING
 L 69010. CHANNEL LENGTH
 S .0020 SLOPE
 N .040 CHANNEL ROUGHNESS COEFFICIENT
 CA .00 CONTRIBUTING AREA
 SHAPE TRAP CHANNEL SHAPE
 WD 150.00 BOTTOM WIDTH OR DIAMETER
 Z 5.00 SIDE SLOPE

 COMPUTED MUSKINGUM-CUNGE PARAMETERS
 COMPUTATION TIME STEP

ELEMENT	ALPHA	M	DT (MIN)	DX (FT)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	MAXIMUM CELERITY (FPS)
MAIN	.08	1.60	30.00	17252.50	71466.59	1320.00	2.59	16.15

INTERPOLATED TO SPECIFIED COMPUTATION INTERVAL

MAIN	.08	1.60	30.00		71466.59	1320.00	2.59	
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .9765E+05 EXCESS= .0000E+00 OUTFLOW= .9719E+05 BASIN STORAGE= .1008E+04 PERCENT ERROR= -.6

HYDROGRAPH AT STATION 1

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	1.	*	1	1500	31	29470.	*	2	0600	61	34442.	*	2	2100	91	7994.	
1	0030	2	1.	*	1	1530	32	35609.	*	2	0630	62	32377.	*	2	2130	92	7674.	
1	0100	3	1.	*	1	1600	33	42160.	*	2	0700	63	30447.	*	2	2200	93	7367.	
1	0130	4	1.	*	1	1630	34	48860.	*	2	0730	64	28659.	*	2	2230	94	7071.	
1	0200	5	1.	*	1	1700	35	54812.	*	2	0800	65	26995.	*	2	2300	95	6786.	
1	0230	6	1.	*	1	1730	36	59086.	*	2	0830	66	25450.	*	2	2330	96	6505.	
1	0300	7	1.	*	1	1800	37	61192.	*	2	0900	67	24028.	*	3	0000	97	6228.	
1	0330	8	1.	*	1	1830	38	61049.	*	2	0930	68	22715.	*	3	0030	98	5958.	
1	0400	9	1.	*	1	1900	39	59060.	*	2	1000	69	21511.	*	3	0100	99	5700.	
1	0430	10	1.	*	1	1930	40	55892.	*	2	1030	70	20404.	*	3	0130	100	5461.	
1	0500	11	1.	*	1	2000	41	52518.	*	2	1100	71	19370.	*	3	0200	101	5242.	
1	0530	12	1.	*	1	2030	42	51242.	*	2	1130	72	18385.	*	3	0230	102	5039.	
1	0600	13	1.	*	1	2100	43	55640.	*	2	1200	73	17450.	*	3	0300	103	4846.	
1	0630	14	1.	*	1	2130	44	65419.	*	2	1230	74	16580.	*	3	0330	104	4663.	
1	0700	15	1.	*	1	2200	45	71467.	*	2	1300	75	15787.	*	3	0400	105	4489.	
1	0730	16	1.	*	1	2230	46	70068.	*	2	1330	76	15073.	*	3	0430	106	4327.	
1	0800	17	2.	*	1	2300	47	68596.	*	2	1400	77	14420.	*	3	0500	107	4174.	
1	0830	18	4.	*	1	2330	48	67880.	*	2	1430	78	13801.	*	3	0530	108	4028.	
1	0900	19	13.	*	2	0000	49	65359.	*	2	1500	79	13210.	*	3	0600	109	3887.	
1	0930	20	44.	*	2	0030	50	62936.	*	2	1530	80	12647.	*	3	0630	110	3748.	
1	1000	21	125.	*	2	0100	51	60301.	*	2	1600	81	12108.	*	3	0700	111	3612.	
1	1030	22	304.	*	2	0130	52	57381.	*	2	1630	82	11590.	*	3	0730	112	3480.	
1	1100	23	644.	*	2	0200	53	54658.	*	2	1700	83	11098.	*	3	0800	113	3354.	
1	1130	24	1234.	*	2	0230	54	51889.	*	2	1730	84	10634.	*	3	0830	114	3232.	
1	1200	25	2180.	*	2	0300	55	49200.	*	2	1800	85	10199.	*	3	0900	115	3112.	
1	1230	26	3582.	*	2	0330	56	46499.	*	2	1830	86	9792.	*	3	0930	116	2995.	
1	1300	27	5725.	*	2	0400	57	43860.	*	2	1900	87	9406.	*	3	1000	117	2881.	
1	1330	28	11203.	*	2	0430	58	41312.	*	2	1930	88	9034.	*	3	1030	118	2770.	
1	1400	29	17739.	*	2	0500	59	38904.	*	2	2000	89	8675.	*	3	1100	119	2663.	
1	1430	30	23692.	*	2	0530	60	36620.	*	2	2030	90	8328.	*	3	1130	120	2560.	

