

|                                    |              |                                 |
|------------------------------------|--------------|---------------------------------|
| 1*****                             | SJR_5-yr.out | *****                           |
| * FLOOD HYDROGRAPH PACKAGE (HEC-1) |              | * U.S. ARMY CORPS OF ENGINEERS  |
| * JUN 1998                         |              | * HYDROLOGIC ENGINEERING CENTER |
| * VERSION 4.1                      |              | * 609 SECOND STREET             |
| * RUN DATE 07OCT16 TIME 16:07:39   |              | * 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      X
XXXXXXX XXXX      X      XXXXX  X
X      X  X      X      X      X
X      X  X      X      X      X
X      X  XXXXXXX  XXXXX      XXX

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

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION

NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION

KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

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

SJR\_5-yr.out

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14      ID      this model in an unsteady simulation. jcc 16AUG2010
      *DIAGRAM
15      IT      60 01APR92      100

16      KK      2 SUBAREAS 1 & 2
17      KM      SAN JACINTO MOUNTAIN AT BAUTISTA CREEK
18      BA      178.5
19      PB      0.394
20      IN      60 01APR92      0135
21      PI      0.012 0.013 0.018 0.021 0.028 0.029 0.038 0.046 0.063 0.082
22      PI      0.070 0.073 0.108 0.114 0.104 0.085 0.014 0.019 0.013 0.012
23      PI      0.011 0.010 0.009 0.008
24      LU      0      0
25      KM      UHG FROM MOUNTAIN S-GRAPH
26      UI      7168. 13829. 21244. 12890. 8592. 5602. 4846. 4024. 3419. 2982.
27      UI      2533. 2303. 2000. 1862. 1684. 1474. 1258. 1212. 1080. 1069.
28      UI      982. 957. 914. 839. 839. 758. 708. 708. 647. 540.
29      UI      540. 540. 525. 392. 392. 392. 392. 392. 335. 143.
30      UI      143. 143. 143. 143. 143. 143. 143. 143. 143. 143.
31      UI      143. 143. 143. 143. 129.
32      ZW      A=S.J.RIVER CP-2 B=2 C=FLOW D=01APR92 E=1HOUR F=

33      KK      3 SUBAREA 3
34      KM      BAUTISTA CREEK
35      BA      51.38
36      PB      0.315
37      IN      60 01APR92      0120
38      PI      0.012 0.013 0.018 0.021 0.028 0.029 0.038 0.046 0.063 0.082
39      PI      0.070 0.073 0.108 0.114 0.104 0.085 0.014 0.019 0.013 0.012
40      PI      0.011 0.010 0.009 0.008
41      LU      0      0
42      KM      UHG FROM MOUNTAIN S-GRAPH
43      UI      3045. 7285. 5462. 3065. 2015. 1581. 1310. 1032. 899. 765.
44      UI      697. 566. 483. 443. 408. 376. 365. 324. 320. 278.
45      UI      270. 245. 206. 206. 196. 150. 150. 150. 150. 79.
46      UI      54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4 54.4
47      UI      54.4 23.4
48      ZW      A=S.J.RIVER CP-3 B=3 C=FLOW D=01APR92 E=1HOUR F=

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1

PAGE 2

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

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49      KK      4 SUBAREA 4
50      KM      POPPET CREEK
51      BA      15.76
52      PB      0.366
53      IN      30 01APR92      0110
54      PI      0.005 0.007 0.006 0.007 0.008 0.010 0.010 0.010 0.012 0.014
55      PI      0.012 0.015 0.017 0.019 0.020 0.024 0.029 0.031 0.037 0.041
56      PI      0.029 0.038 0.036 0.033 0.049 0.054 0.113 0.044 0.050 0.049
57      PI      0.045 0.036 0.008 0.006 0.010 0.009 0.008 0.005 0.007 0.005

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|    |    |                                                                            |              |       |       |       |       |       |       |       |
|----|----|----------------------------------------------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|
|    |    |                                                                            | SJR_5-yr.out |       |       |       |       |       |       |       |
| 58 | PI | 0.006                                                                      | 0.005        | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 |       |
| 59 | LU | 0                                                                          | 0            |       |       |       |       |       |       |       |
| 60 | KM | UHG FROM MOUNTAIN S-GRAPH                                                  |              |       |       |       |       |       |       |       |
| 61 | UI | 3073.                                                                      | 2654.        | 1099. | 728.  | 511.  | 392.  | 291.  | 240.  | 212.  |
| 62 | UI | 162.                                                                       | 126.         | 113.  | 90.   | 88.   | 33.   | 33.   | 33.   | 33.   |
| 63 | UI | 32.6                                                                       | 6.3          |       |       |       |       |       |       |       |
| 64 | ZW | A=S.J.RIVER CP-4 B=4 C=FLOW D=01APR92 E=1HOUR F=                           |              |       |       |       |       |       |       |       |
| 65 | KK | A                                                                          |              |       |       |       |       |       |       |       |
| 66 | KM | BAUTISTA CREEK CONFLUENCE                                                  |              |       |       |       |       |       |       |       |
| 67 | HC | 3                                                                          |              |       |       |       |       |       |       |       |
| 68 | ZW | A=S.J.RIVER CP-A B=A C=FLOW D=01APR92 E=1HOUR F=                           |              |       |       |       |       |       |       |       |
| 69 | KK | A-B ROUTE BAUTISTA CK CONFL. TO MASSACRE CANYON CONFL. NEAR SANDERSON AVE. |              |       |       |       |       |       |       |       |
| 70 | KM | ROUTE CONC.PT.A TO CONC.PT.B                                               |              |       |       |       |       |       |       |       |
| 71 | KM | BASED ON FJP'S PREVIOUS WORK, L=39,290 FT., Vavg=9.2 FPS.                  |              |       |       |       |       |       |       |       |
| 72 | KM | Vw=1.5*Vavg                                                                |              |       |       |       |       |       |       |       |
| 73 | RT | 1                                                                          | 2            | 0     |       |       |       |       |       |       |
| 74 | ZW | A=S.J.RIVER ROUTE A-B B=A-B C=FLOW D=01APR92 E=1HOUR F=                    |              |       |       |       |       |       |       |       |
| 75 | KK | 6 SUBAREA 6                                                                |              |       |       |       |       |       |       |       |
| 76 | KM | MASSACRE CANYON                                                            |              |       |       |       |       |       |       |       |
| 77 | BA | 35.42                                                                      |              |       |       |       |       |       |       |       |
| 78 | PB | 0.335                                                                      |              |       |       |       |       |       |       |       |
| 79 | IN | 30                                                                         | 01APR92      | 0100  |       |       |       |       |       |       |
| 80 | PI | 0.005                                                                      | 0.007        | 0.006 | 0.007 | 0.008 | 0.010 | 0.010 | 0.011 | 0.012 |
| 81 | PI | 0.012                                                                      | 0.015        | 0.017 | 0.019 | 0.020 | 0.024 | 0.029 | 0.032 | 0.037 |
| 82 | PI | 0.029                                                                      | 0.038        | 0.036 | 0.034 | 0.049 | 0.055 | 0.108 | 0.044 | 0.051 |
| 83 | PI | 0.045                                                                      | 0.036        | 0.008 | 0.006 | 0.010 | 0.009 | 0.008 | 0.005 | 0.007 |
| 84 | PI | 0.006                                                                      | 0.005        | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 |       |
| 85 | LU | 0                                                                          | 0            |       |       |       |       |       |       |       |
| 86 | KM | UHG FROM MOUNTAIN S-GRAPH                                                  |              |       |       |       |       |       |       |       |
| 87 | UI | 3842.                                                                      | 6708.        | 2914. | 1774. | 1305. | 960.  | 783.  | 643.  | 506.  |
| 88 | UI | 388.                                                                       | 356.         | 318.  | 283.  | 268.  | 205.  | 205.  | 161.  | 149.  |
| 89 | UI | 82.4                                                                       | 54.1         | 54.1  | 54.1  | 54.1  | 54.1  | 54.1  | 54.1  | 40.4  |
| 90 | KK | 5 SUBAREA 5                                                                |              |       |       |       |       |       |       |       |
| 91 | KM | SOBOBA-GILMAN                                                              |              |       |       |       |       |       |       |       |
| 92 | BA | 12.07                                                                      |              |       |       |       |       |       |       |       |
| 93 | PB | 0.268                                                                      |              |       |       |       |       |       |       |       |
| 94 | IN | 30                                                                         | 01APR92      | 0055  |       |       |       |       |       |       |
| 95 | PI | 0.005                                                                      | 0.007        | 0.006 | 0.007 | 0.008 | 0.010 | 0.010 | 0.011 | 0.013 |
| 96 | PI | 0.013                                                                      | 0.016        | 0.018 | 0.020 | 0.021 | 0.025 | 0.030 | 0.033 | 0.039 |
| 97 | PI | 0.030                                                                      | 0.040        | 0.038 | 0.035 | 0.051 | 0.057 | 0.068 | 0.046 | 0.053 |
| 98 | PI | 0.047                                                                      | 0.038        | 0.008 | 0.006 | 0.010 | 0.009 | 0.008 | 0.005 | 0.007 |

HEC-1 INPUT

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|      |                                                                 |
|------|-----------------------------------------------------------------|
| LINE | ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10 |
| 99   | PI 0.006 0.005 0.005 0.005 0.005 0.004 0.004 0.004              |
| 100  | LU 0 0                                                          |
| 101  | KM UHG FROM MOUNTAIN S-GRAPH                                    |

|     |    | SJR_5-yr.out                                     |       |       |       |       |       |       |       |       |       |
|-----|----|--------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 102 | UI | 2082.                                            | 2170. | 853.  | 570.  | 401.  | 309.  | 227.  | 186.  | 163.  | 144.  |
| 103 | UI | 126.                                             | 110.  | 89.   | 77.   | 65.   | 60.   | 24.   | 24.   | 24.   | 24.   |
| 104 | UI | 23.5                                             | 23.5  | 12.1  |       |       |       |       |       |       |       |
| 105 | KK | B                                                |       |       |       |       |       |       |       |       |       |
| 106 | KM | MASSACRE CANYON CONFLUENCE NEAR SANDERSON AVENUE |       |       |       |       |       |       |       |       |       |
| 107 | HC | 3                                                |       |       |       |       |       |       |       |       |       |
| 108 | ZW | A=S.J.RIVER CP-B B=B C=FLOW D=01APR92 E=1HOUR F= |       |       |       |       |       |       |       |       |       |
| 109 | KK | 7 SUBAREA 7                                      |       |       |       |       |       |       |       |       |       |
| 110 | KM | LAMB CANYON                                      |       |       |       |       |       |       |       |       |       |
| 111 | BA | 5.64                                             |       |       |       |       |       |       |       |       |       |
| 112 | PB | 0.288                                            |       |       |       |       |       |       |       |       |       |
| 113 | IN | 15 01APR92 0045                                  |       |       |       |       |       |       |       |       |       |
| 114 | PI | 0.002                                            | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 |
| 115 | PI | 0.005                                            | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 |
| 116 | PI | 0.006                                            | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 |
| 117 | PI | 0.012                                            | 0.013 | 0.015 | 0.015 | 0.016 | 0.017 | 0.019 | 0.020 | 0.021 | 0.022 |
| 118 | PI | 0.015                                            | 0.015 | 0.020 | 0.020 | 0.019 | 0.019 | 0.017 | 0.018 | 0.025 | 0.026 |
| 119 | PI | 0.028                                            | 0.029 | 0.034 | 0.034 | 0.023 | 0.023 | 0.027 | 0.026 | 0.026 | 0.025 |
| 120 | PI | 0.024                                            | 0.023 | 0.019 | 0.019 | 0.004 | 0.004 | 0.003 | 0.003 | 0.005 | 0.005 |
| 121 | PI | 0.005                                            | 0.004 | 0.004 | 0.004 | 0.003 | 0.002 | 0.003 | 0.004 | 0.003 | 0.002 |
| 122 | PI | 0.003                                            | 0.003 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 |
| 123 | PI | 0.002                                            | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |       |       |       |       |
| 124 | LU | 0 0                                              |       |       |       |       |       |       |       |       |       |
| 125 | KM | UHG FROM MOUNTAIN S-GRAPH                        |       |       |       |       |       |       |       |       |       |
| 126 | UI | 1530.                                            | 793.  | 373.  | 234.  | 161.  | 119.  | 99.   | 82.   | 65.   | 52.   |
| 127 | UI | 42.5                                             | 23.9  | 15.5  | 15.5  | 15.5  | 15.5  | .0    |       |       |       |
| 128 | KK | C                                                |       |       |       |       |       |       |       |       |       |
| 129 | KM | LAMB CANYON CONFLUENCE                           |       |       |       |       |       |       |       |       |       |
| 130 | HC | 2                                                |       |       |       |       |       |       |       |       |       |
| 131 | ZW | A=S.J.RIVER CP-C B=C C=FLOW D=01APR92 E=1HOUR F= |       |       |       |       |       |       |       |       |       |
| 132 | KK | 8 SUBAREA 8                                      |       |       |       |       |       |       |       |       |       |
| 133 | KM | LABORDE CANYON                                   |       |       |       |       |       |       |       |       |       |
| 134 | BA | 9.73                                             |       |       |       |       |       |       |       |       |       |
| 135 | PB | 0.290                                            |       |       |       |       |       |       |       |       |       |
| 136 | IN | 15 01APR92 0045                                  |       |       |       |       |       |       |       |       |       |
| 137 | PI | 0.002                                            | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 |
| 138 | PI | 0.005                                            | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 |
| 139 | PI | 0.006                                            | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 |
| 140 | PI | 0.012                                            | 0.013 | 0.015 | 0.015 | 0.016 | 0.017 | 0.019 | 0.020 | 0.021 | 0.022 |
| 141 | PI | 0.015                                            | 0.015 | 0.020 | 0.020 | 0.019 | 0.019 | 0.017 | 0.018 | 0.025 | 0.026 |
| 142 | PI | 0.028                                            | 0.029 | 0.034 | 0.034 | 0.023 | 0.023 | 0.027 | 0.026 | 0.026 | 0.025 |
| 143 | PI | 0.024                                            | 0.023 | 0.019 | 0.019 | 0.004 | 0.004 | 0.003 | 0.003 | 0.005 | 0.005 |
| 144 | PI | 0.005                                            | 0.004 | 0.004 | 0.004 | 0.003 | 0.002 | 0.003 | 0.004 | 0.003 | 0.002 |
| 145 | PI | 0.003                                            | 0.003 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 |
| 146 | PI | 0.002                                            | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |       |       |       |       |
| 147 | LU | 0 0                                              |       |       |       |       |       |       |       |       |       |
| 148 | KM | UHG FROM MOUNTAIN S-GRAPH                        |       |       |       |       |       |       |       |       |       |
| 149 | UI | 2711.                                            | 1342. | 638.  | 403.  | 272.  | 203.  | 171.  | 141.  | 108.  | 85.   |

| LINE | ID | 1                                                                   | 2    | 3    | 4    | 5    | 6    | 7 | 8 | 9 | 10 |
|------|----|---------------------------------------------------------------------|------|------|------|------|------|---|---|---|----|
| 150  | UI | 75.3                                                                | 27.8 | 27.4 | 27.4 | 27.4 | 16.1 |   |   |   |    |
| 151  | KK | D                                                                   |      |      |      |      |      |   |   |   |    |
| 152  | KM | LABORDE CANYON CONFLUENCE                                           |      |      |      |      |      |   |   |   |    |
| 153  | HC | 2                                                                   |      |      |      |      |      |   |   |   |    |
| 154  | ZW | A=S.J.RIVER CP-D B=D C=FLOW D=01APR92 E=1HOUR F=                    |      |      |      |      |      |   |   |   |    |
| 155  | KK | 9 SUBAREA 9                                                         |      |      |      |      |      |   |   |   |    |
| 156  | KM | SAN JACINTO VALLEY                                                  |      |      |      |      |      |   |   |   |    |
| 157  | BA | 43.98                                                               |      |      |      |      |      |   |   |   |    |
| 158  | PB | 0.237                                                               |      |      |      |      |      |   |   |   |    |
| 159  | IN | 30 01APR92 0050                                                     |      |      |      |      |      |   |   |   |    |
| 160  | PI | 0.005 0.007 0.006 0.007 0.008 0.010 0.010 0.011 0.013 0.015         |      |      |      |      |      |   |   |   |    |
| 161  | PI | 0.013 0.016 0.018 0.020 0.021 0.025 0.030 0.033 0.039 0.043         |      |      |      |      |      |   |   |   |    |
| 162  | PI | 0.030 0.040 0.038 0.035 0.051 0.057 0.068 0.046 0.053 0.051         |      |      |      |      |      |   |   |   |    |
| 163  | PI | 0.047 0.038 0.008 0.006 0.010 0.009 0.008 0.005 0.007 0.005         |      |      |      |      |      |   |   |   |    |
| 164  | PI | 0.006 0.005 0.005 0.005 0.005 0.004 0.004 0.004                     |      |      |      |      |      |   |   |   |    |
| 165  | LU | 0 0                                                                 |      |      |      |      |      |   |   |   |    |
| 166  | KM | UHG FROM MOUNTAIN S-GRAPH                                           |      |      |      |      |      |   |   |   |    |
| 167  | UI | 10816. 6517. 3012. 1883. 1344. 952. 775. 668. 560. 444.             |      |      |      |      |      |   |   |   |    |
| 168  | UI | 370. 299. 210. 109. 109. 109. 109. 81.                              |      |      |      |      |      |   |   |   |    |
| 169  | KK | E                                                                   |      |      |      |      |      |   |   |   |    |
| 170  | KM | BRIDGE STREET                                                       |      |      |      |      |      |   |   |   |    |
| 171  | HC | 2                                                                   |      |      |      |      |      |   |   |   |    |
| 172  | ZW | A=S.J.RIVER CP-E B=E C=FLOW D=01APR92 E=1HOUR F=                    |      |      |      |      |      |   |   |   |    |
| 173  | KK | E-F ROUTE                                                           |      |      |      |      |      |   |   |   |    |
| 174  | KM | ROUTE BRIDGE ST TO SPLIT(before split flow)                         |      |      |      |      |      |   |   |   |    |
| 175  | KM | BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010- MLA             |      |      |      |      |      |   |   |   |    |
| 176  | KM | MYSTIC LAKE FULL CONDITIONS - I.E. 1424 WSE                         |      |      |      |      |      |   |   |   |    |
| 177  | KM | Time Step (Ave Travel Time = 5.09 Hours - Divide by 1.5 Vw=3.39 hr) |      |      |      |      |      |   |   |   |    |
| 178  | KM | Because of this use NSTPS = 3 jcc 9 Feb 2010                        |      |      |      |      |      |   |   |   |    |
| 179  | RS | 3 STOR -1                                                           |      |      |      |      |      |   |   |   |    |
| 180  | SV | 0 5422 6214 7192 8523 9595 10477 11979 15904 18679                  |      |      |      |      |      |   |   |   |    |
| 181  | SV | 20011 21382 22528 23644 27656 31546                                 |      |      |      |      |      |   |   |   |    |
| 182  | SQ | 0 500 1000 2000 4000 6000 8000 10000 15000 20000                    |      |      |      |      |      |   |   |   |    |
| 183  | SQ | 25000 30000 35000 40000 60000 80000                                 |      |      |      |      |      |   |   |   |    |
| 184  | ZW | A=S.J.RIVER ROUTE E-F B=E-F C=FLOW D=01APR92 E=1HOUR F=             |      |      |      |      |      |   |   |   |    |
| 185  | KK | 10 SUBAREA 10                                                       |      |      |      |      |      |   |   |   |    |
| 186  | KM | JACK RABBIT                                                         |      |      |      |      |      |   |   |   |    |
| 187  | BA | 17.9                                                                |      |      |      |      |      |   |   |   |    |
| 188  | PB | 0.262                                                               |      |      |      |      |      |   |   |   |    |
| 189  | IN | 15 01APR92 0035                                                     |      |      |      |      |      |   |   |   |    |
| 190  | PI | 0.002 0.003 0.003 0.004 0.003 0.003 0.003 0.004 0.004 0.004         |      |      |      |      |      |   |   |   |    |
| 191  | PI | 0.005 0.005 0.005 0.005 0.005 0.006 0.006 0.007 0.007 0.008         |      |      |      |      |      |   |   |   |    |
| 192  | PI | 0.006 0.007 0.008 0.008 0.009 0.009 0.010 0.010 0.010 0.011         |      |      |      |      |      |   |   |   |    |

|     |    | SJR_5-yr.out |       |       |       |       |       |       |       |       |       |
|-----|----|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 193 | PI | 0.012        | 0.013 | 0.015 | 0.015 | 0.016 | 0.017 | 0.019 | 0.020 | 0.021 | 0.022 |
| 194 | PI | 0.015        | 0.015 | 0.020 | 0.020 | 0.019 | 0.019 | 0.017 | 0.018 | 0.025 | 0.026 |
| 195 | PI | 0.028        | 0.029 | 0.034 | 0.034 | 0.023 | 0.023 | 0.027 | 0.026 | 0.026 | 0.025 |
| 196 | PI | 0.024        | 0.023 | 0.019 | 0.019 | 0.004 | 0.004 | 0.003 | 0.003 | 0.005 | 0.005 |
| 197 | PI | 0.005        | 0.004 | 0.004 | 0.004 | 0.003 | 0.002 | 0.003 | 0.004 | 0.003 | 0.002 |
| 198 | PI | 0.003        | 0.003 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 |
| 199 | PI | 0.002        | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |       |       |       |       |

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| LINE | ID | .....1                                                             | .....2  | .....3 | .....4 | .....5 | .....6 | .....7 | .....8 | .....9 | .....10 |
|------|----|--------------------------------------------------------------------|---------|--------|--------|--------|--------|--------|--------|--------|---------|
| 200  | LU | 0                                                                  | 0       |        |        |        |        |        |        |        |         |
| 201  | KM | UHG FROM MOUNTAIN S-GRAPH                                          |         |        |        |        |        |        |        |        |         |
| 202  | UI | 5106.                                                              | 2427.   | 1164.  | 741.   | 490.   | 371.   | 315.   | 253.   | 196.   | 148.    |
| 203  | UI | 118.                                                               | 52.     | 52.    | 52.    | 52.    | 10.    |        |        |        |         |
| 204  | KK | 11 SUBAREA 11                                                      |         |        |        |        |        |        |        |        |         |
| 205  | KM | BADLANDS                                                           |         |        |        |        |        |        |        |        |         |
| 206  | BA | 18.1                                                               |         |        |        |        |        |        |        |        |         |
| 207  | PB | 0.266                                                              |         |        |        |        |        |        |        |        |         |
| 208  | IN | 15                                                                 | 01APR92 | 0030   |        |        |        |        |        |        |         |
| 209  | PI | 0.002                                                              | 0.003   | 0.003  | 0.004  | 0.003  | 0.003  | 0.003  | 0.004  | 0.004  | 0.004   |
| 210  | PI | 0.005                                                              | 0.005   | 0.005  | 0.005  | 0.005  | 0.006  | 0.006  | 0.007  | 0.007  | 0.008   |
| 211  | PI | 0.006                                                              | 0.007   | 0.008  | 0.008  | 0.009  | 0.009  | 0.010  | 0.010  | 0.010  | 0.011   |
| 212  | PI | 0.012                                                              | 0.013   | 0.015  | 0.015  | 0.016  | 0.017  | 0.019  | 0.020  | 0.021  | 0.022   |
| 213  | PI | 0.015                                                              | 0.015   | 0.020  | 0.020  | 0.019  | 0.019  | 0.017  | 0.018  | 0.025  | 0.026   |
| 214  | PI | 0.028                                                              | 0.029   | 0.034  | 0.034  | 0.023  | 0.023  | 0.027  | 0.026  | 0.026  | 0.025   |
| 215  | PI | 0.024                                                              | 0.023   | 0.019  | 0.019  | 0.004  | 0.004  | 0.003  | 0.003  | 0.005  | 0.005   |
| 216  | PI | 0.005                                                              | 0.004   | 0.004  | 0.004  | 0.003  | 0.002  | 0.003  | 0.004  | 0.003  | 0.002   |
| 217  | PI | 0.003                                                              | 0.003   | 0.003  | 0.002  | 0.003  | 0.002  | 0.003  | 0.002  | 0.003  | 0.002   |
| 218  | PI | 0.002                                                              | 0.002   | 0.002  | 0.002  | 0.002  | 0.002  |        |        |        |         |
| 219  | LU | 0                                                                  | 0       |        |        |        |        |        |        |        |         |
| 220  | KM | UHG FROM MOUNTAIN S-GRAPH                                          |         |        |        |        |        |        |        |        |         |
| 221  | UI | 5318.                                                              | 2417.   | 1164.  | 735.   | 482.   | 381.   | 309.   | 246.   | 192.   | 149.    |
| 222  | UI | 85.6                                                               | 54.3    | 54.3   | 54.3   | 34.1   |        |        |        |        |         |
| 223  | KK | F                                                                  |         |        |        |        |        |        |        |        |         |
| 224  | KM | SPLIT                                                              |         |        |        |        |        |        |        |        |         |
| 225  | HC | 3                                                                  |         |        |        |        |        |        |        |        |         |
| 226  | ZW | A=S.J.RIVER CP-F B=F C=FLOW D=01APR92 E=1HOUR F=                   |         |        |        |        |        |        |        |        |         |
| 227  | KK | F-F1 ROUTE                                                         |         |        |        |        |        |        |        |        |         |
| 228  | KM | ROUTE FROM SPLIT TO DAVIST ST(flows confluence)                    |         |        |        |        |        |        |        |        |         |
| 229  | KM | BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010- MLA            |         |        |        |        |        |        |        |        |         |
| 230  | KM | MYSTIC LAKE FULL CONDITIONS - I.E. 1424 WSE                        |         |        |        |        |        |        |        |        |         |
| 231  | KM | Time Step (Ave Travel Time = 1.21 Hours - Divide by 1.5 Vw=0.85hr) |         |        |        |        |        |        |        |        |         |
| 232  | KM | Because of this use NSTPS = 1 jcc 9 Feb 2010                       |         |        |        |        |        |        |        |        |         |
| 233  | RS | 1                                                                  | STOR    | -1     |        |        |        |        |        |        |         |
| 234  | SV | 0                                                                  | 323     | 477    | 756    | 1089   | 1399   | 1769   | 2396   | 3861   | 4797    |
| 235  | SV | 5197                                                               | 5620    | 5974   | 6312   | 7535   | 8774   |        |        |        |         |
| 236  | SQ | 0                                                                  | 500     | 1000   | 2000   | 4000   | 6000   | 8000   | 10000  | 15000  | 20000   |
| 237  | SQ | 25000                                                              | 30000   | 35000  | 40000  | 60000  | 80000  |        |        |        |         |

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238 ZW A=S.J.RIVER ROUTE F-F1 B=F-F1 C=FLOW D=01APR92 E=1HOUR F=

239 KK F1-G ROUTE

240 KM ROUTE DAVIS ST TO RAMONA EXPRESSWAY

241 KM BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010- MLA

242 KM Time Step (Ave Travel Time = 1.93 Hours - Divide by 1.5 Vw=1.29hr)

243 KM Because of this use NSTPS = 1 jcc 9 Feb 2010

|        |       |       |       |       |       |       |      |       |       |       |
|--------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| 244 RS | 1     | STOR  | -1    |       |       |       |      |       |       |       |
| 245 SV | 0     | 264   | 420   | 750   | 1477  | 2316  | 3171 | 4009  | 5337  | 6072  |
| 246 SV | 6339  | 6631  | 6869  | 7092  | 7863  | 8661  |      |       |       |       |
| 247 SQ | 0     | 500   | 1000  | 2000  | 4000  | 6000  | 8000 | 10000 | 15000 | 20000 |
| 248 SQ | 25000 | 30000 | 35000 | 40000 | 60000 | 80000 |      |       |       |       |

249 ZW A=S.J.RIVER ROUTE F-G B=F-G C=FLOW D=01APR92 E=1HOUR F=

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|        |       |                                                               |                |       |       |       |       |       |       |       |
|--------|-------|---------------------------------------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 250 KK | 12A   | LAKEVIEW SUB-AREA                                             | (30% FOOTHILL) |       |       |       |       |       |       |       |
| 251 KM |       | COMBINE LAKEVIEW SUB-AREA AT THE U/S OF RAMONA EXPWY PER CDJ. |                |       |       |       |       |       |       |       |
| 252 BA | 12.26 | 0                                                             | 0.30           |       |       |       |       |       |       |       |
| 253 PB | 0.255 |                                                               |                |       |       |       |       |       |       |       |
| 254 IN | 15    | 01APR92                                                       | 0030           |       |       |       |       |       |       |       |
| 255 PI | 0.002 | 0.003                                                         | 0.003          | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 |
| 256 PI | 0.005 | 0.005                                                         | 0.005          | 0.005 | 0.005 | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 |
| 257 PI | 0.006 | 0.007                                                         | 0.008          | 0.008 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 |
| 258 PI | 0.012 | 0.013                                                         | 0.015          | 0.015 | 0.016 | 0.017 | 0.019 | 0.020 | 0.021 | 0.022 |
| 259 PI | 0.015 | 0.015                                                         | 0.020          | 0.020 | 0.019 | 0.019 | 0.017 | 0.018 | 0.025 | 0.026 |
| 260 PI | 0.028 | 0.029                                                         | 0.034          | 0.034 | 0.023 | 0.023 | 0.027 | 0.026 | 0.026 | 0.025 |
| 261 PI | 0.024 | 0.023                                                         | 0.019          | 0.019 | 0.004 | 0.004 | 0.003 | 0.003 | 0.005 | 0.005 |
| 262 PI | 0.005 | 0.004                                                         | 0.004          | 0.004 | 0.003 | 0.002 | 0.003 | 0.004 | 0.003 | 0.002 |
| 263 PI | 0.003 | 0.003                                                         | 0.003          | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 |
| 264 PI | 0.002 | 0.002                                                         | 0.002          | 0.002 | 0.002 | 0.002 |       |       |       |       |
| 265 LU | 0     | 0                                                             |                |       |       |       |       |       |       |       |
| 266 KM |       | UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH                 |                |       |       |       |       |       |       |       |
| 267 UI | 5203. | 1918.                                                         | 587.           | 104.  | 72.   | 24.   |       |       |       |       |

  

|        |       |                                                               |              |       |       |       |       |       |       |       |
|--------|-------|---------------------------------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|
| 268 KK | 12A1  | LAKEVIEW SUB-AREA                                             | (70% VALLEY) |       |       |       |       |       |       |       |
| 269 KM |       | COMBINE LAKEVIEW SUB-AREA AT THE U/S OF RAMONA EXPWY PER CDJ. |              |       |       |       |       |       |       |       |
| 270 BA | 12.26 | 0                                                             | 0.70         |       |       |       |       |       |       |       |
| 271 PB | 0.255 |                                                               |              |       |       |       |       |       |       |       |
| 272 IN | 15    | 01APR92                                                       | 0030         |       |       |       |       |       |       |       |
| 273 PI | 0.002 | 0.003                                                         | 0.003        | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 |
| 274 PI | 0.005 | 0.005                                                         | 0.005        | 0.005 | 0.005 | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 |
| 275 PI | 0.006 | 0.007                                                         | 0.008        | 0.008 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 |
| 276 PI | 0.012 | 0.013                                                         | 0.015        | 0.015 | 0.016 | 0.017 | 0.019 | 0.020 | 0.021 | 0.022 |
| 277 PI | 0.015 | 0.015                                                         | 0.020        | 0.020 | 0.019 | 0.019 | 0.017 | 0.018 | 0.025 | 0.026 |
| 278 PI | 0.028 | 0.029                                                         | 0.034        | 0.034 | 0.023 | 0.023 | 0.027 | 0.026 | 0.026 | 0.025 |
| 279 PI | 0.024 | 0.023                                                         | 0.019        | 0.019 | 0.004 | 0.004 | 0.003 | 0.003 | 0.005 | 0.005 |
| 280 PI | 0.005 | 0.004                                                         | 0.004        | 0.004 | 0.003 | 0.002 | 0.003 | 0.004 | 0.003 | 0.002 |
| 281 PI | 0.003 | 0.003                                                         | 0.003        | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 |
| 282 PI | 0.002 | 0.002                                                         | 0.002        | 0.002 | 0.002 | 0.002 |       |       |       |       |

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283 LU      0      0
284 KM      UHG FROM VALLEY S-GRAPH
285 UI      5042.   1654.   601.   320.   166.   99.   24.

286 KK      G
287 KM      RAMONA EXPRESSWAY
288 HC      3      0
289 ZW      A=S.J.RIVER CP-G B=G C=FLOW D=01APR92 E=1HOUR F=

290 KK      G-H ROUTE
291 KM      ROUTE SAN JACINTO RIVER FROM RAMONA EXPRESSWAY TO I-215
292 KM      BASED ON SV-SQ DATA FROM HEC-RAS Updated 14Apr2010 - MLA
293 KM      Time Step (Ave Travel Time = 4.78 Hours - Divide by 1.5 Vw=3.19 hr)
294 KM      Because of this use NSTPS = 3 jcc 9 Feb 2010)
295 RS      3      STOR      -1
296 SV      0      804      1484      2507      6171      8267      10090      10684      12155      14679
297 SV      17916      21184      24492      27854      40596      52905
298 SQ      0      500      1000      2000      4000      6000      8000      10000      15000      20000
299 SQ      25000      30000      35000      40000      60000      80000
300 ZW      A=S.J.RIVER ROUTE G-H B=G-H C=FLOW D=01APR92 E=1HOUR F=
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301 KK      13 SUBAREA 13
302 KM      NUEVO(40% MOUNTAIN)
303 KM      COMBINE AT THE D/S OF RAMONA EXPWY PER CDJ
304 BA      25.74      0      0.4
305 PB      0.262
306 IN      15 01APR92      0020
307 PI      0.002      0.003      0.003      0.004      0.003      0.003      0.003      0.004      0.004      0.004
308 PI      0.005      0.005      0.005      0.005      0.005      0.006      0.006      0.007      0.007      0.008
309 PI      0.006      0.007      0.008      0.008      0.009      0.009      0.010      0.010      0.010      0.011
310 PI      0.012      0.013      0.015      0.015      0.016      0.017      0.019      0.020      0.021      0.022
311 PI      0.015      0.015      0.020      0.020      0.019      0.019      0.017      0.018      0.025      0.026
312 PI      0.028      0.029      0.034      0.034      0.023      0.023      0.027      0.026      0.026      0.025
313 PI      0.024      0.023      0.019      0.019      0.004      0.004      0.003      0.003      0.005      0.005
314 PI      0.005      0.004      0.004      0.004      0.003      0.002      0.003      0.004      0.003      0.002
315 PI      0.003      0.003      0.003      0.002      0.003      0.002      0.003      0.002      0.003      0.002
316 PI      0.002      0.002      0.002      0.002      0.002      0.002
317 LU      0      0
318 KM      UHG FROM MOUNTAIN S-GRAPH
319 UI      4499.   4599.   1816.   1212.   853.   658.   484.   397.   348.   306.
320 UI      266.   231.   191.   160.   139.   121.   50.   50.   50.   50.
321 UI      50.5   50.5   19.0

322 KK      13 SUBAREA 13
323 KM      NUEVO(60% VALLEY)
324 KM      COMBINE AT THE D/S OF RAMONA EXPWY PER CDJ
325 BA      25.74      0      0.6
326 PB      0.262

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|     |    |                                                                 |            |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
|-----|----|-----------------------------------------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|
| 327 | IN | 15                                                              | 01APR92    | 0020  |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 328 | PI | 0.002                                                           | 0.003      | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 |  |  |  |  |  |  |  |  |  |
| 329 | PI | 0.005                                                           | 0.005      | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 |  |  |  |  |  |  |  |  |  |
| 330 | PI | 0.006                                                           | 0.007      | 0.008 | 0.008 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 |  |  |  |  |  |  |  |  |  |
| 331 | PI | 0.012                                                           | 0.013      | 0.015 | 0.015 | 0.016 | 0.017 | 0.019 | 0.020 | 0.021 | 0.022 |  |  |  |  |  |  |  |  |  |
| 332 | PI | 0.015                                                           | 0.015      | 0.020 | 0.020 | 0.019 | 0.019 | 0.017 | 0.018 | 0.025 | 0.026 |  |  |  |  |  |  |  |  |  |
| 333 | PI | 0.028                                                           | 0.029      | 0.034 | 0.034 | 0.023 | 0.023 | 0.027 | 0.026 | 0.026 | 0.025 |  |  |  |  |  |  |  |  |  |
| 334 | PI | 0.024                                                           | 0.023      | 0.019 | 0.019 | 0.004 | 0.004 | 0.003 | 0.003 | 0.005 | 0.005 |  |  |  |  |  |  |  |  |  |
| 335 | PI | 0.005                                                           | 0.004      | 0.004 | 0.004 | 0.003 | 0.002 | 0.003 | 0.004 | 0.003 | 0.002 |  |  |  |  |  |  |  |  |  |
| 336 | PI | 0.003                                                           | 0.003      | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 |  |  |  |  |  |  |  |  |  |
| 337 | PI | 0.002                                                           | 0.002      | 0.002 | 0.002 | 0.002 | 0.002 |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 338 | LU | 0                                                               | 0          |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 339 | KM | UHG FROM VALLEY S-GRAPH                                         |            |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 340 | UI | 3331.                                                           | 6377.      | 2585. | 1309. | 803.  | 580.  | 416.  | 326.  | 259.  | 187.  |  |  |  |  |  |  |  |  |  |
| 341 | UI | 141.                                                            | 92.        | 92.   | 92.   | 11.   |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 342 | KK | NUEVDS                                                          |            |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 343 | KM | COMBINE THE SAN JACINTO RIVER WITH SUBAREAS 12&13               |            |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 344 | HC | 3                                                               | 0          |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 345 | KK | 14                                                              | SUBAREA 14 |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 346 | KM | PERRIS VALLEY                                                   |            |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 347 | KM | 1                                                               |            |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 348 | KM | THE FOLLOWING INFORMATION WERE OBTAINED FROM PREVIOUS WORKS     |            |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 349 | KM | PERFORMED BY B.C. & C.V.A. DATED 4/88. FILENAME :CP4.DAT        |            |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 350 | KM | THE PERRIS VALLEY AREA INCLUDED THE PIGEON PASS DRAINAGE AREAS. |            |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |
| 351 | KM | TOTAL DRAINAGE AREAS = 85.44 SQ.MI.                             |            |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |

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|------|----|--------------------------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| 352  | KM | ALL HYDROGRAPHS ADJUSTED FOR YIELD AT NUEVO RD. / CP-4 |         |       |       |       |       |       |       |       |       |
| 353  | KM | INFLOW TO PIGEON PASS RESERVIOR                        |         |       |       |       |       |       |       |       |       |
| 354  | KM | ULTIMATE DEVELOPMENT ALL BASINS IN PLACE               |         |       |       |       |       |       |       |       |       |
| 355  | BA | 9.031                                                  |         |       |       |       |       |       |       |       |       |
| 356  | PB | 0.243                                                  |         |       |       |       |       |       |       |       |       |
| 357  | IN | 30                                                     | 01APR92 | 0010  |       |       |       |       |       |       |       |
| 358  | PI | 0.005                                                  | 0.007   | 0.006 | 0.007 | 0.008 | 0.010 | 0.010 | 0.011 | 0.013 | 0.015 |
| 359  | PI | 0.013                                                  | 0.016   | 0.018 | 0.020 | 0.021 | 0.025 | 0.030 | 0.033 | 0.039 | 0.043 |
| 360  | PI | 0.030                                                  | 0.040   | 0.038 | 0.035 | 0.051 | 0.057 | 0.068 | 0.046 | 0.053 | 0.051 |
| 361  | PI | 0.047                                                  | 0.038   | 0.008 | 0.006 | 0.010 | 0.009 | 0.008 | 0.005 | 0.007 | 0.005 |
| 362  | PI | 0.006                                                  | 0.005   | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 |       |       |
| 363  | LU | 0                                                      | 0       |       |       |       |       |       |       |       |       |
| 364  | KM | UHG FROM VALLEY S-GRAPH                                |         |       |       |       |       |       |       |       |       |
| 365  | UI | 3898.                                                  | 1128.   | 417.  | 215.  | 104.  | 62.   |       |       |       |       |
| 366  | KK | PB                                                     |         |       |       |       |       |       |       |       |       |
| 367  | KM | PIGEON PASS RESERVOIR ROUTING                          |         |       |       |       |       |       |       |       |       |
| 368  | RS | 1                                                      | ELEV    | 1670  |       |       |       |       |       |       |       |
| 369  | SV | 0                                                      | 24      | 124   | 314   | 565   | 885   | 1720  | 1720  |       |       |
| 370  | SE | 1670                                                   | 1676    | 1680  | 1684  | 1688  | 1692  | 1696  | 1700  |       |       |
| 371  | SQ | 0                                                      | 80      | 90    | 100   | 110   | 120   | 130   |       |       |       |

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|     |    |                                               |         |        |       |        |        |        |       |       |
|-----|----|-----------------------------------------------|---------|--------|-------|--------|--------|--------|-------|-------|
| 372 | SE | 1670                                          | 1671    | 1674   | 1678  | 1683.5 | 1689.5 | 1695.5 |       |       |
| 373 | KK | IA                                            |         |        |       |        |        |        |       |       |
| 374 | KM | LOCAL AREA TRIBUTARY TO INDIAN-FESTIVAL BASIN |         |        |       |        |        |        |       |       |
| 375 | BA | 1.172                                         |         |        |       |        |        |        |       |       |
| 376 | PB | 0.244                                         |         |        |       |        |        |        |       |       |
| 377 | IN | 30                                            | 01APR92 | 0010   |       |        |        |        |       |       |
| 378 | PI | 0.005                                         | 0.007   | 0.006  | 0.007 | 0.008  | 0.010  | 0.010  | 0.011 | 0.013 |
| 379 | PI | 0.013                                         | 0.016   | 0.018  | 0.020 | 0.021  | 0.025  | 0.030  | 0.033 | 0.039 |
| 380 | PI | 0.030                                         | 0.040   | 0.038  | 0.035 | 0.051  | 0.057  | 0.068  | 0.046 | 0.053 |
| 381 | PI | 0.047                                         | 0.038   | 0.008  | 0.006 | 0.010  | 0.009  | 0.008  | 0.005 | 0.007 |
| 382 | PI | 0.006                                         | 0.005   | 0.005  | 0.005 | 0.005  | 0.004  | 0.004  | 0.004 |       |
| 383 | LU | 0                                             | 0       |        |       |        |        |        |       |       |
| 384 | KM | UHG FROM VALLEY S-GRAPH                       |         |        |       |        |        |        |       |       |
| 385 | UI | 713.                                          | 43.     |        |       |        |        |        |       |       |
| 386 | KK | IA                                            |         |        |       |        |        |        |       |       |
| 387 | KM | INFLOW HYDROGRAPH FOR INDIAN-FESTIVAL BASIN   |         |        |       |        |        |        |       |       |
| 388 | HC | 2                                             |         |        |       |        |        |        |       |       |
| 389 | KK | IB                                            |         |        |       |        |        |        |       |       |
| 390 | KM | INDIAN STREET (FESTIVAL) BASIN ROUTING        |         |        |       |        |        |        |       |       |
| 391 | RS | 1                                             | ELEV    | 1635.5 |       |        |        |        |       |       |
| 392 | SA | 0                                             | .57     | 3.52   | 8.9   | 10.9   | 11.1   | 11.3   | 11.5  | 11.6  |
| 393 | SA | 11.9                                          | 12.1    |        |       |        |        |        |       |       |
| 394 | SE | 1635.5                                        | 1636    | 1637   | 1638  | 1639   | 1640   | 1641   | 1642  | 1643  |
| 395 | SE | 1645                                          | 1646    |        |       |        |        |        |       |       |
| 396 | SQ | 0                                             | 15      | 23     | 56    | 88     | 117    | 137    | 155   | 173   |
| 397 | SQ | 205                                           | 220     |        |       |        |        |        |       |       |