PEAK FLOW	TIME	6-HR	24-HR	72-HR	59.50-HR
+	(CFS)				
+	71467.	22.00			
	(INCHES)				
	(AC-FT)				

CUMULATIVE AREA = 702.12 SQ MI


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1015 KO      OUTPUT CONTROL VARIABLES
              IPRNT      0  PRINT CONTROL
              IPLOT      0  PLOT CONTROL
              QSCAL      0.  HYDROGRAPH PLOT SCALE
              IPNCH      0  PUNCH COMPUTED HYDROGRAPH
              IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
              ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
              ISAV2     120  LAST ORDINATE PUNCHED OR SAVED
              TIMINT     .500 TIME INTERVAL IN HOURS

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1019 IN      TIME DATA FOR INPUT TIME SERIES
              JXMIN      15  TIME INTERVAL IN MINUTES
              JXDATE      0  STARTING DATE
              JXTIME      0  STARTING TIME
              UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAFH

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1016 BA SUBBASIN CHARACTERISTICS
TAREA 43.88 SUBBASIN AREA

1018 PB STORM 4.33 BASIN TOTAL PRECIPITATION

1020 PI INCREMENTAL PRECIPITATION PATTERN

.02	.03	.03	.03	.03	.04	.04	.05	.06	.06
.06	.07	.08	.09	.09	.11	.13	.14	.17	.19
.13	.17	.16	.15	.22	.25	.29	.20	.23	.22
.20	.16	.03	.03	.04	.04	.03	.02	.03	.02
.03	.02	.02	.02	.02	.02	.02	.02		

1030 LS	SCS LOSS RATE		
	STRTL	.68	INITIAL ABSTRACTION
	CRVNBR	74.70	CURVE NUMBER
	RTIMP	.00	PERCENT IMPERVIOUS AREA

1031 UI INPUT UNITGRAPH, 114 ORDINATES, VOLUME = 1.00

[illegible]

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HYDROGRAPH AT STATION Node25

DA MON HRMN ORD RAIN LOSS EXCESS COMP Q								*	DA MON HRMN ORD RAIN LOSS EXCESS COMP Q							
								*								
1	0000	1	.00	.00	.00	0.	*	2	0600	61	.00	.00	.00	1401.		
1	0030	2	.02	.02	.00	0.	*	2	0630	62	.00	.00	.00	1317.		
1	0100	3	.03	.03	.00	0.	*	2	0700	63	.00	.00	.00	1234.		
1	0130	4	.03	.03	.00	0.	*	2	0730	64	.00	.00	.00	1129.		
1	0200	5	.03	.03	.00	0.	*	2	0800	65	.00	.00	.00	1017.		
1	0230	6	.03	.03	.00	0.	*	2	0830	66	.00	.00	.00	951.		
1	0300	7	.04	.04	.00	0.	*	2	0900	67	.00	.00	.00	889.		
1	0330	8	.04	.04	.00	0.	*	2	0930	68	.00	.00	.00	838.		
1	0400	9	.05	.05	.00	0.	*	2	1000	69	.00	.00	.00	785.		
1	0430	10	.06	.06	.00	0.	*	2	1030	70	.00	.00	.00	743.		
1	0500	11	.06	.06	.00	0.	*	2	1100	71	.00	.00	.00	705.		
1	0530	12	.06	.06	.00	0.	*	2	1130	72	.00	.00	.00	667.		
1	0600	13	.07	.07	.00	0.	*	2	1200	73	.00	.00	.00	635.		
1	0630	14	.08	.08	.00	0.	*	2	1230	74	.00	.00	.00	602.		
1	0700	15	.09	.09	.00	0.	*	2	1300	75	.00	.00	.00	572.		
1	0730	16	.09	.09	.00	1.	*	2	1330	76	.00	.00	.00	541.		
1	0800	17	.11	.10	.01	6.	*	2	1400	77	.00	.00	.00	511.		
1	0830	18	.13	.11	.02	15.	*	2	1430	78	.00	.00	.00	480.		
1	0900	19	.14	.11	.03	29.	*	2	1500	79	.00	.00	.00	452.		
1	0930	20	.17	.12	.04	53.	*	2	1530	80	.00	.00	.00	429.		
1	1000	21	.19	.12	.06	87.	*	2	1600	81	.00	.00	.00	406.		

1	1030	22	.13	.08	.05	121.	*	2	1630	82	.00	.00	.00	382.
1	1100	23	.17	.10	.07	171.	*	2	1700	83	.00	.00	.00	357.
1	1130	24	.16	.09	.08	227.	*	2	1730	84	.00	.00	.00	334.
1	1200	25	.15	.08	.08	292.	*	2	1800	85	.00	.00	.00	316.
1	1230	26	.22	.10	.12	386.	*	2	1830	86	.00	.00	.00	295.
1	1300	27	.25	.11	.14	499.	*	2	1900	87	.00	.00	.00	274.
1	1330	28	.29	.11	.18	648.	*	2	1930	88	.00	.00	.00	253.
1	1400	29	.20	.07	.13	802.	*	2	2000	89	.00	.00	.00	235.