HEC-1 INPUT

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|     |    |                                               |         |       |       |       |       |       |       |       |
|-----|----|-----------------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|
| 398 | KK | LA                                            |         |       |       |       |       |       |       |       |
| 399 | KM | TRIBUTARY AREA FOR LASSELLE BASIN             |         |       |       |       |       |       |       |       |
| 400 | BA | .689                                          |         |       |       |       |       |       |       |       |
| 401 | PB | 0.262                                         |         |       |       |       |       |       |       |       |
| 402 | IN | 30                                            | 01APR92 | 0010  |       |       |       |       |       |       |
| 403 | PI | 0.005                                         | 0.007   | 0.006 | 0.007 | 0.008 | 0.010 | 0.010 | 0.011 | 0.013 |
| 404 | PI | 0.013                                         | 0.016   | 0.018 | 0.020 | 0.021 | 0.025 | 0.030 | 0.033 | 0.039 |
| 405 | PI | 0.030                                         | 0.040   | 0.038 | 0.035 | 0.051 | 0.057 | 0.068 | 0.046 | 0.053 |
| 406 | PI | 0.047                                         | 0.038   | 0.008 | 0.006 | 0.010 | 0.009 | 0.008 | 0.005 | 0.007 |
| 407 | PI | 0.006                                         | 0.005   | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 |       |
| 408 | LU | 0                                             | 0       |       |       |       |       |       |       |       |
| 409 | KM | UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH |         |       |       |       |       |       |       |       |
| 410 | UI | 429.                                          | 16.     |       |       |       |       |       |       |       |
| 411 | KK | LB                                            |         |       |       |       |       |       |       |       |
| 412 | KM | LASSELLE BASIN ROUTING                        |         |       |       |       |       |       |       |       |
| 413 | RS | 1                                             | ELEV    | 1734  |       |       |       |       |       |       |
| 414 | SV | 0                                             | .5      | 1.75  | 4.25  | 9.75  | 29    | 47.5  |       |       |

|      |    |                                                               |         |       |             |              |       |       |       |       |       |
|------|----|---------------------------------------------------------------|---------|-------|-------------|--------------|-------|-------|-------|-------|-------|
|      |    |                                                               |         |       |             | SJR_5-yr.out |       |       |       |       |       |
| 415  | SE | 1734                                                          | 1735    | 1736  | 1737        | 1739         | 1742  | 1745  |       |       |       |
| 416  | SQ | 0                                                             | 20      | 40    | 60          | 75           | 235   | 800   |       |       |       |
| 417  | SE | 1734                                                          | 1736    | 1739  | 1745        | 1745.5       | 1746  | 1747  |       |       |       |
| 418  | KK | NA                                                            |         |       |             |              |       |       |       |       |       |
| 419  | KM | TRIBUTARY AREA FOR NASON BASIN                                |         |       |             |              |       |       |       |       |       |
| 420  | BA | 4.329                                                         |         |       |             |              |       |       |       |       |       |
| 421  | PB | 0.275                                                         |         |       |             |              |       |       |       |       |       |
| 422  | IN | 30                                                            | 01APR92 | 0010  |             |              |       |       |       |       |       |
| 423  | PI | 0.005                                                         | 0.007   | 0.006 | 0.007       | 0.008        | 0.010 | 0.010 | 0.011 | 0.013 | 0.015 |
| 424  | PI | 0.013                                                         | 0.016   | 0.018 | 0.020       | 0.021        | 0.025 | 0.030 | 0.033 | 0.039 | 0.043 |
| 425  | PI | 0.030                                                         | 0.040   | 0.038 | 0.035       | 0.051        | 0.057 | 0.068 | 0.046 | 0.053 | 0.051 |
| 426  | PI | 0.047                                                         | 0.038   | 0.008 | 0.006       | 0.010        | 0.009 | 0.008 | 0.005 | 0.007 | 0.005 |
| 427  | PI | 0.006                                                         | 0.005   | 0.005 | 0.005       | 0.005        | 0.004 | 0.004 | 0.004 |       |       |
| 428  | LU | 0                                                             | 0       |       |             |              |       |       |       |       |       |
| 429  | KM | UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH                 |         |       |             |              |       |       |       |       |       |
| 430  | UI | 1923.                                                         | 641.    | 175.  | 27.         | 26.          |       |       |       |       |       |
| 431  | KK | NB                                                            |         |       |             |              |       |       |       |       |       |
| 432  | KM | NASON BASIN ROUTING                                           |         |       |             |              |       |       |       |       |       |
| 433  | RS | 1                                                             | ELEV    | 58    |             |              |       |       |       |       |       |
| 434  | SV | 0                                                             | 5.1     | 21.8  | 47.6        | 357          |       |       |       |       |       |
| 435  | SE | 58                                                            | 60      | 62    | 64          | 84           |       |       |       |       |       |
| 436  | SQ | 0                                                             | 7.6     | 29.8  | 65.2        | 113          | 173   | 239   | 270   | 296.4 | 320.7 |
| 437  | SQ | 342                                                           | 363     | 382.7 | 419.2       | 452.8        | 484   | 513.4 | 541.2 | 567.6 | 592.8 |
| 438  | SE | 58                                                            | 58.8    | 59.7  | 60.6        | 61.6         | 62.6  | 63.9  | 65    | 66    | 67    |
| 439  | SE | 68                                                            | 69      | 70    | 72          | 74           | 76    | 78    | 80    | 82    | 84    |
| 440  | KK | SA                                                            |         |       |             |              |       |       |       |       |       |
| 441  | KM | AREA TRIBUTARY TO SINCLAIR BASIN                              |         |       |             |              |       |       |       |       |       |
| 442  | BA | 4.34                                                          |         |       |             |              |       |       |       |       |       |
| 443  | PB | 0.274                                                         |         |       |             |              |       |       |       |       |       |
| 444  | IN | 30                                                            | 01APR92 | 0010  |             |              |       |       |       |       |       |
| 445  | PI | 0.005                                                         | 0.007   | 0.006 | 0.007       | 0.008        | 0.010 | 0.010 | 0.011 | 0.013 | 0.015 |
| 446  | PI | 0.013                                                         | 0.016   | 0.018 | 0.020       | 0.021        | 0.025 | 0.030 | 0.033 | 0.039 | 0.043 |
| 447  | PI | 0.030                                                         | 0.040   | 0.038 | 0.035       | 0.051        | 0.057 | 0.068 | 0.046 | 0.053 | 0.051 |
|      |    |                                                               |         |       | HEC-1 INPUT |              |       |       |       |       |       |
| LINE | ID | 1                                                             | 2       | 3     | 4           | 5            | 6     | 7     | 8     | 9     | 10    |
| 448  | PI | 0.047                                                         | 0.038   | 0.008 | 0.006       | 0.010        | 0.009 | 0.008 | 0.005 | 0.007 | 0.005 |
| 449  | PI | 0.006                                                         | 0.005   | 0.005 | 0.005       | 0.005        | 0.004 | 0.004 | 0.004 |       |       |
| 450  | LU | 0                                                             | 0       |       |             |              |       |       |       |       |       |
| 451  | KM | UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH                 |         |       |             |              |       |       |       |       |       |
| 452  | UI | 1969.                                                         | 624.    | 156.  | 28.         | 22.          |       |       |       |       |       |
| 453  | KM | SINCLAIR BASIN ROUTING REMOVED TO REFLECT EXISTING CONDITIONS |         |       |             |              |       |       |       |       |       |
| 454  | KM | JCC 21 AUG 2009                                               |         |       |             |              |       |       |       |       |       |
| 455  | KK | CP1                                                           |         |       |             |              |       |       |       |       |       |
| 456  | KM | COMBINE ALL SUNNY/MOR BASIN OUTFLOWS                          |         |       |             |              |       |       |       |       |       |
| 457  | HC | 4                                                             |         |       |             |              |       |       |       |       |       |

SJR\_5-yr.out

|             |    |                                                               |         |       |       |       |       |       |       |       |       |
|-------------|----|---------------------------------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| 458         | KK | CP4A                                                          |         |       |       |       |       |       |       |       |       |
| 459         | KM | TOTAL WATERSHED ABOVE CP4 EXCLUDING BASIN AREAS               |         |       |       |       |       |       |       |       |       |
| 460         | BA | 62.87                                                         |         |       |       |       |       |       |       |       |       |
| 461         | PB | 0.239                                                         |         |       |       |       |       |       |       |       |       |
| 462         | IN | 30                                                            | 01APR92 | 0010  |       |       |       |       |       |       |       |
| 463         | PI | 0.005                                                         | 0.007   | 0.006 | 0.007 | 0.008 | 0.010 | 0.010 | 0.011 | 0.013 | 0.015 |
| 464         | PI | 0.013                                                         | 0.016   | 0.018 | 0.020 | 0.021 | 0.025 | 0.030 | 0.033 | 0.039 | 0.043 |
| 465         | PI | 0.030                                                         | 0.040   | 0.038 | 0.035 | 0.051 | 0.057 | 0.068 | 0.046 | 0.053 | 0.051 |
| 466         | PI | 0.047                                                         | 0.038   | 0.008 | 0.006 | 0.010 | 0.009 | 0.008 | 0.005 | 0.007 | 0.005 |
| 467         | PI | 0.006                                                         | 0.005   | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 |       |       |
| 468         | LU | 0                                                             | 0       |       |       |       |       |       |       |       |       |
| 469         | KM | UHG FROM VALLEY S-GGRAPH                                      |         |       |       |       |       |       |       |       |       |
| 470         | UI | 13598.                                                        | 14837.  | 4768. | 2487. | 1625. | 1087. | 788.  | 579.  | 300.  | 300.  |
| 471         | UI | 182.                                                          |         |       |       |       |       |       |       |       |       |
|             |    |                                                               |         |       |       |       |       |       |       |       |       |
| 472         | KK | SEATA                                                         |         |       |       |       |       |       |       |       |       |
| 473         | KM | AREA TRIBUTARY TO SEATON BASIN                                |         |       |       |       |       |       |       |       |       |
| 474         | BA | 3.01                                                          |         |       |       |       |       |       |       |       |       |
| 475         | PB | 0.249                                                         |         |       |       |       |       |       |       |       |       |
| 476         | IN | 30                                                            | 01APR92 | 0010  |       |       |       |       |       |       |       |
| 477         | PI | 0.005                                                         | 0.007   | 0.006 | 0.007 | 0.008 | 0.010 | 0.010 | 0.011 | 0.013 | 0.015 |
| 478         | PI | 0.013                                                         | 0.016   | 0.018 | 0.020 | 0.021 | 0.025 | 0.030 | 0.033 | 0.039 | 0.043 |
| 479         | PI | 0.030                                                         | 0.040   | 0.038 | 0.035 | 0.051 | 0.057 | 0.068 | 0.046 | 0.053 | 0.051 |
| 480         | PI | 0.047                                                         | 0.038   | 0.008 | 0.006 | 0.010 | 0.009 | 0.008 | 0.005 | 0.007 | 0.005 |
| 481         | PI | 0.006                                                         | 0.005   | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 |       |       |
| 482         | LU | 0                                                             | 0       |       |       |       |       |       |       |       |       |
| 483         | KM | UHG FROM AVERAGE FULLERTON - SAN JOSE S-GGRAPH                |         |       |       |       |       |       |       |       |       |
| 484         | UI | 1433.                                                         | 398.    | 80.   | 21.   | 9.    |       |       |       |       |       |
| 485         | KM | SEATON BASIN ROUTING REMOVED TO REFLECT EXISTING CONDITIONS   |         |       |       |       |       |       |       |       |       |
| 486         | KM | JCC 21 AUG 2009                                               |         |       |       |       |       |       |       |       |       |
|             |    |                                                               |         |       |       |       |       |       |       |       |       |
| 487         | KK | CP4                                                           |         |       |       |       |       |       |       |       |       |
| 488         | KM | TOTAL HYDROGRAPH AT CP4 / NUEVO ROAD                          |         |       |       |       |       |       |       |       |       |
| 489         | HC | 3                                                             |         |       |       |       |       |       |       |       |       |
|             |    |                                                               |         |       |       |       |       |       |       |       |       |
| 490         | KK | COMB                                                          |         |       |       |       |       |       |       |       |       |
| 491         | KM | COMBINED PERRIS VALLEY WITH THE PREVIOUS HYDROGRAPHS          |         |       |       |       |       |       |       |       |       |
| 492         | HC | 2                                                             | 0       |       |       |       |       |       |       |       |       |
|             |    |                                                               |         |       |       |       |       |       |       |       |       |
| HEC-1 INPUT |    |                                                               |         |       |       |       |       |       |       |       |       |
| LINE        | ID | .....1.....2.....3.....4.....5.....6.....7.....8.....9.....10 |         |       |       |       |       |       |       |       |       |
|             |    |                                                               |         |       |       |       |       |       |       |       |       |
| 493         | KK | 15B ROMOLAND SUB-AREA (B-SYSTEM)                              |         |       |       |       |       |       |       |       |       |
| 494         | KM | COMBINE DRAINAGE AREA FOR LINE B AT THE UPSTREAM OF I-215     |         |       |       |       |       |       |       |       |       |
| 495         | KM | PER CDJ. HYDROLOGY INFO. WERE TAKEN FROM MDP BACKUPS          |         |       |       |       |       |       |       |       |       |
| 496         | KM | UHG 30%Foothill                                               |         |       |       |       |       |       |       |       |       |
| 497         | BA | 4.27                                                          | 0.3     |       |       |       |       |       |       |       |       |
| 498         | PB | 0.256                                                         |         |       |       |       |       |       |       |       |       |
| 499         | IN | 15                                                            | 01APR92 | 0015  |       |       |       |       |       |       |       |
| 500         | PI | 0.002                                                         | 0.003   | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 |
| 501         | PI | 0.005                                                         | 0.005   | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 |

|     |    |                                                                       |                                                         |       |       |              |       |       |       |       |       |
|-----|----|-----------------------------------------------------------------------|---------------------------------------------------------|-------|-------|--------------|-------|-------|-------|-------|-------|
|     |    |                                                                       |                                                         |       |       | SJR_5-yr.out |       |       |       |       |       |
| 502 | PI | 0.006                                                                 | 0.007                                                   | 0.008 | 0.008 | 0.009        | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 |
| 503 | PI | 0.012                                                                 | 0.013                                                   | 0.015 | 0.015 | 0.016        | 0.017 | 0.019 | 0.020 | 0.021 | 0.022 |
| 504 | PI | 0.015                                                                 | 0.015                                                   | 0.020 | 0.020 | 0.019        | 0.019 | 0.017 | 0.018 | 0.025 | 0.026 |
| 505 | PI | 0.028                                                                 | 0.029                                                   | 0.034 | 0.034 | 0.023        | 0.023 | 0.027 | 0.026 | 0.026 | 0.025 |
| 506 | PI | 0.024                                                                 | 0.023                                                   | 0.019 | 0.019 | 0.004        | 0.004 | 0.003 | 0.003 | 0.005 | 0.005 |
| 507 | PI | 0.005                                                                 | 0.004                                                   | 0.004 | 0.004 | 0.003        | 0.002 | 0.003 | 0.004 | 0.003 | 0.002 |
| 508 | PI | 0.003                                                                 | 0.003                                                   | 0.003 | 0.002 | 0.003        | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 |
| 509 | PI | 0.002                                                                 | 0.002                                                   | 0.002 | 0.002 | 0.002        | 0.002 |       |       |       |       |
| 510 | LU | 0                                                                     | 0                                                       |       |       |              |       |       |       |       |       |
| 511 | KM | UHG FROM AVERAGE FULLERTON - SAN JOSE S-GRAPH                         |                                                         |       |       |              |       |       |       |       |       |
| 512 | UI | 1981.                                                                 | 593.                                                    | 134.  | 29.   | 18.          |       |       |       |       |       |
| 513 | KK | 15B1ROMOLAND SUB-AREA (B-SYSTEM)                                      |                                                         |       |       |              |       |       |       |       |       |
| 514 | KM | UHG 70% VALLEY                                                        |                                                         |       |       |              |       |       |       |       |       |
| 515 | BA | 4.27                                                                  |                                                         | 0.7   |       |              |       |       |       |       |       |
| 516 | PB | 0.256                                                                 |                                                         |       |       |              |       |       |       |       |       |
| 517 | IN | 15                                                                    | 01APR92                                                 | 0015  |       |              |       |       |       |       |       |
| 518 | PI | 0.002                                                                 | 0.003                                                   | 0.003 | 0.004 | 0.003        | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 |
| 519 | PI | 0.005                                                                 | 0.005                                                   | 0.005 | 0.005 | 0.005        | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 |
| 520 | PI | 0.006                                                                 | 0.007                                                   | 0.008 | 0.008 | 0.009        | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 |
| 521 | PI | 0.012                                                                 | 0.013                                                   | 0.015 | 0.015 | 0.016        | 0.017 | 0.019 | 0.020 | 0.021 | 0.022 |
| 522 | PI | 0.015                                                                 | 0.015                                                   | 0.020 | 0.020 | 0.019        | 0.019 | 0.017 | 0.018 | 0.025 | 0.026 |
| 523 | PI | 0.028                                                                 | 0.029                                                   | 0.034 | 0.034 | 0.023        | 0.023 | 0.027 | 0.026 | 0.026 | 0.025 |
| 524 | PI | 0.024                                                                 | 0.023                                                   | 0.019 | 0.019 | 0.004        | 0.004 | 0.003 | 0.003 | 0.005 | 0.005 |
| 525 | PI | 0.005                                                                 | 0.004                                                   | 0.004 | 0.004 | 0.003        | 0.002 | 0.003 | 0.004 | 0.003 | 0.002 |
| 526 | PI | 0.003                                                                 | 0.003                                                   | 0.003 | 0.002 | 0.003        | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 |
| 527 | PI | 0.002                                                                 | 0.002                                                   | 0.002 | 0.002 | 0.002        | 0.002 |       |       |       |       |
| 528 | LU | 0                                                                     | 0                                                       |       |       |              |       |       |       |       |       |
| 529 | KM | UHG FROM VALLEY S-GRAPH                                               |                                                         |       |       |              |       |       |       |       |       |
| 530 | UI | 1912.                                                                 | 501.                                                    | 188.  | 96.   | 41.          | 16.   |       |       |       |       |
| 531 | KK | 15B7 TOTAL ROMOLAND SUB-AREA COMBINED AT THE U/S OF I-215 FWY PER CDJ |                                                         |       |       |              |       |       |       |       |       |
| 532 | HC | 2                                                                     | 0                                                       |       |       |              |       |       |       |       |       |
| 533 | KK | H                                                                     | US@215                                                  |       |       |              |       |       |       |       |       |
| 534 | KM |                                                                       | US@215                                                  |       |       |              |       |       |       |       |       |
| 535 | KM |                                                                       | COMBINE THE NUEVO RD., PERRIS, AND ROMOLAND HYDROGRAPHS |       |       |              |       |       |       |       |       |
| 536 | HC | 2                                                                     | 0                                                       |       |       |              |       |       |       |       |       |
| 537 | ZW | A=S.J.RIVER CP-H B=H C=FLOW D=01APR92 E=1HOUR F=                      |                                                         |       |       |              |       |       |       |       |       |
|     |    |                                                                       |                                                         |       |       |              |       |       |       |       |       |
|     |    |                                                                       |                                                         |       |       |              |       |       |       |       |       |

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

|     |    |                                                                    |       |       |       |       |       |      |      |      |       |
|-----|----|--------------------------------------------------------------------|-------|-------|-------|-------|-------|------|------|------|-------|
| 538 | KK | H-I ROUTE                                                          |       |       |       |       |       |      |      |      |       |
| 539 | KM | ROUTE SAN JACINTO RIVER FROM I-215 TO CONCENTRATION POINT I        |       |       |       |       |       |      |      |      |       |
| 540 | KM | BASED ON SV-SQ DATA FROM HEC-RAS Updated 14 Jan 2010               |       |       |       |       |       |      |      |      |       |
| 541 | KM | Time Step (Ave Travel Time = 5.13 Hours - Divide by 1.5 Vw=3.42hr) |       |       |       |       |       |      |      |      |       |
| 542 | KM | Because of this use NSTPS = 3 jcc 9 Feb 2010                       |       |       |       |       |       |      |      |      |       |
| 543 | RS | 3                                                                  | STOR  | -1    |       |       |       |      |      |      |       |
| 544 | SV | 0                                                                  | 156   | 291   | 878   | 3673  | 4783  | 5881 | 6288 | 8059 | 10737 |
| 545 | SV | 13406                                                              | 15955 | 18408 | 20812 | 29306 | 36900 |      |      |      |       |

|      |    | SJR_5-yr.out                                                        |         |        |        |        |        |        |        |        |         |
|------|----|---------------------------------------------------------------------|---------|--------|--------|--------|--------|--------|--------|--------|---------|
|      |    | 0                                                                   | 500     | 1000   | 2000   | 4000   | 6000   | 8000   | 10000  | 15000  | 20000   |
| 546  | SQ | 0                                                                   | 500     | 1000   | 2000   | 4000   | 6000   | 8000   | 10000  | 15000  | 20000   |
| 547  | SQ | 25000                                                               | 30000   | 35000  | 40000  | 60000  | 80000  |        |        |        |         |
| 548  | ZW | A=S.J.RIVER ROUTE H-I B=H-I C=FLOW D=01APR92 E=1HOUR F=             |         |        |        |        |        |        |        |        |         |
| 549  | KK | 15A ROMOLAND SUB-AREA (A-SYSTEM)                                    |         |        |        |        |        |        |        |        |         |
| 550  | KM | COMBINE HOMELAND, ROMOLAND (A-SYSTEM) AND THE REMAINING AREA AT THE |         |        |        |        |        |        |        |        |         |
| 551  | KM | D/S OF I-215 FWY PER CDJ                                            |         |        |        |        |        |        |        |        |         |
| 552  | BA | 28.11                                                               |         |        |        |        |        |        |        |        |         |
| 553  | PB | 0.248                                                               |         |        |        |        |        |        |        |        |         |
| 554  | IN | 15                                                                  | 01APR92 | 0015   |        |        |        |        |        |        |         |
| 555  | PI | 0.002                                                               | 0.003   | 0.003  | 0.004  | 0.003  | 0.003  | 0.003  | 0.004  | 0.004  | 0.004   |
| 556  | PI | 0.005                                                               | 0.005   | 0.005  | 0.005  | 0.005  | 0.006  | 0.006  | 0.007  | 0.007  | 0.008   |
| 557  | PI | 0.006                                                               | 0.007   | 0.008  | 0.008  | 0.009  | 0.009  | 0.010  | 0.010  | 0.010  | 0.011   |
| 558  | PI | 0.012                                                               | 0.013   | 0.015  | 0.015  | 0.016  | 0.017  | 0.019  | 0.020  | 0.021  | 0.022   |
| 559  | PI | 0.015                                                               | 0.015   | 0.020  | 0.020  | 0.019  | 0.019  | 0.017  | 0.018  | 0.025  | 0.026   |
| 560  | PI | 0.028                                                               | 0.029   | 0.034  | 0.034  | 0.023  | 0.023  | 0.027  | 0.026  | 0.026  | 0.025   |
| 561  | PI | 0.024                                                               | 0.023   | 0.019  | 0.019  | 0.004  | 0.004  | 0.003  | 0.003  | 0.005  | 0.005   |
| 562  | PI | 0.005                                                               | 0.004   | 0.004  | 0.004  | 0.003  | 0.002  | 0.003  | 0.004  | 0.003  | 0.002   |
| 563  | PI | 0.003                                                               | 0.003   | 0.003  | 0.002  | 0.003  | 0.002  | 0.003  | 0.002  | 0.003  | 0.002   |
| 564  | PI | 0.002                                                               | 0.002   | 0.002  | 0.002  | 0.002  | 0.002  |        |        |        |         |
| 565  | LU | 0                                                                   | 0       |        |        |        |        |        |        |        |         |
| 566  | KM | UHG FROM VALLEY S-GRAPH                                             |         |        |        |        |        |        |        |        |         |
| 567  | UI | 7956.                                                               | 5752.   | 1833.  | 981.   | 622.   | 412.   | 267.   | 159.   | 148.   |         |
| 568  | KK | I                                                                   |         |        |        |        |        |        |        |        |         |
| 569  | KM | ENTRANCE TO RAILROAD CANYON DAM                                     |         |        |        |        |        |        |        |        |         |
| 570  | HC | 2                                                                   | 0       |        |        |        |        |        |        |        |         |
| 571  | ZW | A=S.J.RIVER CP-I B=I C=FLOW D=01APR92 E=1HOUR F=                    |         |        |        |        |        |        |        |        |         |
| 572  | KK | I-J                                                                 |         |        |        |        |        |        |        |        |         |
| 573  | KM | ROUTE FROM C.P.I TO C.P.J                                           |         |        |        |        |        |        |        |        |         |
| 574  | KM | FROM S.J.RIVER STAGE III PLAN & PROFILE, VELOCITY=3.6 FT/SEC        |         |        |        |        |        |        |        |        |         |
| 575  | KM | TRAVEL DISTANCE =24,288 FT.                                         |         |        |        |        |        |        |        |        |         |
| 576  | RT | 1                                                                   | 2       | 0      |        |        |        |        |        |        |         |
| 577  | KK | 17 SUBAREA 17                                                       |         |        |        |        |        |        |        |        |         |
| 578  | KM | SALT CREEK                                                          |         |        |        |        |        |        |        |        |         |
| 579  | BA | 123.91                                                              |         |        |        |        |        |        |        |        |         |
| 580  | PB | 0.265                                                               |         |        |        |        |        |        |        |        |         |
| 581  | IN | 15                                                                  | 01APR92 | 0040   |        |        |        |        |        |        |         |
| 582  | PI | 0.002                                                               | 0.003   | 0.003  | 0.004  | 0.003  | 0.003  | 0.003  | 0.004  | 0.004  | 0.004   |
| 583  | PI | 0.005                                                               | 0.005   | 0.005  | 0.005  | 0.005  | 0.006  | 0.006  | 0.007  | 0.007  | 0.008   |
| 584  | PI | 0.006                                                               | 0.007   | 0.008  | 0.008  | 0.009  | 0.009  | 0.010  | 0.010  | 0.010  | 0.011   |
| 585  | PI | 0.012                                                               | 0.013   | 0.015  | 0.015  | 0.016  | 0.017  | 0.019  | 0.020  | 0.021  | 0.022   |
| 586  | PI | 0.015                                                               | 0.015   | 0.020  | 0.020  | 0.019  | 0.019  | 0.017  | 0.018  | 0.025  | 0.026   |
| 587  | PI | 0.028                                                               | 0.029   | 0.034  | 0.034  | 0.023  | 0.023  | 0.027  | 0.026  | 0.026  | 0.025   |
|      |    | HEC-1 INPUT                                                         |         |        |        |        |        |        |        |        |         |
| LINE | ID | .....1                                                              | .....2  | .....3 | .....4 | .....5 | .....6 | .....7 | .....8 | .....9 | .....10 |
| 588  | PI | 0.024                                                               | 0.023   | 0.019  | 0.019  | 0.004  | 0.004  | 0.003  | 0.003  | 0.005  | 0.005   |
| 589  | PI | 0.005                                                               | 0.004   | 0.004  | 0.004  | 0.003  | 0.002  | 0.003  | 0.004  | 0.003  | 0.002   |

|     |    | SJR_5-yr.out                                                             |         |          |          |          |          |          |          |          |         |
|-----|----|--------------------------------------------------------------------------|---------|----------|----------|----------|----------|----------|----------|----------|---------|
| 590 | PI | 0.003                                                                    | 0.003   | 0.003    | 0.002    | 0.003    | 0.002    | 0.003    | 0.002    | 0.003    | 0.002   |
| 591 | PI | 0.002                                                                    | 0.002   | 0.002    | 0.002    | 0.002    | 0.002    |          |          |          |         |
| 592 | LU | 0                                                                        | 0       |          |          |          |          |          |          |          |         |
| 593 | KM | UHG FROM MOUNTAIN S-GRAPH                                                |         |          |          |          |          |          |          |          |         |
| 594 | UI | 7481.                                                                    | 17797.  | 13137.   | 7282.    | 4868.    | 3815.    | 3168.    | 2450.    | 2175.    | 1830.   |
| 595 | UI | 1661.                                                                    | 1370.   | 1145.    | 1059.    | 994.     | 900.     | 878.     | 780.     | 774.     | 659.    |
| 596 | UI | 659.                                                                     | 560.    | 502.     | 502.     | 441.     | 365.     | 365.     | 365.     | 351.     | 133.    |
| 597 | UI | 133.                                                                     | 133.    | 133.     | 133.     | 133.     | 133.     | 133.     | 133.     | 133.     | 133.    |
| 598 | UI | 130.                                                                     |         |          |          |          |          |          |          |          |         |
| 599 | KK | 16 SUBAREA 16                                                            |         |          |          |          |          |          |          |          |         |
| 600 | KM | RAILROAD CANYON                                                          |         |          |          |          |          |          |          |          |         |
| 601 | BA | 26.04                                                                    |         |          |          |          |          |          |          |          |         |
| 602 | PB | 0.265                                                                    |         |          |          |          |          |          |          |          |         |
| 603 | IN | 30                                                                       | 01APR92 | 0015     |          |          |          |          |          |          |         |
| 604 | PI | 0.005                                                                    | 0.007   | 0.006    | 0.007    | 0.008    | 0.010    | 0.010    | 0.011    | 0.013    | 0.015   |
| 605 | PI | 0.013                                                                    | 0.016   | 0.018    | 0.020    | 0.021    | 0.025    | 0.030    | 0.033    | 0.039    | 0.043   |
| 606 | PI | 0.030                                                                    | 0.040   | 0.038    | 0.035    | 0.051    | 0.057    | 0.068    | 0.046    | 0.053    | 0.051   |
| 607 | PI | 0.047                                                                    | 0.038   | 0.008    | 0.006    | 0.010    | 0.009    | 0.008    | 0.005    | 0.007    | 0.005   |
| 608 | PI | 0.006                                                                    | 0.005   | 0.005    | 0.005    | 0.005    | 0.004    | 0.004    | 0.004    |          |         |
| 609 | LU | 0                                                                        | 0       |          |          |          |          |          |          |          |         |
| 610 | KM | UHG FROM MOUNTAIN S-GRAPH                                                |         |          |          |          |          |          |          |          |         |
| 611 | UI | 4825.                                                                    | 4516.   | 1821.    | 1215.    | 851.     | 656.     | 486.     | 402.     | 352.     | 309.    |
| 612 | UI | 264.                                                                     | 220.    | 199.     | 147.     | 144.     | 86.      | 53.      | 53.      | 53.      | 53.     |
| 613 | UI | 52.5                                                                     | 40.2    |          |          |          |          |          |          |          |         |
| 614 | KK | J(US)                                                                    |         |          |          |          |          |          |          |          |         |
| 615 | KM | UPSTREAM OF RAILROAD CANYON                                              |         |          |          |          |          |          |          |          |         |
| 616 | KM | COMBINE THE R.R.CYN., SALT CREEK, & SHALLOW POND OUTFLOW HYDROGRAPHS     |         |          |          |          |          |          |          |          |         |
| 617 | HC | 3                                                                        | 0       |          |          |          |          |          |          |          |         |
| 618 | ZW | A=S.J.RIVER CP-J(US) B=J(US) C=FLOW D=01APR92 E=1HOUR F=                 |         |          |          |          |          |          |          |          |         |
| 619 | KK | J(DS) RAILROAD CANYON DAM                                                |         |          |          |          |          |          |          |          |         |
| 620 | KM | RATING CURVE WAS OBTAINED FROM PREVIOUS WORK DONE BY COOK, DATED 10/2/73 |         |          |          |          |          |          |          |          |         |
| 621 | RS | 1                                                                        | STOR    | 0        |          |          |          |          |          |          |         |
| 622 | SV | 0                                                                        | 835.93  | 1671.87  | 2507.80  | 3343.74  | 4179.67  | 5015.60  | 5851.54  | 6687.47  | 7523.41 |
| 623 | SV | 8359.3                                                                   | 9195.27 | 10031.21 | 10867.14 | 11703.08 | 12539.01 | 13374.95 | 14210.88 | 15046.81 | 15214   |
| 624 | SE | 1381.8                                                                   | 1382.8  | 1383.8   | 1384.8   | 1385.8   | 1386.8   | 1387.8   | 1388.8   | 1389.8   | 1390.8  |
| 625 | SE | 1391.8                                                                   | 1392.8  | 1393.8   | 1394.8   | 1395.8   | 1396.8   | 1397.8   | 1398.8   | 1399.8   | 1400    |
| 626 | SQ | 0                                                                        | 538     | 1591.6   | 3023.8   | 4765.3   | 6851.3   | 9204.3   | 11781.1  | 14614.4  | 17699.2 |
| 627 | SQ | 21031.                                                                   | 24546.7 | 28215.9  | 32090.6  | 36078.4  | 41478.2  | 48467.1  | 55911.2  | 64285.1  | 66000   |
| 628 | ZW | A=S.J.RIVER CP-J(DS) B=J(DS) C=FLOW D=01APR92 E=1HOUR F=                 |         |          |          |          |          |          |          |          |         |
| 629 | ZZ |                                                                          |         |          |          |          |          |          |          |          |         |

1

# SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT  
LINE

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

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

16

2

.

|     |     |       |    |
|-----|-----|-------|----|
| 33  | .   | 3     |    |
|     | .   | .     |    |
| 49  | .   | .     | 4  |
|     | .   | .     | .  |
|     | .   | .     | .  |
| 65  | A   | ..... |    |
|     | V   |       |    |
|     | V   |       |    |
| 69  | A-B |       |    |
|     | .   |       |    |
|     | .   |       |    |
| 75  | .   | 6     |    |
|     | .   | .     |    |
|     | .   | .     |    |
| 90  | .   | .     | 5  |
|     | .   | .     | .  |
|     | .   | .     | .  |
| 105 | B   | ..... |    |
|     | .   |       |    |
|     | .   |       |    |
| 109 | .   | 7     |    |
|     | .   | .     |    |
|     | .   | .     |    |
| 128 | C   | ..... |    |
|     | .   |       |    |
|     | .   |       |    |
| 132 | .   | 8     |    |
|     | .   | .     |    |
|     | .   | .     |    |
| 151 | D   | ..... |    |
|     | .   |       |    |
|     | .   |       |    |
| 155 | .   | 9     |    |
|     | .   | .     |    |
|     | .   | .     |    |
| 169 | E   | ..... |    |
|     | V   |       |    |
|     | V   |       |    |
| 173 | E-F |       |    |
|     | .   |       |    |
|     | .   |       |    |
| 185 | .   | 10    |    |
|     | .   | .     |    |
|     | .   | .     |    |
| 204 | .   | .     | 11 |
|     | .   | .     | .  |
|     | .   | .     | .  |
| 223 | F   | ..... |    |
|     | V   |       |    |
|     | V   |       |    |

|     |         |       |       |    |
|-----|---------|-------|-------|----|
| 227 | F-F1    |       |       |    |
|     | V       |       |       |    |
|     | V       |       |       |    |
| 239 | F1-G    |       |       |    |
|     | .       |       |       |    |
| 250 | .       | 12A   |       |    |
|     | .       | .     |       |    |
| 268 | .       | .     | 12A1  |    |
|     | .       | .     | .     |    |
| 286 | G       | .     | .     |    |
|     | V       | ..... |       |    |
|     | V       |       |       |    |
| 290 | G-H     |       |       |    |
|     | .       |       |       |    |
| 301 | .       | 13    |       |    |
|     | .       | .     |       |    |
| 322 | .       | .     | 13    |    |
|     | .       | .     | .     |    |
| 342 | NUEVDS. | .     | .     |    |
|     | .       |       |       |    |
| 345 | .       | 14    |       |    |
|     | .       | V     |       |    |
|     | .       | V     |       |    |
| 366 | .       | PB    |       |    |
|     | .       | .     |       |    |
| 373 | .       | .     | IA    |    |
|     | .       | .     | .     |    |
| 386 | .       | IA.   | ..... |    |
|     | .       | V     |       |    |
|     | .       | V     |       |    |
| 389 | .       | IB    |       |    |
|     | .       | .     |       |    |
| 398 | .       | .     | LA    |    |
|     | .       | .     | V     |    |
|     | .       | .     | V     |    |
| 411 | .       | .     | LB    |    |
|     | .       | .     | .     |    |
| 418 | .       | .     | .     | NA |
|     | .       | .     | .     | V  |
|     | .       | .     | .     | V  |
| 431 | .       | .     | .     | NB |

SJR\_5-yr.out

1000 random samples of 1000 observations from a normal distribution

Y-axis labels (Sample Number): 440, 455, 458, 472, 487, 490, 493, 513, 531, 533, 538, 549, 568, 572, 577, 599, 614

X-axis labels (Sample Mean): SA, CP1, CP4A, SEATA, CP4, COMB, 15B, 15B1, 15B7, H, V, H-I, 15A, I, V, I-J, 17, 16, J(US)

619 J(DS)<sup>V</sup>

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
*   JUN 1998
*   VERSION 4.1
*
* RUN DATE 07OCT16 TIME 16:07:39
*
*****

```

```

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

```

5-Year 24-Hour Storm  
 WEBB ASSOCIATES BASE FILE OF SAN JACINTO RIVER EXISTING CONDITIONS  
 BASED ON FILE sjrre1.dat by WEST CONSULTANTS INC.  
 FOR RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
 \*\* ORIGINAL FILE: SAN JACINTO RIVER HYDROLOGY BACKUPS (ALTERNATIVE F)  
 \*\* LAPRE1 FILENAMES: 2SJR24  
 \*\* HEC-1 FILENAMES: 2SJR24.DAT/2SJR24.OUT DATE: SEPTEMBER, 1993  
 \*\* INFORMATION USED WAS BASED ON PREVIOUS WORKS PERFORMED BY F.J.P.  
 \*\* PERRIS VALLEY WATERSHED WAS OBTAINED FROM B.C.'S PREVIOUS WORK  
 SV-SQ DATA FOR MODIFIED PULS ROUTING FROM HEC-RAS HYDRAULIC MODEL  
 HEC-1 FILENAMES: REMLF.DAT/REMLF.OUT DATE: APR 2010  
 For San Jacinto Floodplain update do not use routed flows downstream  
 of Bridge Street. HEC-RAS will be used to route the hydrographs from  
 this model in an unsteady simulation. jcc 16AUG2010