1	1430	30	.23	.08	.15	997.	*	2	2030	90	.00	.00	.00	222.
1	1500	31	.22	.07	.15	1231.	*	2	2100	91	.00	.00	.00	211.
1	1530	32	.20	.06	.15	1509.	*	2	2130	92	.00	.00	.00	197.
1	1600	33	.16	.04	.12	1807.	*	2	2200	93	.00	.00	.00	180.
1	1630	34	.03	.01	.03	2070.	*	2	2230	94	.00	.00	.00	161.
1	1700	35	.03	.01	.02	2348.	*	2	2300	95	.00	.00	.00	145.
1	1730	36	.04	.01	.03	2615.	*	2	2330	96	.00	.00	.00	129.
1	1800	37	.04	.01	.03	2842.	*	3	0000	97	.00	.00	.00	113.
1	1830	38	.03	.01	.03	3119.	*	3	0030	98	.00	.00	.00	98.
1	1900	39	.02	.01	.02	3342.	*	3	0100	99	.00	.00	.00	84.
1	1930	40	.03	.01	.02	3648.	*	3	0130	100	.00	.00	.00	78.
1	2000	41	.02	.01	.02	3983.	*	3	0200	101	.00	.00	.00	75.
1	2030	42	.03	.01	.02	4230.	*	3	0230	102	.00	.00	.00	71.
1	2100	43	.02	.01	.02	4289.	*	3	0300	103	.00	.00	.00	67.
1	2130	44	.02	.01	.02	4194.	*	3	0330	104	.00	.00	.00	64.
1	2200	45	.02	.01	.02	4201.	*	3	0400	105	.00	.00	.00	61.
1	2230	46	.02	.01	.02	4010.	*	3	0430	106	.00	.00	.00	59.
1	2300	47	.02	.00	.01	3687.	*	3	0500	107	.00	.00	.00	58.
1	2330	48	.02	.00	.01	3192.	*	3	0530	108	.00	.00	.00	56.
2	0000	49	.02	.00	.01	2744.	*	3	0600	109	.00	.00	.00	54.
2	0030	50	.00	.00	.00	2551.	*	3	0630	110	.00	.00	.00	53.
2	0100	51	.00	.00	.00	2411.	*	3	0700	111	.00	.00	.00	51.
2	0130	52	.00	.00	.00	2254.	*	3	0730	112	.00	.00	.00	50.
2	0200	53	.00	.00	.00	2092.	*	3	0800	113	.00	.00	.00	49.
2	0230	54	.00	.00	.00	1996.	*	3	0830	114	.00	.00	.00	47.
2	0300	55	.00	.00	.00	1913.	*	3	0900	115	.00	.00	.00	46.
2	0330	56	.00	.00	.00	1814.	*	3	0930	116	.00	.00	.00	46.
2	0400	57	.00	.00	.00	1733.	*	3	1000	117	.00	.00	.00	46.
2	0430	58	.00	.00	.00	1639.	*	3	1030	118	.00	.00	.00	46.
2	0500	59	.00	.00	.00	1554.	*	3	1100	119	.00	.00	.00	46.
2	0530	60	.00	.00	.00	1467.	*	3	1130	120	.00	.00	.00	46.

TOTAL RAINFALL = 4.33, TOTAL LOSS = 2.43, TOTAL EXCESS = 1.90

PEAK FLOW	TIME		6-HR	24-HR	72-HR	59.50-HR
(CFS)	(HR)	(CFS)				
+	4289.	21.00	3724.	2008.	893.	893.
		(INCHES)	.789	1.702	1.876	1.876
		(AC-FT)	1847.	3983.	4391.	4391.

CUMULATIVE AREA = 43.88 SQ MI

*
* Node35 *
*

1046 KO OUTPUT CONTROL VARIABLES
 IPRNT 0 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
 ISAV2 120 LAST ORDINATE PUNCHED OR SAVED
 TIMINT .500 TIME INTERVAL IN HOURS

1047 HC HYDROGRAPH COMBINATION
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION Node35
 SUM OF 2 HYDROGRAPHS

 DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
 * * * * *

42.ohl

1	0000	1	1.	*	1	1500	31	30701.	*	2	0600	61	35843.	*	2	2100	91	8204.
1	0030	2	1.	*	1	1530	32	37119.	*	2	0630	62	33694.	*	2	2130	92	7871.
1	0100	3	1.	*	1	1600	33	43967.	*	2	0700	63	31680.	*	2	2200	93	7547.
1	0130	4	1.	*	1	1630	34	50931.	*	2	0730	64	29788.	*	2	2230	94	7232.
1	0200	5	1.	*	1	1700	35	57160.	*	2	0800	65	28012.	*	2	2300	95	6931.
1	0230	6	1.	*	1	1730	36	61702.	*	2	0830	66	26401.	*	2	2330	96	6634.
1	0300	7	1.	*	1	1800	37	64034.	*	2	0900	67	24917.	*	3	0000	97	6341.
1	0330	8	1.	*	1	1830	38	64168.	*	2	0930	68	23553.	*	3	0030	98	6055.
1	0400	9	1.	*	1	1900	39	62402.	*	2	1000	69	22296.	*	3	0100	99	5784.
1	0430	10	1.	*	1	1930	40	59540.	*	2	1030	70	21147.	*	3	0130	100	5539.
1	0500	11	1.	*	1	2000	41	56501.	*	2	1100	71	20075.	*	3	0200	101	5317.
1	0530	12	1.	*	1	2030	42	55472.	*	2	1130	72	19052.	*	3	0230	102	5110.
1	0600	13	1.	*	1	2100	43	59929.	*	2	1200	73	18085.	*	3	0300	103	4914.
1	0630	14	1.	*	1	2130	44	69614.	*	2	1230	74	17182.	*	3	0330	104	4727.
1	0700	15	1.	*	1	2200	45	75668.	*	2	1300	75	16359.	*	3	0400	105	4551.
1	0730	16	3.	*	1	2230	46	74078.	*	2	1330	76	15614.	*	3	0430	106	4386.
1	0800	17	7.	*	1	2300	47	72283.	*	2	1400	77	14931.	*	3	0500	107	4231.
1	0830	18	18.	*	1	2330	48	71072.	*	2	1430	78	14281.	*	3	0530	108	4084.
1	0900	19	42.	*	2	0000	49	68103.	*	2	1500	79	13662.	*	3	0600	109	3941.
1	0930	20	97.	*	2	0030	50	65487.	*	2	1530	80	13076.	*	3	0630	110	3800.
1	1000	21	213.	*	2	0100	51	62713.	*	2	1600	81	12514.	*	3	0700	111	3663.
1	1030	22	425.	*	2	0130	52	59636.	*	2	1630	82	11972.	*	3	0730	112	3530.
1	1100	23	815.	*	2	0200	53	56749.	*	2	1700	83	11455.	*	3	0800	113	3403.
1	1130	24	1462.	*	2	0230	54	53886.	*	2	1730	84	10968.	*	3	0830	114	3279.
1	1200	25	2473.	*	2	0300	55	51113.	*	2	1800	85	10515.	*	3	0900	115	3159.
1	1230	26	3968.	*	2	0330	56	48313.	*	2	1830	86	10088.	*	3	0930	116	3041.
1	1300	27	6225.	*	2	0400	57	45594.	*	2	1900	87	9680.	*	3	1000	117	2927.
1	1330	28	11851.	*	2	0430	58	42951.	*	2	1930	88	9287.	*	3	1030	118	2816.
1	1400	29	18541.	*	2	0500	59	40458.	*	2	2000	89	8909.	*	3	1100	119	2709.
1	1430	30	24689.	*	2	0530	60	38087.	*	2	2030	90	8550.	*	3	1130	120	2606.

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	
+	(CFS)	(HR)		24-HR	72-HR
+	75668.	22.00	(CFS)	65890.	20646.
			(INCHES)	.821	2.552
			(AC-FT)	32673.	101525.

CUMULATIVE AREA = 746.00 SQ MI

1

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

+	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR	
+	HYDROGRAPH AT	Node26	11952.	17.50	10064.	4812.	2002.	50.52
+	ROUTED TO	Skinne	1171.	30.50	1134.	839.	412.	50.52
+	ROUTED TO	14	1172.	32.00	1134.	839.	397.	50.52
+	HYDROGRAPH AT	Node2	1389.	16.50	1152.	536.	225.	8.10
+	HYDROGRAPH AT	Node6	3662.	18.50	3259.	1692.	763.	27.55
+	3 COMBINED AT	Node73	4859.	18.00	4327.	2620.	1386.	86.17
+	ROUTED TO	13	4847.	18.00	4312.	2619.	1381.	86.17
+	HYDROGRAPH AT	Node31	540.	16.00	428.	183.	74.	2.65
+	2 COMBINED AT	Node71	5181.	17.50	4659.	2777.	1455.	88.82
+	ROUTED TO	12	5173.	18.00	4645.	2776.	1452.	88.82
+	HYDROGRAPH AT	Node9	442.	16.00	342.	139.	56.	2.52
+	2 COMBINED AT	Node70	5446.	17.50	4917.	2898.	1508.	91.34
+	HYDROGRAPH AT	Node27	3984.	16.50	3276.	1487.	611.	16.92
	ROUTED TO							