```

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

        COMPUTATION INTERVAL 1.00 HOURS
        TOTAL TIME BASE 99.00 HOURS

```

```

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

```

TEMPERATURE                      DEGREES FAHRENHEIT                      SJR\_5-yr.out

\*\*\* \*\*

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

SAN JACINTO MOUNTAIN AT BAUTISTA CREEK

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

SUBBASIN RUNOFF DATA

18 BA                      SUBBASIN CHARACTERISTICS  
                                 TAREA                      178.50                      SUBBASIN AREA

PRECIPITATION DATA

19 PB                      STORM                      .39                      BASIN TOTAL PRECIPITATION

21 PI                      INCREMENTAL PRECIPITATION PATTERN  
                                 .00                      .01                      .01                      .02                      .02                      .03                      .03                      .03                      .04                      .06  
                                 .07                      .07                      .07                      .09                      .11                      .11                      .09                      .04                      .02                      .02  
                                 .01                      .01                      .01                      .01                      .01                      .00

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

24 UI                      INPUT UNITGRAPH, 55 ORDINATES, VOLUME = 1.00  
                                 7168.0                      13829.0                      21244.0                      12890.0                      8592.0                      5602.0                      4846.0                      4024.0                      3419.0                      2982.0  
                                 2533.0                      2303.0                      2000.0                      1862.0                      1684.0                      1474.0                      1258.0                      1212.0                      1080.0                      1069.0  
                                 982.0                      957.0                      914.0                      839.0                      839.0                      758.0                      708.0                      708.0                      647.0                      540.0  
                                 540.0                      540.0                      525.0                      392.0                      392.0                      392.0                      392.0                      392.0                      335.0                      143.0  
                                 143.0                      143.0                      143.0                      143.0                      143.0                      143.0                      143.0                      143.0                      143.0                      143.0  
                                 143.0                      143.0                      143.0                      143.0                      129.0

\*\*\*

\*\*\*\*\*

HYDROGRAPH AT STATION                      2

SJR\_5-yr.out

\*\*\*\*\*

| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 132.   |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 121.   |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 20.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 112.   |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 74.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 101.   |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 172.   | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 89.    |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 283.   | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 78.    |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 399.   | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 69.    |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 522.   | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 65.    |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 658.   | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 62.    |
| 1  | APR | 0900 | 10  | .02  | .00  | .02    | 811.   | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 59.    |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 1011.  | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 57.    |
| 1  | APR | 1100 | 12  | .03  | .00  | .03    | 1285.  | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 55.    |
| 1  | APR | 1200 | 13  | .03  | .00  | .03    | 1602.  | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 52.    |
| 1  | APR | 1300 | 14  | .03  | .00  | .03    | 1894.  | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 49.    |
| 1  | APR | 1400 | 15  | .04  | .00  | .04    | 2143.  | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 46.    |
| 1  | APR | 1500 | 16  | .04  | .00  | .04    | 2433.  | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 42.    |
| 1  | APR | 1600 | 17  | .04  | .00  | .04    | 2800.  | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 38.    |
| 1  | APR | 1700 | 18  | .04  | .00  | .04    | 3087.  | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 34.    |
| 1  | APR | 1800 | 19  | .02  | .00  | .02    | 3077.  | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 30.    |
| 1  | APR | 1900 | 20  | .01  | .00  | .01    | 2764.  | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 24.    |
| 1  | APR | 2000 | 21  | .01  | .00  | .01    | 2253.  | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 18.    |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 1824.  | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 12.    |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 1555.  | * | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 7.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 1373.  | * | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 5.     |
| 2  | APR | 0000 | 25  | .00  | .00  | .00    | 1236.  | * | 4  | APR | 0200 | 75  | .00  | .00  | .00    | 4.     |
| 2  | APR | 0100 | 26  | .00  | .00  | .00    | 1120.  | * | 4  | APR | 0300 | 76  | .00  | .00  | .00    | 3.     |
| 2  | APR | 0200 | 27  | .00  | .00  | .00    | 1010.  | * | 4  | APR | 0400 | 77  | .00  | .00  | .00    | 2.     |
| 2  | APR | 0300 | 28  | .00  | .00  | .00    | 893.   | * | 4  | APR | 0500 | 78  | .00  | .00  | .00    | 2.     |
| 2  | APR | 0400 | 29  | .00  | .00  | .00    | 771.   | * | 4  | APR | 0600 | 79  | .00  | .00  | .00    | 1.     |
| 2  | APR | 0500 | 30  | .00  | .00  | .00    | 668.   | * | 4  | APR | 0700 | 80  | .00  | .00  | .00    | 1.     |
| 2  | APR | 0600 | 31  | .00  | .00  | .00    | 591.   | * | 4  | APR | 0800 | 81  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0700 | 32  | .00  | .00  | .00    | 532.   | * | 4  | APR | 0900 | 82  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0800 | 33  | .00  | .00  | .00    | 483.   | * | 4  | APR | 1000 | 83  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0900 | 34  | .00  | .00  | .00    | 444.   | * | 4  | APR | 1100 | 84  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1000 | 35  | .00  | .00  | .00    | 412.   | * | 4  | APR | 1200 | 85  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1100 | 36  | .00  | .00  | .00    | 385.   | * | 4  | APR | 1300 | 86  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1200 | 37  | .00  | .00  | .00    | 361.   | * | 4  | APR | 1400 | 87  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1300 | 38  | .00  | .00  | .00    | 339.   | * | 4  | APR | 1500 | 88  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1400 | 39  | .00  | .00  | .00    | 318.   | * | 4  | APR | 1600 | 89  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1500 | 40  | .00  | .00  | .00    | 299.   | * | 4  | APR | 1700 | 90  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1600 | 41  | .00  | .00  | .00    | 280.   | * | 4  | APR | 1800 | 91  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1700 | 42  | .00  | .00  | .00    | 263.   | * | 4  | APR | 1900 | 92  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1800 | 43  | .00  | .00  | .00    | 247.   | * | 4  | APR | 2000 | 93  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1900 | 44  | .00  | .00  | .00    | 230.   | * | 4  | APR | 2100 | 94  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2000 | 45  | .00  | .00  | .00    | 214.   | * | 4  | APR | 2200 | 95  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2100 | 46  | .00  | .00  | .00    | 198.   | * | 4  | APR | 2300 | 96  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2200 | 47  | .00  | .00  | .00    | 185.   | * | 5  | APR | 0000 | 97  | .00  | .00  | .00    | 0.     |

|       |      |    |     |     |     |      |              |       |      |     |     |     |     |
|-------|------|----|-----|-----|-----|------|--------------|-------|------|-----|-----|-----|-----|
|       |      |    |     |     |     |      | SJR_5-yr.out |       |      |     |     |     |     |
| 2 APR | 2300 | 48 | .00 | .00 | .00 | 172. | *            | 5 APR | 0100 | 98  | .00 | .00 | .00 |
| 3 APR | 0000 | 49 | .00 | .00 | .00 | 159. | *            | 5 APR | 0200 | 99  | .00 | .00 | .00 |
| 3 APR | 0100 | 50 | .00 | .00 | .00 | 146. | *            | 5 APR | 0300 | 100 | .00 | .00 | .00 |
|       |      |    |     |     |     |      | *            |       |      |     |     |     |     |

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TOTAL RAINFALL = .39, TOTAL LOSS = .00, TOTAL EXCESS = .39

| PEAK FLOW | TIME  |          | 6-HR  | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|-------|-------|-------|----------|
| (CFS)     | (HR)  | (CFS)    |       |       |       |          |
| +         | 3087. | 17.00    | 2726. | 1558. | 630.  | 458.     |
|           |       | (INCHES) | .142  | .325  | .394  | .394     |
|           |       | (AC-FT)  | 1352. | 3089. | 3748. | 3749.    |

CUMULATIVE AREA = 178.50 SQ MI

-----DSS---ZOPEN: New File Opened, File: H1DSS.DSS  
Unit: 71; DSS Version: 6-JG  
-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-2/2/FLOW/01MAR1992/1HOUR//  
-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-2/2/FLOW/01APR1992/1HOUR//

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\* \*  
33 KK \* 3 \* SUBAREA 3  
\* \*  
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BAUTISTA CREEK

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

SUBBASIN RUNOFF DATA

35 BA SUBBASIN CHARACTERISTICS  
TAREA 51.38 SUBBASIN AREA

PRECIPITATION DATA

36 PB STORM .31 BASIN TOTAL PRECIPITATION

38 PI INCREMENTAL PRECIPITATION PATTERN  
.00 .00 .01 .01 .02 .02 .03 .03 .04 .05

|  |     |     |     |     |              |     |     |     |     |     |
|--|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|
|  |     |     |     |     | SJR_5-yr.out |     |     |     |     |     |
|  | .07 | .08 | .07 | .08 | .11          | .11 | .10 | .06 | .02 | .02 |
|  | .01 | .01 | .01 | .01 | .01          | .01 |     |     |     |     |

41 LU            UNIFORM LOSS RATE

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

41 UI            INPUT UNITGRAPH, 42 ORDINATES, VOLUME = 1.00

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

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# HYDROGRAPH AT STATION            3

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 16.    |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 15.    |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 4.     | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 13.    |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 21.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 12.    |
| 1  | APR | 0400 | 5   | .00  | .00  | .00    | 49.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 10.    |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 77.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 9.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 106.   | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 7.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 137.   | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 5.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 171.   | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 3.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 209.   | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 2.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 261.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 1.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 333.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 1.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 420.   | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 1.     |
| 1  | APR | 1300 | 14  | .02  | .00  | .02    | 490.   | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 1.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 538.   | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 617.   | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .03  | .00  | .03    | 720.   | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .03  | .00  | .03    | 785.   | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .02  | .00  | .02    | 770.   | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 658.   | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .01  | .00  | .01    | 510.   | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 413.   | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 353.   | * | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 310.   | * | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0000 | 25  | .00  | .00  | .00    | 277.   | * | 4  | APR | 0200 | 75  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0100 | 26  | .00  | .00  | .00    | 250.   | * | 4  | APR | 0300 | 76  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0200 | 27  | .00  | .00  | .00    | 225.   | * | 4  | APR | 0400 | 77  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |      | SJR_5-yr.out |            |     |     |     |     |    |
|------------|----|-----|-----|-----|------|--------------|------------|-----|-----|-----|-----|----|
| 2 APR 0300 | 28 | .00 | .00 | .00 | 195. | *            | 4 APR 0500 | 78  | .00 | .00 | .00 | 0. |
| 2 APR 0400 | 29 | .00 | .00 | .00 | 163. | *            | 4 APR 0600 | 79  | .00 | .00 | .00 | 0. |
| 2 APR 0500 | 30 | .00 | .00 | .00 | 140. | *            | 4 APR 0700 | 80  | .00 | .00 | .00 | 0. |
| 2 APR 0600 | 31 | .00 | .00 | .00 | 124. | *            | 4 APR 0800 | 81  | .00 | .00 | .00 | 0. |
| 2 APR 0700 | 32 | .00 | .00 | .00 | 113. | *            | 4 APR 0900 | 82  | .00 | .00 | .00 | 0. |
| 2 APR 0800 | 33 | .00 | .00 | .00 | 102. | *            | 4 APR 1000 | 83  | .00 | .00 | .00 | 0. |
| 2 APR 0900 | 34 | .00 | .00 | .00 | 93.  | *            | 4 APR 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 85.  | *            | 4 APR 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 78.  | *            | 4 APR 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 71.  | *            | 4 APR 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 64.  | *            | 4 APR 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 59.  | *            | 4 APR 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 53.  | *            | 4 APR 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 48.  | *            | 4 APR 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 43.  | *            | 4 APR 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 38.  | *            | 4 APR 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 35.  | *            | 4 APR 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 31.  | *            | 4 APR 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 27.  | *            | 4 APR 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 23.  | *            | 5 APR 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 20.  | *            | 5 APR 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 18.  | *            | 5 APR 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 17.  | *            | 5 APR 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .31, TOTAL LOSS = .00, TOTAL EXCESS = .31

| PEAK FLOW | TIME  |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------|-------|----------|
| +         | (CFS) | (HR)     |      |       |       |          |
|           |       | (CFS)    |      |       |       |          |
| +         | 785.  | 17.00    | 679. | 377.  | 145.  | 105.     |
|           |       | (INCHES) | .123 | .273  | .315  | .315     |
|           |       | (AC-FT)  | 337. | 749.  | 863.  | 863.     |

CUMULATIVE AREA = 51.38 SQ MI

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

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|              |   |   |
|--------------|---|---|
| *****        |   |   |
| 49 KK        | * | * |
|              | * | * |
|              | 4 | * |
|              | * | * |
| *****        |   |   |
| SUBAREA 4    |   |   |
| POPPET CREEK |   |   |

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

## SUBBASIN RUNOFF DATA

51 BA SUBBASIN CHARACTERISTICS  
 TAREA 15.76 SUBBASIN AREA

## PRECIPITATION DATA

52 PB STORM .37 BASIN TOTAL PRECIPITATION

54 PI INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .00 | .01 | .01 | .02 | .02 | .03 | .03 | .04 | .05 |
| .06 | .08 | .07 | .07 | .12 | .14 | .10 | .07 | .01 | .02 |
| .01 | .01 | .01 | .01 | .01 | .01 |     |     |     |     |

59 LU UNIFORM LOSS RATE

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

59 UI INPUT UNITGRAPH, 22 ORDINATES, VOLUME = 1.00

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

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## HYDROGRAPH AT STATION 4

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 2.     | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 15.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .00  | .00  | .00    | 28.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 39.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 50.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 63.    | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 75.    | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 92.    | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 116.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |      | SJR_5-yr.out |            |     |     |     |     |    |
|------------|----|-----|-----|-----|------|--------------|------------|-----|-----|-----|-----|----|
| 1 APR 1100 | 12 | .02 | .00 | .02 | 150. | *            | 3 APR 1300 | 62  | .00 | .00 | .00 | 0. |
| 1 APR 1200 | 13 | .03 | .00 | .03 | 188. | *            | 3 APR 1400 | 63  | .00 | .00 | .00 | 0. |
| 1 APR 1300 | 14 | .03 | .00 | .03 | 206. | *            | 3 APR 1500 | 64  | .00 | .00 | .00 | 0. |
| 1 APR 1400 | 15 | .03 | .00 | .03 | 219. | *            | 3 APR 1600 | 65  | .00 | .00 | .00 | 0. |
| 1 APR 1500 | 16 | .05 | .00 | .05 | 288. | *            | 3 APR 1700 | 66  | .00 | .00 | .00 | 0. |
| 1 APR 1600 | 17 | .05 | .00 | .05 | 358. | *            | 3 APR 1800 | 67  | .00 | .00 | .00 | 0. |
| 1 APR 1700 | 18 | .04 | .00 | .04 | 353. | *            | 3 APR 1900 | 68  | .00 | .00 | .00 | 0. |
| 1 APR 1800 | 19 | .02 | .00 | .02 | 306. | *            | 3 APR 2000 | 69  | .00 | .00 | .00 | 0. |
| 1 APR 1900 | 20 | .01 | .00 | .01 | 219. | *            | 3 APR 2100 | 70  | .00 | .00 | .00 | 0. |
| 1 APR 2000 | 21 | .01 | .00 | .01 | 162. | *            | 3 APR 2200 | 71  | .00 | .00 | .00 | 0. |
| 1 APR 2100 | 22 | .00 | .00 | .00 | 133. | *            | 3 APR 2300 | 72  | .00 | .00 | .00 | 0. |
| 1 APR 2200 | 23 | .00 | .00 | .00 | 111. | *            | 4 APR 0000 | 73  | .00 | .00 | .00 | 0. |
| 1 APR 2300 | 24 | .00 | .00 | .00 | 97.  | *            | 4 APR 0100 | 74  | .00 | .00 | .00 | 0. |
| 2 APR 0000 | 25 | .00 | .00 | .00 | 86.  | *            | 4 APR 0200 | 75  | .00 | .00 | .00 | 0. |
| 2 APR 0100 | 26 | .00 | .00 | .00 | 76.  | *            | 4 APR 0300 | 76  | .00 | .00 | .00 | 0. |
| 2 APR 0200 | 27 | .00 | .00 | .00 | 66.  | *            | 4 APR 0400 | 77  | .00 | .00 | .00 | 0. |
| 2 APR 0300 | 28 | .00 | .00 | .00 | 50.  | *            | 4 APR 0500 | 78  | .00 | .00 | .00 | 0. |
| 2 APR 0400 | 29 | .00 | .00 | .00 | 38.  | *            | 4 APR 0600 | 79  | .00 | .00 | .00 | 0. |
| 2 APR 0500 | 30 | .00 | .00 | .00 | 30.  | *            | 4 APR 0700 | 80  | .00 | .00 | .00 | 0. |
| 2 APR 0600 | 31 | .00 | .00 | .00 | 24.  | *            | 4 APR 0800 | 81  | .00 | .00 | .00 | 0. |
| 2 APR 0700 | 32 | .00 | .00 | .00 | 19.  | *            | 4 APR 0900 | 82  | .00 | .00 | .00 | 0. |
| 2 APR 0800 | 33 | .00 | .00 | .00 | 15.  | *            | 4 APR 1000 | 83  | .00 | .00 | .00 | 0. |
| 2 APR 0900 | 34 | .00 | .00 | .00 | 12.  | *            | 4 APR 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 10.  | *            | 4 APR 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 8.   | *            | 4 APR 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 6.   | *            | 4 APR 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 4.   | *            | 4 APR 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 3.   | *            | 4 APR 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 2.   | *            | 4 APR 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 1.   | *            | 4 APR 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 1.   | *            | 4 APR 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 1.   | *            | 4 APR 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0.   | *            | 4 APR 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0.   | *            | 4 APR 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0.   | *            | 4 APR 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0.   | *            | 5 APR 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0.   | *            | 5 APR 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0.   | *            | 5 APR 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0.   | *            | 5 APR 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .37, TOTAL LOSS = .00, TOTAL EXCESS = .37

| PEAK FLOW | TIME  |          | MAXIMUM AVERAGE FLOW |       |       |          |
|-----------|-------|----------|----------------------|-------|-------|----------|
| +         | (CFS) | (HR)     | 6-HR                 | 24-HR | 72-HR | 99.00-HR |
|           |       |          |                      |       |       |          |
|           |       | (CFS)    |                      |       |       |          |
| +         | 358.  | 16.00    | 289.                 | 147.  | 52.   | 38.      |
|           |       | (INCHES) | .171                 | .348  | .366  | .366     |
|           |       | (AC-FT)  | 144.                 | 292.  | 308.  | 308.     |

SJR\_5-yr.out

CUMULATIVE AREA = 15.76 SQ MI

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

\*\*\* \*\*

65 KK \*\*\*\*\*  
\* \*  
\* A \*  
\* \*  
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BAUTISTA CREEK CONFLUENCE

67 HC HYDROGRAPH COMBINATION  
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION A  
SUM OF 3 HYDROGRAPHS

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| DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW |
|----|-----|------|-----|-------|---|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|
| 1  | APR | 0000 | 1   | 0.    | * | 2  | APR | 0100 | 26  | 1446. | * | 3  | APR | 0200 | 51  | 148. | * | 4  | APR | 0300 | 76  | 3.   |
| 1  | APR | 0100 | 2   | 0.    | * | 2  | APR | 0200 | 27  | 1300. | * | 3  | APR | 0300 | 52  | 136. | * | 4  | APR | 0400 | 77  | 2.   |
| 1  | APR | 0200 | 3   | 25.   | * | 2  | APR | 0300 | 28  | 1137. | * | 3  | APR | 0400 | 53  | 126. | * | 4  | APR | 0500 | 78  | 2.   |
| 1  | APR | 0300 | 4   | 110.  | * | 2  | APR | 0400 | 29  | 972.  | * | 3  | APR | 0500 | 54  | 113. | * | 4  | APR | 0600 | 79  | 1.   |
| 1  | APR | 0400 | 5   | 249.  | * | 2  | APR | 0500 | 30  | 837.  | * | 3  | APR | 0600 | 55  | 99.  | * | 4  | APR | 0700 | 80  | 1.   |
| 1  | APR | 0500 | 6   | 400.  | * | 2  | APR | 0600 | 31  | 740.  | * | 3  | APR | 0700 | 56  | 87.  | * | 4  | APR | 0800 | 81  | 0.   |
| 1  | APR | 0600 | 7   | 555.  | * | 2  | APR | 0700 | 32  | 663.  | * | 3  | APR | 0800 | 57  | 76.  | * | 4  | APR | 0900 | 82  | 0.   |
| 1  | APR | 0700 | 8   | 722.  | * | 2  | APR | 0800 | 33  | 601.  | * | 3  | APR | 0900 | 58  | 70.  | * | 4  | APR | 1000 | 83  | 0.   |
| 1  | APR | 0800 | 9   | 904.  | * | 2  | APR | 0900 | 34  | 549.  | * | 3  | APR | 1000 | 59  | 65.  | * | 4  | APR | 1100 | 84  | 0.   |
| 1  | APR | 0900 | 10  | 1112. | * | 2  | APR | 1000 | 35  | 507.  | * | 3  | APR | 1100 | 60  | 61.  | * | 4  | APR | 1200 | 85  | 0.   |
| 1  | APR | 1000 | 11  | 1387. | * | 2  | APR | 1100 | 36  | 471.  | * | 3  | APR | 1200 | 61  | 58.  | * | 4  | APR | 1300 | 86  | 0.   |
| 1  | APR | 1100 | 12  | 1768. | * | 2  | APR | 1200 | 37  | 438.  | * | 3  | APR | 1300 | 62  | 56.  | * | 4  | APR | 1400 | 87  | 0.   |
| 1  | APR | 1200 | 13  | 2210. | * | 2  | APR | 1300 | 38  | 407.  | * | 3  | APR | 1400 | 63  | 53.  | * | 4  | APR | 1500 | 88  | 0.   |
| 1  | APR | 1300 | 14  | 2590. | * | 2  | APR | 1400 | 39  | 380.  | * | 3  | APR | 1500 | 64  | 50.  | * | 4  | APR | 1600 | 89  | 0.   |
| 1  | APR | 1400 | 15  | 2900. | * | 2  | APR | 1500 | 40  | 354.  | * | 3  | APR | 1600 | 65  | 46.  | * | 4  | APR | 1700 | 90  | 0.   |
| 1  | APR | 1500 | 16  | 3338. | * | 2  | APR | 1600 | 41  | 329.  | * | 3  | APR | 1700 | 66  | 43.  | * | 4  | APR | 1800 | 91  | 0.   |
| 1  | APR | 1600 | 17  | 3878. | * | 2  | APR | 1700 | 42  | 307.  | * | 3  | APR | 1800 | 67  | 38.  | * | 4  | APR | 1900 | 92  | 0.   |
| 1  | APR | 1700 | 18  | 4224. | * | 2  | APR | 1800 | 43  | 286.  | * | 3  | APR | 1900 | 68  | 34.  | * | 4  | APR | 2000 | 93  | 0.   |
| 1  | APR | 1800 | 19  | 4153. | * | 2  | APR | 1900 | 44  | 265.  | * | 3  | APR | 2000 | 69  | 30.  | * | 4  | APR | 2100 | 94  | 0.   |
| 1  | APR | 1900 | 20  | 3641. | * | 2  | APR | 2000 | 45  | 245.  | * | 3  | APR | 2100 | 70  | 24.  | * | 4  | APR | 2200 | 95  | 0.   |
| 1  | APR | 2000 | 21  | 2925. | * | 2  | APR | 2100 | 46  | 225.  | * | 3  | APR | 2200 | 71  | 18.  | * | 4  | APR | 2300 | 96  | 0.   |

|              |    |       |   |            |    |      |   |            |    |     |   |            |     |    |
|--------------|----|-------|---|------------|----|------|---|------------|----|-----|---|------------|-----|----|
| SJR_5-yr.out |    |       |   |            |    |      |   |            |    |     |   |            |     |    |
| 1 APR 2100   | 22 | 2371. | * | 2 APR 2200 | 47 | 208. | * | 3 APR 2300 | 72 | 12. | * | 5 APR 0000 | 97  | 0. |
| 1 APR 2200   | 23 | 2019. | * | 2 APR 2300 | 48 | 192. | * | 4 APR 0000 | 73 | 7.  | * | 5 APR 0100 | 98  | 0. |
| 1 APR 2300   | 24 | 1779. | * | 3 APR 0000 | 49 | 178. | * | 4 APR 0100 | 74 | 5.  | * | 5 APR 0200 | 99  | 0. |
| 2 APR 0000   | 25 | 1598. | * | 3 APR 0100 | 50 | 163. | * | 4 APR 0200 | 75 | 4.  | * | 5 APR 0300 | 100 | 0. |
|              |    |       | * |            |    |      | * |            |    |     | * |            |     |    |

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| PEAK FLOW | TIME  |          | 6-HR  | MAXIMUM AVERAGE FLOW | 72-HR | 99.00-HR |
|-----------|-------|----------|-------|----------------------|-------|----------|
| +         | (CFS) | (HR)     |       | 24-HR                |       |          |
|           |       | (CFS)    |       |                      |       |          |
| +         | 4224. | 17.00    | 3691. | 2080.                | 827.  | 601.     |
|           |       | (INCHES) | .140  | .315                 | .375  | .376     |
|           |       | (AC-FT)  | 1830. | 4126.                | 4918. | 4919.    |

CUMULATIVE AREA = 245.64 SQ MI

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

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69 KK      A-B      ROUTE BAUTISTA CK CONFL. TO MASSACRE CANYON CONFL. NEAR SANDERSON AVE.

ROUTE CONC.PT.A TO CONC.PT.B  
 BASED ON FJP'S PREVIOUS WORK, L=39,290 FT., Vavg=9.2 FPS.  
 Vw=1.5\*Vavg

#### HYDROGRAPH ROUTING DATA

73 RT      TATUM OR STRADDLE-STAGGER ROUTING

|        |   |                                       |
|--------|---|---------------------------------------|
| NSTPS  | 1 | NUMBER OF TATUM STEPS                 |
| NSTD L | 2 | NUMBER OF ORDINATES TO BE AVERAGED    |
| LAG    | 0 | NUMBER OF INTERVALS TO LAG HYDROGRAPH |

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#### HYDROGRAPH AT STATION      A-B

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|    |     |      |     |      |   |    |     |      |     |       |   |    |     |      |     |      |   |    |     |      |     |      |   |
|----|-----|------|-----|------|---|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 1522. | * | 3  | APR | 0200 | 51  | 156. | * | 4  | APR | 0300 | 76  | 3.   | * |

| SJR_5-yr.out |    |       |   |            |    |       |   |            |    |      |   |            |     |    |
|--------------|----|-------|---|------------|----|-------|---|------------|----|------|---|------------|-----|----|
| 1 APR 0100   | 2  | 0.    | * | 2 APR 0200 | 27 | 1373. | * | 3 APR 0300 | 52 | 142. | * | 4 APR 0400 | 77  | 3. |
| 1 APR 0200   | 3  | 13.   | * | 2 APR 0300 | 28 | 1219. | * | 3 APR 0400 | 53 | 131. | * | 4 APR 0500 | 78  | 2. |
| 1 APR 0300   | 4  | 68.   | * | 2 APR 0400 | 29 | 1054. | * | 3 APR 0500 | 54 | 119. | * | 4 APR 0600 | 79  | 1. |
| 1 APR 0400   | 5  | 180.  | * | 2 APR 0500 | 30 | 905.  | * | 3 APR 0600 | 55 | 106. | * | 4 APR 0700 | 80  | 1. |
| 1 APR 0500   | 6  | 324.  | * | 2 APR 0600 | 31 | 788.  | * | 3 APR 0700 | 56 | 93.  | * | 4 APR 0800 | 81  | 0. |
| 1 APR 0600   | 7  | 477.  | * | 2 APR 0700 | 32 | 701.  | * | 3 APR 0800 | 57 | 82.  | * | 4 APR 0900 | 82  | 0. |
| 1 APR 0700   | 8  | 638.  | * | 2 APR 0800 | 33 | 632.  | * | 3 APR 0900 | 58 | 73.  | * | 4 APR 1000 | 83  | 0. |
| 1 APR 0800   | 9  | 813.  | * | 2 APR 0900 | 34 | 575.  | * | 3 APR 1000 | 59 | 68.  | * | 4 APR 1100 | 84  | 0. |
| 1 APR 0900   | 10 | 1008. | * | 2 APR 1000 | 35 | 528.  | * | 3 APR 1100 | 60 | 63.  | * | 4 APR 1200 | 85  | 0. |
| 1 APR 1000   | 11 | 1250. | * | 2 APR 1100 | 36 | 489.  | * | 3 APR 1200 | 61 | 60.  | * | 4 APR 1300 | 86  | 0. |
| 1 APR 1100   | 12 | 1577. | * | 2 APR 1200 | 37 | 454.  | * | 3 APR 1300 | 62 | 57.  | * | 4 APR 1400 | 87  | 0. |
| 1 APR 1200   | 13 | 1989. | * | 2 APR 1300 | 38 | 422.  | * | 3 APR 1400 | 63 | 54.  | * | 4 APR 1500 | 88  | 0. |
| 1 APR 1300   | 14 | 2400. | * | 2 APR 1400 | 39 | 393.  | * | 3 APR 1500 | 64 | 51.  | * | 4 APR 1600 | 89  | 0. |
| 1 APR 1400   | 15 | 2745. | * | 2 APR 1500 | 40 | 367.  | * | 3 APR 1600 | 65 | 48.  | * | 4 APR 1700 | 90  | 0. |
| 1 APR 1500   | 16 | 3119. | * | 2 APR 1600 | 41 | 342.  | * | 3 APR 1700 | 66 | 44.  | * | 4 APR 1800 | 91  | 0. |
| 1 APR 1600   | 17 | 3608. | * | 2 APR 1700 | 42 | 318.  | * | 3 APR 1800 | 67 | 40.  | * | 4 APR 1900 | 92  | 0. |
| 1 APR 1700   | 18 | 4051. | * | 2 APR 1800 | 43 | 296.  | * | 3 APR 1900 | 68 | 36.  | * | 4 APR 2000 | 93  | 0. |
| 1 APR 1800   | 19 | 4189. | * | 2 APR 1900 | 44 | 275.  | * | 3 APR 2000 | 69 | 32.  | * | 4 APR 2100 | 94  | 0. |
| 1 APR 1900   | 20 | 3897. | * | 2 APR 2000 | 45 | 255.  | * | 3 APR 2100 | 70 | 27.  | * | 4 APR 2200 | 95  | 0. |
| 1 APR 2000   | 21 | 3283. | * | 2 APR 2100 | 46 | 235.  | * | 3 APR 2200 | 71 | 21.  | * | 4 APR 2300 | 96  | 0. |
| 1 APR 2100   | 22 | 2648. | * | 2 APR 2200 | 47 | 216.  | * | 3 APR 2300 | 72 | 15.  | * | 5 APR 0000 | 97  | 0. |
| 1 APR 2200   | 23 | 2195. | * | 2 APR 2300 | 48 | 200.  | * | 4 APR 0000 | 73 | 10.  | * | 5 APR 0100 | 98  | 0. |
| 1 APR 2300   | 24 | 1899. | * | 3 APR 0000 | 49 | 185.  | * | 4 APR 0100 | 74 | 6.   | * | 5 APR 0200 | 99  | 0. |
| 2 APR 0000   | 25 | 1689. | * | 3 APR 0100 | 50 | 170.  | * | 4 APR 0200 | 75 | 4.   | * | 5 APR 0300 | 100 | 0. |

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| PEAK FLOW | TIME  | MAXIMUM AVERAGE FLOW |       |       |          |
|-----------|-------|----------------------|-------|-------|----------|
| (CFS)     | (HR)  | 6-HR                 | 24-HR | 72-HR | 99.00-HR |
| 4189.     | 18.00 | 3652.                | 2079. | 826.  | 601.     |
|           |       | .138                 | .315  | .375  | .376     |
|           |       | 1811.                | 4123. | 4918. | 4919.    |

CUMULATIVE AREA = 245.64 SQ MI

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

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75 KK      6      SUBAREA 6

MASSACRE CANYON

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

## SUBBASIN RUNOFF DATA

77 BA SUBBASIN CHARACTERISTICS  
 TAREA 35.42 SUBBASIN AREA

## PRECIPITATION DATA

78 PB STORM .34 BASIN TOTAL PRECIPITATION

## 80 PI INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .01 | .01 | .02 | .02 | .03 | .03 | .04 | .04 | .06 |
| .08 | .07 | .07 | .10 | .15 | .10 | .08 | .01 | .02 | .01 |
| .01 | .01 | .01 | .01 | .01 | .00 |     |     |     |     |

## 85 LU UNIFORM LOSS RATE

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

85 UI INPUT UNITGRAPH, 29 ORDINATES, VOLUME = 1.00

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

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## HYDROGRAPH AT STATION 6

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 1.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 15.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 43.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 64.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 87.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 111.   | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 133.   | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 159.   | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 199.   | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 255.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .03  | .00  | .03    | 333.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |

| SJR_5-yr.out |     |      |    |     |     |     |      |   |   |     |      |     |     |     |     |    |
|--------------|-----|------|----|-----|-----|-----|------|---|---|-----|------|-----|-----|-----|-----|----|
| 1            | APR | 1200 | 13 | .02 | .00 | .02 | 387. | * | 3 | APR | 1400 | 63  | .00 | .00 | .00 | 0. |
| 1            | APR | 1300 | 14 | .02 | .00 | .02 | 403. | * | 3 | APR | 1500 | 64  | .00 | .00 | .00 | 0. |
| 1            | APR | 1400 | 15 | .03 | .00 | .03 | 469. | * | 3 | APR | 1600 | 65  | .00 | .00 | .00 | 0. |
| 1            | APR | 1500 | 16 | .05 | .00 | .05 | 622. | * | 3 | APR | 1700 | 66  | .00 | .00 | .00 | 0. |
| 1            | APR | 1600 | 17 | .03 | .00 | .03 | 709. | * | 3 | APR | 1800 | 67  | .00 | .00 | .00 | 0. |
| 1            | APR | 1700 | 18 | .03 | .00 | .03 | 646. | * | 3 | APR | 1900 | 68  | .00 | .00 | .00 | 0. |
| 1            | APR | 1800 | 19 | .00 | .00 | .00 | 520. | * | 3 | APR | 2000 | 69  | .00 | .00 | .00 | 0. |
| 1            | APR | 1900 | 20 | .01 | .00 | .01 | 367. | * | 3 | APR | 2100 | 70  | .00 | .00 | .00 | 0. |
| 1            | APR | 2000 | 21 | .00 | .00 | .00 | 303. | * | 3 | APR | 2200 | 71  | .00 | .00 | .00 | 0. |
| 1            | APR | 2100 | 22 | .00 | .00 | .00 | 255. | * | 3 | APR | 2300 | 72  | .00 | .00 | .00 | 0. |
| 1            | APR | 2200 | 23 | .00 | .00 | .00 | 221. | * | 4 | APR | 0000 | 73  | .00 | .00 | .00 | 0. |
| 1            | APR | 2300 | 24 | .00 | .00 | .00 | 196. | * | 4 | APR | 0100 | 74  | .00 | .00 | .00 | 0. |
| 2            | APR | 0000 | 25 | .00 | .00 | .00 | 175. | * | 4 | APR | 0200 | 75  | .00 | .00 | .00 | 0. |
| 2            | APR | 0100 | 26 | .00 | .00 | .00 | 158. | * | 4 | APR | 0300 | 76  | .00 | .00 | .00 | 0. |
| 2            | APR | 0200 | 27 | .00 | .00 | .00 | 134. | * | 4 | APR | 0400 | 77  | .00 | .00 | .00 | 0. |
| 2            | APR | 0300 | 28 | .00 | .00 | .00 | 106. | * | 4 | APR | 0500 | 78  | .00 | .00 | .00 | 0. |
| 2            | APR | 0400 | 29 | .00 | .00 | .00 | 90.  | * | 4 | APR | 0600 | 79  | .00 | .00 | .00 | 0. |
| 2            | APR | 0500 | 30 | .00 | .00 | .00 | 77.  | * | 4 | APR | 0700 | 80  | .00 | .00 | .00 | 0. |
| 2            | APR | 0600 | 31 | .00 | .00 | .00 | 66.  | * | 4 | APR | 0800 | 81  | .00 | .00 | .00 | 0. |
| 2            | APR | 0700 | 32 | .00 | .00 | .00 | 57.  | * | 4 | APR | 0900 | 82  | .00 | .00 | .00 | 0. |
| 2            | APR | 0800 | 33 | .00 | .00 | .00 | 48.  | * | 4 | APR | 1000 | 83  | .00 | .00 | .00 | 0. |
| 2            | APR | 0900 | 34 | .00 | .00 | .00 | 42.  | * | 4 | APR | 1100 | 84  | .00 | .00 | .00 | 0. |
| 2            | APR | 1000 | 35 | .00 | .00 | .00 | 36.  | * | 4 | APR | 1200 | 85  | .00 | .00 | .00 | 0. |
| 2            | APR | 1100 | 36 | .00 | .00 | .00 | 30.  | * | 4 | APR | 1300 | 86  | .00 | .00 | .00 | 0. |
| 2            | APR | 1200 | 37 | .00 | .00 | .00 | 25.  | * | 4 | APR | 1400 | 87  | .00 | .00 | .00 | 0. |
| 2            | APR | 1300 | 38 | .00 | .00 | .00 | 21.  | * | 4 | APR | 1500 | 88  | .00 | .00 | .00 | 0. |
| 2            | APR | 1400 | 39 | .00 | .00 | .00 | 18.  | * | 4 | APR | 1600 | 89  | .00 | .00 | .00 | 0. |
| 2            | APR | 1500 | 40 | .00 | .00 | .00 | 16.  | * | 4 | APR | 1700 | 90  | .00 | .00 | .00 | 0. |
| 2            | APR | 1600 | 41 | .00 | .00 | .00 | 14.  | * | 4 | APR | 1800 | 91  | .00 | .00 | .00 | 0. |
| 2            | APR | 1700 | 42 | .00 | .00 | .00 | 12.  | * | 4 | APR | 1900 | 92  | .00 | .00 | .00 | 0. |
| 2            | APR | 1800 | 43 | .00 | .00 | .00 | 10.  | * | 4 | APR | 2000 | 93  | .00 | .00 | .00 | 0. |
| 2            | APR | 1900 | 44 | .00 | .00 | .00 | 8.   | * | 4 | APR | 2100 | 94  | .00 | .00 | .00 | 0. |
| 2            | APR | 2000 | 45 | .00 | .00 | .00 | 5.   | * | 4 | APR | 2200 | 95  | .00 | .00 | .00 | 0. |
| 2            | APR | 2100 | 46 | .00 | .00 | .00 | 3.   | * | 4 | APR | 2300 | 96  | .00 | .00 | .00 | 0. |
| 2            | APR | 2200 | 47 | .00 | .00 | .00 | 2.   | * | 5 | APR | 0000 | 97  | .00 | .00 | .00 | 0. |
| 2            | APR | 2300 | 48 | .00 | .00 | .00 | 1.   | * | 5 | APR | 0100 | 98  | .00 | .00 | .00 | 0. |
| 3            | APR | 0000 | 49 | .00 | .00 | .00 | 1.   | * | 5 | APR | 0200 | 99  | .00 | .00 | .00 | 0. |
| 3            | APR | 0100 | 50 | .00 | .00 | .00 | 1.   | * | 5 | APR | 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .34, TOTAL LOSS = .00, TOTAL EXCESS = .34

| PEAK FLOW |       | TIME  |          | MAXIMUM AVERAGE FLOW |       |       |          |
|-----------|-------|-------|----------|----------------------|-------|-------|----------|
|           |       |       |          | 6-HR                 | 24-HR | 72-HR | 99.00-HR |
| +         | (CFS) | (HR)  | (CFS)    |                      |       |       |          |
| +         | 709.  | 16.00 | 559.     | 293.                 | 106.  | 77.   |          |
|           |       |       | (INCHES) | .147                 | .308  | .335  | .335     |
|           |       |       | (AC-FT)  | 277.                 | 581.  | 633.  | 633.     |

CUMULATIVE AREA = 35.42 SQ MI

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 \* \*  
 90 KK \* 5 \* SUBAREA 5  
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SOBOBA-GILMAN

94 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 30 TIME INTERVAL IN MINUTES  
 JXDATE 1APR92 STARTING DATE  
 JXTIME 55 STARTING TIME  
 UHG FROM MOUNTAIN S-GRAPH

SUBBASIN RUNOFF DATA

92 BA SUBBASIN CHARACTERISTICS  
 TAREA 12.07 SUBBASIN AREA

PRECIPITATION DATA

93 PB STORM .27 BASIN TOTAL PRECIPITATION

95 PI INCREMENTAL PRECIPITATION PATTERN  
 .01 .01 .02 .02 .03 .03 .04 .05 .06 .08  
 .07 .07 .10 .12 .10 .09 .02 .02 .01 .01  
 .01 .01 .01 .01 .00 .00

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

100 UI INPUT UNITGRAPH, 23 ORDINATES, VOLUME = 1.00  
 2082.0 2170.0 853.0 570.0 401.0 309.0 227.0 186.0 163.0 144.0  
 126.0 110.0 89.0 77.0 65.0 60.0 24.0 24.0 24.0 24.0  
 23.5 23.5 12.1

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HYDROGRAPH AT STATION 5

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|    |     |      |     |      |      |        |        | SJR_5-yr.out |    |     |      |     |      |      |        |        |
|----|-----|------|-----|------|------|--------|--------|--------------|----|-----|------|-----|------|------|--------|--------|
| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | *            | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | *            | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 6.     | *            | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 14.    | *            | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 20.    | *            | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 26.    | *            | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 35.    | *            | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 42.    | *            | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 51.    | *            | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 63.    | *            | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .02  | .00  | .02    | 80.    | *            | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 105.   | *            | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 118.   | *            | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 123.   | *            | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .03  | .00  | .03    | 147.   | *            | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 175.   | *            | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 185.   | *            | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .02  | .00  | .02    | 179.   | *            | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .01  | .00  | .01    | 137.   | *            | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .00  | .00  | .00    | 97.    | *            | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 79.    | *            | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 66.    | *            | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 57.    | *            | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 50.    | *            | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 45.    | *            | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0000 | 25  | .00  | .00  | .00    | 40.    | *            | 4  | APR | 0200 | 75  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0100 | 26  | .00  | .00  | .00    | 32.    | *            | 4  | APR | 0300 | 76  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0200 | 27  | .00  | .00  | .00    | 24.    | *            | 4  | APR | 0400 | 77  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0300 | 28  | .00  | .00  | .00    | 19.    | *            | 4  | APR | 0500 | 78  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0400 | 29  | .00  | .00  | .00    | 15.    | *            | 4  | APR | 0600 | 79  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0500 | 30  | .00  | .00  | .00    | 13.    | *            | 4  | APR | 0700 | 80  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0600 | 31  | .00  | .00  | .00    | 10.    | *            | 4  | APR | 0800 | 81  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0700 | 32  | .00  | .00  | .00    | 8.     | *            | 4  | APR | 0900 | 82  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0800 | 33  | .00  | .00  | .00    | 6.     | *            | 4  | APR | 1000 | 83  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0900 | 34  | .00  | .00  | .00    | 5.     | *            | 4  | APR | 1100 | 84  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1000 | 35  | .00  | .00  | .00    | 5.     | *            | 4  | APR | 1200 | 85  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1100 | 36  | .00  | .00  | .00    | 4.     | *            | 4  | APR | 1300 | 86  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1200 | 37  | .00  | .00  | .00    | 3.     | *            | 4  | APR | 1400 | 87  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1300 | 38  | .00  | .00  | .00    | 2.     | *            | 4  | APR | 1500 | 88  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1400 | 39  | .00  | .00  | .00    | 1.     | *            | 4  | APR | 1600 | 89  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1500 | 40  | .00  | .00  | .00    | 1.     | *            | 4  | APR | 1700 | 90  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1600 | 41  | .00  | .00  | .00    | 0.     | *            | 4  | APR | 1800 | 91  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1700 | 42  | .00  | .00  | .00    | 0.     | *            | 4  | APR | 1900 | 92  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1800 | 43  | .00  | .00  | .00    | 0.     | *            | 4  | APR | 2000 | 93  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1900 | 44  | .00  | .00  | .00    | 0.     | *            | 4  | APR | 2100 | 94  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2000 | 45  | .00  | .00  | .00    | 0.     | *            | 4  | APR | 2200 | 95  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2100 | 46  | .00  | .00  | .00    | 0.     | *            | 4  | APR | 2300 | 96  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2200 | 47  | .00  | .00  | .00    | 0.     | *            | 5  | APR | 0000 | 97  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2300 | 48  | .00  | .00  | .00    | 0.     | *            | 5  | APR | 0100 | 98  | .00  | .00  | .00    | 0.     |
| 3  | APR | 0000 | 49  | .00  | .00  | .00    | 0.     | *            | 5  | APR | 0200 | 99  | .00  | .00  | .00    | 0.     |
| 3  | APR | 0100 | 50  | .00  | .00  | .00    | 0.     | *            | 5  | APR | 0300 | 100 | .00  | .00  | .00    | 0.     |

SJR\_5-yr.out

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TOTAL RAINFALL = .27, TOTAL LOSS = .00, TOTAL EXCESS = .27

| PEAK FLOW                     | TIME |          | 6-HR | MAXIMUM AVERAGE FLOW |       |          |
|-------------------------------|------|----------|------|----------------------|-------|----------|
| (CFS)                         | (HR) |          |      | 24-HR                | 72-HR | 99.00-HR |
| +                             | 185. | 15.00    |      |                      |       |          |
|                               |      | (CFS)    | 156. | 82.                  | 29.   | 21.      |
|                               |      | (INCHES) | .120 | .253                 | .268  | .268     |
|                               |      | (AC-FT)  | 77.  | 163.                 | 172.  | 172.     |
| CUMULATIVE AREA = 12.07 SQ MI |      |          |      |                      |       |          |

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105 KK \*\*\*\*\*  
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\* B \*  
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MASSACRE CANYON CONFLUENCE NEAR SANDERSON AVENUE

107 HC HYDROGRAPH COMBINATION  
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION B  
SUM OF 3 HYDROGRAPHS

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| DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW |
|----|-----|------|-----|-------|---|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|
| 1  | APR | 0000 | 1   | 0.    | * | 2  | APR | 0100 | 26  | 1711. | * | 3  | APR | 0200 | 51  | 156. | * | 4  | APR | 0300 | 76  | 3.   |
| 1  | APR | 0100 | 2   | 6.    | * | 2  | APR | 0200 | 27  | 1531. | * | 3  | APR | 0300 | 52  | 143. | * | 4  | APR | 0400 | 77  | 3.   |
| 1  | APR | 0200 | 3   | 42.   | * | 2  | APR | 0300 | 28  | 1344. | * | 3  | APR | 0400 | 53  | 131. | * | 4  | APR | 0500 | 78  | 2.   |
| 1  | APR | 0300 | 4   | 131.  | * | 2  | APR | 0400 | 29  | 1160. | * | 3  | APR | 0500 | 54  | 119. | * | 4  | APR | 0600 | 79  | 1.   |
| 1  | APR | 0400 | 5   | 270.  | * | 2  | APR | 0500 | 30  | 994.  | * | 3  | APR | 0600 | 55  | 106. | * | 4  | APR | 0700 | 80  | 1.   |
| 1  | APR | 0500 | 6   | 446.  | * | 2  | APR | 0600 | 31  | 865.  | * | 3  | APR | 0700 | 56  | 93.  | * | 4  | APR | 0800 | 81  | 0.   |
| 1  | APR | 0600 | 7   | 630.  | * | 2  | APR | 0700 | 32  | 766.  | * | 3  | APR | 0800 | 57  | 82.  | * | 4  | APR | 0900 | 82  | 0.   |
| 1  | APR | 0700 | 8   | 822.  | * | 2  | APR | 0800 | 33  | 687.  | * | 3  | APR | 0900 | 58  | 73.  | * | 4  | APR | 1000 | 83  | 0.   |
| 1  | APR | 0800 | 9   | 1035. | * | 2  | APR | 0900 | 34  | 622.  | * | 3  | APR | 1000 | 59  | 68.  | * | 4  | APR | 1100 | 84  | 0.   |
| 1  | APR | 0900 | 10  | 1288. | * | 2  | APR | 1000 | 35  | 569.  | * | 3  | APR | 1100 | 60  | 63.  | * | 4  | APR | 1200 | 85  | 0.   |

| SJR_5-yr.out |    |       |   |            |    |      |   |            |    |     |   |            |     |    |
|--------------|----|-------|---|------------|----|------|---|------------|----|-----|---|------------|-----|----|
| 1 APR 1000   | 11 | 1610. | * | 2 APR 1100 | 36 | 523. | * | 3 APR 1200 | 61 | 60. | * | 4 APR 1300 | 86  | 0. |
| 1 APR 1100   | 12 | 2028. | * | 2 APR 1200 | 37 | 482. | * | 3 APR 1300 | 62 | 57. | * | 4 APR 1400 | 87  | 0. |
| 1 APR 1200   | 13 | 2499. | * | 2 APR 1300 | 38 | 445. | * | 3 APR 1400 | 63 | 54. | * | 4 APR 1500 | 88  | 0. |
| 1 APR 1300   | 14 | 2950. | * | 2 APR 1400 | 39 | 413. | * | 3 APR 1500 | 64 | 51. | * | 4 APR 1600 | 89  | 0. |
| 1 APR 1400   | 15 | 3389. | * | 2 APR 1500 | 40 | 384. | * | 3 APR 1600 | 65 | 48. | * | 4 APR 1700 | 90  | 0. |
| 1 APR 1500   | 16 | 3927. | * | 2 APR 1600 | 41 | 356. | * | 3 APR 1700 | 66 | 44. | * | 4 APR 1800 | 91  | 0. |
| 1 APR 1600   | 17 | 4496. | * | 2 APR 1700 | 42 | 330. | * | 3 APR 1800 | 67 | 40. | * | 4 APR 1900 | 92  | 0. |
| 1 APR 1700   | 18 | 4834. | * | 2 APR 1800 | 43 | 307. | * | 3 APR 1900 | 68 | 36. | * | 4 APR 2000 | 93  | 0. |
| 1 APR 1800   | 19 | 4805. | * | 2 APR 1900 | 44 | 283. | * | 3 APR 2000 | 69 | 32. | * | 4 APR 2100 | 94  | 0. |
| 1 APR 1900   | 20 | 4343. | * | 2 APR 2000 | 45 | 260. | * | 3 APR 2100 | 70 | 27. | * | 4 APR 2200 | 95  | 0. |
| 1 APR 2000   | 21 | 3651. | * | 2 APR 2100 | 46 | 238. | * | 3 APR 2200 | 71 | 21. | * | 4 APR 2300 | 96  | 0. |
| 1 APR 2100   | 22 | 2959. | * | 2 APR 2200 | 47 | 218. | * | 3 APR 2300 | 72 | 15. | * | 5 APR 0000 | 97  | 0. |
| 1 APR 2200   | 23 | 2466. | * | 2 APR 2300 | 48 | 201. | * | 4 APR 0000 | 73 | 10. | * | 5 APR 0100 | 98  | 0. |
| 1 APR 2300   | 24 | 2139. | * | 3 APR 0000 | 49 | 186. | * | 4 APR 0100 | 74 | 6.  | * | 5 APR 0200 | 99  | 0. |
| 2 APR 0000   | 25 | 1903. | * | 3 APR 0100 | 50 | 171. | * | 4 APR 0200 | 75 | 4.  | * | 5 APR 0300 | 100 | 0. |

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| PEAK FLOW | TIME  |          | MAXIMUM | AVERAGE FLOW |       |
|-----------|-------|----------|---------|--------------|-------|
| (CFS)     | (HR)  |          | 6-HR    | 24-HR        | 72-HR |
| 4834.     | 17.00 | (CFS)    | 4321.   | 2447.        | 962.  |
|           |       | (INCHES) | .137    | .310         | .366  |
|           |       | (AC-FT)  | 2143.   | 4853.        | 5723. |

CUMULATIVE AREA = 293.13 SQ MI

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

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109 KK      7      SUBAREA 7

LAMB CANYON

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

SUBBASIN RUNOFF DATA

111 BA      SUBBASIN CHARACTERISTICS

TAREA 5.64 SUBBASIN AREA

## PRECIPITATION DATA

112 PB STORM .29 BASIN TOTAL PRECIPITATION

114 PI INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .01 | .01 | .02 | .02 | .03 | .03 | .04 | .04 | .06 | .08 |
| .07 | .07 | .10 | .12 | .10 | .09 | .03 | .02 | .02 | .01 |
| .01 | .01 | .01 | .01 | .00 | .00 |     |     |     |     |

124 LU UNIFORM LOSS RATE

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

124 UI INPUT UNITGRAPH, 16 ORDINATES, VOLUME = 1.00

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

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## HYDROGRAPH AT STATION 7

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 4.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 8.     | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 11.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 15.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 19.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 23.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 28.    | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 34.    | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .02  | .00  | .02    | 44.    | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 58.    | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 63.    | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 67.    | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .03  | .00  | .03    | 80.    | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 97.    | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 98.    | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .03  | .00  | .03    | 94.    | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .01  | .00  | .01    | 67.    | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .01  | .00  | .01    | 48.    | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 37.    | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 31.    | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 26.    | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |     | SJR_5-yr.out |            |     |     |     |     |    |
|------------|----|-----|-----|-----|-----|--------------|------------|-----|-----|-----|-----|----|
| 1 APR 2200 | 23 | .00 | .00 | .00 | 22. | *            | 4 APR 0000 | 73  | .00 | .00 | .00 | 0. |
| 1 APR 2300 | 24 | .00 | .00 | .00 | 19. | *            | 4 APR 0100 | 74  | .00 | .00 | .00 | 0. |
| 2 APR 0000 | 25 | .00 | .00 | .00 | 16. | *            | 4 APR 0200 | 75  | .00 | .00 | .00 | 0. |
| 2 APR 0100 | 26 | .00 | .00 | .00 | 12. | *            | 4 APR 0300 | 76  | .00 | .00 | .00 | 0. |
| 2 APR 0200 | 27 | .00 | .00 | .00 | 8.  | *            | 4 APR 0400 | 77  | .00 | .00 | .00 | 0. |
| 2 APR 0300 | 28 | .00 | .00 | .00 | 5.  | *            | 4 APR 0500 | 78  | .00 | .00 | .00 | 0. |
| 2 APR 0400 | 29 | .00 | .00 | .00 | 4.  | *            | 4 APR 0600 | 79  | .00 | .00 | .00 | 0. |
| 2 APR 0500 | 30 | .00 | .00 | .00 | 3.  | *            | 4 APR 0700 | 80  | .00 | .00 | .00 | 0. |
| 2 APR 0600 | 31 | .00 | .00 | .00 | 2.  | *            | 4 APR 0800 | 81  | .00 | .00 | .00 | 0. |
| 2 APR 0700 | 32 | .00 | .00 | .00 | 1.  | *            | 4 APR 0900 | 82  | .00 | .00 | .00 | 0. |
| 2 APR 0800 | 33 | .00 | .00 | .00 | 1.  | *            | 4 APR 1000 | 83  | .00 | .00 | .00 | 0. |
| 2 APR 0900 | 34 | .00 | .00 | .00 | 1.  | *            | 4 APR 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 0.  | *            | 4 APR 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 0.  | *            | 4 APR 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 0.  | *            | 4 APR 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 0.  | *            | 4 APR 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0.  | *            | 4 APR 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0.  | *            | 4 APR 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0.  | *            | 4 APR 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0.  | *            | 4 APR 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0.  | *            | 4 APR 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0.  | *            | 4 APR 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0.  | *            | 4 APR 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0.  | *            | 4 APR 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0.  | *            | 5 APR 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0.  | *            | 5 APR 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0.  | *            | 5 APR 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0.  | *            | 5 APR 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .29, TOTAL LOSS = .00, TOTAL EXCESS = .29

| PEAK FLOW | TIME  |       | 6-HR     | MAXIMUM AVERAGE FLOW |       |          |
|-----------|-------|-------|----------|----------------------|-------|----------|
| +         | (CFS) | (HR)  |          | 24-HR                | 72-HR | 99.00-HR |
| +         | 98.   | 15.00 | (CFS)    | 84.                  | 42.   | 15.      |
|           |       |       | (INCHES) | .138                 | .280  | .288     |
|           |       |       | (AC-FT)  | 41.                  | 84.   | 87.      |

CUMULATIVE AREA = 5.64 SQ MI

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128 KK      \*\*\*\*\*  
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                  \*                   \*  
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LAMB CANYON CONFLUENCE

130 HC

HYDROGRAPH COMBINATION  
ICOMP

2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION C  
SUM OF 2 HYDROGRAPHS

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| DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
|----|-----|------|-----|-------|---|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| 1  | APR | 0000 | 1   | 0.    | * | 2  | APR | 0100 | 26  | 1723. | * | 3  | APR | 0200 | 51  | 156. | * | 4  | APR | 0300 | 76  | 3.   | * |
| 1  | APR | 0100 | 2   | 10.   | * | 2  | APR | 0200 | 27  | 1539. | * | 3  | APR | 0300 | 52  | 143. | * | 4  | APR | 0400 | 77  | 3.   | * |
| 1  | APR | 0200 | 3   | 49.   | * | 2  | APR | 0300 | 28  | 1349. | * | 3  | APR | 0400 | 53  | 131. | * | 4  | APR | 0500 | 78  | 2.   | * |
| 1  | APR | 0300 | 4   | 142.  | * | 2  | APR | 0400 | 29  | 1164. | * | 3  | APR | 0500 | 54  | 119. | * | 4  | APR | 0600 | 79  | 1.   | * |
| 1  | APR | 0400 | 5   | 284.  | * | 2  | APR | 0500 | 30  | 997.  | * | 3  | APR | 0600 | 55  | 106. | * | 4  | APR | 0700 | 80  | 1.   | * |
| 1  | APR | 0500 | 6   | 465.  | * | 2  | APR | 0600 | 31  | 867.  | * | 3  | APR | 0700 | 56  | 93.  | * | 4  | APR | 0800 | 81  | 0.   | * |
| 1  | APR | 0600 | 7   | 653.  | * | 2  | APR | 0700 | 32  | 768.  | * | 3  | APR | 0800 | 57  | 82.  | * | 4  | APR | 0900 | 82  | 0.   | * |
| 1  | APR | 0700 | 8   | 850.  | * | 2  | APR | 0800 | 33  | 688.  | * | 3  | APR | 0900 | 58  | 73.  | * | 4  | APR | 1000 | 83  | 0.   | * |
| 1  | APR | 0800 | 9   | 1069. | * | 2  | APR | 0900 | 34  | 623.  | * | 3  | APR | 1000 | 59  | 68.  | * | 4  | APR | 1100 | 84  | 0.   | * |
| 1  | APR | 0900 | 10  | 1332. | * | 2  | APR | 1000 | 35  | 569.  | * | 3  | APR | 1100 | 60  | 63.  | * | 4  | APR | 1200 | 85  | 0.   | * |
| 1  | APR | 1000 | 11  | 1668. | * | 2  | APR | 1100 | 36  | 523.  | * | 3  | APR | 1200 | 61  | 60.  | * | 4  | APR | 1300 | 86  | 0.   | * |
| 1  | APR | 1100 | 12  | 2091. | * | 2  | APR | 1200 | 37  | 482.  | * | 3  | APR | 1300 | 62  | 57.  | * | 4  | APR | 1400 | 87  | 0.   | * |
| 1  | APR | 1200 | 13  | 2567. | * | 2  | APR | 1300 | 38  | 445.  | * | 3  | APR | 1400 | 63  | 54.  | * | 4  | APR | 1500 | 88  | 0.   | * |
| 1  | APR | 1300 | 14  | 3030. | * | 2  | APR | 1400 | 39  | 413.  | * | 3  | APR | 1500 | 64  | 51.  | * | 4  | APR | 1600 | 89  | 0.   | * |
| 1  | APR | 1400 | 15  | 3486. | * | 2  | APR | 1500 | 40  | 384.  | * | 3  | APR | 1600 | 65  | 48.  | * | 4  | APR | 1700 | 90  | 0.   | * |
| 1  | APR | 1500 | 16  | 4025. | * | 2  | APR | 1600 | 41  | 356.  | * | 3  | APR | 1700 | 66  | 44.  | * | 4  | APR | 1800 | 91  | 0.   | * |
| 1  | APR | 1600 | 17  | 4591. | * | 2  | APR | 1700 | 42  | 330.  | * | 3  | APR | 1800 | 67  | 40.  | * | 4  | APR | 1900 | 92  | 0.   | * |
| 1  | APR | 1700 | 18  | 4901. | * | 2  | APR | 1800 | 43  | 307.  | * | 3  | APR | 1900 | 68  | 36.  | * | 4  | APR | 2000 | 93  | 0.   | * |
| 1  | APR | 1800 | 19  | 4853. | * | 2  | APR | 1900 | 44  | 283.  | * | 3  | APR | 2000 | 69  | 32.  | * | 4  | APR | 2100 | 94  | 0.   | * |
| 1  | APR | 1900 | 20  | 4380. | * | 2  | APR | 2000 | 45  | 260.  | * | 3  | APR | 2100 | 70  | 27.  | * | 4  | APR | 2200 | 95  | 0.   | * |
| 1  | APR | 2000 | 21  | 3682. | * | 2  | APR | 2100 | 46  | 238.  | * | 3  | APR | 2200 | 71  | 21.  | * | 4  | APR | 2300 | 96  | 0.   | * |
| 1  | APR | 2100 | 22  | 2985. | * | 2  | APR | 2200 | 47  | 218.  | * | 3  | APR | 2300 | 72  | 15.  | * | 5  | APR | 0000 | 97  | 0.   | * |
| 1  | APR | 2200 | 23  | 2488. | * | 2  | APR | 2300 | 48  | 201.  | * | 4  | APR | 0000 | 73  | 10.  | * | 5  | APR | 0100 | 98  | 0.   | * |
| 1  | APR | 2300 | 24  | 2158. | * | 3  | APR | 0000 | 49  | 186.  | * | 4  | APR | 0100 | 74  | 6.   | * | 5  | APR | 0200 | 99  | 0.   | * |
| 2  | APR | 0000 | 25  | 1920. | * | 3  | APR | 0100 | 50  | 171.  | * | 4  | APR | 0200 | 75  | 4.   | * | 5  | APR | 0300 | 100 | 0.   | * |

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| PEAK FLOW | TIME  |          | MAXIMUM AVERAGE FLOW |       |       |
|-----------|-------|----------|----------------------|-------|-------|
| (CFS)     | (HR)  |          | 6-HR                 | 24-HR | 72-HR |
| 4901.     | 17.00 | (CFS)    | 4389.                | 2486. | 976.  |
|           |       | (INCHES) | .137                 | .309  | .365  |

(AC-FT) 2176. 4932. 5809. SJR\_5-yr.out  
5811.

CUMULATIVE AREA = 298.77 SQ MI

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

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\* \*  
132 KK \* 8 \* SUBAREA 8  
\* \*  
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LABORDE CANYON

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

SUBBASIN RUNOFF DATA

134 BA SUBBASIN CHARACTERISTICS  
TAREA 9.73 SUBBASIN AREA

PRECIPITATION DATA

135 PB STORM .29 BASIN TOTAL PRECIPITATION

137 PI INCREMENTAL PRECIPITATION PATTERN  
.01 .01 .02 .02 .03 .03 .04 .04 .06 .08  
.07 .07 .10 .12 .10 .09 .03 .02 .02 .01  
.01 .01 .01 .01 .00 .00

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

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

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SJR\_5-yr.out  
HYDROGRAPH AT STATION 8

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 6.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 13.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 20.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 26.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 34.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 40.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 49.    | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 60.    | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .02  | .00  | .02    | 78.    | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 102.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 110.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 118.   | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .03  | .00  | .03    | 140.   | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 170.   | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 171.   | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .03  | .00  | .03    | 165.   | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .01  | .00  | .01    | 115.   | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .01  | .00  | .01    | 82.    | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 65.    | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 52.    | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 44.    | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 38.    | * | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 33.    | * | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0000 | 25  | .00  | .00  | .00    | 28.    | * | 4  | APR | 0200 | 75  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0100 | 26  | .00  | .00  | .00    | 19.    | * | 4  | APR | 0300 | 76  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0200 | 27  | .00  | .00  | .00    | 13.    | * | 4  | APR | 0400 | 77  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0300 | 28  | .00  | .00  | .00    | 9.     | * | 4  | APR | 0500 | 78  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0400 | 29  | .00  | .00  | .00    | 7.     | * | 4  | APR | 0600 | 79  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0500 | 30  | .00  | .00  | .00    | 5.     | * | 4  | APR | 0700 | 80  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0600 | 31  | .00  | .00  | .00    | 3.     | * | 4  | APR | 0800 | 81  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0700 | 32  | .00  | .00  | .00    | 2.     | * | 4  | APR | 0900 | 82  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0800 | 33  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1000 | 83  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0900 | 34  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1100 | 84  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1000 | 35  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1200 | 85  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1100 | 36  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1300 | 86  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1200 | 37  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1400 | 87  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1300 | 38  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1500 | 88  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1400 | 39  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1600 | 89  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1500 | 40  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1700 | 90  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1600 | 41  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1800 | 91  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1700 | 42  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1900 | 92  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1800 | 43  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2000 | 93  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1900 | 44  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2100 | 94  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2000 | 45  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2200 | 95  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2100 | 46  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2300 | 96  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |    |   |              |     |     |     |     |    |  |
|------------|----|-----|-----|-----|----|---|--------------|-----|-----|-----|-----|----|--|
|            |    |     |     |     |    |   | SJR_5-yr.out |     |     |     |     |    |  |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0. | * | 5 APR 0000   | 97  | .00 | .00 | .00 | 0. |  |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0. | * | 5 APR 0100   | 98  | .00 | .00 | .00 | 0. |  |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0. | * | 5 APR 0200   | 99  | .00 | .00 | .00 | 0. |  |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0. | * | 5 APR 0300   | 100 | .00 | .00 | .00 | 0. |  |
|            |    |     |     |     |    |   |              |     |     |     |     |    |  |

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TOTAL RAINFALL = .29, TOTAL LOSS = .00, TOTAL EXCESS = .29

|           |      |          |      |                      |       |          |
|-----------|------|----------|------|----------------------|-------|----------|
| PEAK FLOW | TIME |          | 6-HR | MAXIMUM AVERAGE FLOW |       |          |
| (CFS)     | (HR) |          |      | 24-HR                | 72-HR | 99.00-HR |
| +         |      | (CFS)    |      |                      |       |          |
| +         | 171. | 15.00    | 146. | 74.                  | 25.   | 18.      |
|           |      | (INCHES) | .139 | .282                 | .290  | .290     |
|           |      | (AC-FT)  | 72.  | 146.                 | 150.  | 150.     |

CUMULATIVE AREA = 9.73 SQ MI

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151 KK \*\*\*\*\*  
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 \* D \*  
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LABORDE CANYON CONFLUENCE

153 HC HYDROGRAPH COMBINATION  
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION D  
 SUM OF 2 HYDROGRAPHS

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|    |     |      |     |      |   |    |     |      |     |       |   |    |     |      |     |      |   |    |     |      |     |      |
|----|-----|------|-----|------|---|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|
| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW |
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 1742. | * | 3  | APR | 0200 | 51  | 156. | * | 4  | APR | 0300 | 76  | 3.   |
| 1  | APR | 0100 | 2   | 16.  | * | 2  | APR | 0200 | 27  | 1551. | * | 3  | APR | 0300 | 52  | 143. | * | 4  | APR | 0400 | 77  | 3.   |
| 1  | APR | 0200 | 3   | 63.  | * | 2  | APR | 0300 | 28  | 1358. | * | 3  | APR | 0400 | 53  | 131. | * | 4  | APR | 0500 | 78  | 2.   |
| 1  | APR | 0300 | 4   | 162. | * | 2  | APR | 0400 | 29  | 1170. | * | 3  | APR | 0500 | 54  | 119. | * | 4  | APR | 0600 | 79  | 1.   |
| 1  | APR | 0400 | 5   | 310. | * | 2  | APR | 0500 | 30  | 1002. | * | 3  | APR | 0600 | 55  | 106. | * | 4  | APR | 0700 | 80  | 1.   |
| 1  | APR | 0500 | 6   | 498. | * | 2  | APR | 0600 | 31  | 870.  | * | 3  | APR | 0700 | 56  | 93.  | * | 4  | APR | 0800 | 81  | 0.   |

| SJR_5-yr.out |    |       |   |            |    |      |   |            |    |     |   |            |     |    |
|--------------|----|-------|---|------------|----|------|---|------------|----|-----|---|------------|-----|----|
| 1 APR 0600   | 7  | 693.  | * | 2 APR 0700 | 32 | 770. | * | 3 APR 0800 | 57 | 82. | * | 4 APR 0900 | 82  | 0. |
| 1 APR 0700   | 8  | 899.  | * | 2 APR 0800 | 33 | 689. | * | 3 APR 0900 | 58 | 73. | * | 4 APR 1000 | 83  | 0. |
| 1 APR 0800   | 9  | 1128. | * | 2 APR 0900 | 34 | 624. | * | 3 APR 1000 | 59 | 68. | * | 4 APR 1100 | 84  | 0. |
| 1 APR 0900   | 10 | 1410. | * | 2 APR 1000 | 35 | 570. | * | 3 APR 1100 | 60 | 63. | * | 4 APR 1200 | 85  | 0. |
| 1 APR 1000   | 11 | 1769. | * | 2 APR 1100 | 36 | 523. | * | 3 APR 1200 | 61 | 60. | * | 4 APR 1300 | 86  | 0. |
| 1 APR 1100   | 12 | 2202. | * | 2 APR 1200 | 37 | 482. | * | 3 APR 1300 | 62 | 57. | * | 4 APR 1400 | 87  | 0. |
| 1 APR 1200   | 13 | 2684. | * | 2 APR 1300 | 38 | 445. | * | 3 APR 1400 | 63 | 54. | * | 4 APR 1500 | 88  | 0. |
| 1 APR 1300   | 14 | 3170. | * | 2 APR 1400 | 39 | 413. | * | 3 APR 1500 | 64 | 51. | * | 4 APR 1600 | 89  | 0. |
| 1 APR 1400   | 15 | 3656. | * | 2 APR 1500 | 40 | 384. | * | 3 APR 1600 | 65 | 48. | * | 4 APR 1700 | 90  | 0. |
| 1 APR 1500   | 16 | 4196. | * | 2 APR 1600 | 41 | 356. | * | 3 APR 1700 | 66 | 44. | * | 4 APR 1800 | 91  | 0. |
| 1 APR 1600   | 17 | 4755. | * | 2 APR 1700 | 42 | 330. | * | 3 APR 1800 | 67 | 40. | * | 4 APR 1900 | 92  | 0. |
| 1 APR 1700   | 18 | 5016. | * | 2 APR 1800 | 43 | 307. | * | 3 APR 1900 | 68 | 36. | * | 4 APR 2000 | 93  | 0. |
| 1 APR 1800   | 19 | 4935. | * | 2 APR 1900 | 44 | 283. | * | 3 APR 2000 | 69 | 32. | * | 4 APR 2100 | 94  | 0. |
| 1 APR 1900   | 20 | 4445. | * | 2 APR 2000 | 45 | 260. | * | 3 APR 2100 | 70 | 27. | * | 4 APR 2200 | 95  | 0. |
| 1 APR 2000   | 21 | 3734. | * | 2 APR 2100 | 46 | 238. | * | 3 APR 2200 | 71 | 21. | * | 4 APR 2300 | 96  | 0. |
| 1 APR 2100   | 22 | 3029. | * | 2 APR 2200 | 47 | 218. | * | 3 APR 2300 | 72 | 15. | * | 5 APR 0000 | 97  | 0. |
| 1 APR 2200   | 23 | 2526. | * | 2 APR 2300 | 48 | 201. | * | 4 APR 0000 | 73 | 10. | * | 5 APR 0100 | 98  | 0. |
| 1 APR 2300   | 24 | 2191. | * | 3 APR 0000 | 49 | 186. | * | 4 APR 0100 | 74 | 6.  | * | 5 APR 0200 | 99  | 0. |
| 2 APR 0000   | 25 | 1947. | * | 3 APR 0100 | 50 | 171. | * | 4 APR 0200 | 75 | 4.  | * | 5 APR 0300 | 100 | 0. |

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| PEAK FLOW | TIME  |          | MAXIMUM | AVERAGE FLOW |       |
|-----------|-------|----------|---------|--------------|-------|
| +         | (CFS) | (HR)     | 6-HR    | 24-HR        | 72-HR |
| +         | 5016. | 17.00    |         |              |       |
|           |       | (CFS)    |         |              |       |
|           |       | (INCHES) |         |              |       |
|           |       | (AC-FT)  |         |              |       |

CUMULATIVE AREA = 308.50 SQ MI

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

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

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

## SUBBASIN RUNOFF DATA

157 BA SUBBASIN CHARACTERISTICS  
TAREA 43.98 SUBBASIN AREA

## PRECIPITATION DATA

158 PB STORM .24 BASIN TOTAL PRECIPITATION

160 PI INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .01 | .01 | .02 | .02 | .03 | .03 | .04 | .04 | .06 | .08 |
| .07 | .07 | .10 | .12 | .10 | .09 | .02 | .02 | .01 | .01 |
| .01 | .01 | .01 | .01 | .00 | .00 |     |     |     |     |

165 LU UNIFORM LOSS RATE

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

165 UI INPUT UNITGRAPH, 18 ORDINATES, VOLUME = 1.00

|         |        |        |        |        |       |       |       |       |       |
|---------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 10816.0 | 6517.0 | 3012.0 | 1883.0 | 1344.0 | 952.0 | 775.0 | 668.0 | 560.0 | 444.0 |
| 370.0   | 299.0  | 210.0  | 109.0  | 109.0  | 109.0 | 109.0 | 81.0  |       |       |

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## HYDROGRAPH AT STATION 9

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 25.    | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 48.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 71.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .00  | .00  | .00    | 93.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 121.   | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 143.   | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 177.   | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 217.   | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 282.   | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 367.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 397.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 422.   | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .02  | .00  | .02    | 508.   | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 605.   | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .02  | .00  | .02    | 621.   | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .02  | .00  | .02    | 596.   | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .01  | .00  | .01    | 422.   | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |      | SJR_5-yr.out |            |     |     |     |     |    |
|------------|----|-----|-----|-----|------|--------------|------------|-----|-----|-----|-----|----|
| 1 APR 1800 | 19 | .00 | .00 | .00 | 306. | *            | 3 APR 2000 | 69  | .00 | .00 | .00 | 0. |
| 1 APR 1900 | 20 | .00 | .00 | .00 | 242. | *            | 3 APR 2100 | 70  | .00 | .00 | .00 | 0. |
| 1 APR 2000 | 21 | .00 | .00 | .00 | 200. | *            | 3 APR 2200 | 71  | .00 | .00 | .00 | 0. |
| 1 APR 2100 | 22 | .00 | .00 | .00 | 170. | *            | 3 APR 2300 | 72  | .00 | .00 | .00 | 0. |
| 1 APR 2200 | 23 | .00 | .00 | .00 | 148. | *            | 4 APR 0000 | 73  | .00 | .00 | .00 | 0. |
| 1 APR 2300 | 24 | .00 | .00 | .00 | 130. | *            | 4 APR 0100 | 74  | .00 | .00 | .00 | 0. |
| 2 APR 0000 | 25 | .00 | .00 | .00 | 112. | *            | 4 APR 0200 | 75  | .00 | .00 | .00 | 0. |
| 2 APR 0100 | 26 | .00 | .00 | .00 | 82.  | *            | 4 APR 0300 | 76  | .00 | .00 | .00 | 0. |
| 2 APR 0200 | 27 | .00 | .00 | .00 | 58.  | *            | 4 APR 0400 | 77  | .00 | .00 | .00 | 0. |
| 2 APR 0300 | 28 | .00 | .00 | .00 | 42.  | *            | 4 APR 0500 | 78  | .00 | .00 | .00 | 0. |
| 2 APR 0400 | 29 | .00 | .00 | .00 | 31.  | *            | 4 APR 0600 | 79  | .00 | .00 | .00 | 0. |
| 2 APR 0500 | 30 | .00 | .00 | .00 | 24.  | *            | 4 APR 0700 | 80  | .00 | .00 | .00 | 0. |
| 2 APR 0600 | 31 | .00 | .00 | .00 | 19.  | *            | 4 APR 0800 | 81  | .00 | .00 | .00 | 0. |
| 2 APR 0700 | 32 | .00 | .00 | .00 | 15.  | *            | 4 APR 0900 | 82  | .00 | .00 | .00 | 0. |
| 2 APR 0800 | 33 | .00 | .00 | .00 | 10.  | *            | 4 APR 1000 | 83  | .00 | .00 | .00 | 0. |
| 2 APR 0900 | 34 | .00 | .00 | .00 | 7.   | *            | 4 APR 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 4.   | *            | 4 APR 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 3.   | *            | 4 APR 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 2.   | *            | 4 APR 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 1.   | *            | 4 APR 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 1.   | *            | 4 APR 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 1.   | *            | 4 APR 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0.   | *            | 4 APR 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0.   | *            | 4 APR 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0.   | *            | 4 APR 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0.   | *            | 4 APR 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0.   | *            | 4 APR 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0.   | *            | 4 APR 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0.   | *            | 5 APR 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0.   | *            | 5 APR 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0.   | *            | 5 APR 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0.   | *            | 5 APR 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .24, TOTAL LOSS = .00, TOTAL EXCESS = .24

| PEAK FLOW | TIME  |          | MAXIMUM AVERAGE FLOW |       |       |          |
|-----------|-------|----------|----------------------|-------|-------|----------|
| +         | (CFS) | (HR)     | 6-HR                 | 24-HR | 72-HR | 99.00-HR |
| +         | 621.  | 15.00    | (CFS)                |       |       |          |
|           |       |          | 527.                 | 270.  | 93.   | 68.      |
|           |       | (INCHES) | .111                 | .229  | .237  | .237     |
|           |       | (AC-FT)  | 261.                 | 536.  | 556.  | 556.     |

CUMULATIVE AREA = 43.98 SQ MI

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169 KK \*\*\*\*\*  
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 \* E \*  
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BRIDGE STREET

171 HC HYDROGRAPH COMBINATION  
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION E  
 SUM OF 2 HYDROGRAPHS

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| DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
|----|-----|------|-----|-------|---|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| 1  | APR | 0000 | 1   | 0.    | * | 2  | APR | 0100 | 26  | 1824. | * | 3  | APR | 0200 | 51  | 156. | * | 4  | APR | 0300 | 76  | 3.   | * |
| 1  | APR | 0100 | 2   | 41.   | * | 2  | APR | 0200 | 27  | 1609. | * | 3  | APR | 0300 | 52  | 143. | * | 4  | APR | 0400 | 77  | 3.   | * |
| 1  | APR | 0200 | 3   | 111.  | * | 2  | APR | 0300 | 28  | 1400. | * | 3  | APR | 0400 | 53  | 131. | * | 4  | APR | 0500 | 78  | 2.   | * |
| 1  | APR | 0300 | 4   | 233.  | * | 2  | APR | 0400 | 29  | 1202. | * | 3  | APR | 0500 | 54  | 119. | * | 4  | APR | 0600 | 79  | 1.   | * |
| 1  | APR | 0400 | 5   | 403.  | * | 2  | APR | 0500 | 30  | 1026. | * | 3  | APR | 0600 | 55  | 106. | * | 4  | APR | 0700 | 80  | 1.   | * |
| 1  | APR | 0500 | 6   | 620.  | * | 2  | APR | 0600 | 31  | 890.  | * | 3  | APR | 0700 | 56  | 93.  | * | 4  | APR | 0800 | 81  | 0.   | * |
| 1  | APR | 0600 | 7   | 836.  | * | 2  | APR | 0700 | 32  | 785.  | * | 3  | APR | 0800 | 57  | 82.  | * | 4  | APR | 0900 | 82  | 0.   | * |
| 1  | APR | 0700 | 8   | 1076. | * | 2  | APR | 0800 | 33  | 699.  | * | 3  | APR | 0900 | 58  | 73.  | * | 4  | APR | 1000 | 83  | 0.   | * |
| 1  | APR | 0800 | 9   | 1345. | * | 2  | APR | 0900 | 34  | 631.  | * | 3  | APR | 1000 | 59  | 68.  | * | 4  | APR | 1100 | 84  | 0.   | * |
| 1  | APR | 0900 | 10  | 1692. | * | 2  | APR | 1000 | 35  | 574.  | * | 3  | APR | 1100 | 60  | 63.  | * | 4  | APR | 1200 | 85  | 0.   | * |
| 1  | APR | 1000 | 11  | 2137. | * | 2  | APR | 1100 | 36  | 526.  | * | 3  | APR | 1200 | 61  | 60.  | * | 4  | APR | 1300 | 86  | 0.   | * |
| 1  | APR | 1100 | 12  | 2599. | * | 2  | APR | 1200 | 37  | 484.  | * | 3  | APR | 1300 | 62  | 57.  | * | 4  | APR | 1400 | 87  | 0.   | * |
| 1  | APR | 1200 | 13  | 3107. | * | 2  | APR | 1300 | 38  | 447.  | * | 3  | APR | 1400 | 63  | 54.  | * | 4  | APR | 1500 | 88  | 0.   | * |
| 1  | APR | 1300 | 14  | 3678. | * | 2  | APR | 1400 | 39  | 414.  | * | 3  | APR | 1500 | 64  | 51.  | * | 4  | APR | 1600 | 89  | 0.   | * |
| 1  | APR | 1400 | 15  | 4261. | * | 2  | APR | 1500 | 40  | 384.  | * | 3  | APR | 1600 | 65  | 48.  | * | 4  | APR | 1700 | 90  | 0.   | * |
| 1  | APR | 1500 | 16  | 4817. | * | 2  | APR | 1600 | 41  | 356.  | * | 3  | APR | 1700 | 66  | 44.  | * | 4  | APR | 1800 | 91  | 0.   | * |
| 1  | APR | 1600 | 17  | 5351. | * | 2  | APR | 1700 | 42  | 331.  | * | 3  | APR | 1800 | 67  | 40.  | * | 4  | APR | 1900 | 92  | 0.   | * |
| 1  | APR | 1700 | 18  | 5438. | * | 2  | APR | 1800 | 43  | 307.  | * | 3  | APR | 1900 | 68  | 36.  | * | 4  | APR | 2000 | 93  | 0.   | * |
| 1  | APR | 1800 | 19  | 5241. | * | 2  | APR | 1900 | 44  | 283.  | * | 3  | APR | 2000 | 69  | 32.  | * | 4  | APR | 2100 | 94  | 0.   | * |
| 1  | APR | 1900 | 20  | 4687. | * | 2  | APR | 2000 | 45  | 260.  | * | 3  | APR | 2100 | 70  | 27.  | * | 4  | APR | 2200 | 95  | 0.   | * |
| 1  | APR | 2000 | 21  | 3934. | * | 2  | APR | 2100 | 46  | 238.  | * | 3  | APR | 2200 | 71  | 21.  | * | 4  | APR | 2300 | 96  | 0.   | * |
| 1  | APR | 2100 | 22  | 3200. | * | 2  | APR | 2200 | 47  | 218.  | * | 3  | APR | 2300 | 72  | 15.  | * | 5  | APR | 0000 | 97  | 0.   | * |
| 1  | APR | 2200 | 23  | 2674. | * | 2  | APR | 2300 | 48  | 201.  | * | 4  | APR | 0000 | 73  | 10.  | * | 5  | APR | 0100 | 98  | 0.   | * |
| 1  | APR | 2300 | 24  | 2321. | * | 3  | APR | 0000 | 49  | 186.  | * | 4  | APR | 0100 | 74  | 6.   | * | 5  | APR | 0200 | 99  | 0.   | * |
| 2  | APR | 0000 | 25  | 2060. | * | 3  | APR | 0100 | 50  | 171.  | * | 4  | APR | 0200 | 75  | 4.   | * | 5  | APR | 0300 | 100 | 0.   | * |

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 6-HR 24-HR 72-HR 99.00-HR

|   |       |       |          |       |       |       |       |
|---|-------|-------|----------|-------|-------|-------|-------|
| + | (CFS) | (HR)  |          |       |       |       |       |
|   |       |       | (CFS)    |       |       |       |       |
| + | 5438. | 17.00 |          | 4939. | 2814. | 1095. | 797.  |
|   |       |       | (INCHES) | .130  | .297  | .347  | .347  |
|   |       |       | (AC-FT)  | 2449. | 5582. | 6515. | 6517. |

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-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-E/E/FLOW/01MAR1992/1HOUR//
-----DSS---ZWRITE Unit 71; Vers. 1: /S.J.RIVER CP-E/E/FLOW/01APR1992/1HOUR//
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*****
*                                     *
173 KK      E-F                      ROUTE
*                                     *
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| 179 RS | STORAGE ROUTING | 3 NSTPS | NUMBER OF SUBREACHES        |         |         |         |         |         |         |         |         |
|--------|-----------------|---------|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|        | ITYP            | STOR    | TYPE OF INITIAL CONDITION   |         |         |         |         |         |         |         |         |
|        | RSVRIC          | -1.00   | INITIAL CONDITION           |         |         |         |         |         |         |         |         |
|        | X               | .00     | WORKING R AND D COEFFICIENT |         |         |         |         |         |         |         |         |
| 180 SV | STORAGE         | .0      | 5422.0                      | 6214.0  | 7192.0  | 8523.0  | 9595.0  | 10477.0 | 11979.0 | 15904.0 | 18679.0 |
|        |                 | 20011.0 | 21382.0                     | 22528.0 | 23644.0 | 27656.0 | 31546.0 |         |         |         |         |
| 182 SQ | DISCHARGE       | 0.      | 500.                        | 1000.   | 2000.   | 4000.   | 6000.   | 8000.   | 10000.  | 15000.  | 20000.  |
|        |                 | 25000.  | 30000.                      | 35000.  | 40000.  | 60000.  | 80000.  |         |         |         |         |

|       |     |      |     |         |         |   |    |     |      |     |         |         |   |    |     |      |     |         |         |
|-------|-----|------|-----|---------|---------|---|----|-----|------|-----|---------|---------|---|----|-----|------|-----|---------|---------|
| ***** |     |      |     |         |         |   |    |     |      |     |         |         |   |    |     |      |     |         |         |
|       |     |      |     |         | *       |   |    |     |      |     | *       |         |   |    |     |      |     |         |         |
| DA    | MON | HRMN | ORD | OUTFLOW | STORAGE | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE |
|       |     |      |     |         | *       |   |    |     |      |     |         |         | * |    |     |      |     |         |         |
| 1     | APR | 0000 | 1   | 0.      | .00     | * | 2  | APR | 1000 | 35  | 406.    | 1467.15 | * | 3  | APR | 2000 | 69  | 499.    | 1805.07 |

SJR\_5-yr.out

|            |    |      |         |   |            |    |      |         |   |            |     |      |         |
|------------|----|------|---------|---|------------|----|------|---------|---|------------|-----|------|---------|
| 1 APR 0100 | 2  | 0.   | .00     | * | 2 APR 1100 | 36 | 428. | 1546.13 | * | 3 APR 2100 | 70  | 499. | 1802.40 |
| 1 APR 0200 | 3  | 0.   | .00     | * | 2 APR 1200 | 37 | 447. | 1615.22 | * | 3 APR 2200 | 71  | 498. | 1799.53 |
| 1 APR 0300 | 4  | 0.   | .01     | * | 2 APR 1300 | 38 | 463. | 1675.34 | * | 3 APR 2300 | 72  | 497. | 1796.46 |
| 1 APR 0400 | 5  | 0.   | .03     | * | 2 APR 1400 | 39 | 478. | 1727.28 | * | 4 APR 0000 | 73  | 496. | 1793.17 |
| 1 APR 0500 | 6  | 0.   | .07     | * | 2 APR 1500 | 40 | 490. | 1771.96 | * | 4 APR 0100 | 74  | 495. | 1789.67 |
| 1 APR 0600 | 7  | 0.   | .16     | * | 2 APR 1600 | 41 | 506. | 1810.75 | * | 4 APR 0200 | 75  | 494. | 1785.96 |
| 1 APR 0700 | 8  | 0.   | .32     | * | 2 APR 1700 | 42 | 567. | 1842.63 | * | 4 APR 0300 | 76  | 493. | 1782.04 |
| 1 APR 0800 | 9  | 0.   | .59     | * | 2 APR 1800 | 43 | 612. | 1866.42 | * | 4 APR 0400 | 77  | 492. | 1777.91 |
| 1 APR 0900 | 10 | 0.   | 1.01    | * | 2 APR 1900 | 44 | 644. | 1883.32 | * | 4 APR 0500 | 78  | 491. | 1773.56 |
| 1 APR 1000 | 11 | 0.   | 1.64    | * | 2 APR 2000 | 45 | 665. | 1894.41 | * | 4 APR 0600 | 79  | 489. | 1769.00 |
| 1 APR 1100 | 12 | 1.   | 2.53    | * | 2 APR 2100 | 46 | 677. | 1900.73 | * | 4 APR 0700 | 80  | 488. | 1764.23 |
| 1 APR 1200 | 13 | 1.   | 3.78    | * | 2 APR 2200 | 47 | 682. | 1903.30 | * | 4 APR 0800 | 81  | 487. | 1759.24 |
| 1 APR 1300 | 14 | 2.   | 5.47    | * | 2 APR 2300 | 48 | 681. | 1903.01 | * | 4 APR 0900 | 82  | 485. | 1754.05 |
| 1 APR 1400 | 15 | 2.   | 7.72    | * | 3 APR 0000 | 49 | 677. | 1900.57 | * | 4 APR 1000 | 83  | 484. | 1748.65 |
| 1 APR 1500 | 16 | 3.   | 10.68   | * | 3 APR 0100 | 50 | 669. | 1896.53 | * | 4 APR 1100 | 84  | 482. | 1743.04 |
| 1 APR 1600 | 17 | 4.   | 14.90   | * | 3 APR 0200 | 51 | 659. | 1891.34 | * | 4 APR 1200 | 85  | 481. | 1737.23 |
| 1 APR 1700 | 18 | 6.   | 21.58   | * | 3 APR 0300 | 52 | 648. | 1885.33 | * | 4 APR 1300 | 86  | 479. | 1731.22 |
| 1 APR 1800 | 19 | 9.   | 32.34   | * | 3 APR 0400 | 53 | 635. | 1878.79 | * | 4 APR 1400 | 87  | 477. | 1725.00 |
| 1 APR 1900 | 20 | 13.  | 48.56   | * | 3 APR 0500 | 54 | 622. | 1871.90 | * | 4 APR 1500 | 88  | 475. | 1718.59 |
| 1 APR 2000 | 21 | 20.  | 70.96   | * | 3 APR 0600 | 55 | 609. | 1864.83 | * | 4 APR 1600 | 89  | 474. | 1711.98 |
| 1 APR 2100 | 22 | 28.  | 99.55   | * | 3 APR 0700 | 56 | 595. | 1857.70 | * | 4 APR 1700 | 90  | 472. | 1705.19 |
| 1 APR 2200 | 23 | 37.  | 133.86  | * | 3 APR 0800 | 57 | 582. | 1850.70 | * | 4 APR 1800 | 91  | 470. | 1698.20 |
| 1 APR 2300 | 24 | 51.  | 184.35  | * | 3 APR 0900 | 58 | 570. | 1844.29 | * | 4 APR 1900 | 92  | 468. | 1691.03 |
| 2 APR 0000 | 25 | 73.  | 264.29  | * | 3 APR 1000 | 59 | 559. | 1838.65 | * | 4 APR 2000 | 93  | 466. | 1683.68 |
| 2 APR 0100 | 26 | 103. | 373.07  | * | 3 APR 1100 | 60 | 550. | 1833.66 | * | 4 APR 2100 | 94  | 464. | 1676.16 |
| 2 APR 0200 | 27 | 139. | 501.52  | * | 3 APR 1200 | 61 | 541. | 1829.22 | * | 4 APR 2200 | 95  | 462. | 1668.46 |
| 2 APR 0300 | 28 | 177. | 639.09  | * | 3 APR 1300 | 62 | 534. | 1825.25 | * | 4 APR 2300 | 96  | 459. | 1660.59 |
| 2 APR 0400 | 29 | 215. | 778.33  | * | 3 APR 1400 | 63 | 527. | 1821.66 | * | 5 APR 0000 | 97  | 457. | 1652.55 |
| 2 APR 0500 | 30 | 253. | 914.42  | * | 3 APR 1500 | 64 | 521. | 1818.39 | * | 5 APR 0100 | 98  | 455. | 1644.35 |
| 2 APR 0600 | 31 | 289. | 1044.20 | * | 3 APR 1600 | 65 | 515. | 1815.38 | * | 5 APR 0200 | 99  | 453. | 1636.00 |
| 2 APR 0700 | 32 | 322. | 1165.49 | * | 3 APR 1700 | 66 | 510. | 1812.60 | * | 5 APR 0300 | 100 | 450. | 1627.49 |
| 2 APR 0800 | 33 | 353. | 1276.84 | * | 3 APR 1800 | 67 | 505. | 1810.00 | * |            |     |      |         |
| 2 APR 0900 | 34 | 381. | 1377.49 | * | 3 APR 1900 | 68 | 500. | 1807.54 | * |            |     |      |         |

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| PEAK FLOW | TIME  |          | MAXIMUM | AVERAGE FLOW |                |
|-----------|-------|----------|---------|--------------|----------------|
| +         | (CFS) | (HR)     | 6-HR    | 24-HR        | 72-HR 99.00-HR |
| +         | 682.  | 46.00    | (CFS)   |              |                |
|           |       |          | 675.    | 606.         | 504. 372.      |
|           |       | (INCHES) | .018    | .064         | .160 .162      |
|           |       | (AC-FT)  | 334.    | 1201.        | 2999. 3047.    |

| PEAK STORAGE | TIME    |       | MAXIMUM | AVERAGE STORAGE |                |
|--------------|---------|-------|---------|-----------------|----------------|
| +            | (AC-FT) | (HR)  | 6-HR    | 24-HR           | 72-HR 99.00-HR |
| +            | 1903.   | 46.00 |         |                 |                |
|              |         |       | 1900.   | 1863.           | 1712. 1266.    |

CUMULATIVE AREA = 352.48 SQ MI

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

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

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 \* \*  
 185 KK \* 10 \* SUBAREA 10  
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JACK RABBIT

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

SUBBASIN RUNOFF DATA

187 BA SUBBASIN CHARACTERISTICS  
 TAREA 17.90 SUBBASIN AREA

PRECIPITATION DATA

188 PB STORM .26 BASIN TOTAL PRECIPITATION

190 PI INCREMENTAL PRECIPITATION PATTERN  

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .01 | .01 | .02 | .02 | .02 | .03 | .03 | .04 | .06 | .07 |
| .07 | .08 | .09 | .12 | .10 | .10 | .04 | .02 | .02 | .01 |
| .01 | .01 | .01 | .01 | .00 | .00 |     |     |     |     |

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

200 UI INPUT UNITGRAPH, 16 ORDINATES, VOLUME = 1.00  

|        |        |        |       |       |       |       |       |       |       |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 5106.0 | 2427.0 | 1164.0 | 741.0 | 490.0 | 371.0 | 315.0 | 253.0 | 196.0 | 148.0 |
| 118.0  | 52.0   | 52.0   | 52.0  | 52.0  | 10.0  |       |       |       |       |

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HYDROGRAPH AT STATION 10

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|----|-----|------|-----|------|------|--------|--------|
|    |     |      |     |      |      |        |        |    |     |      |     |      |      |        |        |

SJR\_5-yr.out

|            |    |     |     |     |      |   |            |     |     |     |     |     |    |
|------------|----|-----|-----|-----|------|---|------------|-----|-----|-----|-----|-----|----|
| *          |    |     |     |     |      |   |            |     |     |     |     |     |    |
| 1 APR 0000 | 1  | .00 | .00 | .00 | 0.   | * | 3 APR 0200 | 51  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 0100 | 2  | .00 | .00 | .00 | 8.   | * | 3 APR 0300 | 52  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 0200 | 3  | .00 | .00 | .00 | 21.  | * | 3 APR 0400 | 53  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 0300 | 4  | .00 | .00 | .00 | 31.  | * | 3 APR 0500 | 54  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 0400 | 5  | .01 | .00 | .01 | 42.  | * | 3 APR 0600 | 55  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 0500 | 6  | .01 | .00 | .01 | 54.  | * | 3 APR 0700 | 56  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 0600 | 7  | .01 | .00 | .01 | 65.  | * | 3 APR 0800 | 57  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 0700 | 8  | .01 | .00 | .01 | 80.  | * | 3 APR 0900 | 58  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 0800 | 9  | .01 | .00 | .01 | 97.  | * | 3 APR 1000 | 59  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 0900 | 10 | .01 | .00 | .01 | 126. | * | 3 APR 1100 | 60  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 1000 | 11 | .02 | .00 | .02 | 163. | * | 3 APR 1200 | 61  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 1100 | 12 | .02 | .00 | .02 | 181. | * | 3 APR 1300 | 62  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 1200 | 13 | .02 | .00 | .02 | 197. | * | 3 APR 1400 | 63  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 1300 | 14 | .02 | .00 | .02 | 224. | * | 3 APR 1500 | 64  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 1400 | 15 | .03 | .00 | .03 | 284. | * | 3 APR 1600 | 65  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 1500 | 16 | .03 | .00 | .03 | 283. | * | 3 APR 1700 | 66  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 1600 | 17 | .03 | .00 | .03 | 279. | * | 3 APR 1800 | 67  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 1700 | 18 | .01 | .00 | .01 | 206. | * | 3 APR 1900 | 68  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 1800 | 19 | .00 | .00 | .00 | 141. | * | 3 APR 2000 | 69  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 1900 | 20 | .00 | .00 | .00 | 111. | * | 3 APR 2100 | 70  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 2000 | 21 | .00 | .00 | .00 | 89.  | * | 3 APR 2200 | 71  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 2100 | 22 | .00 | .00 | .00 | 74.  | * | 3 APR 2300 | 72  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 2200 | 23 | .00 | .00 | .00 | 63.  | * | 4 APR 0000 | 73  | .00 | .00 | .00 | .00 | 0. |
| 1 APR 2300 | 24 | .00 | .00 | .00 | 55.  | * | 4 APR 0100 | 74  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 0000 | 25 | .00 | .00 | .00 | 46.  | * | 4 APR 0200 | 75  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 0100 | 26 | .00 | .00 | .00 | 33.  | * | 4 APR 0300 | 76  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 0200 | 27 | .00 | .00 | .00 | 22.  | * | 4 APR 0400 | 77  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 0300 | 28 | .00 | .00 | .00 | 15.  | * | 4 APR 0500 | 78  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 0400 | 29 | .00 | .00 | .00 | 11.  | * | 4 APR 0600 | 79  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 0500 | 30 | .00 | .00 | .00 | 8.   | * | 4 APR 0700 | 80  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 0600 | 31 | .00 | .00 | .00 | 6.   | * | 4 APR 0800 | 81  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 0700 | 32 | .00 | .00 | .00 | 3.   | * | 4 APR 0900 | 82  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 0800 | 33 | .00 | .00 | .00 | 2.   | * | 4 APR 1000 | 83  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 0900 | 34 | .00 | .00 | .00 | 1.   | * | 4 APR 1100 | 84  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 1.   | * | 4 APR 1200 | 85  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 1.   | * | 4 APR 1300 | 86  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 0.   | * | 4 APR 1400 | 87  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 0.   | * | 4 APR 1500 | 88  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0.   | * | 4 APR 1600 | 89  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0.   | * | 4 APR 1700 | 90  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0.   | * | 4 APR 1800 | 91  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0.   | * | 4 APR 1900 | 92  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0.   | * | 4 APR 2000 | 93  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0.   | * | 4 APR 2100 | 94  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0.   | * | 4 APR 2200 | 95  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0.   | * | 4 APR 2300 | 96  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0.   | * | 5 APR 0000 | 97  | .00 | .00 | .00 | .00 | 0. |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0.   | * | 5 APR 0100 | 98  | .00 | .00 | .00 | .00 | 0. |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0.   | * | 5 APR 0200 | 99  | .00 | .00 | .00 | .00 | 0. |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0.   | * | 5 APR 0300 | 100 | .00 | .00 | .00 | .00 | 0. |
| *          |    |     |     |     |      |   |            |     |     |     |     |     |    |

# SJR\_5-yr.out

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TOTAL RAINFALL = .26, TOTAL LOSS = .00, TOTAL EXCESS = .26

| PEAK FLOW | TIME  |          | 6-HR | MAXIMUM AVERAGE FLOW<br>24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------------------------------|-------|----------|
| +         | (CFS) | (HR)     |      |                               |       |          |
|           |       | (CFS)    |      |                               |       |          |
| +         | 284.  | 14.00    | 243. | 123.                          | 42.   | 31.      |
|           |       | (INCHES) | .126 | .255                          | .262  | .262     |
|           |       | (AC-FT)  | 121. | 244.                          | 250.  | 250.     |

CUMULATIVE AREA = 17.90 SQ MI

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204 KK \* 11 \* SUBAREA 11  
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BADLANDS

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

SUBBASIN RUNOFF DATA

206 BA SUBBASIN CHARACTERISTICS  
TAREA 18.10 SUBBASIN AREA

PRECIPITATION DATA

207 PB STORM .27 BASIN TOTAL PRECIPITATION

209 PI INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .01 | .02 | .02 | .02 | .03 | .03 | .04 | .05 | .07 |
| .07 | .08 | .09 | .12 | .10 | .10 | .05 | .02 | .02 | .01 |
| .01 | .01 | .01 | .01 | .00 | .00 |     |     |     |     |

219 LU UNIFORM LOSS RATE

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

219 UI                    INPUT UNITGRAPH, 15 ORDINATES, VOLUME = 1.00                    SJR\_5-yr.out  
                          5318.0    2417.0    1164.0    735.0    482.0    381.0    309.0    246.0    192.0    149.0  
                          85.6        54.3        54.3        54.3        34.1

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# HYDROGRAPH AT STATION                    11

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | * | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 7.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 22.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 31.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 43.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 55.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 66.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 81.    | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 99.    | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 128.   | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 166.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 186.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 205.   | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .02  | .00  | .02    | 227.   | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 294.   | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 290.   | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .03  | .00  | .03    | 290.   | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .01  | .00  | .01    | 219.   | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .00  | .00  | .00    | 146.   | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 115.   | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 91.    | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 76.    | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 64.    | * | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 56.    | * | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0000 | 25  | .00  | .00  | .00    | 46.    | * | 4  | APR | 0200 | 75  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0100 | 26  | .00  | .00  | .00    | 34.    | * | 4  | APR | 0300 | 76  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0200 | 27  | .00  | .00  | .00    | 22.    | * | 4  | APR | 0400 | 77  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0300 | 28  | .00  | .00  | .00    | 15.    | * | 4  | APR | 0500 | 78  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0400 | 29  | .00  | .00  | .00    | 11.    | * | 4  | APR | 0600 | 79  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0500 | 30  | .00  | .00  | .00    | 7.     | * | 4  | APR | 0700 | 80  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0600 | 31  | .00  | .00  | .00    | 5.     | * | 4  | APR | 0800 | 81  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0700 | 32  | .00  | .00  | .00    | 3.     | * | 4  | APR | 0900 | 82  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0800 | 33  | .00  | .00  | .00    | 2.     | * | 4  | APR | 1000 | 83  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0900 | 34  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1100 | 84  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1000 | 35  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1200 | 85  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1100 | 36  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1300 | 86  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1200 | 37  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1400 | 87  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1300 | 38  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1500 | 88  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |    |   | SJR_5-yr.out |     |     |     |     |    |  |
|------------|----|-----|-----|-----|----|---|--------------|-----|-----|-----|-----|----|--|
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0. | * | 4 APR 1600   | 89  | .00 | .00 | .00 | 0. |  |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0. | * | 4 APR 1700   | 90  | .00 | .00 | .00 | 0. |  |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0. | * | 4 APR 1800   | 91  | .00 | .00 | .00 | 0. |  |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0. | * | 4 APR 1900   | 92  | .00 | .00 | .00 | 0. |  |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0. | * | 4 APR 2000   | 93  | .00 | .00 | .00 | 0. |  |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0. | * | 4 APR 2100   | 94  | .00 | .00 | .00 | 0. |  |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0. | * | 4 APR 2200   | 95  | .00 | .00 | .00 | 0. |  |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0. | * | 4 APR 2300   | 96  | .00 | .00 | .00 | 0. |  |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0. | * | 5 APR 0000   | 97  | .00 | .00 | .00 | 0. |  |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0. | * | 5 APR 0100   | 98  | .00 | .00 | .00 | 0. |  |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0. | * | 5 APR 0200   | 99  | .00 | .00 | .00 | 0. |  |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0. | * | 5 APR 0300   | 100 | .00 | .00 | .00 | 0. |  |

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TOTAL RAINFALL = .27, TOTAL LOSS = .00, TOTAL EXCESS = .27

| PEAK FLOW | TIME  |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------|-------|----------|
| +         | (CFS) | (HR)     |      |       |       |          |
|           |       | (CFS)    |      |       |       |          |
| +         | 294.  | 14.00    | 251. | 126.  | 43.   | 31.      |
|           |       | (INCHES) | .129 | .259  | .266  | .266     |
|           |       | (AC-FT)  | 125. | 250.  | 257.  | 257.     |

CUMULATIVE AREA = 18.10 SQ MI

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 223 KK \* F \*  
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SPLIT

225 HC HYDROGRAPH COMBINATION  
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION F  
 SUM OF 3 HYDROGRAPHS

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 \* \* \*

|    |     |      |     |      |   |    |     |      |     |      | SJR_5-yr.out |    |     |      |     |      |   |    |     |      |     |      |   |
|----|-----|------|-----|------|---|----|-----|------|-----|------|--------------|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | *            | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 171. | *            | 3  | APR | 0200 | 51  | 659. | * | 4  | APR | 0300 | 76  | 493. | * |
| 1  | APR | 0100 | 2   | 15.  | * | 2  | APR | 0200 | 27  | 182. | *            | 3  | APR | 0300 | 52  | 648. | * | 4  | APR | 0400 | 77  | 492. | * |
| 1  | APR | 0200 | 3   | 43.  | * | 2  | APR | 0300 | 28  | 207. | *            | 3  | APR | 0400 | 53  | 635. | * | 4  | APR | 0500 | 78  | 491. | * |
| 1  | APR | 0300 | 4   | 62.  | * | 2  | APR | 0400 | 29  | 237. | *            | 3  | APR | 0500 | 54  | 622. | * | 4  | APR | 0600 | 79  | 489. | * |
| 1  | APR | 0400 | 5   | 85.  | * | 2  | APR | 0500 | 30  | 268. | *            | 3  | APR | 0600 | 55  | 609. | * | 4  | APR | 0700 | 80  | 488. | * |
| 1  | APR | 0500 | 6   | 108. | * | 2  | APR | 0600 | 31  | 299. | *            | 3  | APR | 0700 | 56  | 595. | * | 4  | APR | 0800 | 81  | 487. | * |
| 1  | APR | 0600 | 7   | 131. | * | 2  | APR | 0700 | 32  | 329. | *            | 3  | APR | 0800 | 57  | 582. | * | 4  | APR | 0900 | 82  | 485. | * |
| 1  | APR | 0700 | 8   | 161. | * | 2  | APR | 0800 | 33  | 357. | *            | 3  | APR | 0900 | 58  | 570. | * | 4  | APR | 1000 | 83  | 484. | * |
| 1  | APR | 0800 | 9   | 196. | * | 2  | APR | 0900 | 34  | 384. | *            | 3  | APR | 1000 | 59  | 559. | * | 4  | APR | 1100 | 84  | 482. | * |
| 1  | APR | 0900 | 10  | 253. | * | 2  | APR | 1000 | 35  | 408. | *            | 3  | APR | 1100 | 60  | 550. | * | 4  | APR | 1200 | 85  | 481. | * |
| 1  | APR | 1000 | 11  | 330. | * | 2  | APR | 1100 | 36  | 429. | *            | 3  | APR | 1200 | 61  | 541. | * | 4  | APR | 1300 | 86  | 479. | * |
| 1  | APR | 1100 | 12  | 369. | * | 2  | APR | 1200 | 37  | 448. | *            | 3  | APR | 1300 | 62  | 534. | * | 4  | APR | 1400 | 87  | 477. | * |
| 1  | APR | 1200 | 13  | 403. | * | 2  | APR | 1300 | 38  | 464. | *            | 3  | APR | 1400 | 63  | 527. | * | 4  | APR | 1500 | 88  | 475. | * |
| 1  | APR | 1300 | 14  | 453. | * | 2  | APR | 1400 | 39  | 478. | *            | 3  | APR | 1500 | 64  | 521. | * | 4  | APR | 1600 | 89  | 474. | * |
| 1  | APR | 1400 | 15  | 580. | * | 2  | APR | 1500 | 40  | 490. | *            | 3  | APR | 1600 | 65  | 515. | * | 4  | APR | 1700 | 90  | 472. | * |
| 1  | APR | 1500 | 16  | 576. | * | 2  | APR | 1600 | 41  | 506. | *            | 3  | APR | 1700 | 66  | 510. | * | 4  | APR | 1800 | 91  | 470. | * |
| 1  | APR | 1600 | 17  | 573. | * | 2  | APR | 1700 | 42  | 567. | *            | 3  | APR | 1800 | 67  | 505. | * | 4  | APR | 1900 | 92  | 468. | * |
| 1  | APR | 1700 | 18  | 432. | * | 2  | APR | 1800 | 43  | 612. | *            | 3  | APR | 1900 | 68  | 500. | * | 4  | APR | 2000 | 93  | 466. | * |
| 1  | APR | 1800 | 19  | 296. | * | 2  | APR | 1900 | 44  | 644. | *            | 3  | APR | 2000 | 69  | 499. | * | 4  | APR | 2100 | 94  | 464. | * |
| 1  | APR | 1900 | 20  | 239. | * | 2  | APR | 2000 | 45  | 665. | *            | 3  | APR | 2100 | 70  | 499. | * | 4  | APR | 2200 | 95  | 462. | * |
| 1  | APR | 2000 | 21  | 199. | * | 2  | APR | 2100 | 46  | 677. | *            | 3  | APR | 2200 | 71  | 498. | * | 4  | APR | 2300 | 96  | 459. | * |
| 1  | APR | 2100 | 22  | 177. | * | 2  | APR | 2200 | 47  | 682. | *            | 3  | APR | 2300 | 72  | 497. | * | 5  | APR | 0000 | 97  | 457. | * |
| 1  | APR | 2200 | 23  | 165. | * | 2  | APR | 2300 | 48  | 681. | *            | 4  | APR | 0000 | 73  | 496. | * | 5  | APR | 0100 | 98  | 455. | * |
| 1  | APR | 2300 | 24  | 162. | * | 3  | APR | 0000 | 49  | 677. | *            | 4  | APR | 0100 | 74  | 495. | * | 5  | APR | 0200 | 99  | 453. | * |
| 2  | APR | 0000 | 25  | 166. | * | 3  | APR | 0100 | 50  | 669. | *            | 4  | APR | 0200 | 75  | 494. | * | 5  | APR | 0300 | 100 | 450. | * |

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| PEAK FLOW |       | TIME  |          | MAXIMUM AVERAGE FLOW |       |       |          |
|-----------|-------|-------|----------|----------------------|-------|-------|----------|
|           |       |       |          | 6-HR                 | 24-HR | 72-HR | 99.00-HR |
| +         | (CFS) | (HR)  | (CFS)    |                      |       |       |          |
| +         | 682.  | 46.00 |          | 675.                 | 606.  | 505.  | 434.     |
|           |       |       | (INCHES) | .016                 | .058  | .145  | .171     |
|           |       |       | (AC-FT)  | 334.                 | 1201. | 3005. | 3553.    |

CUMULATIVE AREA = 388.48 SQ MI

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

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

SJR\_5-yr.out

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

HYDROGRAPH ROUTING DATA

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

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HYDROGRAPH AT STATION F-F1

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| DA | MON | HRMN | ORD | OUTFLOW | STORAGE | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE |
|----|-----|------|-----|---------|---------|---|----|-----|------|-----|---------|---------|---|----|-----|------|-----|---------|---------|
| 1  | APR | 0000 | 1   | 0.      | .00     | * | 2  | APR | 1000 | 35  | 289.    | 186.52  | * | 3  | APR | 2000 | 69  | 517.    | 328.35  |
| 1  | APR | 0100 | 2   | 1.      | .59     | * | 2  | APR | 1100 | 36  | 304.    | 196.59  | * | 3  | APR | 2100 | 70  | 513.    | 327.01  |
| 1  | APR | 0200 | 3   | 4.      | 2.77    | * | 2  | APR | 1200 | 37  | 320.    | 207.00  | * | 3  | APR | 2200 | 71  | 510.    | 325.93  |
| 1  | APR | 0300 | 4   | 10.     | 6.51    | * | 2  | APR | 1300 | 38  | 337.    | 217.52  | * | 3  | APR | 2300 | 72  | 507.    | 325.05  |
| 1  | APR | 0400 | 5   | 18.     | 11.44   | * | 2  | APR | 1400 | 39  | 353.    | 227.96  | * | 4  | APR | 0000 | 73  | 504.    | 324.31  |
| 1  | APR | 0500 | 6   | 27.     | 17.57   | * | 2  | APR | 1500 | 40  | 369.    | 238.16  | * | 4  | APR | 0100 | 74  | 502.    | 323.68  |
| 1  | APR | 0600 | 7   | 38.     | 24.77   | * | 2  | APR | 1600 | 41  | 384.    | 248.24  | * | 4  | APR | 0200 | 75  | 500.    | 323.13  |
| 1  | APR | 0700 | 8   | 51.     | 33.13   | * | 2  | APR | 1700 | 42  | 403.    | 260.08  | * | 4  | APR | 0300 | 76  | 499.    | 322.60  |
| 1  | APR | 0800 | 9   | 67.     | 42.99   | * | 2  | APR | 1800 | 43  | 425.    | 274.59  | * | 4  | APR | 0400 | 77  | 499.    | 322.06  |
| 1  | APR | 0900 | 10  | 86.     | 55.26   | * | 2  | APR | 1900 | 44  | 449.    | 290.34  | * | 4  | APR | 0500 | 78  | 498.    | 321.50  |
| 1  | APR | 1000 | 11  | 110.    | 71.27   | * | 2  | APR | 2000 | 45  | 474.    | 306.26  | * | 4  | APR | 0600 | 79  | 497.    | 320.90  |
| 1  | APR | 1100 | 12  | 139.    | 89.83   | * | 2  | APR | 2100 | 46  | 498.    | 321.55  | * | 4  | APR | 0700 | 80  | 496.    | 320.28  |
| 1  | APR | 1200 | 13  | 169.    | 109.01  | * | 2  | APR | 2200 | 47  | 539.    | 334.87  | * | 4  | APR | 0800 | 81  | 495.    | 319.63  |
| 1  | APR | 1300 | 14  | 200.    | 129.15  | * | 2  | APR | 2300 | 48  | 572.    | 345.29  | * | 4  | APR | 0900 | 82  | 494.    | 318.94  |
| 1  | APR | 1400 | 15  | 238.    | 153.73  | * | 3  | APR | 0000 | 49  | 598.    | 353.05  | * | 4  | APR | 1000 | 83  | 493.    | 318.23  |
| 1  | APR | 1500 | 16  | 279.    | 180.15  | * | 3  | APR | 0100 | 50  | 615.    | 358.53  | * | 4  | APR | 1100 | 84  | 491.    | 317.48  |
| 1  | APR | 1600 | 17  | 314.    | 203.10  | * | 3  | APR | 0200 | 51  | 627.    | 362.07  | * | 4  | APR | 1200 | 85  | 490.    | 316.70  |
| 1  | APR | 1700 | 18  | 337.    | 217.67  | * | 3  | APR | 0300 | 52  | 633.    | 364.01  | * | 4  | APR | 1300 | 86  | 489.    | 315.89  |
| 1  | APR | 1800 | 19  | 340.    | 219.77  | * | 3  | APR | 0400 | 53  | 635.    | 364.62  | * | 4  | APR | 1400 | 87  | 488.    | 315.04  |
| 1  | APR | 1900 | 20  | 331.    | 214.13  | * | 3  | APR | 0500 | 54  | 634.    | 364.16  | * | 4  | APR | 1500 | 88  | 486.    | 314.16  |
| 1  | APR | 2000 | 21  | 318.    | 205.42  | * | 3  | APR | 0600 | 55  | 629.    | 362.84  | * | 4  | APR | 1600 | 89  | 485.    | 313.24  |

| SJR_5-yr.out |    |      |        |   |            |    |      |        |   |            |     |      |        |
|--------------|----|------|--------|---|------------|----|------|--------|---|------------|-----|------|--------|
| 1 APR 2100   | 22 | 302. | 195.36 | * | 3 APR 0700 | 56 | 623. | 360.86 | * | 4 APR 1700 | 90  | 483. | 312.29 |
| 1 APR 2200   | 23 | 287. | 185.16 | * | 3 APR 0800 | 57 | 615. | 358.37 | * | 4 APR 1800 | 91  | 482. | 311.31 |
| 1 APR 2300   | 24 | 272. | 175.59 | * | 3 APR 0900 | 58 | 606. | 355.55 | * | 4 APR 1900 | 92  | 480. | 310.30 |
| 2 APR 0000   | 25 | 259. | 167.21 | * | 3 APR 1000 | 59 | 596. | 352.56 | * | 4 APR 2000 | 93  | 479. | 309.24 |
| 2 APR 0100   | 26 | 248. | 160.18 | * | 3 APR 1100 | 60 | 586. | 349.54 | * | 4 APR 2100 | 94  | 477. | 308.16 |
| 2 APR 0200   | 27 | 239. | 154.63 | * | 3 APR 1200 | 61 | 577. | 346.59 | * | 4 APR 2200 | 95  | 475. | 307.04 |
| 2 APR 0300   | 28 | 234. | 151.13 | * | 3 APR 1300 | 62 | 567. | 343.75 | * | 4 APR 2300 | 96  | 474. | 305.89 |
| 2 APR 0400   | 29 | 232. | 150.19 | * | 3 APR 1400 | 63 | 559. | 341.07 | * | 5 APR 0000 | 97  | 472. | 304.71 |
| 2 APR 0500   | 30 | 235. | 151.76 | * | 3 APR 1500 | 64 | 550. | 338.54 | * | 5 APR 0100 | 98  | 470. | 303.50 |
| 2 APR 0600   | 31 | 241. | 155.56 | * | 3 APR 1600 | 65 | 543. | 336.19 | * | 5 APR 0200 | 99  | 468. | 302.25 |
| 2 APR 0700   | 32 | 250. | 161.26 | * | 3 APR 1700 | 66 | 536. | 333.98 | * | 5 APR 0300 | 100 | 466. | 300.97 |
| 2 APR 0800   | 33 | 261. | 168.53 | * | 3 APR 1800 | 67 | 529. | 331.93 | * |            |     |      |        |
| 2 APR 0900   | 34 | 274. | 177.06 | * | 3 APR 1900 | 68 | 523. | 330.02 | * |            |     |      |        |

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| PEAK FLOW | TIME  |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------|-------|----------|
| +         | (CFS) | (HR)     |      |       |       |          |
|           |       | (CFS)    |      |       |       |          |
| +         | 635.  | 52.00    | 630. | 580.  | 480.  | 397.     |
|           |       | (INCHES) | .015 | .055  | .138  | .157     |
|           |       | (AC-FT)  | 312. | 1150. | 2855. | 3252.    |

| PEAK STORAGE | TIME    |       | 6-HR | 24-HR | 72-HR | 99.00-HR |
|--------------|---------|-------|------|-------|-------|----------|
| +            | (AC-FT) | (HR)  |      |       |       |          |
|              | 365.    | 52.00 | 363. | 348.  | 301.  | 250.     |

CUMULATIVE AREA = 388.48 SQ MI

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

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239 KK      F1-G      ROUTE

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

HYDROGRAPH ROUTING DATA

244 RS      STORAGE ROUTING

SJR\_5-yr.out

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

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\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 40000. TO 80000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION F1-G

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| DA | MON | HRMN | ORD | OUTFLOW | STORAGE | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE |
|----|-----|------|-----|---------|---------|---|----|-----|------|-----|---------|---------|---|----|-----|------|-----|---------|---------|
| 1  | APR | 0000 | 1   | 0.      | .00     | * | 2  | APR | 1000 | 35  | 255.    | 134.50  | * | 3  | APR | 2000 | 69  | 542.    | 277.06  |
| 1  | APR | 0100 | 2   | 0.      | .03     | * | 2  | APR | 1100 | 36  | 261.    | 137.70  | * | 3  | APR | 2100 | 70  | 536.    | 275.12  |
| 1  | APR | 0200 | 3   | 0.      | .23     | * | 2  | APR | 1200 | 37  | 268.    | 141.65  | * | 3  | APR | 2200 | 71  | 530.    | 273.34  |
| 1  | APR | 0300 | 4   | 1.      | .75     | * | 2  | APR | 1300 | 38  | 277.    | 146.27  | * | 3  | APR | 2300 | 72  | 525.    | 271.75  |
| 1  | APR | 0400 | 5   | 3.      | 1.70    | * | 2  | APR | 1400 | 39  | 287.    | 151.47  | * | 4  | APR | 0000 | 73  | 520.    | 270.33  |
| 1  | APR | 0500 | 6   | 6.      | 3.18    | * | 2  | APR | 1500 | 40  | 298.    | 157.13  | * | 4  | APR | 0100 | 74  | 516.    | 269.09  |
| 1  | APR | 0600 | 7   | 10.     | 5.23    | * | 2  | APR | 1600 | 41  | 309.    | 163.18  | * | 4  | APR | 0200 | 75  | 513.    | 267.99  |
| 1  | APR | 0700 | 8   | 15.     | 7.90    | * | 2  | APR | 1700 | 42  | 321.    | 169.65  | * | 4  | APR | 0300 | 76  | 510.    | 267.05  |
| 1  | APR | 0800 | 9   | 21.     | 11.27   | * | 2  | APR | 1800 | 43  | 335.    | 176.74  | * | 4  | APR | 0400 | 77  | 507.    | 266.26  |
| 1  | APR | 0900 | 10  | 29.     | 15.46   | * | 2  | APR | 1900 | 44  | 350.    | 184.60  | * | 4  | APR | 0500 | 78  | 505.    | 265.60  |
| 1  | APR | 1000 | 11  | 39.     | 20.73   | * | 2  | APR | 2000 | 45  | 366.    | 193.19  | * | 4  | APR | 0600 | 79  | 503.    | 265.02  |
| 1  | APR | 1100 | 12  | 52.     | 27.27   | * | 2  | APR | 2100 | 46  | 383.    | 202.39  | * | 4  | APR | 0700 | 80  | 502.    | 264.51  |
| 1  | APR | 1200 | 13  | 66.     | 35.11   | * | 2  | APR | 2200 | 47  | 403.    | 212.73  | * | 4  | APR | 0800 | 81  | 500.    | 264.05  |
| 1  | APR | 1300 | 14  | 84.     | 44.14   | * | 2  | APR | 2300 | 48  | 425.    | 224.42  | * | 4  | APR | 0900 | 82  | 499.    | 263.60  |
| 1  | APR | 1400 | 15  | 103.    | 54.52   | * | 3  | APR | 0000 | 49  | 448.    | 236.68  | * | 4  | APR | 1000 | 83  | 498.    | 263.13  |
| 1  | APR | 1500 | 16  | 126.    | 66.41   | * | 3  | APR | 0100 | 50  | 471.    | 248.80  | * | 4  | APR | 1100 | 84  | 497.    | 262.65  |
| 1  | APR | 1600 | 17  | 151.    | 79.50   | * | 3  | APR | 0200 | 51  | 493.    | 260.29  | * | 4  | APR | 1200 | 85  | 496.    | 262.14  |
| 1  | APR | 1700 | 18  | 176.    | 92.92   | * | 3  | APR | 0300 | 52  | 521.    | 270.47  | * | 4  | APR | 1300 | 86  | 495.    | 261.62  |
| 1  | APR | 1800 | 19  | 200.    | 105.39  | * | 3  | APR | 0400 | 53  | 547.    | 278.75  | * | 4  | APR | 1400 | 87  | 494.    | 261.07  |
| 1  | APR | 1900 | 20  | 219.    | 115.83  | * | 3  | APR | 0500 | 54  | 568.    | 285.10  | * | 4  | APR | 1500 | 88  | 493.    | 260.50  |
| 1  | APR | 2000 | 21  | 235.    | 123.90  | * | 3  | APR | 0600 | 55  | 583.    | 289.76  | * | 4  | APR | 1600 | 89  | 492.    | 259.90  |
| 1  | APR | 2100 | 22  | 246.    | 129.69  | * | 3  | APR | 0700 | 56  | 593.    | 292.94  | * | 4  | APR | 1700 | 90  | 491.    | 259.28  |
| 1  | APR | 2200 | 23  | 253.    | 133.44  | * | 3  | APR | 0800 | 57  | 599.    | 294.85  | * | 4  | APR | 1800 | 91  | 490.    | 258.64  |
| 1  | APR | 2300 | 24  | 257.    | 135.47  | * | 3  | APR | 0900 | 58  | 602.    | 295.68  | * | 4  | APR | 1900 | 92  | 489.    | 257.97  |
| 2  | APR | 0000 | 25  | 258.    | 136.14  | * | 3  | APR | 1000 | 59  | 601.    | 295.63  | * | 4  | APR | 2000 | 93  | 487.    | 257.28  |
| 2  | APR | 0100 | 26  | 257.    | 135.80  | * | 3  | APR | 1100 | 60  | 599.    | 294.88  | * | 4  | APR | 2100 | 94  | 486.    | 256.56  |
| 2  | APR | 0200 | 27  | 255.    | 134.76  | * | 3  | APR | 1200 | 61  | 595.    | 293.59  | * | 4  | APR | 2200 | 95  | 484.    | 255.81  |

| SJR_5-yr.out |    |      |        |   |            |    |      |        |   |            |     |      |        |
|--------------|----|------|--------|---|------------|----|------|--------|---|------------|-----|------|--------|
| 2 APR 0300   | 28 | 253. | 133.34 | * | 3 APR 1300 | 62 | 589. | 291.92 | * | 4 APR 2300 | 96  | 483. | 255.04 |
| 2 APR 0400   | 29 | 250. | 131.86 | * | 3 APR 1400 | 63 | 583. | 289.99 | * | 5 APR 0000 | 97  | 482. | 254.24 |
| 2 APR 0500   | 30 | 247. | 130.63 | * | 3 APR 1500 | 64 | 577. | 287.89 | * | 5 APR 0100 | 98  | 480. | 253.41 |
| 2 APR 0600   | 31 | 246. | 129.90 | * | 3 APR 1600 | 65 | 570. | 285.71 | * | 5 APR 0200 | 99  | 478. | 252.56 |
| 2 APR 0700   | 32 | 246. | 129.84 | * | 3 APR 1700 | 66 | 562. | 283.49 | * | 5 APR 0300 | 100 | 477. | 251.68 |
| 2 APR 0800   | 33 | 247. | 130.55 | * | 3 APR 1800 | 67 | 555. | 281.29 | * |            |     |      |        |
| 2 APR 0900   | 34 | 250. | 132.10 | * | 3 APR 1900 | 68 | 549. | 279.14 | * |            |     |      |        |

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| PEAK FLOW | TIME  |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------|-------|----------|
| +         | (CFS) | (HR)     |      |       |       |          |
|           |       | (CFS)    |      |       |       |          |
| +         | 602.  | 57.00    | 598. | 561.  | 460.  | 367.     |
|           |       | (INCHES) | .014 | .054  | .132  | .145     |
|           |       | (AC-FT)  | 296. | 1113. | 2737. | 3001.    |

| PEAK STORAGE | TIME    |       | 6-HR | 24-HR | 72-HR | 99.00-HR |
|--------------|---------|-------|------|-------|-------|----------|
| +            | (AC-FT) | (HR)  |      |       |       |          |
|              | 296.    | 57.00 | 295. | 283.  | 238.  | 190.     |

CUMULATIVE AREA = 388.48 SQ MI

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

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 \* \*  
 250 KK \* 12A \* LAKEVIEW SUB-AREA (30% FOOTHILL)  
 \* \*  
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 COMBINE LAKEVIEW SUB-AREA AT THE U/S OF RAMONA EXPWY PER CDJ.

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

SUBBASIN RUNOFF DATA

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

## PRECIPITATION DATA

253 PB STORM .25 BASIN TOTAL PRECIPITATION

255 PI INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .01 | .02 | .02 | .02 | .03 | .03 | .04 | .05 | .07 |
| .07 | .08 | .09 | .12 | .10 | .10 | .05 | .02 | .02 | .01 |
| .01 | .01 | .01 | .01 | .00 | .00 |     |     |     |     |

265 LU UNIFORM LOSS RATE

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

265 UI INPUT UNITGRAPH, 6 ORDINATES, VOLUME = 1.00

|        |        |       |       |      |      |
|--------|--------|-------|-------|------|------|
| 5203.0 | 1918.0 | 587.0 | 104.0 | 72.0 | 24.0 |
|--------|--------|-------|-------|------|------|

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## HYDROGRAPH AT STATION 12A

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 7.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 20.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 27.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 36.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 44.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 53.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 63.    | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 76.    | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 99.    | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 130.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 142.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 152.   | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .02  | .00  | .02    | 166.   | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 223.   | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 209.   | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .02  | .00  | .02    | 201.   | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .01  | .00  | .01    | 129.   | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .00  | .00  | .00    | 64.    | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 42.    | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 30.    | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 25.    | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 21.    | * | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 21.    | * | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |     |   |            |     |     | SJR_5-yr.out |     |    |  |  |
|------------|----|-----|-----|-----|-----|---|------------|-----|-----|--------------|-----|----|--|--|
| 2 APR 0000 | 25 | .00 | .00 | .00 | 18. | * | 4 APR 0200 | 75  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 0100 | 26 | .00 | .00 | .00 | 11. | * | 4 APR 0300 | 76  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 0200 | 27 | .00 | .00 | .00 | 4.  | * | 4 APR 0400 | 77  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 0300 | 28 | .00 | .00 | .00 | 1.  | * | 4 APR 0500 | 78  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 0400 | 29 | .00 | .00 | .00 | 0.  | * | 4 APR 0600 | 79  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 0500 | 30 | .00 | .00 | .00 | 0.  | * | 4 APR 0700 | 80  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 0600 | 31 | .00 | .00 | .00 | 0.  | * | 4 APR 0800 | 81  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 0700 | 32 | .00 | .00 | .00 | 0.  | * | 4 APR 0900 | 82  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 0800 | 33 | .00 | .00 | .00 | 0.  | * | 4 APR 1000 | 83  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 0900 | 34 | .00 | .00 | .00 | 0.  | * | 4 APR 1100 | 84  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 0.  | * | 4 APR 1200 | 85  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 0.  | * | 4 APR 1300 | 86  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 0.  | * | 4 APR 1400 | 87  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 0.  | * | 4 APR 1500 | 88  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0.  | * | 4 APR 1600 | 89  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0.  | * | 4 APR 1700 | 90  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0.  | * | 4 APR 1800 | 91  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0.  | * | 4 APR 1900 | 92  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0.  | * | 4 APR 2000 | 93  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0.  | * | 4 APR 2100 | 94  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0.  | * | 4 APR 2200 | 95  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0.  | * | 4 APR 2300 | 96  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0.  | * | 5 APR 0000 | 97  | .00 | .00          | .00 | 0. |  |  |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0.  | * | 5 APR 0100 | 98  | .00 | .00          | .00 | 0. |  |  |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0.  | * | 5 APR 0200 | 99  | .00 | .00          | .00 | 0. |  |  |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0.  | * | 5 APR 0300 | 100 | .00 | .00          | .00 | 0. |  |  |