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+		17	3975.	18.50	3277.	1488.	612.	16.92
+	HYDROGRAPH AT	Node1	3265.	16.00	2615.	1151.	473.	22.37
+	HYDROGRAPH AT	Node3	3704.	16.00	3037.	1269.	514.	18.40
+	3 COMBINED AT	Node66	9704.	17.00	8353.	3872.	1600.	57.69
+	ROUTED TO	16	9735.	18.00	8347.	3872.	1601.	57.69
+	HYDROGRAPH AT	Node4	1005.	16.00	804.	351.	143.	5.69
+	2 COMBINED AT	Node75	10444.	17.00	9038.	4214.	1744.	63.38
+	HYDROGRAPH AT	Node33	8266.	14.50	6524.	2554.	1031.	18.46
+	ROUTED TO	19	8083.	14.50	6501.	2554.	1031.	18.46
+	HYDROGRAPH AT	Node32	3221.	15.50	2593.	1083.	439.	8.74
+	2 COMBINED AT	Node64	11216.	15.50	9037.	3637.	1470.	27.20
+	ROUTED TO	18	11147.	16.50	9034.	3638.	1471.	27.20
+	HYDROGRAPH AT	Node5	7836.	16.50	6453.	2902.	1190.	30.47
+	2 COMBINED AT	Node76	18983.	16.50	15342.	6538.	2661.	57.67
+	2 COMBINED AT	Node61	29120.	16.50	23657.	10704.	4405.	121.05
+	ROUTED TO	15	29091.	16.50	23647.	10704.	4405.	121.05
+	HYDROGRAPH AT	Node10	44.	13.50	32.	11.	5.	.18
+	3 COMBINED AT	Node59	34330.	16.50	28431.	13475.	5918.	212.57
+	ROUTED TO	11	33954.	17.00	28370.	13471.	5915.	212.57
+	HYDROGRAPH AT	Node29	1040.	15.50	850.	365.	148.	3.94
+	ROUTED TO	10	1039.	16.00	850.	365.	148.	3.94
+	HYDROGRAPH AT	Node34	631.	15.50	515.	215.	87.	2.05
+	3 COMBINED AT	Node53	35482.	16.50	29557.	14019.	6151.	218.56
+	ROUTED TO	9	35301.	17.00	29500.	14020.	6149.	218.56
+	HYDROGRAPH AT	Node13	2138.	15.00	1722.	692.	280.	6.71
+	2 COMBINED AT	Node74	37169.	16.50	30992.	14672.	6429.	225.27
+	HYDROGRAPH AT	Node22	10729.	16.00	8994.	4595.	2110.	38.15
+	HYDROGRAPH AT	Node24	5059.	16.00	4043.	1905.	806.	19.81
+	2 COMBINED AT	Node52	15788.	16.00	13010.	6497.	2916.	57.96
+	ROUTED TO	7	15691.	16.50	12973.	6494.	2913.	57.96
+	HYDROGRAPH AT	Node18	6633.	16.50	5463.	2422.	991.	22.18

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+	HYDROGRAPH AT	Node20	3835.	16.00	3086.	1496.	654.	18.04
+	3 COMBINED AT	Node50	26047.	16.50	21489.	10400.	4558.	98.18
+	ROUTED TO	6	25991.	17.00	21490.	10400.	4556.	98.18
+	HYDROGRAPH AT	Node7	5837.	16.00	4855.	2451.	1115.	24.60
+	HYDROGRAPH AT	Node8	18514.	19.00	15991.	8101.	3450.	88.44
+	2 COMBINED AT	Node49	22274.	18.50	20093.	10520.	4565.	113.04
+	ROUTED TO	8	22317.	19.00	20094.	10520.	4564.	113.04
+	HYDROGRAPH AT	Node12	11390.	16.50	9341.	4188.	1718.	42.32
+	HYDROGRAPH AT	Node14	4690.	16.00	3698.	1751.	753.	23.58
+	HYDROGRAPH AT	Node15	299.	14.00	226.	83.	33.	1.00
+	HYDROGRAPH AT	Node17	8134.	16.50	6751.	3397.	1550.	38.50
+	6 COMBINED AT	Node45	68534.	16.50	59544.	30253.	13174.	316.62
+	ROUTED TO	Vail	41336.	21.00	37335.	19379.	8490.	316.62
+	ROUTED TO	5	41474.	22.00	37361.	19362.	8471.	316.62
+	HYDROGRAPH AT	Node28	4310.	17.50	3583.	1663.	689.	29.36
+	HYDROGRAPH AT	Node30	3473.	16.00	2838.	1404.	632.	16.19
+	3 COMBINED AT	Node43	44863.	22.00	40467.	21009.	9792.	362.17
+	ROUTED TO	4	44809.	22.00	40455.	21018.	9793.	362.17
+	HYDROGRAPH AT	Node11	805.	13.50	637.	259.	105.	1.88
+	2 COMBINED AT	Node72	44917.	22.00	40542.	21104.	9897.	364.05
+	2 COMBINED AT	Node41	62513.	21.00	55338.	34873.	16327.	589.32
+	ROUTED TO	3	62526.	21.50	55309.	34891.	16316.	589.32
+	HYDROGRAPH AT	Node16	7156.	16.00	5934.	2986.	1354.	32.84
+	HYDROGRAPH AT	Node21	3238.	16.00	2787.	1473.	697.	21.59
+	3 COMBINED AT	Node39	66987.	21.50	59463.	39149.	18368.	643.75
+	ROUTED TO	2	66582.	21.00	59309.	39164.	18353.	643.75
+	HYDROGRAPH AT	Node19	6117.	17.00	5275.	2780.	1321.	47.79
+	HYDROGRAPH AT	Node23	1024.	16.50	817.	394.	176.	10.58
+	3 COMBINED AT	Node36	70504.	21.00	62712.	42297.	19850.	702.12
+	ROUTED TO	1	71467.	22.00	62606.	42258.	19753.	702.12
+	HYDROGRAPH AT	Node25	4289.	21.00	3724.	2008.	893.	43.88

2 COMBINED AT
Node35 75668. 22.00 65890. 44261. 20646. 746.00

SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING
(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