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TOTAL RAINFALL = .25, TOTAL LOSS = .00, TOTAL EXCESS = .25

| PEAK FLOW | TIME  |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------|-------|----------|
| +         | (CFS) | (HR)     |      |       |       |          |
|           |       | (CFS)    |      |       |       |          |
| +         | 223.  | 14.00    | 181. | 83.   | 28.   | 20.      |
|           |       | (INCHES) | .138 | .253  | .255  | .255     |
|           |       | (AC-FT)  | 90.  | 165.  | 167.  | 167.     |

CUMULATIVE AREA = 12.26 SQ MI

HYDROGRAPH MULTIPLIED BY .30

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HYDROGRAPH AT STATION 12A

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| DA | MON | HRMN | ORD | FLOW | DA | MON | HRMN | ORD | FLOW | DA | MON | HRMN | ORD | FLOW | DA | MON | HRMN | ORD | FLOW |
|----|-----|------|-----|------|----|-----|------|-----|------|----|-----|------|-----|------|----|-----|------|-----|------|
|    |     |      |     | *    |    |     |      |     | *    |    |     |      |     | *    |    |     |      |     | *    |
|    |     |      |     | *    |    |     |      |     | *    |    |     |      |     | *    |    |     |      |     | *    |

| SJR_5-yr.out |    |     |   |            |    |    |   |            |    |    |   |            |     |    |
|--------------|----|-----|---|------------|----|----|---|------------|----|----|---|------------|-----|----|
| 1 APR 0000   | 1  | 0.  | * | 2 APR 0100 | 26 | 3. | * | 3 APR 0200 | 51 | 0. | * | 4 APR 0300 | 76  | 0. |
| 1 APR 0100   | 2  | 2.  | * | 2 APR 0200 | 27 | 1. | * | 3 APR 0300 | 52 | 0. | * | 4 APR 0400 | 77  | 0. |
| 1 APR 0200   | 3  | 6.  | * | 2 APR 0300 | 28 | 0. | * | 3 APR 0400 | 53 | 0. | * | 4 APR 0500 | 78  | 0. |
| 1 APR 0300   | 4  | 8.  | * | 2 APR 0400 | 29 | 0. | * | 3 APR 0500 | 54 | 0. | * | 4 APR 0600 | 79  | 0. |
| 1 APR 0400   | 5  | 11. | * | 2 APR 0500 | 30 | 0. | * | 3 APR 0600 | 55 | 0. | * | 4 APR 0700 | 80  | 0. |
| 1 APR 0500   | 6  | 13. | * | 2 APR 0600 | 31 | 0. | * | 3 APR 0700 | 56 | 0. | * | 4 APR 0800 | 81  | 0. |
| 1 APR 0600   | 7  | 16. | * | 2 APR 0700 | 32 | 0. | * | 3 APR 0800 | 57 | 0. | * | 4 APR 0900 | 82  | 0. |
| 1 APR 0700   | 8  | 19. | * | 2 APR 0800 | 33 | 0. | * | 3 APR 0900 | 58 | 0. | * | 4 APR 1000 | 83  | 0. |
| 1 APR 0800   | 9  | 23. | * | 2 APR 0900 | 34 | 0. | * | 3 APR 1000 | 59 | 0. | * | 4 APR 1100 | 84  | 0. |
| 1 APR 0900   | 10 | 30. | * | 2 APR 1000 | 35 | 0. | * | 3 APR 1100 | 60 | 0. | * | 4 APR 1200 | 85  | 0. |
| 1 APR 1000   | 11 | 39. | * | 2 APR 1100 | 36 | 0. | * | 3 APR 1200 | 61 | 0. | * | 4 APR 1300 | 86  | 0. |
| 1 APR 1100   | 12 | 43. | * | 2 APR 1200 | 37 | 0. | * | 3 APR 1300 | 62 | 0. | * | 4 APR 1400 | 87  | 0. |
| 1 APR 1200   | 13 | 46. | * | 2 APR 1300 | 38 | 0. | * | 3 APR 1400 | 63 | 0. | * | 4 APR 1500 | 88  | 0. |
| 1 APR 1300   | 14 | 50. | * | 2 APR 1400 | 39 | 0. | * | 3 APR 1500 | 64 | 0. | * | 4 APR 1600 | 89  | 0. |
| 1 APR 1400   | 15 | 67. | * | 2 APR 1500 | 40 | 0. | * | 3 APR 1600 | 65 | 0. | * | 4 APR 1700 | 90  | 0. |
| 1 APR 1500   | 16 | 63. | * | 2 APR 1600 | 41 | 0. | * | 3 APR 1700 | 66 | 0. | * | 4 APR 1800 | 91  | 0. |
| 1 APR 1600   | 17 | 60. | * | 2 APR 1700 | 42 | 0. | * | 3 APR 1800 | 67 | 0. | * | 4 APR 1900 | 92  | 0. |
| 1 APR 1700   | 18 | 39. | * | 2 APR 1800 | 43 | 0. | * | 3 APR 1900 | 68 | 0. | * | 4 APR 2000 | 93  | 0. |
| 1 APR 1800   | 19 | 19. | * | 2 APR 1900 | 44 | 0. | * | 3 APR 2000 | 69 | 0. | * | 4 APR 2100 | 94  | 0. |
| 1 APR 1900   | 20 | 13. | * | 2 APR 2000 | 45 | 0. | * | 3 APR 2100 | 70 | 0. | * | 4 APR 2200 | 95  | 0. |
| 1 APR 2000   | 21 | 9.  | * | 2 APR 2100 | 46 | 0. | * | 3 APR 2200 | 71 | 0. | * | 4 APR 2300 | 96  | 0. |
| 1 APR 2100   | 22 | 7.  | * | 2 APR 2200 | 47 | 0. | * | 3 APR 2300 | 72 | 0. | * | 5 APR 0000 | 97  | 0. |
| 1 APR 2200   | 23 | 6.  | * | 2 APR 2300 | 48 | 0. | * | 4 APR 0000 | 73 | 0. | * | 5 APR 0100 | 98  | 0. |
| 1 APR 2300   | 24 | 6.  | * | 3 APR 0000 | 49 | 0. | * | 4 APR 0100 | 74 | 0. | * | 5 APR 0200 | 99  | 0. |
| 2 APR 0000   | 25 | 5.  | * | 3 APR 0100 | 50 | 0. | * | 4 APR 0200 | 75 | 0. | * | 5 APR 0300 | 100 | 0. |

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| PEAK FLOW | TIME  |       | 6-HR | MAXIMUM AVERAGE FLOW | 24-HR | 72-HR | 99.00-HR |      |
|-----------|-------|-------|------|----------------------|-------|-------|----------|------|
| +         | (CFS) | (HR)  |      |                      |       |       |          |      |
| +         | 67.   | 14.00 |      | (CFS)                | 54.   | 25.   | 8.       | 6.   |
|           |       |       |      | (INCHES)             | .041  | .076  | .076     | .076 |
|           |       |       |      | (AC-FT)              | 27.   | 50.   | 50.      | 50.  |

CUMULATIVE AREA = 12.26 SQ MI

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|        |   |   |  |
|--------|---|---|--|
| *****  |   |   |  |
| 268 KK | * | * |  |
|        | * | * |  |
|        | * | * |  |
|        | * | * |  |
| *****  |   |   |  |

LAKEVIEW SUB-AREA (70% VALLEY)

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

272 IN TIME DATA FOR INPUT TIME SERIES

SJR\_5-yr.out  
JXMIN 15 TIME INTERVAL IN MINUTES  
JXDATE 1APR92 STARTING DATE  
JXTIME 30 STARTING TIME  
UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

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

PRECIPITATION DATA

271 PB STORM .25 BASIN TOTAL PRECIPITATION

273 PI INCREMENTAL PRECIPITATION PATTERN  
.00 .01 .02 .02 .02 .03 .03 .04 .05 .07  
.07 .08 .09 .12 .10 .10 .05 .02 .02 .01  
.01 .01 .01 .01 .00 .00

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

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

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HYDROGRAPH AT STATION 12A1

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 6.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 19.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 26.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 34.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 43.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 51.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 62.    | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 75.    | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 97.    | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 127.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 138.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 149.   | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |      | SJR_5-yr.out |            |     |     |     |     |    |
|------------|----|-----|-----|-----|------|--------------|------------|-----|-----|-----|-----|----|
| 1 APR 1300 | 14 | .02 | .00 | .02 | 164. | *            | 3 APR 1500 | 64  | .00 | .00 | .00 | 0. |
| 1 APR 1400 | 15 | .03 | .00 | .03 | 220. | *            | 3 APR 1600 | 65  | .00 | .00 | .00 | 0. |
| 1 APR 1500 | 16 | .03 | .00 | .03 | 205. | *            | 3 APR 1700 | 66  | .00 | .00 | .00 | 0. |
| 1 APR 1600 | 17 | .02 | .00 | .02 | 200. | *            | 3 APR 1800 | 67  | .00 | .00 | .00 | 0. |
| 1 APR 1700 | 18 | .01 | .00 | .01 | 132. | *            | 3 APR 1900 | 68  | .00 | .00 | .00 | 0. |
| 1 APR 1800 | 19 | .00 | .00 | .00 | 71.  | *            | 3 APR 2000 | 69  | .00 | .00 | .00 | 0. |
| 1 APR 1900 | 20 | .00 | .00 | .00 | 52.  | *            | 3 APR 2100 | 70  | .00 | .00 | .00 | 0. |
| 1 APR 2000 | 21 | .00 | .00 | .00 | 36.  | *            | 3 APR 2200 | 71  | .00 | .00 | .00 | 0. |
| 1 APR 2100 | 22 | .00 | .00 | .00 | 28.  | *            | 3 APR 2300 | 72  | .00 | .00 | .00 | 0. |
| 1 APR 2200 | 23 | .00 | .00 | .00 | 23.  | *            | 4 APR 0000 | 73  | .00 | .00 | .00 | 0. |
| 1 APR 2300 | 24 | .00 | .00 | .00 | 21.  | *            | 4 APR 0100 | 74  | .00 | .00 | .00 | 0. |
| 2 APR 0000 | 25 | .00 | .00 | .00 | 18.  | *            | 4 APR 0200 | 75  | .00 | .00 | .00 | 0. |
| 2 APR 0100 | 26 | .00 | .00 | .00 | 12.  | *            | 4 APR 0300 | 76  | .00 | .00 | .00 | 0. |
| 2 APR 0200 | 27 | .00 | .00 | .00 | 5.   | *            | 4 APR 0400 | 77  | .00 | .00 | .00 | 0. |
| 2 APR 0300 | 28 | .00 | .00 | .00 | 2.   | *            | 4 APR 0500 | 78  | .00 | .00 | .00 | 0. |
| 2 APR 0400 | 29 | .00 | .00 | .00 | 1.   | *            | 4 APR 0600 | 79  | .00 | .00 | .00 | 0. |
| 2 APR 0500 | 30 | .00 | .00 | .00 | 0.   | *            | 4 APR 0700 | 80  | .00 | .00 | .00 | 0. |
| 2 APR 0600 | 31 | .00 | .00 | .00 | 0.   | *            | 4 APR 0800 | 81  | .00 | .00 | .00 | 0. |
| 2 APR 0700 | 32 | .00 | .00 | .00 | 0.   | *            | 4 APR 0900 | 82  | .00 | .00 | .00 | 0. |
| 2 APR 0800 | 33 | .00 | .00 | .00 | 0.   | *            | 4 APR 1000 | 83  | .00 | .00 | .00 | 0. |
| 2 APR 0900 | 34 | .00 | .00 | .00 | 0.   | *            | 4 APR 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 0.   | *            | 4 APR 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 0.   | *            | 4 APR 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 0.   | *            | 4 APR 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 0.   | *            | 4 APR 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0.   | *            | 4 APR 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0.   | *            | 4 APR 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0.   | *            | 4 APR 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0.   | *            | 4 APR 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0.   | *            | 4 APR 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0.   | *            | 4 APR 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0.   | *            | 4 APR 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0.   | *            | 4 APR 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0.   | *            | 5 APR 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0.   | *            | 5 APR 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0.   | *            | 5 APR 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0.   | *            | 5 APR 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .25, TOTAL LOSS = .00, TOTAL EXCESS = .25

| PEAK FLOW | TIME  |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------|-------|----------|
| +         | (CFS) | (HR)     |      |       |       |          |
|           |       | (CFS)    |      |       |       |          |
| +         | 220.  | 14.00    | 179. | 83.   | 28.   | 20.      |
|           |       | (INCHES) | .136 | .253  | .255  | .255     |
|           |       | (AC-FT)  | 89.  | 165.  | 167.  | 167.     |

CUMULATIVE AREA = 12.26 SQ MI

SJR\_5-yr.out

HYDROGRAPH MULTIPLIED BY .70

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HYDROGRAPH AT STATION 12A1

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| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW |
|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 8.   | * | 3  | APR | 0200 | 51  | 0.   | * | 4  | APR | 0300 | 76  | 0.   |
| 1  | APR | 0100 | 2   | 4.   | * | 2  | APR | 0200 | 27  | 3.   | * | 3  | APR | 0300 | 52  | 0.   | * | 4  | APR | 0400 | 77  | 0.   |
| 1  | APR | 0200 | 3   | 13.  | * | 2  | APR | 0300 | 28  | 1.   | * | 3  | APR | 0400 | 53  | 0.   | * | 4  | APR | 0500 | 78  | 0.   |
| 1  | APR | 0300 | 4   | 18.  | * | 2  | APR | 0400 | 29  | 1.   | * | 3  | APR | 0500 | 54  | 0.   | * | 4  | APR | 0600 | 79  | 0.   |
| 1  | APR | 0400 | 5   | 24.  | * | 2  | APR | 0500 | 30  | 0.   | * | 3  | APR | 0600 | 55  | 0.   | * | 4  | APR | 0700 | 80  | 0.   |
| 1  | APR | 0500 | 6   | 30.  | * | 2  | APR | 0600 | 31  | 0.   | * | 3  | APR | 0700 | 56  | 0.   | * | 4  | APR | 0800 | 81  | 0.   |
| 1  | APR | 0600 | 7   | 36.  | * | 2  | APR | 0700 | 32  | 0.   | * | 3  | APR | 0800 | 57  | 0.   | * | 4  | APR | 0900 | 82  | 0.   |
| 1  | APR | 0700 | 8   | 43.  | * | 2  | APR | 0800 | 33  | 0.   | * | 3  | APR | 0900 | 58  | 0.   | * | 4  | APR | 1000 | 83  | 0.   |
| 1  | APR | 0800 | 9   | 52.  | * | 2  | APR | 0900 | 34  | 0.   | * | 3  | APR | 1000 | 59  | 0.   | * | 4  | APR | 1100 | 84  | 0.   |
| 1  | APR | 0900 | 10  | 68.  | * | 2  | APR | 1000 | 35  | 0.   | * | 3  | APR | 1100 | 60  | 0.   | * | 4  | APR | 1200 | 85  | 0.   |
| 1  | APR | 1000 | 11  | 89.  | * | 2  | APR | 1100 | 36  | 0.   | * | 3  | APR | 1200 | 61  | 0.   | * | 4  | APR | 1300 | 86  | 0.   |
| 1  | APR | 1100 | 12  | 97.  | * | 2  | APR | 1200 | 37  | 0.   | * | 3  | APR | 1300 | 62  | 0.   | * | 4  | APR | 1400 | 87  | 0.   |
| 1  | APR | 1200 | 13  | 105. | * | 2  | APR | 1300 | 38  | 0.   | * | 3  | APR | 1400 | 63  | 0.   | * | 4  | APR | 1500 | 88  | 0.   |
| 1  | APR | 1300 | 14  | 115. | * | 2  | APR | 1400 | 39  | 0.   | * | 3  | APR | 1500 | 64  | 0.   | * | 4  | APR | 1600 | 89  | 0.   |
| 1  | APR | 1400 | 15  | 154. | * | 2  | APR | 1500 | 40  | 0.   | * | 3  | APR | 1600 | 65  | 0.   | * | 4  | APR | 1700 | 90  | 0.   |
| 1  | APR | 1500 | 16  | 143. | * | 2  | APR | 1600 | 41  | 0.   | * | 3  | APR | 1700 | 66  | 0.   | * | 4  | APR | 1800 | 91  | 0.   |
| 1  | APR | 1600 | 17  | 140. | * | 2  | APR | 1700 | 42  | 0.   | * | 3  | APR | 1800 | 67  | 0.   | * | 4  | APR | 1900 | 92  | 0.   |
| 1  | APR | 1700 | 18  | 92.  | * | 2  | APR | 1800 | 43  | 0.   | * | 3  | APR | 1900 | 68  | 0.   | * | 4  | APR | 2000 | 93  | 0.   |
| 1  | APR | 1800 | 19  | 50.  | * | 2  | APR | 1900 | 44  | 0.   | * | 3  | APR | 2000 | 69  | 0.   | * | 4  | APR | 2100 | 94  | 0.   |
| 1  | APR | 1900 | 20  | 36.  | * | 2  | APR | 2000 | 45  | 0.   | * | 3  | APR | 2100 | 70  | 0.   | * | 4  | APR | 2200 | 95  | 0.   |
| 1  | APR | 2000 | 21  | 25.  | * | 2  | APR | 2100 | 46  | 0.   | * | 3  | APR | 2200 | 71  | 0.   | * | 4  | APR | 2300 | 96  | 0.   |
| 1  | APR | 2100 | 22  | 20.  | * | 2  | APR | 2200 | 47  | 0.   | * | 3  | APR | 2300 | 72  | 0.   | * | 5  | APR | 0000 | 97  | 0.   |
| 1  | APR | 2200 | 23  | 16.  | * | 2  | APR | 2300 | 48  | 0.   | * | 4  | APR | 0000 | 73  | 0.   | * | 5  | APR | 0100 | 98  | 0.   |
| 1  | APR | 2300 | 24  | 15.  | * | 3  | APR | 0000 | 49  | 0.   | * | 4  | APR | 0100 | 74  | 0.   | * | 5  | APR | 0200 | 99  | 0.   |
| 2  | APR | 0000 | 25  | 13.  | * | 3  | APR | 0100 | 50  | 0.   | * | 4  | APR | 0200 | 75  | 0.   | * | 5  | APR | 0300 | 100 | 0.   |

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| PEAK FLOW | TIME  |          | MAXIMUM AVERAGE FLOW |       |       |
|-----------|-------|----------|----------------------|-------|-------|
| (CFS)     | (HR)  |          | 6-HR                 | 24-HR | 72-HR |
| 154.      | 14.00 | (CFS)    | 125.                 | 58.   | 20.   |
|           |       | (INCHES) | .095                 | .177  | .178  |
|           |       | (AC-FT)  | 62.                  | 116.  | 117.  |

CUMULATIVE AREA = 12.26 SQ MI

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\*  
286 KK \* G \*  
\* \*  
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RAMONA EXPRESSWAY

288 HC HYDROGRAPH COMBINATION  
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION G  
SUM OF 3 HYDROGRAPHS

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| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 269. | * | 3  | APR | 0200 | 51  | 493. | * | 4  | APR | 0300 | 76  | 510. | * |
| 1  | APR | 0100 | 2   | 7.   | * | 2  | APR | 0200 | 27  | 259. | * | 3  | APR | 0300 | 52  | 521. | * | 4  | APR | 0400 | 77  | 507. | * |
| 1  | APR | 0200 | 3   | 20.  | * | 2  | APR | 0300 | 28  | 254. | * | 3  | APR | 0400 | 53  | 547. | * | 4  | APR | 0500 | 78  | 505. | * |
| 1  | APR | 0300 | 4   | 27.  | * | 2  | APR | 0400 | 29  | 251. | * | 3  | APR | 0500 | 54  | 568. | * | 4  | APR | 0600 | 79  | 503. | * |
| 1  | APR | 0400 | 5   | 38.  | * | 2  | APR | 0500 | 30  | 248. | * | 3  | APR | 0600 | 55  | 583. | * | 4  | APR | 0700 | 80  | 502. | * |
| 1  | APR | 0500 | 6   | 49.  | * | 2  | APR | 0600 | 31  | 246. | * | 3  | APR | 0700 | 56  | 593. | * | 4  | APR | 0800 | 81  | 500. | * |
| 1  | APR | 0600 | 7   | 61.  | * | 2  | APR | 0700 | 32  | 246. | * | 3  | APR | 0800 | 57  | 599. | * | 4  | APR | 0900 | 82  | 499. | * |
| 1  | APR | 0700 | 8   | 77.  | * | 2  | APR | 0800 | 33  | 247. | * | 3  | APR | 0900 | 58  | 602. | * | 4  | APR | 1000 | 83  | 498. | * |
| 1  | APR | 0800 | 9   | 96.  | * | 2  | APR | 0900 | 34  | 250. | * | 3  | APR | 1000 | 59  | 601. | * | 4  | APR | 1100 | 84  | 497. | * |
| 1  | APR | 0900 | 10  | 127. | * | 2  | APR | 1000 | 35  | 255. | * | 3  | APR | 1100 | 60  | 599. | * | 4  | APR | 1200 | 85  | 496. | * |
| 1  | APR | 1000 | 11  | 167. | * | 2  | APR | 1100 | 36  | 261. | * | 3  | APR | 1200 | 61  | 595. | * | 4  | APR | 1300 | 86  | 495. | * |
| 1  | APR | 1100 | 12  | 191. | * | 2  | APR | 1200 | 37  | 268. | * | 3  | APR | 1300 | 62  | 589. | * | 4  | APR | 1400 | 87  | 494. | * |
| 1  | APR | 1200 | 13  | 217. | * | 2  | APR | 1300 | 38  | 277. | * | 3  | APR | 1400 | 63  | 583. | * | 4  | APR | 1500 | 88  | 493. | * |
| 1  | APR | 1300 | 14  | 248. | * | 2  | APR | 1400 | 39  | 287. | * | 3  | APR | 1500 | 64  | 577. | * | 4  | APR | 1600 | 89  | 492. | * |
| 1  | APR | 1400 | 15  | 324. | * | 2  | APR | 1500 | 40  | 298. | * | 3  | APR | 1600 | 65  | 570. | * | 4  | APR | 1700 | 90  | 491. | * |
| 1  | APR | 1500 | 16  | 332. | * | 2  | APR | 1600 | 41  | 309. | * | 3  | APR | 1700 | 66  | 562. | * | 4  | APR | 1800 | 91  | 490. | * |
| 1  | APR | 1600 | 17  | 351. | * | 2  | APR | 1700 | 42  | 321. | * | 3  | APR | 1800 | 67  | 555. | * | 4  | APR | 1900 | 92  | 489. | * |
| 1  | APR | 1700 | 18  | 307. | * | 2  | APR | 1800 | 43  | 335. | * | 3  | APR | 1900 | 68  | 549. | * | 4  | APR | 2000 | 93  | 487. | * |
| 1  | APR | 1800 | 19  | 268. | * | 2  | APR | 1900 | 44  | 350. | * | 3  | APR | 2000 | 69  | 542. | * | 4  | APR | 2100 | 94  | 486. | * |
| 1  | APR | 1900 | 20  | 268. | * | 2  | APR | 2000 | 45  | 366. | * | 3  | APR | 2100 | 70  | 536. | * | 4  | APR | 2200 | 95  | 484. | * |
| 1  | APR | 2000 | 21  | 269. | * | 2  | APR | 2100 | 46  | 383. | * | 3  | APR | 2200 | 71  | 530. | * | 4  | APR | 2300 | 96  | 483. | * |
| 1  | APR | 2100 | 22  | 273. | * | 2  | APR | 2200 | 47  | 403. | * | 3  | APR | 2300 | 72  | 525. | * | 5  | APR | 0000 | 97  | 482. | * |
| 1  | APR | 2200 | 23  | 275. | * | 2  | APR | 2300 | 48  | 425. | * | 4  | APR | 0000 | 73  | 520. | * | 5  | APR | 0100 | 98  | 480. | * |
| 1  | APR | 2300 | 24  | 278. | * | 3  | APR | 0000 | 49  | 448. | * | 4  | APR | 0100 | 74  | 516. | * | 5  | APR | 0200 | 99  | 478. | * |
| 2  | APR | 0000 | 25  | 276. | * | 3  | APR | 0100 | 50  | 471. | * | 4  | APR | 0200 | 75  | 513. | * | 5  | APR | 0300 | 100 | 477. | * |

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SJR\_5-yr.out

| PEAK FLOW | TIME  |          | 6-HR | MAXIMUM AVERAGE FLOW<br>24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------------------------------|-------|----------|
| +         | (CFS) | (HR)     |      |                               |       |          |
|           |       | (CFS)    |      |                               |       |          |
| +         | 602.  | 57.00    | 598. | 561.                          | 460.  | 387.     |
|           |       | (INCHES) | .013 | .051                          | .124  | .144     |
|           |       | (AC-FT)  | 296. | 1113.                         | 2737. | 3167.    |

CUMULATIVE AREA = 413.00 SQ MI

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

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

# HYDROGRAPH ROUTING DATA

|        |                 |         |                             |         |         |         |         |         |         |         |         |
|--------|-----------------|---------|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 295 RS | STORAGE ROUTING |         |                             |         |         |         |         |         |         |         |         |
|        | NSTPS           | 3       | NUMBER OF SUBREACHES        |         |         |         |         |         |         |         |         |
|        | ITYP            | STOR    | TYPE OF INITIAL CONDITION   |         |         |         |         |         |         |         |         |
|        | RSVRIC          | -1.00   | INITIAL CONDITION           |         |         |         |         |         |         |         |         |
|        | X               | .00     | WORKING R AND D COEFFICIENT |         |         |         |         |         |         |         |         |
| 296 SV | STORAGE         | .0      | 804.0                       | 1484.0  | 2507.0  | 6171.0  | 8267.0  | 10090.0 | 10684.0 | 12155.0 | 14679.0 |
|        |                 | 17916.0 | 21184.0                     | 24492.0 | 27854.0 | 40596.0 | 52905.0 |         |         |         |         |
| 298 SQ | DISCHARGE       | 0.      | 500.                        | 1000.   | 2000.   | 4000.   | 6000.   | 8000.   | 10000.  | 15000.  | 20000.  |
|        |                 | 25000.  | 30000.                      | 35000.  | 40000.  | 60000.  | 80000.  |         |         |         |         |

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# HYDROGRAPH AT STATION G-H

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|    |     |      |     |         |         |   |    |     |      |     |         |         |   |    |
|----|-----|------|-----|---------|---------|---|----|-----|------|-----|---------|---------|---|----|
|    |     |      |     |         | *       |   |    |     | *    |     |         |         |   |    |
| DA | MON | HRMN | ORD | OUTFLOW | STORAGE | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | * | DA |
|    |     |      |     |         |         | * |    |     |      |     |         |         | * |    |

| SJR_5-yr.out |    |      |        |   |            |    |      |        |   |            |     |      |        |
|--------------|----|------|--------|---|------------|----|------|--------|---|------------|-----|------|--------|
| 1 APR 0000   | 1  | 0.   | .00    | * | 2 APR 1000 | 35 | 206. | 110.39 | * | 3 APR 2000 | 69  | 470. | 251.75 |
| 1 APR 0100   | 2  | 0.   | .00    | * | 2 APR 1100 | 36 | 211. | 113.13 | * | 3 APR 2100 | 70  | 479. | 256.91 |
| 1 APR 0200   | 3  | 0.   | .01    | * | 2 APR 1200 | 37 | 216. | 115.60 | * | 3 APR 2200 | 71  | 488. | 261.58 |
| 1 APR 0300   | 4  | 0.   | .05    | * | 2 APR 1300 | 38 | 220. | 117.84 | * | 3 APR 2300 | 72  | 496. | 265.73 |
| 1 APR 0400   | 5  | 0.   | .13    | * | 2 APR 1400 | 39 | 224. | 119.90 | * | 4 APR 0000 | 73  | 503. | 269.34 |
| 1 APR 0500   | 6  | 1.   | .30    | * | 2 APR 1500 | 40 | 227. | 121.81 | * | 4 APR 0100 | 74  | 510. | 272.39 |
| 1 APR 0600   | 7  | 1.   | .57    | * | 2 APR 1600 | 41 | 231. | 123.63 | * | 4 APR 0200 | 75  | 515. | 274.89 |
| 1 APR 0700   | 8  | 2.   | .98    | * | 2 APR 1700 | 42 | 234. | 125.41 | * | 4 APR 0300 | 76  | 520. | 276.87 |
| 1 APR 0800   | 9  | 3.   | 1.57   | * | 2 APR 1800 | 43 | 237. | 127.19 | * | 4 APR 0400 | 77  | 523. | 278.40 |
| 1 APR 0900   | 10 | 4.   | 2.36   | * | 2 APR 1900 | 44 | 241. | 129.02 | * | 4 APR 0500 | 78  | 525. | 279.52 |
| 1 APR 1000   | 11 | 6.   | 3.42   | * | 2 APR 2000 | 45 | 244. | 130.93 | * | 4 APR 0600 | 79  | 527. | 280.27 |
| 1 APR 1100   | 12 | 9.   | 4.80   | * | 2 APR 2100 | 46 | 248. | 132.97 | * | 4 APR 0700 | 80  | 528. | 280.72 |
| 1 APR 1200   | 13 | 12.  | 6.57   | * | 2 APR 2200 | 47 | 252. | 135.18 | * | 4 APR 0800 | 81  | 528. | 280.90 |
| 1 APR 1300   | 14 | 16.  | 8.80   | * | 2 APR 2300 | 48 | 257. | 137.59 | * | 4 APR 0900 | 82  | 528. | 280.85 |
| 1 APR 1400   | 15 | 22.  | 11.54  | * | 3 APR 0000 | 49 | 262. | 140.24 | * | 4 APR 1000 | 83  | 528. | 280.61 |
| 1 APR 1500   | 16 | 28.  | 14.85  | * | 3 APR 0100 | 50 | 267. | 143.17 | * | 4 APR 1100 | 84  | 527. | 280.22 |
| 1 APR 1600   | 17 | 35.  | 18.81  | * | 3 APR 0200 | 51 | 273. | 146.42 | * | 4 APR 1200 | 85  | 526. | 279.71 |
| 1 APR 1700   | 18 | 44.  | 23.42  | * | 3 APR 0300 | 52 | 280. | 150.02 | * | 4 APR 1300 | 86  | 525. | 279.11 |
| 1 APR 1800   | 19 | 53.  | 28.62  | * | 3 APR 0400 | 53 | 287. | 153.99 | * | 4 APR 1400 | 87  | 523. | 278.44 |
| 1 APR 1900   | 20 | 64.  | 34.29  | * | 3 APR 0500 | 54 | 295. | 158.37 | * | 4 APR 1500 | 88  | 521. | 277.72 |
| 1 APR 2000   | 21 | 75.  | 40.26  | * | 3 APR 0600 | 55 | 304. | 163.16 | * | 4 APR 1600 | 89  | 520. | 276.97 |
| 1 APR 2100   | 22 | 87.  | 46.39  | * | 3 APR 0700 | 56 | 314. | 168.38 | * | 4 APR 1700 | 90  | 518. | 276.20 |
| 1 APR 2200   | 23 | 98.  | 52.57  | * | 3 APR 0800 | 57 | 325. | 173.99 | * | 4 APR 1800 | 91  | 516. | 275.42 |
| 1 APR 2300   | 24 | 110. | 58.72  | * | 3 APR 0900 | 58 | 336. | 179.98 | * | 4 APR 1900 | 92  | 515. | 274.64 |
| 2 APR 0000   | 25 | 121. | 64.77  | * | 3 APR 1000 | 59 | 348. | 186.30 | * | 4 APR 2000 | 93  | 513. | 273.86 |
| 2 APR 0100   | 26 | 132. | 70.66  | * | 3 APR 1100 | 60 | 360. | 192.90 | * | 4 APR 2100 | 94  | 511. | 273.10 |
| 2 APR 0200   | 27 | 142. | 76.35  | * | 3 APR 1200 | 61 | 373. | 199.69 | * | 4 APR 2200 | 95  | 510. | 272.36 |
| 2 APR 0300   | 28 | 153. | 81.77  | * | 3 APR 1300 | 62 | 385. | 206.61 | * | 4 APR 2300 | 96  | 508. | 271.63 |
| 2 APR 0400   | 29 | 162. | 86.91  | * | 3 APR 1400 | 63 | 398. | 213.54 | * | 5 APR 0000 | 97  | 506. | 270.93 |
| 2 APR 0500   | 30 | 171. | 91.71  | * | 3 APR 1500 | 64 | 411. | 220.42 | * | 5 APR 0100 | 98  | 505. | 270.25 |
| 2 APR 0600   | 31 | 179. | 96.16  | * | 3 APR 1600 | 65 | 424. | 227.16 | * | 5 APR 0200 | 99  | 503. | 269.59 |
| 2 APR 0700   | 32 | 187. | 100.25 | * | 3 APR 1700 | 66 | 436. | 233.75 | * | 5 APR 0300 | 100 | 502. | 268.94 |
| 2 APR 0800   | 33 | 194. | 103.97 | * | 3 APR 1800 | 67 | 448. | 240.10 | * |            |     |      |        |
| 2 APR 0900   | 34 | 200. | 107.35 | * | 3 APR 1900 | 68 | 459. | 246.13 | * |            |     |      |        |
|              |    |      |        | * |            |    |      |        | * |            |     |      |        |

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| PEAK FLOW | TIME  | MAXIMUM AVERAGE FLOW |      |       |       |          |
|-----------|-------|----------------------|------|-------|-------|----------|
| +         | (CFS) | (HR)                 | 6-HR | 24-HR | 72-HR | 99.00-HR |
|           |       | (CFS)                |      |       |       |          |
| +         | 528.  | 80.00                | 528. | 520.  | 383.  | 290.     |
|           |       | (INCHES)             | .012 | .047  | .103  | .108     |
|           |       | (AC-FT)              | 262. | 1031. | 2279. | 2373.    |

| PEAK STORAGE | TIME    | MAXIMUM AVERAGE STORAGE |       |       |          |
|--------------|---------|-------------------------|-------|-------|----------|
|              |         | 6-HR                    | 24-HR | 72-HR | 99.00-HR |
| +            | (AC-FT) |                         |       |       |          |
|              | 281.    | 80.00                   |       |       |          |
|              |         | 281.                    | 277.  | 205.  | 155.     |

CUMULATIVE AREA = 413.00 SQ MI

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

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 \* \*  
 301 KK 13 SUBAREA 13  
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 NUEVO(40% MOUNTAIN)  
 COMBINE AT THE D/S OF RAMONA EXPWY PER CDJ

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

# SUBBASIN RUNOFF DATA

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

# PRECIPITATION DATA

305 PB STORM .26 BASIN TOTAL PRECIPITATION

307 PI INCREMENTAL PRECIPITATION PATTERN  

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .01 | .01 | .02 | .02 | .03 | .03 | .04 | .05 | .07 |
| .08 | .08 | .08 | .12 | .10 | .10 | .06 | .02 | .02 | .01 |
| .01 | .01 | .01 | .01 | .01 | .00 |     |     |     |     |

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

317 UI INPUT UNITGRAPH, 23 ORDINATES, VOLUME = 1.00  

|        |        |        |        |       |       |       |       |       |       |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 4499.0 | 4599.0 | 1816.0 | 1212.0 | 853.0 | 658.0 | 484.0 | 397.0 | 348.0 | 306.0 |
| 266.0  | 231.0  | 191.0  | 160.0  | 139.0 | 121.0 | 50.0  | 50.0  | 50.0  | 50.0  |
| 50.5   | 50.5   | 19.0   |        |       |       |       |       |       |       |

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SJR\_5-yr.out  
HYDROGRAPH AT STATION 13

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 4.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 19.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 34.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 47.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 62.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 77.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 95.    | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 115.   | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 146.   | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 189.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 230.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 254.   | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .02  | .00  | .02    | 276.   | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 339.   | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 379.   | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .03  | .00  | .03    | 382.   | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .02  | .00  | .02    | 340.   | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .00  | .00  | .00    | 247.   | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 184.   | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 152.   | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 128.   | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 112.   | * | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 99.    | * | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0000 | 25  | .00  | .00  | .00    | 88.    | * | 4  | APR | 0200 | 75  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0100 | 26  | .00  | .00  | .00    | 75.    | * | 4  | APR | 0300 | 76  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0200 | 27  | .00  | .00  | .00    | 58.    | * | 4  | APR | 0400 | 77  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0300 | 28  | .00  | .00  | .00    | 44.    | * | 4  | APR | 0500 | 78  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0400 | 29  | .00  | .00  | .00    | 36.    | * | 4  | APR | 0600 | 79  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0500 | 30  | .00  | .00  | .00    | 29.    | * | 4  | APR | 0700 | 80  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0600 | 31  | .00  | .00  | .00    | 23.    | * | 4  | APR | 0800 | 81  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0700 | 32  | .00  | .00  | .00    | 19.    | * | 4  | APR | 0900 | 82  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0800 | 33  | .00  | .00  | .00    | 15.    | * | 4  | APR | 1000 | 83  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0900 | 34  | .00  | .00  | .00    | 12.    | * | 4  | APR | 1100 | 84  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1000 | 35  | .00  | .00  | .00    | 10.    | * | 4  | APR | 1200 | 85  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1100 | 36  | .00  | .00  | .00    | 8.     | * | 4  | APR | 1300 | 86  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1200 | 37  | .00  | .00  | .00    | 7.     | * | 4  | APR | 1400 | 87  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1300 | 38  | .00  | .00  | .00    | 5.     | * | 4  | APR | 1500 | 88  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1400 | 39  | .00  | .00  | .00    | 3.     | * | 4  | APR | 1600 | 89  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1500 | 40  | .00  | .00  | .00    | 2.     | * | 4  | APR | 1700 | 90  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1600 | 41  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1800 | 91  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1700 | 42  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1900 | 92  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1800 | 43  | .00  | .00  | .00    | 1.     | * | 4  | APR | 2000 | 93  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1900 | 44  | .00  | .00  | .00    | 1.     | * | 4  | APR | 2100 | 94  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2000 | 45  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2200 | 95  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2100 | 46  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2300 | 96  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |    |   |              |     |     |     |     |    |  |
|------------|----|-----|-----|-----|----|---|--------------|-----|-----|-----|-----|----|--|
|            |    |     |     |     |    |   | SJR_5-yr.out |     |     |     |     |    |  |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0. | * | 5 APR 0000   | 97  | .00 | .00 | .00 | 0. |  |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0. | * | 5 APR 0100   | 98  | .00 | .00 | .00 | 0. |  |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0. | * | 5 APR 0200   | 99  | .00 | .00 | .00 | 0. |  |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0. | * | 5 APR 0300   | 100 | .00 | .00 | .00 | 0. |  |
|            |    |     |     |     |    |   |              |     |     |     |     |    |  |

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TOTAL RAINFALL = .26, TOTAL LOSS = .00, TOTAL EXCESS = .26

|           |       |          |                      |       |       |          |
|-----------|-------|----------|----------------------|-------|-------|----------|
| PEAK FLOW |       | TIME     | MAXIMUM AVERAGE FLOW |       |       |          |
|           |       |          | 6-HR                 | 24-HR | 72-HR | 99.00-HR |
| +         | (CFS) | (HR)     |                      |       |       |          |
| +         | 382.  | 16.00    | (CFS)                |       |       |          |
|           |       |          | 328.                 | 171.  | 60.   | 44.      |
|           |       | (INCHES) | .118                 | .248  | .262  | .262     |
|           |       | (AC-FT)  | 163.                 | 340.  | 359.  | 359.     |

CUMULATIVE AREA = 25.74 SQ MI

HYDROGRAPH MULTIPLIED BY .40

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HYDROGRAPH AT STATION 13

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|    |     |      |     |      |   |    |     |      |     |      |   |    |     |      |     |      |   |    |     |      |     |      |   |
|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 30.  | * | 3  | APR | 0200 | 51  | 0.   | * | 4  | APR | 0300 | 76  | 0.   | * |
| 1  | APR | 0100 | 2   | 1.   | * | 2  | APR | 0200 | 27  | 23.  | * | 3  | APR | 0300 | 52  | 0.   | * | 4  | APR | 0400 | 77  | 0.   | * |
| 1  | APR | 0200 | 3   | 8.   | * | 2  | APR | 0300 | 28  | 18.  | * | 3  | APR | 0400 | 53  | 0.   | * | 4  | APR | 0500 | 78  | 0.   | * |
| 1  | APR | 0300 | 4   | 14.  | * | 2  | APR | 0400 | 29  | 14.  | * | 3  | APR | 0500 | 54  | 0.   | * | 4  | APR | 0600 | 79  | 0.   | * |
| 1  | APR | 0400 | 5   | 19.  | * | 2  | APR | 0500 | 30  | 12.  | * | 3  | APR | 0600 | 55  | 0.   | * | 4  | APR | 0700 | 80  | 0.   | * |
| 1  | APR | 0500 | 6   | 25.  | * | 2  | APR | 0600 | 31  | 9.   | * | 3  | APR | 0700 | 56  | 0.   | * | 4  | APR | 0800 | 81  | 0.   | * |
| 1  | APR | 0600 | 7   | 31.  | * | 2  | APR | 0700 | 32  | 8.   | * | 3  | APR | 0800 | 57  | 0.   | * | 4  | APR | 0900 | 82  | 0.   | * |
| 1  | APR | 0700 | 8   | 38.  | * | 2  | APR | 0800 | 33  | 6.   | * | 3  | APR | 0900 | 58  | 0.   | * | 4  | APR | 1000 | 83  | 0.   | * |
| 1  | APR | 0800 | 9   | 46.  | * | 2  | APR | 0900 | 34  | 5.   | * | 3  | APR | 1000 | 59  | 0.   | * | 4  | APR | 1100 | 84  | 0.   | * |
| 1  | APR | 0900 | 10  | 58.  | * | 2  | APR | 1000 | 35  | 4.   | * | 3  | APR | 1100 | 60  | 0.   | * | 4  | APR | 1200 | 85  | 0.   | * |
| 1  | APR | 1000 | 11  | 76.  | * | 2  | APR | 1100 | 36  | 3.   | * | 3  | APR | 1200 | 61  | 0.   | * | 4  | APR | 1300 | 86  | 0.   | * |
| 1  | APR | 1100 | 12  | 92.  | * | 2  | APR | 1200 | 37  | 3.   | * | 3  | APR | 1300 | 62  | 0.   | * | 4  | APR | 1400 | 87  | 0.   | * |
| 1  | APR | 1200 | 13  | 102. | * | 2  | APR | 1300 | 38  | 2.   | * | 3  | APR | 1400 | 63  | 0.   | * | 4  | APR | 1500 | 88  | 0.   | * |
| 1  | APR | 1300 | 14  | 110. | * | 2  | APR | 1400 | 39  | 1.   | * | 3  | APR | 1500 | 64  | 0.   | * | 4  | APR | 1600 | 89  | 0.   | * |
| 1  | APR | 1400 | 15  | 136. | * | 2  | APR | 1500 | 40  | 1.   | * | 3  | APR | 1600 | 65  | 0.   | * | 4  | APR | 1700 | 90  | 0.   | * |
| 1  | APR | 1500 | 16  | 152. | * | 2  | APR | 1600 | 41  | 0.   | * | 3  | APR | 1700 | 66  | 0.   | * | 4  | APR | 1800 | 91  | 0.   | * |
| 1  | APR | 1600 | 17  | 153. | * | 2  | APR | 1700 | 42  | 0.   | * | 3  | APR | 1800 | 67  | 0.   | * | 4  | APR | 1900 | 92  | 0.   | * |
| 1  | APR | 1700 | 18  | 136. | * | 2  | APR | 1800 | 43  | 0.   | * | 3  | APR | 1900 | 68  | 0.   | * | 4  | APR | 2000 | 93  | 0.   | * |
| 1  | APR | 1800 | 19  | 99.  | * | 2  | APR | 1900 | 44  | 0.   | * | 3  | APR | 2000 | 69  | 0.   | * | 4  | APR | 2100 | 94  | 0.   | * |
| 1  | APR | 1900 | 20  | 74.  | * | 2  | APR | 2000 | 45  | 0.   | * | 3  | APR | 2100 | 70  | 0.   | * | 4  | APR | 2200 | 95  | 0.   | * |
| 1  | APR | 2000 | 21  | 61.  | * | 2  | APR | 2100 | 46  | 0.   | * | 3  | APR | 2200 | 71  | 0.   | * | 4  | APR | 2300 | 96  | 0.   | * |
| 1  | APR | 2100 | 22  | 51.  | * | 2  | APR | 2200 | 47  | 0.   | * | 3  | APR | 2300 | 72  | 0.   | * | 5  | APR | 0000 | 97  | 0.   | * |

|            |    |     |   |            |    |    |   |            |    |              |   |            |     |    |  |  |  |  |  |
|------------|----|-----|---|------------|----|----|---|------------|----|--------------|---|------------|-----|----|--|--|--|--|--|
|            |    |     |   |            |    |    |   |            |    | SJR_5-yr.out |   |            |     |    |  |  |  |  |  |
| 1 APR 2200 | 23 | 45. | * | 2 APR 2300 | 48 | 0. | * | 4 APR 0000 | 73 | 0.           | * | 5 APR 0100 | 98  | 0. |  |  |  |  |  |
| 1 APR 2300 | 24 | 40. | * | 3 APR 0000 | 49 | 0. | * | 4 APR 0100 | 74 | 0.           | * | 5 APR 0200 | 99  | 0. |  |  |  |  |  |
| 2 APR 0000 | 25 | 35. | * | 3 APR 0100 | 50 | 0. | * | 4 APR 0200 | 75 | 0.           | * | 5 APR 0300 | 100 | 0. |  |  |  |  |  |
|            |    |     | * |            |    |    | * |            |    |              | * |            |     |    |  |  |  |  |  |

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| PEAK FLOW         | TIME  |          | 6-HR        | 24-HR | 72-HR | 99.00-HR |
|-------------------|-------|----------|-------------|-------|-------|----------|
| +                 | (CFS) | (HR)     |             |       |       |          |
|                   |       | (CFS)    |             |       |       |          |
| +                 | 153.  | 16.00    | 131.        | 69.   | 24.   | 18.      |
|                   |       | (INCHES) | .047        | .099  | .105  | .105     |
|                   |       | (AC-FT)  | 65.         | 136.  | 144.  | 144.     |
| CUMULATIVE AREA = |       |          | 25.74 SQ MI |       |       |          |

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322 KK      13      SUBAREA 13

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

327 IN      TIME DATA FOR INPUT TIME SERIES

          JXMIN      15      TIME INTERVAL IN MINUTES

          JXDATE      1APR92      STARTING DATE

          JXTIME      20      STARTING TIME

          UHG FROM VALLEY S-GRAPH

#### SUBBASIN RUNOFF DATA

325 BA      SUBBASIN CHARACTERISTICS

          TAREA      25.74      SUBBASIN AREA

          SNAP      .00      NORMAL ANNUAL PRECIPITATION

          RATIO      .60      RATIO OF HYDROGRAPH

#### PRECIPITATION DATA

326 PB      STORM      .26      BASIN TOTAL PRECIPITATION

328 PI      INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .01 | .01 | .02 | .02 | .03 | .03 | .04 | .05 | .07 |
| .08 | .08 | .08 | .12 | .10 | .10 | .06 | .02 | .02 | .01 |
| .01 | .01 | .01 | .01 | .01 | .00 |     |     |     |     |

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

338 UI            INPUT UNITGRAPH, 15 ORDINATES, VOLUME = 1.00  
                  3331.0    6377.0    2585.0    1309.0    803.0    580.0    416.0    326.0    259.0    187.0  
                  141.0       92.0       92.0       92.0       11.0

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## HYDROGRAPH AT STATION       13

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 3.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 16.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 36.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 51.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 67.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 84.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 103.   | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 124.   | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 154.   | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 199.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 247.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 279.   | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .02  | .00  | .02    | 298.   | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 351.   | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 413.   | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .03  | .00  | .03    | 417.   | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .02  | .00  | .02    | 381.   | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .00  | .00  | .00    | 278.   | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 183.   | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 142.   | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 113.   | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 95.    | * | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 81.    | * | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0000 | 25  | .00  | .00  | .00    | 69.    | * | 4  | APR | 0200 | 75  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0100 | 26  | .00  | .00  | .00    | 56.    | * | 4  | APR | 0300 | 76  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0200 | 27  | .00  | .00  | .00    | 40.    | * | 4  | APR | 0400 | 77  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0300 | 28  | .00  | .00  | .00    | 25.    | * | 4  | APR | 0500 | 78  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0400 | 29  | .00  | .00  | .00    | 16.    | * | 4  | APR | 0600 | 79  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0500 | 30  | .00  | .00  | .00    | 11.    | * | 4  | APR | 0700 | 80  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0600 | 31  | .00  | .00  | .00    | 7.     | * | 4  | APR | 0800 | 81  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0700 | 32  | .00  | .00  | .00    | 4.     | * | 4  | APR | 0900 | 82  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0800 | 33  | .00  | .00  | .00    | 3.     | * | 4  | APR | 1000 | 83  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |    | SJR_5-yr.out |            |     |     |     |     |    |
|------------|----|-----|-----|-----|----|--------------|------------|-----|-----|-----|-----|----|
| 2 APR 0900 | 34 | .00 | .00 | .00 | 2. | *            | 4 APR 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 1. | *            | 4 APR 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 1. | *            | 4 APR 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 1. | *            | 4 APR 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 0. | *            | 4 APR 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0. | *            | 4 APR 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0. | *            | 4 APR 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0. | *            | 4 APR 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0. | *            | 4 APR 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0. | *            | 4 APR 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0. | *            | 4 APR 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0. | *            | 4 APR 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0. | *            | 4 APR 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0. | *            | 5 APR 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0. | *            | 5 APR 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0. | *            | 5 APR 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0. | *            | 5 APR 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .26, TOTAL LOSS = .00, TOTAL EXCESS = .26

| PEAK FLOW | TIME |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|------|----------|------|-------|-------|----------|
| (CFS)     | (HR) | (CFS)    |      |       |       |          |
| +         | 417. | 16.00    | 357. | 177.  | 60.   | 44.      |
|           |      | (INCHES) | .129 | .256  | .262  | .262     |
|           |      | (AC-FT)  | 177. | 352.  | 359.  | 359.     |

CUMULATIVE AREA = 25.74 SQ MI

HYDROGRAPH MULTIPLIED BY .60

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HYDROGRAPH AT STATION 13

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| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 33.  | * | 3  | APR | 0200 | 51  | 0.   | * | 4  | APR | 0300 | 76  | 0.   |   |
| 1  | APR | 0100 | 2   | 2.   | * | 2  | APR | 0200 | 27  | 24.  | * | 3  | APR | 0300 | 52  | 0.   | * | 4  | APR | 0400 | 77  | 0.   |   |
| 1  | APR | 0200 | 3   | 10.  | * | 2  | APR | 0300 | 28  | 15.  | * | 3  | APR | 0400 | 53  | 0.   | * | 4  | APR | 0500 | 78  | 0.   |   |
| 1  | APR | 0300 | 4   | 22.  | * | 2  | APR | 0400 | 29  | 10.  | * | 3  | APR | 0500 | 54  | 0.   | * | 4  | APR | 0600 | 79  | 0.   |   |
| 1  | APR | 0400 | 5   | 30.  | * | 2  | APR | 0500 | 30  | 7.   | * | 3  | APR | 0600 | 55  | 0.   | * | 4  | APR | 0700 | 80  | 0.   |   |
| 1  | APR | 0500 | 6   | 40.  | * | 2  | APR | 0600 | 31  | 4.   | * | 3  | APR | 0700 | 56  | 0.   | * | 4  | APR | 0800 | 81  | 0.   |   |
| 1  | APR | 0600 | 7   | 50.  | * | 2  | APR | 0700 | 32  | 2.   | * | 3  | APR | 0800 | 57  | 0.   | * | 4  | APR | 0900 | 82  | 0.   |   |
| 1  | APR | 0700 | 8   | 62.  | * | 2  | APR | 0800 | 33  | 2.   | * | 3  | APR | 0900 | 58  | 0.   | * | 4  | APR | 1000 | 83  | 0.   |   |
| 1  | APR | 0800 | 9   | 74.  | * | 2  | APR | 0900 | 34  | 1.   | * | 3  | APR | 1000 | 59  | 0.   | * | 4  | APR | 1100 | 84  | 0.   |   |

| SJR_5-yr.out |    |      |   |            |    |    |   |            |    |    |   |            |     |    |
|--------------|----|------|---|------------|----|----|---|------------|----|----|---|------------|-----|----|
| 1 APR 0900   | 10 | 93.  | * | 2 APR 1000 | 35 | 1. | * | 3 APR 1100 | 60 | 0. | * | 4 APR 1200 | 85  | 0. |
| 1 APR 1000   | 11 | 119. | * | 2 APR 1100 | 36 | 1. | * | 3 APR 1200 | 61 | 0. | * | 4 APR 1300 | 86  | 0. |
| 1 APR 1100   | 12 | 148. | * | 2 APR 1200 | 37 | 0. | * | 3 APR 1300 | 62 | 0. | * | 4 APR 1400 | 87  | 0. |
| 1 APR 1200   | 13 | 167. | * | 2 APR 1300 | 38 | 0. | * | 3 APR 1400 | 63 | 0. | * | 4 APR 1500 | 88  | 0. |
| 1 APR 1300   | 14 | 179. | * | 2 APR 1400 | 39 | 0. | * | 3 APR 1500 | 64 | 0. | * | 4 APR 1600 | 89  | 0. |
| 1 APR 1400   | 15 | 211. | * | 2 APR 1500 | 40 | 0. | * | 3 APR 1600 | 65 | 0. | * | 4 APR 1700 | 90  | 0. |
| 1 APR 1500   | 16 | 248. | * | 2 APR 1600 | 41 | 0. | * | 3 APR 1700 | 66 | 0. | * | 4 APR 1800 | 91  | 0. |
| 1 APR 1600   | 17 | 250. | * | 2 APR 1700 | 42 | 0. | * | 3 APR 1800 | 67 | 0. | * | 4 APR 1900 | 92  | 0. |
| 1 APR 1700   | 18 | 229. | * | 2 APR 1800 | 43 | 0. | * | 3 APR 1900 | 68 | 0. | * | 4 APR 2000 | 93  | 0. |
| 1 APR 1800   | 19 | 167. | * | 2 APR 1900 | 44 | 0. | * | 3 APR 2000 | 69 | 0. | * | 4 APR 2100 | 94  | 0. |
| 1 APR 1900   | 20 | 110. | * | 2 APR 2000 | 45 | 0. | * | 3 APR 2100 | 70 | 0. | * | 4 APR 2200 | 95  | 0. |
| 1 APR 2000   | 21 | 85.  | * | 2 APR 2100 | 46 | 0. | * | 3 APR 2200 | 71 | 0. | * | 4 APR 2300 | 96  | 0. |
| 1 APR 2100   | 22 | 68.  | * | 2 APR 2200 | 47 | 0. | * | 3 APR 2300 | 72 | 0. | * | 5 APR 0000 | 97  | 0. |
| 1 APR 2200   | 23 | 57.  | * | 2 APR 2300 | 48 | 0. | * | 4 APR 0000 | 73 | 0. | * | 5 APR 0100 | 98  | 0. |
| 1 APR 2300   | 24 | 49.  | * | 3 APR 0000 | 49 | 0. | * | 4 APR 0100 | 74 | 0. | * | 5 APR 0200 | 99  | 0. |
| 2 APR 0000   | 25 | 41.  | * | 3 APR 0100 | 50 | 0. | * | 4 APR 0200 | 75 | 0. | * | 5 APR 0300 | 100 | 0. |

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| PEAK FLOW         | TIME  |          | 6-HR        | MAXIMUM AVERAGE FLOW | 24-HR | 72-HR | 99.00-HR |
|-------------------|-------|----------|-------------|----------------------|-------|-------|----------|
| +                 | (CFS) | (HR)     |             |                      |       |       |          |
| +                 | 250.  | 16.00    |             |                      |       |       |          |
|                   |       | (CFS)    | 214.        | 106.                 | 36.   | 26.   |          |
|                   |       | (INCHES) | .077        | .154                 | .157  | .157  |          |
|                   |       | (AC-FT)  | 106.        | 211.                 | 216.  | 216.  |          |
| CUMULATIVE AREA = |       |          | 25.74 SQ MI |                      |       |       |          |

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342 KK \*\*\*\*\*  
 \* \*  
 \* NUEVDS \*  
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COMBINE THE SAN JACINTO RIVER WITH SUBAREAS 12&13

344 HC HYDROGRAPH COMBINATION  
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION NUEVDS  
 SUM OF 3 HYDROGRAPHS

SJR\_5-yr.out

| ***** |     |      |     |      |   |    |     |      |     |      |   |    |     |      |     |      |   |    |     |      |     |      |
|-------|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|
| DA    | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW |
| 1     | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 195. | * | 3  | APR | 0200 | 51  | 273. | * | 4  | APR | 0300 | 76  | 520. |
| 1     | APR | 0100 | 2   | 3.   | * | 2  | APR | 0200 | 27  | 190. | * | 3  | APR | 0300 | 52  | 280. | * | 4  | APR | 0400 | 77  | 523. |
| 1     | APR | 0200 | 3   | 17.  | * | 2  | APR | 0300 | 28  | 185. | * | 3  | APR | 0400 | 53  | 287. | * | 4  | APR | 0500 | 78  | 525. |
| 1     | APR | 0300 | 4   | 35.  | * | 2  | APR | 0400 | 29  | 186. | * | 3  | APR | 0500 | 54  | 295. | * | 4  | APR | 0600 | 79  | 527. |
| 1     | APR | 0400 | 5   | 50.  | * | 2  | APR | 0500 | 30  | 189. | * | 3  | APR | 0600 | 55  | 304. | * | 4  | APR | 0700 | 80  | 528. |
| 1     | APR | 0500 | 6   | 65.  | * | 2  | APR | 0600 | 31  | 193. | * | 3  | APR | 0700 | 56  | 314. | * | 4  | APR | 0800 | 81  | 528. |
| 1     | APR | 0600 | 7   | 82.  | * | 2  | APR | 0700 | 32  | 197. | * | 3  | APR | 0800 | 57  | 325. | * | 4  | APR | 0900 | 82  | 528. |
| 1     | APR | 0700 | 8   | 101. | * | 2  | APR | 0800 | 33  | 202. | * | 3  | APR | 0900 | 58  | 336. | * | 4  | APR | 1000 | 83  | 528. |
| 1     | APR | 0800 | 9   | 123. | * | 2  | APR | 0900 | 34  | 206. | * | 3  | APR | 1000 | 59  | 348. | * | 4  | APR | 1100 | 84  | 527. |
| 1     | APR | 0900 | 10  | 155. | * | 2  | APR | 1000 | 35  | 211. | * | 3  | APR | 1100 | 60  | 360. | * | 4  | APR | 1200 | 85  | 526. |
| 1     | APR | 1000 | 11  | 201. | * | 2  | APR | 1100 | 36  | 215. | * | 3  | APR | 1200 | 61  | 373. | * | 4  | APR | 1300 | 86  | 525. |
| 1     | APR | 1100 | 12  | 249. | * | 2  | APR | 1200 | 37  | 219. | * | 3  | APR | 1300 | 62  | 385. | * | 4  | APR | 1400 | 87  | 523. |
| 1     | APR | 1200 | 13  | 281. | * | 2  | APR | 1300 | 38  | 222. | * | 3  | APR | 1400 | 63  | 398. | * | 4  | APR | 1500 | 88  | 521. |
| 1     | APR | 1300 | 14  | 306. | * | 2  | APR | 1400 | 39  | 225. | * | 3  | APR | 1500 | 64  | 411. | * | 4  | APR | 1600 | 89  | 520. |
| 1     | APR | 1400 | 15  | 368. | * | 2  | APR | 1500 | 40  | 228. | * | 3  | APR | 1600 | 65  | 424. | * | 4  | APR | 1700 | 90  | 518. |
| 1     | APR | 1500 | 16  | 427. | * | 2  | APR | 1600 | 41  | 231. | * | 3  | APR | 1700 | 66  | 436. | * | 4  | APR | 1800 | 91  | 516. |
| 1     | APR | 1600 | 17  | 438. | * | 2  | APR | 1700 | 42  | 234. | * | 3  | APR | 1800 | 67  | 448. | * | 4  | APR | 1900 | 92  | 515. |
| 1     | APR | 1700 | 18  | 408. | * | 2  | APR | 1800 | 43  | 238. | * | 3  | APR | 1900 | 68  | 459. | * | 4  | APR | 2000 | 93  | 513. |
| 1     | APR | 1800 | 19  | 319. | * | 2  | APR | 1900 | 44  | 241. | * | 3  | APR | 2000 | 69  | 470. | * | 4  | APR | 2100 | 94  | 511. |
| 1     | APR | 1900 | 20  | 248. | * | 2  | APR | 2000 | 45  | 244. | * | 3  | APR | 2100 | 70  | 479. | * | 4  | APR | 2200 | 95  | 510. |
| 1     | APR | 2000 | 21  | 221. | * | 2  | APR | 2100 | 46  | 248. | * | 3  | APR | 2200 | 71  | 488. | * | 4  | APR | 2300 | 96  | 508. |
| 1     | APR | 2100 | 22  | 205. | * | 2  | APR | 2200 | 47  | 252. | * | 3  | APR | 2300 | 72  | 496. | * | 5  | APR | 0000 | 97  | 506. |
| 1     | APR | 2200 | 23  | 200. | * | 2  | APR | 2300 | 48  | 257. | * | 4  | APR | 0000 | 73  | 503. | * | 5  | APR | 0100 | 98  | 505. |
| 1     | APR | 2300 | 24  | 198. | * | 3  | APR | 0000 | 49  | 262. | * | 4  | APR | 0100 | 74  | 510. | * | 5  | APR | 0200 | 99  | 503. |
| 2     | APR | 0000 | 25  | 197. | * | 3  | APR | 0100 | 50  | 267. | * | 4  | APR | 0200 | 75  | 515. | * | 5  | APR | 0300 | 100 | 502. |
| ***** |     |      |     |      |   |    |     |      |     |      |   |    |     |      |     |      |   |    |     |      |     |      |

| PEAK FLOW | TIME  | MAXIMUM AVERAGE FLOW |          |       |       |          |       |
|-----------|-------|----------------------|----------|-------|-------|----------|-------|
| +         | (CFS) | (HR)                 | 6-HR     | 24-HR | 72-HR | 99.00-HR |       |
| +         | 528.  | 80.00                | (CFS)    | 528.  | 520.  | 384.     | 334.  |
|           |       |                      | (INCHES) | .011  | .042  | .092     | .110  |
|           |       |                      | (AC-FT)  | 262.  | 1031. | 2288.    | 2732. |

CUMULATIVE AREA = 464.48 SQ MI

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345 KK 14 SUBAREA 14

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PERRIS VALLEY

1

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

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

SUBBASIN RUNOFF DATA

355 BA SUBBASIN CHARACTERISTICS  
TAREA 9.03 SUBBASIN AREA

PRECIPITATION DATA

356 PB STORM .24 BASIN TOTAL PRECIPITATION

358 PI INCREMENTAL PRECIPITATION PATTERN  
.00 .01 .01 .02 .02 .03 .03 .04 .05 .07  
.08 .07 .08 .11 .11 .10 .07 .01 .02 .01  
.01 .01 .01 .01 .01 .00

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

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

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HYDROGRAPH AT STATION 14

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 2.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 12.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |      | SJR_5-yr.out |            |     |     |     |     |    |
|------------|----|-----|-----|-----|------|--------------|------------|-----|-----|-----|-----|----|
| 1 APR 0300 | 4  | .00 | .00 | .00 | 16.  | *            | 3 APR 0500 | 54  | .00 | .00 | .00 | 0. |
| 1 APR 0400 | 5  | .00 | .00 | .00 | 23.  | *            | 3 APR 0600 | 55  | .00 | .00 | .00 | 0. |
| 1 APR 0500 | 6  | .01 | .00 | .01 | 28.  | *            | 3 APR 0700 | 56  | .00 | .00 | .00 | 0. |
| 1 APR 0600 | 7  | .01 | .00 | .01 | 35.  | *            | 3 APR 0800 | 57  | .00 | .00 | .00 | 0. |
| 1 APR 0700 | 8  | .01 | .00 | .01 | 40.  | *            | 3 APR 0900 | 58  | .00 | .00 | .00 | 0. |
| 1 APR 0800 | 9  | .01 | .00 | .01 | 50.  | *            | 3 APR 1000 | 59  | .00 | .00 | .00 | 0. |
| 1 APR 0900 | 10 | .01 | .00 | .01 | 63.  | *            | 3 APR 1100 | 60  | .00 | .00 | .00 | 0. |
| 1 APR 1000 | 11 | .02 | .00 | .02 | 83.  | *            | 3 APR 1200 | 61  | .00 | .00 | .00 | 0. |
| 1 APR 1100 | 12 | .02 | .00 | .02 | 101. | *            | 3 APR 1300 | 62  | .00 | .00 | .00 | 0. |
| 1 APR 1200 | 13 | .02 | .00 | .02 | 101. | *            | 3 APR 1400 | 63  | .00 | .00 | .00 | 0. |
| 1 APR 1300 | 14 | .02 | .00 | .02 | 106. | *            | 3 APR 1500 | 64  | .00 | .00 | .00 | 0. |
| 1 APR 1400 | 15 | .03 | .00 | .03 | 143. | *            | 3 APR 1600 | 65  | .00 | .00 | .00 | 0. |
| 1 APR 1500 | 16 | .03 | .00 | .03 | 149. | *            | 3 APR 1700 | 66  | .00 | .00 | .00 | 0. |
| 1 APR 1600 | 17 | .02 | .00 | .02 | 145. | *            | 3 APR 1800 | 67  | .00 | .00 | .00 | 0. |
| 1 APR 1700 | 18 | .02 | .00 | .02 | 116. | *            | 3 APR 1900 | 68  | .00 | .00 | .00 | 0. |
| 1 APR 1800 | 19 | .00 | .00 | .00 | 54.  | *            | 3 APR 2000 | 69  | .00 | .00 | .00 | 0. |
| 1 APR 1900 | 20 | .00 | .00 | .00 | 38.  | *            | 3 APR 2100 | 70  | .00 | .00 | .00 | 0. |
| 1 APR 2000 | 21 | .00 | .00 | .00 | 26.  | *            | 3 APR 2200 | 71  | .00 | .00 | .00 | 0. |
| 1 APR 2100 | 22 | .00 | .00 | .00 | 21.  | *            | 3 APR 2300 | 72  | .00 | .00 | .00 | 0. |
| 1 APR 2200 | 23 | .00 | .00 | .00 | 17.  | *            | 4 APR 0000 | 73  | .00 | .00 | .00 | 0. |
| 1 APR 2300 | 24 | .00 | .00 | .00 | 15.  | *            | 4 APR 0100 | 74  | .00 | .00 | .00 | 0. |
| 2 APR 0000 | 25 | .00 | .00 | .00 | 13.  | *            | 4 APR 0200 | 75  | .00 | .00 | .00 | 0. |
| 2 APR 0100 | 26 | .00 | .00 | .00 | 11.  | *            | 4 APR 0300 | 76  | .00 | .00 | .00 | 0. |
| 2 APR 0200 | 27 | .00 | .00 | .00 | 4.   | *            | 4 APR 0400 | 77  | .00 | .00 | .00 | 0. |
| 2 APR 0300 | 28 | .00 | .00 | .00 | 2.   | *            | 4 APR 0500 | 78  | .00 | .00 | .00 | 0. |
| 2 APR 0400 | 29 | .00 | .00 | .00 | 1.   | *            | 4 APR 0600 | 79  | .00 | .00 | .00 | 0. |
| 2 APR 0500 | 30 | .00 | .00 | .00 | 0.   | *            | 4 APR 0700 | 80  | .00 | .00 | .00 | 0. |
| 2 APR 0600 | 31 | .00 | .00 | .00 | 0.   | *            | 4 APR 0800 | 81  | .00 | .00 | .00 | 0. |
| 2 APR 0700 | 32 | .00 | .00 | .00 | 0.   | *            | 4 APR 0900 | 82  | .00 | .00 | .00 | 0. |
| 2 APR 0800 | 33 | .00 | .00 | .00 | 0.   | *            | 4 APR 1000 | 83  | .00 | .00 | .00 | 0. |
| 2 APR 0900 | 34 | .00 | .00 | .00 | 0.   | *            | 4 APR 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 0.   | *            | 4 APR 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 0.   | *            | 4 APR 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 0.   | *            | 4 APR 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 0.   | *            | 4 APR 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0.   | *            | 4 APR 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0.   | *            | 4 APR 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0.   | *            | 4 APR 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0.   | *            | 4 APR 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0.   | *            | 4 APR 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0.   | *            | 4 APR 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0.   | *            | 4 APR 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0.   | *            | 4 APR 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0.   | *            | 5 APR 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0.   | *            | 5 APR 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0.   | *            | 5 APR 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0.   | *            | 5 APR 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .24, TOTAL LOSS = .00, TOTAL EXCESS = .24

SJR\_5-yr.out

| PEAK FLOW         | TIME  |          | 6-HR       | MAXIMUM AVERAGE FLOW | 72-HR | 99.00-HR |
|-------------------|-------|----------|------------|----------------------|-------|----------|
| +                 | (CFS) | (HR)     |            | 24-HR                |       |          |
|                   |       | (CFS)    |            |                      |       |          |
| +                 | 149.  | 15.00    | 126.       | 58.                  | 20.   | 14.      |
|                   |       | (INCHES) | .129       | .241                 | .243  | .243     |
|                   |       | (AC-FT)  | 62.        | 116.                 | 117.  | 117.     |
| CUMULATIVE AREA = |       |          | 9.03 SQ MI |                      |       |          |

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366 KK \*\*\*\*\*  
 \* \*  
 \* PB \*  
 \* \*  
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# PIGEON PASS RESERVOIR ROUTING

## HYDROGRAPH ROUTING DATA

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

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## COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

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

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

SJR\_5-yr.out

THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION PB

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|    |     |      |     | OUTFLOW | STORAGE | STAGE  | * |    |     |      |     | OUTFLOW | STORAGE | STAGE  | * |    |     |      |     |
|----|-----|------|-----|---------|---------|--------|---|----|-----|------|-----|---------|---------|--------|---|----|-----|------|-----|
| DA | MON | HRMN | ORD |         |         |        | * | DA | MON | HRMN | ORD |         |         |        | * | DA | MON | HRMN | ORD |
| 1  | APR | 0000 | 1   | 0.      | .0      | 1670.0 | * | 2  | APR | 1000 | 35  | 0.      | .0      | 1670.0 | * | 3  | APR | 2000 | 69  |
| 1  | APR | 0100 | 2   | 1.      | .0      | 1670.0 | * | 2  | APR | 1100 | 36  | 0.      | .0      | 1670.0 | * | 3  | APR | 2100 | 70  |
| 1  | APR | 0200 | 3   | 6.      | .3      | 1670.1 | * | 2  | APR | 1200 | 37  | 0.      | .0      | 1670.0 | * | 3  | APR | 2200 | 71  |
| 1  | APR | 0300 | 4   | 14.     | .7      | 1670.2 | * | 2  | APR | 1300 | 38  | 0.      | .0      | 1670.0 | * | 3  | APR | 2300 | 72  |
| 1  | APR | 0400 | 5   | 19.     | 1.0     | 1670.2 | * | 2  | APR | 1400 | 39  | 0.      | .0      | 1670.0 | * | 4  | APR | 0000 | 73  |
| 1  | APR | 0500 | 6   | 25.     | 1.2     | 1670.3 | * | 2  | APR | 1500 | 40  | 0.      | .0      | 1670.0 | * | 4  | APR | 0100 | 74  |
| 1  | APR | 0600 | 7   | 31.     | 1.6     | 1670.4 | * | 2  | APR | 1600 | 41  | 0.      | .0      | 1670.0 | * | 4  | APR | 0200 | 75  |
| 1  | APR | 0700 | 8   | 37.     | 1.9     | 1670.5 | * | 2  | APR | 1700 | 42  | 0.      | .0      | 1670.0 | * | 4  | APR | 0300 | 76  |
| 1  | APR | 0800 | 9   | 44.     | 2.2     | 1670.6 | * | 2  | APR | 1800 | 43  | 0.      | .0      | 1670.0 | * | 4  | APR | 0400 | 77  |
| 1  | APR | 0900 | 10  | 55.     | 2.8     | 1670.7 | * | 2  | APR | 1900 | 44  | 0.      | .0      | 1670.0 | * | 4  | APR | 0500 | 78  |
| 1  | APR | 1000 | 11  | 71.     | 3.5     | 1670.9 | * | 2  | APR | 2000 | 45  | 0.      | .0      | 1670.0 | * | 4  | APR | 0600 | 79  |
| 1  | APR | 1100 | 12  | 81.     | 4.9     | 1671.2 | * | 2  | APR | 2100 | 46  | 0.      | .0      | 1670.0 | * | 4  | APR | 0700 | 80  |
| 1  | APR | 1200 | 13  | 82.     | 6.5     | 1671.6 | * | 2  | APR | 2200 | 47  | 0.      | .0      | 1670.0 | * | 4  | APR | 0800 | 81  |
| 1  | APR | 1300 | 14  | 84.     | 8.2     | 1672.1 | * | 2  | APR | 2300 | 48  | 0.      | .0      | 1670.0 | * | 4  | APR | 0900 | 82  |
| 1  | APR | 1400 | 15  | 86.     | 11.5    | 1672.9 | * | 3  | APR | 0000 | 49  | 0.      | .0      | 1670.0 | * | 4  | APR | 1000 | 83  |
| 1  | APR | 1500 | 16  | 90.     | 16.3    | 1674.1 | * | 3  | APR | 0100 | 50  | 0.      | .0      | 1670.0 | * | 4  | APR | 1100 | 84  |
| 1  | APR | 1600 | 17  | 93.     | 20.9    | 1675.2 | * | 3  | APR | 0200 | 51  | 0.      | .0      | 1670.0 | * | 4  | APR | 1200 | 85  |
| 1  | APR | 1700 | 18  | 95.     | 23.9    | 1676.0 | * | 3  | APR | 0300 | 52  | 0.      | .0      | 1670.0 | * | 4  | APR | 1300 | 86  |
| 1  | APR | 1800 | 19  | 94.     | 23.1    | 1675.8 | * | 3  | APR | 0400 | 53  | 0.      | .0      | 1670.0 | * | 4  | APR | 1400 | 87  |
| 1  | APR | 1900 | 20  | 92.     | 19.2    | 1674.8 | * | 3  | APR | 0500 | 54  | 0.      | .0      | 1670.0 | * | 4  | APR | 1500 | 88  |
| 1  | APR | 2000 | 21  | 89.     | 14.4    | 1673.6 | * | 3  | APR | 0600 | 55  | 0.      | .0      | 1670.0 | * | 4  | APR | 1600 | 89  |
| 1  | APR | 2100 | 22  | 84.     | 9.2     | 1672.3 | * | 3  | APR | 0700 | 56  | 0.      | .0      | 1670.0 | * | 4  | APR | 1700 | 90  |
| 1  | APR | 2200 | 23  | 80.     | 4.0     | 1671.0 | * | 3  | APR | 0800 | 57  | 0.      | .0      | 1670.0 | * | 4  | APR | 1800 | 91  |
| 1  | APR | 2300 | 24  | 22.     | 1.1     | 1670.3 | * | 3  | APR | 0900 | 58  | 0.      | .0      | 1670.0 | * | 4  | APR | 1900 | 92  |
| 2  | APR | 0000 | 25  | 15.     | .7      | 1670.2 | * | 3  | APR | 1000 | 59  | 0.      | .0      | 1670.0 | * | 4  | APR | 2000 | 93  |
| 2  | APR | 0100 | 26  | 12.     | .6      | 1670.2 | * | 3  | APR | 1100 | 60  | 0.      | .0      | 1670.0 | * | 4  | APR | 2100 | 94  |
| 2  | APR | 0200 | 27  | 8.      | .4      | 1670.1 | * | 3  | APR | 1200 | 61  | 0.      | .0      | 1670.0 | * | 4  | APR | 2200 | 95  |
| 2  | APR | 0300 | 28  | 3.      | .2      | 1670.0 | * | 3  | APR | 1300 | 62  | 0.      | .0      | 1670.0 | * | 4  | APR | 2300 | 96  |
| 2  | APR | 0400 | 29  | 1.      | .1      | 1670.0 | * | 3  | APR | 1400 | 63  | 0.      | .0      | 1670.0 | * | 5  | APR | 0000 | 97  |
| 2  | APR | 0500 | 30  | 1.      | .0      | 1670.0 | * | 3  | APR | 1500 | 64  | 0.      | .0      | 1670.0 | * | 5  | APR | 0100 | 98  |
| 2  | APR | 0600 | 31  | 0.      | .0      | 1670.0 | * | 3  | APR | 1600 | 65  | 0.      | .0      | 1670.0 | * | 5  | APR | 0200 | 99  |
| 2  | APR | 0700 | 32  | 0.      | .0      | 1670.0 | * | 3  | APR | 1700 | 66  | 0.      | .0      | 1670.0 | * | 5  | APR | 0300 | 100 |
| 2  | APR | 0800 | 33  | 0.      | .0      | 1670.0 | * | 3  | APR | 1800 | 67  | 0.      | .0      | 1670.0 | * |    |     |      |     |
| 2  | APR | 0900 | 34  | 0.      | .0      | 1670.0 | * | 3  | APR | 1900 | 68  | 0.      | .0      | 1670.0 | * |    |     |      |     |

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

SJR\_5-yr.out

|   |     |       |          |      |      |      |      |
|---|-----|-------|----------|------|------|------|------|
| + | 95. | 17.00 |          | 92.  | 58.  | 20.  | 14.  |
|   |     |       | (INCHES) | .095 | .241 | .243 | .243 |
|   |     |       | (AC-FT)  | 46.  | 116. | 117. | 117. |

  

|              |              |      |                         |
|--------------|--------------|------|-------------------------|
| PEAK STORAGE | TIME         |      | MAXIMUM AVERAGE STORAGE |
|              |              | 6-HR | 24-HR 72-HR 99.00-HR    |
| +            | (AC-FT) (HR) |      |                         |
|              | 24. 17.00    | 19.  | 7. 3. 2.                |

  

|            |               |         |                         |
|------------|---------------|---------|-------------------------|
| PEAK STAGE | TIME          |         | MAXIMUM AVERAGE STAGE   |
|            |               | 6-HR    | 24-HR 72-HR 99.00-HR    |
| +          | (FEET) (HR)   |         |                         |
|            | 1675.97 17.00 | 1674.85 | 1671.87 1670.63 1670.46 |

CUMULATIVE AREA = 9.03 SQ MI

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

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

SUBBASIN RUNOFF DATA

375 BA SUBBASIN CHARACTERISTICS  
 TAREA 1.17 SUBBASIN AREA

PRECIPITATION DATA

376 PB STORM .24 BASIN TOTAL PRECIPITATION

378 PI INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .01 | .01 | .02 | .02 | .03 | .03 | .04 | .05 | .07 |
| .08 | .07 | .08 | .11 | .11 | .10 | .07 | .01 | .02 | .01 |
| .01 | .01 | .01 | .01 | .01 | .00 |     |     |     |     |

383 LU UNIFORM LOSS RATE  
 STRTL .00 INITIAL LOSS  
 CNSTL .00 UNIFORM LOSS RATE

RTIMP .00 PERCENT IMPERVIOUS AREA

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

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## HYDROGRAPH AT STATION IA

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

|            |    |     |     |     |    |   | SJR_5-yr.out |     |     |     |     |    |  |
|------------|----|-----|-----|-----|----|---|--------------|-----|-----|-----|-----|----|--|
| 2 APR 1300 | 38 | .00 | .00 | .00 | 0. | * | 4 APR 1500   | 88  | .00 | .00 | .00 | 0. |  |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0. | * | 4 APR 1600   | 89  | .00 | .00 | .00 | 0. |  |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0. | * | 4 APR 1700   | 90  | .00 | .00 | .00 | 0. |  |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0. | * | 4 APR 1800   | 91  | .00 | .00 | .00 | 0. |  |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0. | * | 4 APR 1900   | 92  | .00 | .00 | .00 | 0. |  |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0. | * | 4 APR 2000   | 93  | .00 | .00 | .00 | 0. |  |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0. | * | 4 APR 2100   | 94  | .00 | .00 | .00 | 0. |  |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0. | * | 4 APR 2200   | 95  | .00 | .00 | .00 | 0. |  |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0. | * | 4 APR 2300   | 96  | .00 | .00 | .00 | 0. |  |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0. | * | 5 APR 0000   | 97  | .00 | .00 | .00 | 0. |  |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0. | * | 5 APR 0100   | 98  | .00 | .00 | .00 | 0. |  |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0. | * | 5 APR 0200   | 99  | .00 | .00 | .00 | 0. |  |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0. | * | 5 APR 0300   | 100 | .00 | .00 | .00 | 0. |  |
|            |    |     |     |     |    |   | *            |     |     |     |     |    |  |

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TOTAL RAINFALL = .24, TOTAL LOSS = .00, TOTAL EXCESS = .24

| PEAK FLOW         | TIME |          | 6-HR       | 24-HR | 72-HR | 99.00-HR |
|-------------------|------|----------|------------|-------|-------|----------|
| (CFS)             | (HR) | (CFS)    |            |       |       |          |
| +                 | 21.  | 14.00    | 17.        | 8.    | 3.    | 2.       |
|                   |      | (INCHES) | .134       | .243  | .244  | .244     |
|                   |      | (AC-FT)  | 8.         | 15.   | 15.   | 15.      |
| CUMULATIVE AREA = |      |          | 1.17 SQ MI |       |       |          |

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

388 HC HYDROGRAPH COMBINATION  
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION IA  
 SUM OF 2 HYDROGRAPHS

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SJR\_5-yr.out

| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 14.  | * | 3  | APR | 0200 | 51  | 0.   | * | 4  | APR | 0300 | 76  | 0.   | * |
| 1  | APR | 0100 | 2   | 1.   | * | 2  | APR | 0200 | 27  | 8.   | * | 3  | APR | 0300 | 52  | 0.   | * | 4  | APR | 0400 | 77  | 0.   | * |
| 1  | APR | 0200 | 3   | 8.   | * | 2  | APR | 0300 | 28  | 3.   | * | 3  | APR | 0400 | 53  | 0.   | * | 4  | APR | 0500 | 78  | 0.   | * |
| 1  | APR | 0300 | 4   | 16.  | * | 2  | APR | 0400 | 29  | 1.   | * | 3  | APR | 0500 | 54  | 0.   | * | 4  | APR | 0600 | 79  | 0.   | * |
| 1  | APR | 0400 | 5   | 22.  | * | 2  | APR | 0500 | 30  | 1.   | * | 3  | APR | 0600 | 55  | 0.   | * | 4  | APR | 0700 | 80  | 0.   | * |
| 1  | APR | 0500 | 6   | 29.  | * | 2  | APR | 0600 | 31  | 0.   | * | 3  | APR | 0700 | 56  | 0.   | * | 4  | APR | 0800 | 81  | 0.   | * |
| 1  | APR | 0600 | 7   | 36.  | * | 2  | APR | 0700 | 32  | 0.   | * | 3  | APR | 0800 | 57  | 0.   | * | 4  | APR | 0900 | 82  | 0.   | * |
| 1  | APR | 0700 | 8   | 43.  | * | 2  | APR | 0800 | 33  | 0.   | * | 3  | APR | 0900 | 58  | 0.   | * | 4  | APR | 1000 | 83  | 0.   | * |
| 1  | APR | 0800 | 9   | 52.  | * | 2  | APR | 0900 | 34  | 0.   | * | 3  | APR | 1000 | 59  | 0.   | * | 4  | APR | 1100 | 84  | 0.   | * |
| 1  | APR | 0900 | 10  | 64.  | * | 2  | APR | 1000 | 35  | 0.   | * | 3  | APR | 1100 | 60  | 0.   | * | 4  | APR | 1200 | 85  | 0.   | * |
| 1  | APR | 1000 | 11  | 83.  | * | 2  | APR | 1100 | 36  | 0.   | * | 3  | APR | 1200 | 61  | 0.   | * | 4  | APR | 1300 | 86  | 0.   | * |
| 1  | APR | 1100 | 12  | 95.  | * | 2  | APR | 1200 | 37  | 0.   | * | 3  | APR | 1300 | 62  | 0.   | * | 4  | APR | 1400 | 87  | 0.   | * |
| 1  | APR | 1200 | 13  | 96.  | * | 2  | APR | 1300 | 38  | 0.   | * | 3  | APR | 1400 | 63  | 0.   | * | 4  | APR | 1500 | 88  | 0.   | * |
| 1  | APR | 1300 | 14  | 98.  | * | 2  | APR | 1400 | 39  | 0.   | * | 3  | APR | 1500 | 64  | 0.   | * | 4  | APR | 1600 | 89  | 0.   | * |
| 1  | APR | 1400 | 15  | 107. | * | 2  | APR | 1500 | 40  | 0.   | * | 3  | APR | 1600 | 65  | 0.   | * | 4  | APR | 1700 | 90  | 0.   | * |
| 1  | APR | 1500 | 16  | 110. | * | 2  | APR | 1600 | 41  | 0.   | * | 3  | APR | 1700 | 66  | 0.   | * | 4  | APR | 1800 | 91  | 0.   | * |
| 1  | APR | 1600 | 17  | 112. | * | 2  | APR | 1700 | 42  | 0.   | * | 3  | APR | 1800 | 67  | 0.   | * | 4  | APR | 1900 | 92  | 0.   | * |
| 1  | APR | 1700 | 18  | 109. | * | 2  | APR | 1800 | 43  | 0.   | * | 3  | APR | 1900 | 68  | 0.   | * | 4  | APR | 2000 | 93  | 0.   | * |
| 1  | APR | 1800 | 19  | 98.  | * | 2  | APR | 1900 | 44  | 0.   | * | 3  | APR | 2000 | 69  | 0.   | * | 4  | APR | 2100 | 94  | 0.   | * |
| 1  | APR | 1900 | 20  | 95.  | * | 2  | APR | 2000 | 45  | 0.   | * | 3  | APR | 2100 | 70  | 0.   | * | 4  | APR | 2200 | 95  | 0.   | * |
| 1  | APR | 2000 | 21  | 91.  | * | 2  | APR | 2100 | 46  | 0.   | * | 3  | APR | 2200 | 71  | 0.   | * | 4  | APR | 2300 | 96  | 0.   | * |
| 1  | APR | 2100 | 22  | 87.  | * | 2  | APR | 2200 | 47  | 0.   | * | 3  | APR | 2300 | 72  | 0.   | * | 5  | APR | 0000 | 97  | 0.   | * |
| 1  | APR | 2200 | 23  | 82.  | * | 2  | APR | 2300 | 48  | 0.   | * | 4  | APR | 0000 | 73  | 0.   | * | 5  | APR | 0100 | 98  | 0.   | * |
| 1  | APR | 2300 | 24  | 24.  | * | 3  | APR | 0000 | 49  | 0.   | * | 4  | APR | 0100 | 74  | 0.   | * | 5  | APR | 0200 | 99  | 0.   | * |
| 2  | APR | 0000 | 25  | 16.  | * | 3  | APR | 0100 | 50  | 0.   | * | 4  | APR | 0200 | 75  | 0.   | * | 5  | APR | 0300 | 100 | 0.   | * |

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| PEAK FLOW | TIME  |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------|-------|----------|
| +         | (CFS) | (HR)     |      |       |       |          |
| +         | 112.  | 16.00    |      |       |       |          |
|           |       | (CFS)    | 105. | 66.   | 22.   | 16.      |
|           |       | (INCHES) | .096 | .241  | .243  | .243     |
|           |       | (AC-FT)  | 52.  | 131.  | 132.  | 132.     |

CUMULATIVE AREA = 10.20 SQ MI

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389 KK  
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 \* IB \*  
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SJR\_5-yr.out

INDIAN STREET (FESTIVAL) BASIN ROUTING

HYDROGRAPH ROUTING DATA

|        |                 |         |                             |         |         |         |         |         |         |         |         |
|--------|-----------------|---------|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 391 RS | STORAGE ROUTING |         |                             |         |         |         |         |         |         |         |         |
|        | NSTPS           | 1       | NUMBER OF SUBREACHES        |         |         |         |         |         |         |         |         |
|        | ITYP            | ELEV    | TYPE OF INITIAL CONDITION   |         |         |         |         |         |         |         |         |
|        | RSVRIC          | 1635.50 | INITIAL CONDITION           |         |         |         |         |         |         |         |         |
|        | X               | .00     | WORKING R AND D COEFFICIENT |         |         |         |         |         |         |         |         |
| 392 SA | AREA            | .0      | .6                          | 3.5     | 8.9     | 10.9    | 11.1    | 11.3    | 11.5    | 11.6    | 11.7    |
|        |                 | 11.9    | 12.1                        |         |         |         |         |         |         |         |         |
| 394 SE | ELEVATION       | 1635.50 | 1636.00                     | 1637.00 | 1638.00 | 1639.00 | 1640.00 | 1641.00 | 1642.00 | 1643.00 | 1644.00 |
|        |                 | 1645.00 | 1646.00                     |         |         |         |         |         |         |         |         |
| 396 SQ | DISCHARGE       | 0.      | 15.                         | 23.     | 56.     | 88.     | 117.    | 137.    | 155.    | 173.    | 189.    |
|        |                 | 205.    | 220.                        |         |         |         |         |         |         |         |         |

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COMPUTED STORAGE-ELEVATION DATA

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

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 15.  
 THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
 THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION IB

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| DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE  | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE  | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE  |
|----|-----|------|-----|---------|---------|--------|---|----|-----|------|-----|---------|---------|--------|---|----|-----|------|-----|---------|---------|--------|
| 1  | APR | 0000 | 1   | 0.      | .0      | 1635.5 | * | 2  | APR | 1000 | 35  | 0.      | .0      | 1635.5 | * | 3  | APR | 2000 | 69  | 0.      | .0      | 1635.5 |
| 1  | APR | 0100 | 2   | 1.      | .0      | 1635.5 | * | 2  | APR | 1100 | 36  | 0.      | .0      | 1635.5 | * | 3  | APR | 2100 | 70  | 0.      | .0      | 1635.5 |
| 1  | APR | 0200 | 3   | 8.      | .0      | 1635.8 | * | 2  | APR | 1200 | 37  | 0.      | .0      | 1635.5 | * | 3  | APR | 2200 | 71  | 0.      | .0      | 1635.5 |
| 1  | APR | 0300 | 4   | 15.     | .1      | 1636.0 | * | 2  | APR | 1300 | 38  | 0.      | .0      | 1635.5 | * | 3  | APR | 2300 | 72  | 0.      | .0      | 1635.5 |
| 1  | APR | 0400 | 5   | 16.     | .4      | 1636.2 | * | 2  | APR | 1400 | 39  | 0.      | .0      | 1635.5 | * | 4  | APR | 0000 | 73  | 0.      | .0      | 1635.5 |
| 1  | APR | 0500 | 6   | 19.     | 1.1     | 1636.5 | * | 2  | APR | 1500 | 40  | 0.      | .0      | 1635.5 | * | 4  | APR | 0100 | 74  | 0.      | .0      | 1635.5 |
| 1  | APR | 0600 | 7   | 23.     | 2.0     | 1637.0 | * | 2  | APR | 1600 | 41  | 0.      | .0      | 1635.5 | * | 4  | APR | 0200 | 75  | 0.      | .0      | 1635.5 |
| 1  | APR | 0700 | 8   | 29.     | 3.1     | 1637.2 | * | 2  | APR | 1700 | 42  | 0.      | .0      | 1635.5 | * | 4  | APR | 0300 | 76  | 0.      | .0      | 1635.5 |
| 1  | APR | 0800 | 9   | 36.     | 4.3     | 1637.4 | * | 2  | APR | 1800 | 43  | 0.      | .0      | 1635.5 | * | 4  | APR | 0400 | 77  | 0.      | .0      | 1635.5 |
| 1  | APR | 0900 | 10  | 44.     | 5.8     | 1637.6 | * | 2  | APR | 1900 | 44  | 0.      | .0      | 1635.5 | * | 4  | APR | 0500 | 78  | 0.      | .0      | 1635.5 |
| 1  | APR | 1000 | 11  | 55.     | 7.7     | 1638.0 | * | 2  | APR | 2000 | 45  | 0.      | .0      | 1635.5 | * | 4  | APR | 0600 | 79  | 0.      | .0      | 1635.5 |

SJR\_5-yr.out

|            |    |     |      |        |   |            |    |    |    |        |   |            |     |    |    |        |
|------------|----|-----|------|--------|---|------------|----|----|----|--------|---|------------|-----|----|----|--------|
| 1 APR 1100 | 12 | 63. | 10.2 | 1638.2 | * | 2 APR 2100 | 46 | 0. | .0 | 1635.5 | * | 4 APR 0700 | 80  | 0. | .0 | 1635.5 |
| 1 APR 1200 | 13 | 71. | 12.5 | 1638.5 | * | 2 APR 2200 | 47 | 0. | .0 | 1635.5 | * | 4 APR 0800 | 81  | 0. | .0 | 1635.5 |
| 1 APR 1300 | 14 | 77. | 14.4 | 1638.7 | * | 2 APR 2300 | 48 | 0. | .0 | 1635.5 | * | 4 APR 0900 | 82  | 0. | .0 | 1635.5 |
| 1 APR 1400 | 15 | 83. | 16.3 | 1638.8 | * | 3 APR 0000 | 49 | 0. | .0 | 1635.5 | * | 4 APR 1000 | 83  | 0. | .0 | 1635.5 |
| 1 APR 1500 | 16 | 89. | 18.1 | 1639.0 | * | 3 APR 0100 | 50 | 0. | .0 | 1635.5 | * | 4 APR 1100 | 84  | 0. | .0 | 1635.5 |
| 1 APR 1600 | 17 | 93. | 19.8 | 1639.2 | * | 3 APR 0200 | 51 | 0. | .0 | 1635.5 | * | 4 APR 1200 | 85  | 0. | .0 | 1635.5 |
| 1 APR 1700 | 18 | 97. | 21.1 | 1639.3 | * | 3 APR 0300 | 52 | 0. | .0 | 1635.5 | * | 4 APR 1300 | 86  | 0. | .0 | 1635.5 |
| 1 APR 1800 | 19 | 98. | 21.6 | 1639.3 | * | 3 APR 0400 | 53 | 0. | .0 | 1635.5 | * | 4 APR 1400 | 87  | 0. | .0 | 1635.5 |
| 1 APR 1900 | 20 | 98. | 21.5 | 1639.3 | * | 3 APR 0500 | 54 | 0. | .0 | 1635.5 | * | 4 APR 1500 | 88  | 0. | .0 | 1635.5 |
| 1 APR 2000 | 21 | 97. | 21.1 | 1639.3 | * | 3 APR 0600 | 55 | 0. | .0 | 1635.5 | * | 4 APR 1600 | 89  | 0. | .0 | 1635.5 |
| 1 APR 2100 | 22 | 95. | 20.5 | 1639.2 | * | 3 APR 0700 | 56 | 0. | .0 | 1635.5 | * | 4 APR 1700 | 90  | 0. | .0 | 1635.5 |
| 1 APR 2200 | 23 | 93. | 19.7 | 1639.2 | * | 3 APR 0800 | 57 | 0. | .0 | 1635.5 | * | 4 APR 1800 | 91  | 0. | .0 | 1635.5 |
| 1 APR 2300 | 24 | 84. | 16.7 | 1638.9 | * | 3 APR 0900 | 58 | 0. | .0 | 1635.5 | * | 4 APR 1900 | 92  | 0. | .0 | 1635.5 |
| 2 APR 0000 | 25 | 69. | 12.0 | 1638.4 | * | 3 APR 1000 | 59 | 0. | .0 | 1635.5 | * | 4 APR 2000 | 93  | 0. | .0 | 1635.5 |
| 2 APR 0100 | 26 | 56. | 8.1  | 1638.0 | * | 3 APR 1100 | 60 | 0. | .0 | 1635.5 | * | 4 APR 2100 | 94  | 0. | .0 | 1635.5 |
| 2 APR 0200 | 27 | 40. | 5.0  | 1637.5 | * | 3 APR 1200 | 61 | 0. | .0 | 1635.5 | * | 4 APR 2200 | 95  | 0. | .0 | 1635.5 |
| 2 APR 0300 | 28 | 27. | 2.7  | 1637.1 | * | 3 APR 1300 | 62 | 0. | .0 | 1635.5 | * | 4 APR 2300 | 96  | 0. | .0 | 1635.5 |
| 2 APR 0400 | 29 | 19. | 1.0  | 1636.5 | * | 3 APR 1400 | 63 | 0. | .0 | 1635.5 | * | 5 APR 0000 | 97  | 0. | .0 | 1635.5 |
| 2 APR 0500 | 30 | 6.  | .0   | 1635.7 | * | 3 APR 1500 | 64 | 0. | .0 | 1635.5 | * | 5 APR 0100 | 98  | 0. | .0 | 1635.5 |
| 2 APR 0600 | 31 | 0.  | .0   | 1635.5 | * | 3 APR 1600 | 65 | 0. | .0 | 1635.5 | * | 5 APR 0200 | 99  | 0. | .0 | 1635.5 |
| 2 APR 0700 | 32 | 0.  | .0   | 1635.5 | * | 3 APR 1700 | 66 | 0. | .0 | 1635.5 | * | 5 APR 0300 | 100 | 0. | .0 | 1635.5 |
| 2 APR 0800 | 33 | 0.  | .0   | 1635.5 | * | 3 APR 1800 | 67 | 0. | .0 | 1635.5 | * |            |     |    |    |        |
| 2 APR 0900 | 34 | 0.  | .0   | 1635.5 | * | 3 APR 1900 | 68 | 0. | .0 | 1635.5 | * |            |     |    |    |        |

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| PEAK FLOW | TIME  |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------|-------|----------|
| +         | (CFS) | (HR)     |      |       |       |          |
|           |       | (CFS)    |      |       |       |          |
| +         | 98.   | 18.00    | 96.  | 65.   | 22.   | 16.      |
|           |       | (INCHES) | .088 | .236  | .243  | .243     |
|           |       | (AC-FT)  | 48.  | 128.  | 132.  | 132.     |

| PEAK STORAGE | TIME    |       | 6-HR | 24-HR | 72-HR | 99.00-HR |
|--------------|---------|-------|------|-------|-------|----------|