ISTAQ	ELEMENT	DT (MIN)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	INTERPOLATED TO COMPUTATION INTERVAL			
						DT (MIN)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)
14	MANE	30.00	1172.33	1920.00	.73	30.00	1172.33	1920.00	.73
CONTINUITY SUMMARY (AC-FT) - INFLOW= .2029E+04 EXCESS= .0000E+00 OUTFLOW= .1960E+04 BASIN STORAGE= .8543E+02 PERCENT ERROR= -.8									
13	MANE	21.91	4847.54	1095.53	1.48	30.00	4847.47	1080.00	1.48
CONTINUITY SUMMARY (AC-FT) - INFLOW= .6811E+04 EXCESS= .0000E+00 OUTFLOW= .6786E+04 BASIN STORAGE= .3596E+02 PERCENT ERROR= -.2									
12	MANE	13.91	5180.48	1071.28	1.51	30.00	5172.79	1080.00	1.51
CONTINUITY SUMMARY (AC-FT) - INFLOW= .7156E+04 EXCESS= .0000E+00 OUTFLOW= .7139E+04 BASIN STORAGE= .2371E+02 PERCENT ERROR= -.1									
17	MANE	30.00	3974.66	1110.00	3.33	30.00	3974.66	1110.00	3.33
CONTINUITY SUMMARY (AC-FT) - INFLOW= .3003E+04 EXCESS= .0000E+00 OUTFLOW= .3009E+04 BASIN STORAGE= .1267E+01 PERCENT ERROR= -.3									
16	MANE	30.00	9735.29	1080.00	2.56	30.00	9735.29	1080.00	2.56
CONTINUITY SUMMARY (AC-FT) - INFLOW= .7867E+04 EXCESS= .0000E+00 OUTFLOW= .7873E+04 BASIN STORAGE= .1368E+01 PERCENT ERROR= -.1									
19	MANE	9.17	8221.59	880.30	5.15	30.00	8083.18	870.00	5.15
CONTINUITY SUMMARY (AC-FT) - INFLOW= .5069E+04 EXCESS= .0000E+00 OUTFLOW= .5070E+04 BASIN STORAGE= .2575E-01 PERCENT ERROR= .0									
18	MANE	30.00	11146.81	990.00	4.99	30.00	11146.81	990.00	4.99
CONTINUITY SUMMARY (AC-FT) - INFLOW= .7228E+04 EXCESS= .0000E+00 OUTFLOW= .7232E+04 BASIN STORAGE= .1556E+00 PERCENT ERROR= -.1									
15	MANE	.81	29096.19	990.23	3.36	30.00	29091.12	990.00	3.36
CONTINUITY SUMMARY (AC-FT) - INFLOW= .2166E+05 EXCESS= .0000E+00 OUTFLOW= .2166E+05 BASIN STORAGE= .4207E-01 PERCENT ERROR= .0									
11	MANE	9.94	34223.26	1003.88	2.57	30.00	33953.55	1020.00	2.57
CONTINUITY SUMMARY (AC-FT) - INFLOW= .2910E+05 EXCESS= .0000E+00 OUTFLOW= .2909E+05 BASIN STORAGE= .3279E+02 PERCENT ERROR= -.1									
10	MANE	6.97	1040.28	940.81	3.47	30.00	1039.39	960.00	3.47
CONTINUITY SUMMARY (AC-FT) - INFLOW= .7282E+03 EXCESS= .0000E+00 OUTFLOW= .7282E+03 BASIN STORAGE= .1095E-01 PERCENT ERROR= .0									
9	MANE	7.74	35448.07	998.55	2.59	30.00	35301.05	1020.00	2.59
CONTINUITY SUMMARY (AC-FT) - INFLOW= .3025E+05 EXCESS= .0000E+00 OUTFLOW= .3024E+05 BASIN STORAGE= .2610E+02 PERCENT ERROR= .0									
7	MANE	25.87	15785.68	983.24	4.63	30.00	15691.48	990.00	4.63
CONTINUITY SUMMARY (AC-FT) - INFLOW= .1434E+05 EXCESS= .0000E+00 OUTFLOW= .1432E+05 BASIN STORAGE= .3544E+02 PERCENT ERROR= -.2									
6	MANE	30.00	25991.15	1020.00	4.28	30.00	25991.15	1020.00	4.28
CONTINUITY SUMMARY (AC-FT) - INFLOW= .2242E+05 EXCESS= .0000E+00 OUTFLOW= .2241E+05 BASIN STORAGE= .5820E+02 PERCENT ERROR= -.2									
8	MANE	30.00	22316.55	1140.00	3.72	30.00	22316.55	1140.00	3.72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2245E+05 EXCESS= .0000E+00 OUTFLOW= .2244E+05 BASIN STORAGE= .4190E+02 PERCENT ERROR= -.2

5	MANE	30.00	41474.30	1320.00	2.47	30.00	41474.30	1320.00	2.47
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .4177E+05 EXCESS= .0000E+00 OUTFLOW= .4168E+05 BASIN STORAGE= .4856E+03 PERCENT ERROR= -1.0

4	MANE	3.34	44827.87	1321.75	2.49	30.00	44809.28	1320.00	2.49
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .4815E+05 EXCESS= .0000E+00 OUTFLOW= .4814E+05 BASIN STORAGE= .2539E+02 PERCENT ERROR= .0

3	MANE	21.07	62922.52	1285.04	2.55	30.00	62526.12	1290.00	2.55
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .8029E+05 EXCESS= .0000E+00 OUTFLOW= .8018E+05 BASIN STORAGE= .2283E+03 PERCENT ERROR= -.2

2	MANE	24.11	66931.20	1253.67	2.63	30.00	66581.87	1260.00	2.63
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .9037E+05 EXCESS= .0000E+00 OUTFLOW= .9023E+05 BASIN STORAGE= .2916E+03 PERCENT ERROR= -.2

1	MANE	30.00	71466.59	1320.00	2.59	30.00	71466.59	1320.00	2.59
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .9765E+05 EXCESS= .0000E+00 OUTFLOW= .9719E+05 BASIN STORAGE= .1008E+04 PERCENT ERROR= -.6