| +            | (AC-FT) | (HR)  |      |       |       |          |
|              | 22.     | 18.00 | 21.  | 12.   | 4.    | 3.       |

| PEAK STAGE | TIME    |       | 6-HR    | 24-HR   | 72-HR   | 99.00-HR |
|------------|---------|-------|---------|---------|---------|----------|
| +          | (FEET)  | (HR)  |         |         |         |          |
|            | 1639.34 | 18.00 | 1639.28 | 1638.25 | 1636.44 | 1636.19  |

CUMULATIVE AREA = 10.20 SQ MI

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 \* \*  
 398 KK \* LA \*  
 \* \*  
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# TRIBUTARY AREA FOR LASSELLE BASIN

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

## SUBBASIN RUNOFF DATA

400 BA SUBBASIN CHARACTERISTICS  
 TAREA .69 SUBBASIN AREA

## PRECIPITATION DATA

401 PB STORM .26 BASIN TOTAL PRECIPITATION

403 PI INCREMENTAL PRECIPITATION PATTERN  
 .00 .01 .01 .02 .02 .03 .03 .04 .05 .07  
 .08 .07 .08 .11 .11 .10 .07 .01 .02 .01  
 .01 .01 .01 .01 .01 .00

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

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

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## HYDROGRAPH AT STATION LA

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 1.     | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 2.     | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .00  | .00  | .00    | 2.     | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 3.     | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 3.     | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |

|   |     |      |    |     |     |     |     |   |   | SJR_5-yr.out |      |     |     |     |     |    |
|---|-----|------|----|-----|-----|-----|-----|---|---|--------------|------|-----|-----|-----|-----|----|
| 1 | APR | 0700 | 8  | .01 | .00 | .01 | 4.  | * | 3 | APR          | 0900 | 58  | .00 | .00 | .00 | 0. |
| 1 | APR | 0800 | 9  | .01 | .00 | .01 | 5.  | * | 3 | APR          | 1000 | 59  | .00 | .00 | .00 | 0. |
| 1 | APR | 0900 | 10 | .01 | .00 | .01 | 6.  | * | 3 | APR          | 1100 | 60  | .00 | .00 | .00 | 0. |
| 1 | APR | 1000 | 11 | .02 | .00 | .02 | 8.  | * | 3 | APR          | 1200 | 61  | .00 | .00 | .00 | 0. |
| 1 | APR | 1100 | 12 | .02 | .00 | .02 | 9.  | * | 3 | APR          | 1300 | 62  | .00 | .00 | .00 | 0. |
| 1 | APR | 1200 | 13 | .02 | .00 | .02 | 8.  | * | 3 | APR          | 1400 | 63  | .00 | .00 | .00 | 0. |
| 1 | APR | 1300 | 14 | .02 | .00 | .02 | 9.  | * | 3 | APR          | 1500 | 64  | .00 | .00 | .00 | 0. |
| 1 | APR | 1400 | 15 | .03 | .00 | .03 | 13. | * | 3 | APR          | 1600 | 65  | .00 | .00 | .00 | 0. |
| 1 | APR | 1500 | 16 | .03 | .00 | .03 | 13. | * | 3 | APR          | 1700 | 66  | .00 | .00 | .00 | 0. |
| 1 | APR | 1600 | 17 | .03 | .00 | .03 | 12. | * | 3 | APR          | 1800 | 67  | .00 | .00 | .00 | 0. |
| 1 | APR | 1700 | 18 | .02 | .00 | .02 | 9.  | * | 3 | APR          | 1900 | 68  | .00 | .00 | .00 | 0. |
| 1 | APR | 1800 | 19 | .00 | .00 | .00 | 2.  | * | 3 | APR          | 2000 | 69  | .00 | .00 | .00 | 0. |
| 1 | APR | 1900 | 20 | .00 | .00 | .00 | 2.  | * | 3 | APR          | 2100 | 70  | .00 | .00 | .00 | 0. |
| 1 | APR | 2000 | 21 | .00 | .00 | .00 | 2.  | * | 3 | APR          | 2200 | 71  | .00 | .00 | .00 | 0. |
| 1 | APR | 2100 | 22 | .00 | .00 | .00 | 1.  | * | 3 | APR          | 2300 | 72  | .00 | .00 | .00 | 0. |
| 1 | APR | 2200 | 23 | .00 | .00 | .00 | 1.  | * | 4 | APR          | 0000 | 73  | .00 | .00 | .00 | 0. |
| 1 | APR | 2300 | 24 | .00 | .00 | .00 | 1.  | * | 4 | APR          | 0100 | 74  | .00 | .00 | .00 | 0. |
| 2 | APR | 0000 | 25 | .00 | .00 | .00 | 1.  | * | 4 | APR          | 0200 | 75  | .00 | .00 | .00 | 0. |
| 2 | APR | 0100 | 26 | .00 | .00 | .00 | 1.  | * | 4 | APR          | 0300 | 76  | .00 | .00 | .00 | 0. |
| 2 | APR | 0200 | 27 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 0400 | 77  | .00 | .00 | .00 | 0. |
| 2 | APR | 0300 | 28 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 0500 | 78  | .00 | .00 | .00 | 0. |
| 2 | APR | 0400 | 29 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 0600 | 79  | .00 | .00 | .00 | 0. |
| 2 | APR | 0500 | 30 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 0700 | 80  | .00 | .00 | .00 | 0. |
| 2 | APR | 0600 | 31 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 0800 | 81  | .00 | .00 | .00 | 0. |
| 2 | APR | 0700 | 32 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 0900 | 82  | .00 | .00 | .00 | 0. |
| 2 | APR | 0800 | 33 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 1000 | 83  | .00 | .00 | .00 | 0. |
| 2 | APR | 0900 | 34 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 | APR | 1000 | 35 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 | APR | 1100 | 36 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 | APR | 1200 | 37 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 | APR | 1300 | 38 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 | APR | 1400 | 39 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 | APR | 1500 | 40 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 | APR | 1600 | 41 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 | APR | 1700 | 42 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 | APR | 1800 | 43 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 | APR | 1900 | 44 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 | APR | 2000 | 45 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 | APR | 2100 | 46 | .00 | .00 | .00 | 0.  | * | 4 | APR          | 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 | APR | 2200 | 47 | .00 | .00 | .00 | 0.  | * | 5 | APR          | 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 | APR | 2300 | 48 | .00 | .00 | .00 | 0.  | * | 5 | APR          | 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 | APR | 0000 | 49 | .00 | .00 | .00 | 0.  | * | 5 | APR          | 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 | APR | 0100 | 50 | .00 | .00 | .00 | 0.  | * | 5 | APR          | 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .26, TOTAL LOSS = .00, TOTAL EXCESS = .26

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

|   |     |          |      |      |              |      |
|---|-----|----------|------|------|--------------|------|
|   |     |          |      |      | SJR_5-yr.out |      |
| + | 13. | 14.00    | 11.  | 5.   | 2.           | 1.   |
|   |     | (INCHES) | .144 | .261 | .262         | .262 |
|   |     | (AC-FT)  | 5.   | 10.  | 10.          | 10.  |

CUMULATIVE AREA = .69 SQ MI

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 411 KK \* LB \*  
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# LASSELLE BASIN ROUTING

## HYDROGRAPH ROUTING DATA

|        |                 |         |                             |         |         |         |         |         |
|--------|-----------------|---------|-----------------------------|---------|---------|---------|---------|---------|
| 413 RS | STORAGE ROUTING |         |                             |         |         |         |         |         |
|        | NSTPS           | 1       | NUMBER OF SUBREACHES        |         |         |         |         |         |
|        | ITYP            | ELEV    | TYPE OF INITIAL CONDITION   |         |         |         |         |         |
|        | RSVRIC          | 1734.00 | INITIAL CONDITION           |         |         |         |         |         |
|        | X               | .00     | WORKING R AND D COEFFICIENT |         |         |         |         |         |
| 414 SV | STORAGE         | .0      | .5                          | 1.8     | 4.3     | 9.8     | 29.0    | 47.5    |
| 415 SE | ELEVATION       | 1734.00 | 1735.00                     | 1736.00 | 1737.00 | 1739.00 | 1742.00 | 1745.00 |
| 416 SQ | DISCHARGE       | 0.      | 20.                         | 40.     | 60.     | 75.     | 235.    | 800.    |
| 417 SE | ELEVATION       | 1734.00 | 1736.00                     | 1739.00 | 1745.00 | 1745.50 | 1746.00 | 1747.00 |

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## COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

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

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 75. TO 800.  
 THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
 THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION LB

SJR\_5-yr.out

| ***** |     |      |     |         |         |        |   |    |     |      |     |         |         |        |   |    |     |      |     |
|-------|-----|------|-----|---------|---------|--------|---|----|-----|------|-----|---------|---------|--------|---|----|-----|------|-----|
| DA    | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE  | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE  | * | DA | MON | HRMN | ORD |
| 1     | APR | 0000 | 1   | 0.      | .0      | 1734.0 | * | 2  | APR | 1000 | 35  | 0.      | .0      | 1734.0 | * | 3  | APR | 2000 | 69  |
| 1     | APR | 0100 | 2   | 0.      | .0      | 1734.0 | * | 2  | APR | 1100 | 36  | 0.      | .0      | 1734.0 | * | 3  | APR | 2100 | 70  |
| 1     | APR | 0200 | 3   | 1.      | .0      | 1734.1 | * | 2  | APR | 1200 | 37  | 0.      | .0      | 1734.0 | * | 3  | APR | 2200 | 71  |
| 1     | APR | 0300 | 4   | 1.      | .1      | 1734.1 | * | 2  | APR | 1300 | 38  | 0.      | .0      | 1734.0 | * | 3  | APR | 2300 | 72  |
| 1     | APR | 0400 | 5   | 2.      | .1      | 1734.2 | * | 2  | APR | 1400 | 39  | 0.      | .0      | 1734.0 | * | 4  | APR | 0000 | 73  |
| 1     | APR | 0500 | 6   | 2.      | .1      | 1734.2 | * | 2  | APR | 1500 | 40  | 0.      | .0      | 1734.0 | * | 4  | APR | 0100 | 74  |
| 1     | APR | 0600 | 7   | 3.      | .1      | 1734.3 | * | 2  | APR | 1600 | 41  | 0.      | .0      | 1734.0 | * | 4  | APR | 0200 | 75  |
| 1     | APR | 0700 | 8   | 3.      | .2      | 1734.3 | * | 2  | APR | 1700 | 42  | 0.      | .0      | 1734.0 | * | 4  | APR | 0300 | 76  |
| 1     | APR | 0800 | 9   | 4.      | .2      | 1734.4 | * | 2  | APR | 1800 | 43  | 0.      | .0      | 1734.0 | * | 4  | APR | 0400 | 77  |
| 1     | APR | 0900 | 10  | 5.      | .2      | 1734.5 | * | 2  | APR | 1900 | 44  | 0.      | .0      | 1734.0 | * | 4  | APR | 0500 | 78  |
| 1     | APR | 1000 | 11  | 6.      | .3      | 1734.6 | * | 2  | APR | 2000 | 45  | 0.      | .0      | 1734.0 | * | 4  | APR | 0600 | 79  |
| 1     | APR | 1100 | 12  | 8.      | .4      | 1734.8 | * | 2  | APR | 2100 | 46  | 0.      | .0      | 1734.0 | * | 4  | APR | 0700 | 80  |
| 1     | APR | 1200 | 13  | 9.      | .4      | 1734.9 | * | 2  | APR | 2200 | 47  | 0.      | .0      | 1734.0 | * | 4  | APR | 0800 | 81  |
| 1     | APR | 1300 | 14  | 9.      | .4      | 1734.9 | * | 2  | APR | 2300 | 48  | 0.      | .0      | 1734.0 | * | 4  | APR | 0900 | 82  |
| 1     | APR | 1400 | 15  | 10.     | .6      | 1735.0 | * | 3  | APR | 0000 | 49  | 0.      | .0      | 1734.0 | * | 4  | APR | 1000 | 83  |
| 1     | APR | 1500 | 16  | 12.     | .7      | 1735.2 | * | 3  | APR | 0100 | 50  | 0.      | .0      | 1734.0 | * | 4  | APR | 1100 | 84  |
| 1     | APR | 1600 | 17  | 12.     | .7      | 1735.2 | * | 3  | APR | 0200 | 51  | 0.      | .0      | 1734.0 | * | 4  | APR | 1200 | 85  |
| 1     | APR | 1700 | 18  | 11.     | .6      | 1735.1 | * | 3  | APR | 0300 | 52  | 0.      | .0      | 1734.0 | * | 4  | APR | 1300 | 86  |
| 1     | APR | 1800 | 19  | 7.      | .3      | 1734.7 | * | 3  | APR | 0400 | 53  | 0.      | .0      | 1734.0 | * | 4  | APR | 1400 | 87  |
| 1     | APR | 1900 | 20  | 2.      | .1      | 1734.2 | * | 3  | APR | 0500 | 54  | 0.      | .0      | 1734.0 | * | 4  | APR | 1500 | 88  |
| 1     | APR | 2000 | 21  | 2.      | .1      | 1734.2 | * | 3  | APR | 0600 | 55  | 0.      | .0      | 1734.0 | * | 4  | APR | 1600 | 89  |
| 1     | APR | 2100 | 22  | 1.      | .1      | 1734.1 | * | 3  | APR | 0700 | 56  | 0.      | .0      | 1734.0 | * | 4  | APR | 1700 | 90  |
| 1     | APR | 2200 | 23  | 1.      | .1      | 1734.1 | * | 3  | APR | 0800 | 57  | 0.      | .0      | 1734.0 | * | 4  | APR | 1800 | 91  |
| 1     | APR | 2300 | 24  | 1.      | .1      | 1734.1 | * | 3  | APR | 0900 | 58  | 0.      | .0      | 1734.0 | * | 4  | APR | 1900 | 92  |
| 2     | APR | 0000 | 25  | 1.      | .1      | 1734.1 | * | 3  | APR | 1000 | 59  | 0.      | .0      | 1734.0 | * | 4  | APR | 2000 | 93  |
| 2     | APR | 0100 | 26  | 1.      | .0      | 1734.1 | * | 3  | APR | 1100 | 60  | 0.      | .0      | 1734.0 | * | 4  | APR | 2100 | 94  |
| 2     | APR | 0200 | 27  | 0.      | .0      | 1734.0 | * | 3  | APR | 1200 | 61  | 0.      | .0      | 1734.0 | * | 4  | APR | 2200 | 95  |
| 2     | APR | 0300 | 28  | 0.      | .0      | 1734.0 | * | 3  | APR | 1300 | 62  | 0.      | .0      | 1734.0 | * | 4  | APR | 2300 | 96  |
| 2     | APR | 0400 | 29  | 0.      | .0      | 1734.0 | * | 3  | APR | 1400 | 63  | 0.      | .0      | 1734.0 | * | 5  | APR | 0000 | 97  |
| 2     | APR | 0500 | 30  | 0.      | .0      | 1734.0 | * | 3  | APR | 1500 | 64  | 0.      | .0      | 1734.0 | * | 5  | APR | 0100 | 98  |
| 2     | APR | 0600 | 31  | 0.      | .0      | 1734.0 | * | 3  | APR | 1600 | 65  | 0.      | .0      | 1734.0 | * | 5  | APR | 0200 | 99  |
| 2     | APR | 0700 | 32  | 0.      | .0      | 1734.0 | * | 3  | APR | 1700 | 66  | 0.      | .0      | 1734.0 | * | 5  | APR | 0300 | 100 |
| 2     | APR | 0800 | 33  | 0.      | .0      | 1734.0 | * | 3  | APR | 1800 | 67  | 0.      | .0      | 1734.0 | * |    |     |      |     |
| 2     | APR | 0900 | 34  | 0.      | .0      | 1734.0 | * | 3  | APR | 1900 | 68  | 0.      | .0      | 1734.0 | * |    |     |      |     |
| ***** |     |      |     |         |         |        |   |    |     |      |     |         |         |        |   |    |     |      |     |

| PEAK FLOW    |  | TIME     |  | MAXIMUM AVERAGE FLOW    |       |       |          |
|--------------|--|----------|--|-------------------------|-------|-------|----------|
| + (CFS)      |  | (HR)     |  | 6-HR                    | 24-HR | 72-HR | 99.00-HR |
| + 12.        |  | 16.00    |  | 10.                     | 5.    | 2.    | 1.       |
|              |  | (INCHES) |  | .139                    | .261  | .262  | .262     |
|              |  | (AC-FT)  |  | 5.                      | 10.   | 10.   | 10.      |
| PEAK STORAGE |  | TIME     |  | MAXIMUM AVERAGE STORAGE |       |       |          |
| + (AC-FT)    |  | (HR)     |  | 6-HR                    | 24-HR | 72-HR | 99.00-HR |

SJR\_5-yr.out

|            |         |       |                 |         |          |
|------------|---------|-------|-----------------|---------|----------|
| 1.         | 16.00   | 1.    | 0.              | 0.      | 0.       |
| PEAK STAGE | TIME    | 6-HR  | MAXIMUM AVERAGE | STAGE   |          |
| +          | (FEET)  |       | 24-HR           | 72-HR   | 99.00-HR |
|            | (HR)    |       |                 |         |          |
|            | 1735.20 | 16.00 | 1735.03         | 1734.48 | 1734.16  |
|            |         |       |                 |         | 1734.12  |

CUMULATIVE AREA = .69 SQ MI

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 418 KK \* NA \*  
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# TRIBUTARY AREA FOR NASON BASIN

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

## SUBBASIN RUNOFF DATA

420 BA SUBBASIN CHARACTERISTICS  
 TAREA 4.33 SUBBASIN AREA

## PRECIPITATION DATA

421 PB STORM .28 BASIN TOTAL PRECIPITATION

423 PI INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .01 | .01 | .02 | .02 | .03 | .03 | .04 | .05 | .07 |
| .08 | .07 | .08 | .11 | .11 | .10 | .07 | .01 | .02 | .01 |
| .01 | .01 | .01 | .01 | .01 | .00 |     |     |     |     |

428 LU UNIFORM LOSS RATE

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

428 UI INPUT UNITGRAPH, 5 ORDINATES, VOLUME = 1.00

|        |       |       |      |      |
|--------|-------|-------|------|------|
| 1923.0 | 641.0 | 175.0 | 27.0 | 26.0 |
|--------|-------|-------|------|------|

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SJR\_5-yr.out

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HYDROGRAPH AT STATION NA

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

|            |    |     |     |     |    |   | SJR_5-yr.out |     |     |     |     |    |  |
|------------|----|-----|-----|-----|----|---|--------------|-----|-----|-----|-----|----|--|
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0. | * | 4 APR 2200   | 95  | .00 | .00 | .00 | 0. |  |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0. | * | 4 APR 2300   | 96  | .00 | .00 | .00 | 0. |  |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0. | * | 5 APR 0000   | 97  | .00 | .00 | .00 | 0. |  |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0. | * | 5 APR 0100   | 98  | .00 | .00 | .00 | 0. |  |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0. | * | 5 APR 0200   | 99  | .00 | .00 | .00 | 0. |  |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0. | * | 5 APR 0300   | 100 | .00 | .00 | .00 | 0. |  |

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TOTAL RAINFALL = .28, TOTAL LOSS = .00, TOTAL EXCESS = .28

| PEAK FLOW         | TIME  |          | 6-HR       | MAXIMUM AVERAGE FLOW<br>24-HR | 72-HR | 99.00-HR |
|-------------------|-------|----------|------------|-------------------------------|-------|----------|
| +                 | (CFS) | (HR)     |            |                               |       |          |
|                   |       | (CFS)    |            |                               |       |          |
| +                 | 83.   | 15.00    | 69.        | 32.                           | 11.   | 8.       |
|                   |       | (INCHES) | .148       | .273                          | .275  | .275     |
|                   |       | (AC-FT)  | 34.        | 63.                           | 63.   | 63.      |
| CUMULATIVE AREA = |       |          | 4.33 SQ MI |                               |       |          |

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431 KK \* NB \*  
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#### NASON BASIN ROUTING

#### HYDROGRAPH ROUTING DATA

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

SJR\_5-yr.out

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

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

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HYDROGRAPH AT STATION NB

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| DA MON HRMN ORD |    |     |      |      |   | * | DA MON HRMN ORD |    |    |    |      |   | * | DA MON HRMN ORD |    |    |    |      |  |
|-----------------|----|-----|------|------|---|---|-----------------|----|----|----|------|---|---|-----------------|----|----|----|------|--|
| OUTFLOW         |    |     |      |      |   | * | OUTFLOW         |    |    |    |      |   | * | OUTFLOW         |    |    |    |      |  |
| STORAGE         |    |     |      |      |   | * | STORAGE         |    |    |    |      |   | * | STORAGE         |    |    |    |      |  |
| STAGE           |    |     |      |      |   | * | STAGE           |    |    |    |      |   | * | STAGE           |    |    |    |      |  |
| 1 APR 0000      | 1  | 0.  | .0   | 58.0 | * |   | 2 APR 1000      | 35 | 1. | .2 | 58.1 | * |   | 3 APR 2000      | 69 | 0. | .0 | 58.0 |  |
| 1 APR 0100      | 2  | 0.  | .0   | 58.0 | * |   | 2 APR 1100      | 36 | 0. | .1 | 58.0 | * |   | 3 APR 2100      | 70 | 0. | .0 | 58.0 |  |
| 1 APR 0200      | 3  | 1.  | .3   | 58.1 | * |   | 2 APR 1200      | 37 | 0. | .1 | 58.0 | * |   | 3 APR 2200      | 71 | 0. | .0 | 58.0 |  |
| 1 APR 0300      | 4  | 3.  | .8   | 58.3 | * |   | 2 APR 1300      | 38 | 0. | .1 | 58.0 | * |   | 3 APR 2300      | 72 | 0. | .0 | 58.0 |  |
| 1 APR 0400      | 5  | 5.  | 1.4  | 58.5 | * |   | 2 APR 1400      | 39 | 0. | .0 | 58.0 | * |   | 4 APR 0000      | 73 | 0. | .0 | 58.0 |  |
| 1 APR 0500      | 6  | 8.  | 2.0  | 58.8 | * |   | 2 APR 1500      | 40 | 0. | .0 | 58.0 | * |   | 4 APR 0100      | 74 | 0. | .0 | 58.0 |  |
| 1 APR 0600      | 7  | 13. | 2.6  | 59.0 | * |   | 2 APR 1600      | 41 | 0. | .0 | 58.0 | * |   | 4 APR 0200      | 75 | 0. | .0 | 58.0 |  |
| 1 APR 0700      | 8  | 18. | 3.1  | 59.2 | * |   | 2 APR 1700      | 42 | 0. | .0 | 58.0 | * |   | 4 APR 0300      | 76 | 0. | .0 | 58.0 |  |
| 1 APR 0800      | 9  | 22. | 3.5  | 59.4 | * |   | 2 APR 1800      | 43 | 0. | .0 | 58.0 | * |   | 4 APR 0400      | 77 | 0. | .0 | 58.0 |  |
| 1 APR 0900      | 10 | 27. | 4.1  | 59.6 | * |   | 2 APR 1900      | 44 | 0. | .0 | 58.0 | * |   | 4 APR 0500      | 78 | 0. | .0 | 58.0 |  |
| 1 APR 1000      | 11 | 36. | 4.8  | 59.9 | * |   | 2 APR 2000      | 45 | 0. | .0 | 58.0 | * |   | 4 APR 0600      | 79 | 0. | .0 | 58.0 |  |
| 1 APR 1100      | 12 | 44. | 5.7  | 60.1 | * |   | 2 APR 2100      | 46 | 0. | .0 | 58.0 | * |   | 4 APR 0700      | 80 | 0. | .0 | 58.0 |  |
| 1 APR 1200      | 13 | 48. | 6.5  | 60.2 | * |   | 2 APR 2200      | 47 | 0. | .0 | 58.0 | * |   | 4 APR 0800      | 81 | 0. | .0 | 58.0 |  |
| 1 APR 1300      | 14 | 51. | 7.1  | 60.2 | * |   | 2 APR 2300      | 48 | 0. | .0 | 58.0 | * |   | 4 APR 0900      | 82 | 0. | .0 | 58.0 |  |
| 1 APR 1400      | 15 | 57. | 8.3  | 60.4 | * |   | 3 APR 0000      | 49 | 0. | .0 | 58.0 | * |   | 4 APR 1000      | 83 | 0. | .0 | 58.0 |  |
| 1 APR 1500      | 16 | 64. | 9.9  | 60.6 | * |   | 3 APR 0100      | 50 | 0. | .0 | 58.0 | * |   | 4 APR 1100      | 84 | 0. | .0 | 58.0 |  |
| 1 APR 1600      | 17 | 71. | 11.1 | 60.7 | * |   | 3 APR 0200      | 51 | 0. | .0 | 58.0 | * |   | 4 APR 1200      | 85 | 0. | .0 | 58.0 |  |
| 1 APR 1700      | 18 | 71. | 11.1 | 60.7 | * |   | 3 APR 0300      | 52 | 0. | .0 | 58.0 | * |   | 4 APR 1300      | 86 | 0. | .0 | 58.0 |  |
| 1 APR 1800      | 19 | 62. | 9.3  | 60.5 | * |   | 3 APR 0400      | 53 | 0. | .0 | 58.0 | * |   | 4 APR 1400      | 87 | 0. | .0 | 58.0 |  |
| 1 APR 1900      | 20 | 49. | 6.6  | 60.2 | * |   | 3 APR 0500      | 54 | 0. | .0 | 58.0 | * |   | 4 APR 1500      | 88 | 0. | .0 | 58.0 |  |
| 1 APR 2000      | 21 | 32. | 4.5  | 59.8 | * |   | 3 APR 0600      | 55 | 0. | .0 | 58.0 | * |   | 4 APR 1600      | 89 | 0. | .0 | 58.0 |  |
| 1 APR 2100      | 22 | 19. | 3.3  | 59.3 | * |   | 3 APR 0700      | 56 | 0. | .0 | 58.0 | * |   | 4 APR 1700      | 90 | 0. | .0 | 58.0 |  |
| 1 APR 2200      | 23 | 14. | 2.7  | 59.0 | * |   | 3 APR 0800      | 57 | 0. | .0 | 58.0 | * |   | 4 APR 1800      | 91 | 0. | .0 | 58.0 |  |
| 1 APR 2300      | 24 | 11. | 2.3  | 58.9 | * |   | 3 APR 0900      | 58 | 0. | .0 | 58.0 | * |   | 4 APR 1900      | 92 | 0. | .0 | 58.0 |  |
| 2 APR 0000      | 25 | 9.  | 2.2  | 58.8 | * |   | 3 APR 1000      | 59 | 0. | .0 | 58.0 | * |   | 4 APR 2000      | 93 | 0. | .0 | 58.0 |  |
| 2 APR 0100      | 26 | 8.  | 2.0  | 58.8 | * |   | 3 APR 1100      | 60 | 0. | .0 | 58.0 | * |   | 4 APR 2100      | 94 | 0. | .0 | 58.0 |  |
| 2 APR 0200      | 27 | 6.  | 1.7  | 58.7 | * |   | 3 APR 1200      | 61 | 0. | .0 | 58.0 | * |   | 4 APR 2200      | 95 | 0. | .0 | 58.0 |  |
| 2 APR 0300      | 28 | 5.  | 1.4  | 58.5 | * |   | 3 APR 1300      | 62 | 0. | .0 | 58.0 | * |   | 4 APR 2300      | 96 | 0. | .0 | 58.0 |  |

| SJR_5-yr.out |    |    |     |      |   |            |    |    |    |      |   |            |     |    |    |      |
|--------------|----|----|-----|------|---|------------|----|----|----|------|---|------------|-----|----|----|------|
| 2 APR 0400   | 29 | 4. | 1.0 | 58.4 | * | 3 APR 1400 | 63 | 0. | .0 | 58.0 | * | 5 APR 0000 | 97  | 0. | .0 | 58.0 |
| 2 APR 0500   | 30 | 3. | .8  | 58.3 | * | 3 APR 1500 | 64 | 0. | .0 | 58.0 | * | 5 APR 0100 | 98  | 0. | .0 | 58.0 |
| 2 APR 0600   | 31 | 2. | .6  | 58.2 | * | 3 APR 1600 | 65 | 0. | .0 | 58.0 | * | 5 APR 0200 | 99  | 0. | .0 | 58.0 |
| 2 APR 0700   | 32 | 2. | .4  | 58.2 | * | 3 APR 1700 | 66 | 0. | .0 | 58.0 | * | 5 APR 0300 | 100 | 0. | .0 | 58.0 |
| 2 APR 0800   | 33 | 1. | .3  | 58.1 | * | 3 APR 1800 | 67 | 0. | .0 | 58.0 | * |            |     |    |    |      |
| 2 APR 0900   | 34 | 1. | .2  | 58.1 | * | 3 APR 1900 | 68 | 0. | .0 | 58.0 | * |            |     |    |    |      |

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| PEAK FLOW | TIME  |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------|-------|----------|
| +         | (CFS) | (HR)     |      |       |       |          |
|           |       | (CFS)    |      |       |       |          |
| +         | 71.   | 17.00    | 62.  | 31.   | 11.   | 8.       |
|           |       | (INCHES) | .134 | .268  | .275  | .275     |
|           |       | (AC-FT)  | 31.  | 62.   | 63.   | 63.      |

| PEAK STORAGE | TIME    |       | 6-HR | 24-HR | 72-HR | 99.00-HR |
|--------------|---------|-------|------|-------|-------|----------|
| +            | (AC-FT) | (HR)  |      |       |       |          |
|              | 11.     | 17.00 | 9.   | 5.    | 2.    | 1.       |

| PEAK STAGE | TIME   |       | 6-HR  | 24-HR | 72-HR | 99.00-HR |
|------------|--------|-------|-------|-------|-------|----------|
| +          | (FEET) | (HR)  |       |       |       |          |
|            | 60.72  | 17.00 | 60.52 | 59.57 | 58.55 | 58.40    |

CUMULATIVE AREA = 4.33 SQ MI

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 440 KK \* SA \*  
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AREA TRIBUTARY TO SINCLAIR BASIN

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

SUBBASIN RUNOFF DATA

442 BA SUBBASIN CHARACTERISTICS  
TAREA 4.34 SUBBASIN AREA

## PRECIPITATION DATA

443 PB STORM .27 BASIN TOTAL PRECIPITATION

445 PI INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .01 | .01 | .02 | .02 | .03 | .03 | .04 | .05 | .07 |
| .08 | .07 | .08 | .11 | .11 | .10 | .07 | .01 | .02 | .01 |
| .01 | .01 | .01 | .01 | .01 | .00 |     |     |     |     |

450 LU UNIFORM LOSS RATE

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

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

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## HYDROGRAPH AT STATION SA

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 1.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 7.     | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 10.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 13.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 16.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 20.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 22.    | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 28.    | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 35.    | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 46.    | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 56.    | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 56.    | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .02  | .00  | .02    | 58.    | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 79.    | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 83.    | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .03  | .00  | .03    | 80.    | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .02  | .00  | .02    | 62.    | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .00  | .00  | .00    | 26.    | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .01  | .00  | .01    | 17.    | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 12.    | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 10.    | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |

|   |     |      |    |     |     |     |    |   |   | SJR_5-yr.out |      |     |     |     |     |    |
|---|-----|------|----|-----|-----|-----|----|---|---|--------------|------|-----|-----|-----|-----|----|
| 1 | APR | 2200 | 23 | .00 | .00 | .00 | 9. | * | 4 | APR          | 0000 | 73  | .00 | .00 | .00 | 0. |
| 1 | APR | 2300 | 24 | .00 | .00 | .00 | 8. | * | 4 | APR          | 0100 | 74  | .00 | .00 | .00 | 0. |
| 2 | APR | 0000 | 25 | .00 | .00 | .00 | 7. | * | 4 | APR          | 0200 | 75  | .00 | .00 | .00 | 0. |
| 2 | APR | 0100 | 26 | .00 | .00 | .00 | 6. | * | 4 | APR          | 0300 | 76  | .00 | .00 | .00 | 0. |
| 2 | APR | 0200 | 27 | .00 | .00 | .00 | 2. | * | 4 | APR          | 0400 | 77  | .00 | .00 | .00 | 0. |
| 2 | APR | 0300 | 28 | .00 | .00 | .00 | 0. | * | 4 | APR          | 0500 | 78  | .00 | .00 | .00 | 0. |
| 2 | APR | 0400 | 29 | .00 | .00 | .00 | 0. | * | 4 | APR          | 0600 | 79  | .00 | .00 | .00 | 0. |
| 2 | APR | 0500 | 30 | .00 | .00 | .00 | 0. | * | 4 | APR          | 0700 | 80  | .00 | .00 | .00 | 0. |
| 2 | APR | 0600 | 31 | .00 | .00 | .00 | 0. | * | 4 | APR          | 0800 | 81  | .00 | .00 | .00 | 0. |
| 2 | APR | 0700 | 32 | .00 | .00 | .00 | 0. | * | 4 | APR          | 0900 | 82  | .00 | .00 | .00 | 0. |
| 2 | APR | 0800 | 33 | .00 | .00 | .00 | 0. | * | 4 | APR          | 1000 | 83  | .00 | .00 | .00 | 0. |
| 2 | APR | 0900 | 34 | .00 | .00 | .00 | 0. | * | 4 | APR          | 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 | APR | 1000 | 35 | .00 | .00 | .00 | 0. | * | 4 | APR          | 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 | APR | 1100 | 36 | .00 | .00 | .00 | 0. | * | 4 | APR          | 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 | APR | 1200 | 37 | .00 | .00 | .00 | 0. | * | 4 | APR          | 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 | APR | 1300 | 38 | .00 | .00 | .00 | 0. | * | 4 | APR          | 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 | APR | 1400 | 39 | .00 | .00 | .00 | 0. | * | 4 | APR          | 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 | APR | 1500 | 40 | .00 | .00 | .00 | 0. | * | 4 | APR          | 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 | APR | 1600 | 41 | .00 | .00 | .00 | 0. | * | 4 | APR          | 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 | APR | 1700 | 42 | .00 | .00 | .00 | 0. | * | 4 | APR          | 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 | APR | 1800 | 43 | .00 | .00 | .00 | 0. | * | 4 | APR          | 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 | APR | 1900 | 44 | .00 | .00 | .00 | 0. | * | 4 | APR          | 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 | APR | 2000 | 45 | .00 | .00 | .00 | 0. | * | 4 | APR          | 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 | APR | 2100 | 46 | .00 | .00 | .00 | 0. | * | 4 | APR          | 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 | APR | 2200 | 47 | .00 | .00 | .00 | 0. | * | 5 | APR          | 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 | APR | 2300 | 48 | .00 | .00 | .00 | 0. | * | 5 | APR          | 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 | APR | 0000 | 49 | .00 | .00 | .00 | 0. | * | 5 | APR          | 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 | APR | 0100 | 50 | .00 | .00 | .00 | 0. | * | 5 | APR          | 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .27, TOTAL LOSS = .00, TOTAL EXCESS = .27

| PEAK FLOW | TIME  |       | 6-HR     | MAXIMUM AVERAGE FLOW |       |          |      |
|-----------|-------|-------|----------|----------------------|-------|----------|------|
| +         | (CFS) | (HR)  |          | 24-HR                | 72-HR | 99.00-HR |      |
| +         | 83.   | 15.00 | (CFS)    | 69.                  | 32.   | 11.      | 8.   |
|           |       |       | (INCHES) | .148                 | .272  | .274     | .274 |
|           |       |       | (AC-FT)  | 34.                  | 63.   | 63.      | 63.  |

CUMULATIVE AREA = 4.34 SQ MI

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 455 KK \* CP1 \*

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## COMBINE ALL SUNNY/MOR BASIN OUTFLOWS

457 HC HYDROGRAPH COMBINATION  
ICOMP 4 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION CP1  
SUM OF 4 HYDROGRAPHS

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| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 71.  | * | 3  | APR | 0200 | 51  | 0.   | * | 4  | APR | 0300 | 76  | 0.   | * |
| 1  | APR | 0100 | 2   | 2.   | * | 2  | APR | 0200 | 27  | 48.  | * | 3  | APR | 0300 | 52  | 0.   | * | 4  | APR | 0400 | 77  | 0.   | * |
| 1  | APR | 0200 | 3   | 16.  | * | 2  | APR | 0300 | 28  | 33.  | * | 3  | APR | 0400 | 53  | 0.   | * | 4  | APR | 0500 | 78  | 0.   | * |
| 1  | APR | 0300 | 4   | 29.  | * | 2  | APR | 0400 | 29  | 23.  | * | 3  | APR | 0500 | 54  | 0.   | * | 4  | APR | 0600 | 79  | 0.   | * |
| 1  | APR | 0400 | 5   | 36.  | * | 2  | APR | 0500 | 30  | 8.   | * | 3  | APR | 0600 | 55  | 0.   | * | 4  | APR | 0700 | 80  | 0.   | * |
| 1  | APR | 0500 | 6   | 45.  | * | 2  | APR | 0600 | 31  | 2.   | * | 3  | APR | 0700 | 56  | 0.   | * | 4  | APR | 0800 | 81  | 0.   | * |
| 1  | APR | 0600 | 7   | 59.  | * | 2  | APR | 0700 | 32  | 2.   | * | 3  | APR | 0800 | 57  | 0.   | * | 4  | APR | 0900 | 82  | 0.   | * |
| 1  | APR | 0700 | 8   | 73.  | * | 2  | APR | 0800 | 33  | 1.   | * | 3  | APR | 0900 | 58  | 0.   | * | 4  | APR | 1000 | 83  | 0.   | * |
| 1  | APR | 0800 | 9   | 90.  | * | 2  | APR | 0900 | 34  | 1.   | * | 3  | APR | 1000 | 59  | 0.   | * | 4  | APR | 1100 | 84  | 0.   | * |
| 1  | APR | 0900 | 10  | 111. | * | 2  | APR | 1000 | 35  | 1.   | * | 3  | APR | 1100 | 60  | 0.   | * | 4  | APR | 1200 | 85  | 0.   | * |
| 1  | APR | 1000 | 11  | 144. | * | 2  | APR | 1100 | 36  | 0.   | * | 3  | APR | 1200 | 61  | 0.   | * | 4  | APR | 1300 | 86  | 0.   | * |
| 1  | APR | 1100 | 12  | 172. | * | 2  | APR | 1200 | 37  | 0.   | * | 3  | APR | 1300 | 62  | 0.   | * | 4  | APR | 1400 | 87  | 0.   | * |
| 1  | APR | 1200 | 13  | 184. | * | 2  | APR | 1300 | 38  | 0.   | * | 3  | APR | 1400 | 63  | 0.   | * | 4  | APR | 1500 | 88  | 0.   | * |
| 1  | APR | 1300 | 14  | 195. | * | 2  | APR | 1400 | 39  | 0.   | * | 3  | APR | 1500 | 64  | 0.   | * | 4  | APR | 1600 | 89  | 0.   | * |
| 1  | APR | 1400 | 15  | 229. | * | 2  | APR | 1500 | 40  | 0.   | * | 3  | APR | 1600 | 65  | 0.   | * | 4  | APR | 1700 | 90  | 0.   | * |
| 1  | APR | 1500 | 16  | 248. | * | 2  | APR | 1600 | 41  | 0.   | * | 3  | APR | 1700 | 66  | 0.   | * | 4  | APR | 1800 | 91  | 0.   | * |
| 1  | APR | 1600 | 17  | 255. | * | 2  | APR | 1700 | 42  | 0.   | * | 3  | APR | 1800 | 67  | 0.   | * | 4  | APR | 1900 | 92  | 0.   | * |
| 1  | APR | 1700 | 18  | 241. | * | 2  | APR | 1800 | 43  | 0.   | * | 3  | APR | 1900 | 68  | 0.   | * | 4  | APR | 2000 | 93  | 0.   | * |
| 1  | APR | 1800 | 19  | 192. | * | 2  | APR | 1900 | 44  | 0.   | * | 3  | APR | 2000 | 69  | 0.   | * | 4  | APR | 2100 | 94  | 0.   | * |
| 1  | APR | 1900 | 20  | 166. | * | 2  | APR | 2000 | 45  | 0.   | * | 3  | APR | 2100 | 70  | 0.   | * | 4  | APR | 2200 | 95  | 0.   | * |
| 1  | APR | 2000 | 21  | 142. | * | 2  | APR | 2100 | 46  | 0.   | * | 3  | APR | 2200 | 71  | 0.   | * | 4  | APR | 2300 | 96  | 0.   | * |
| 1  | APR | 2100 | 22  | 126. | * | 2  | APR | 2200 | 47  | 0.   | * | 3  | APR | 2300 | 72  | 0.   | * | 5  | APR | 0000 | 97  | 0.   | * |
| 1  | APR | 2200 | 23  | 116. | * | 2  | APR | 2300 | 48  | 0.   | * | 4  | APR | 0000 | 73  | 0.   | * | 5  | APR | 0100 | 98  | 0.   | * |
| 1  | APR | 2300 | 24  | 104. | * | 3  | APR | 0000 | 49  | 0.   | * | 4  | APR | 0100 | 74  | 0.   | * | 5  | APR | 0200 | 99  | 0.   | * |
| 2  | APR | 0000 | 25  | 86.  | * | 3  | APR | 0100 | 50  | 0.   | * | 4  | APR | 0200 | 75  | 0.   | * | 5  | APR | 0300 | 100 | 0.   | * |

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| PEAK FLOW | TIME  |          | MAXIMUM AVERAGE FLOW |       |       |          |
|-----------|-------|----------|----------------------|-------|-------|----------|
| (CFS)     | (HR)  |          | 6-HR                 | 24-HR | 72-HR | 99.00-HR |
| 255.      | 16.00 | (CFS)    | 226.                 | 132.  | 45.   | 33.      |
|           |       | (INCHES) | .107                 | .251  | .258  | .258     |

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SJR\_5-yr.out

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | * | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 5.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 46.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 90.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .00  | .00  | .00    | 124.   | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 161.   | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 204.   | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 244.   | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 294.   | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 367.   | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 474.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 598.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 655.   | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .02  | .00  | .02    | 681.   | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 828.   | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 956.   | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .02  | .00  | .02    | 968.   | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .02  | .00  | .02    | 868.   | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .00  | .00  | .00    | 583.   | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 363.   | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 279.   | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 217.   | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 177.   | * | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 149.   | * | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0000 | 25  | .00  | .00  | .00    | 125.   | * | 4  | APR | 0200 | 75  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0100 | 26  | .00  | .00  | .00    | 101.   | * | 4  | APR | 0300 | 76  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0200 | 27  | .00  | .00  | .00    | 62.    | * | 4  | APR | 0400 | 77  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0300 | 28  | .00  | .00  | .00    | 29.    | * | 4  | APR | 0500 | 78  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0400 | 29  | .00  | .00  | .00    | 16.    | * | 4  | APR | 0600 | 79  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0500 | 30  | .00  | .00  | .00    | 11.    | * | 4  | APR | 0700 | 80  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0600 | 31  | .00  | .00  | .00    | 7.     | * | 4  | APR | 0800 | 81  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0700 | 32  | .00  | .00  | .00    | 4.     | * | 4  | APR | 0900 | 82  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0800 | 33  | .00  | .00  | .00    | 3.     | * | 4  | APR | 1000 | 83  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0900 | 34  | .00  | .00  | .00    | 2.     | * | 4  | APR | 1100 | 84  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1000 | 35  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1200 | 85  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1100 | 36  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1300 | 86  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1200 | 37  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1400 | 87  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1300 | 38  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1500 | 88  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1400 | 39  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1600 | 89  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1500 | 40  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1700 | 90  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1600 | 41  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1800 | 91  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1700 | 42  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1900 | 92  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1800 | 43  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2000 | 93  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1900 | 44  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2100 | 94  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2000 | 45  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2200 | 95  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2100 | 46  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2300 | 96  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2200 | 47  | .00  | .00  | .00    | 0.     | * | 5  | APR | 0000 | 97  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2300 | 48  | .00  | .00  | .00    | 0.     | * | 5  | APR | 0100 | 98  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |    |              |            |     |     |     |     |    |
|------------|----|-----|-----|-----|----|--------------|------------|-----|-----|-----|-----|----|
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0. | SJR_5-yr.out | 5 APR 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0. | *            | 5 APR 0300 | 100 | .00 | .00 | .00 | 0. |
|            |    |     |     |     |    | *            |            |     |     |     |     |    |
|            |    |     |     |     |    | *            |            |     |     |     |     |    |

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TOTAL RAINFALL = .24, TOTAL LOSS = .00, TOTAL EXCESS = .24

| PEAK FLOW | TIME  |       | 6-HR     | MAXIMUM AVERAGE FLOW<br>24-HR | 72-HR | 99.00-HR |
|-----------|-------|-------|----------|-------------------------------|-------|----------|
| +         | (CFS) | (HR)  |          |                               |       |          |
| +         | 968.  | 16.00 | (CFS)    | 820.                          | 398.  | 135.     |
|           |       |       | (INCHES) | .121                          | .236  | .239     |
|           |       |       | (AC-FT)  | 407.                          | 790.  | 801.     |
|           |       |       |          |                               | 801.  | 801.     |

CUMULATIVE AREA = 62.87 SQ MI

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472 KK \* SEATA \*  
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AREA TRIBUTARY TO SEATON BASIN

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

SUBBASIN RUNOFF DATA

474 BA SUBBASIN CHARACTERISTICS  
TAREA 3.01 SUBBASIN AREA

PRECIPITATION DATA

475 PB STORM .25 BASIN TOTAL PRECIPITATION

477 PI INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .01 | .01 | .02 | .02 | .03 | .03 | .04 | .05 | .07 |
| .08 | .07 | .08 | .11 | .11 | .10 | .07 | .01 | .02 | .01 |
| .01 | .01 | .01 | .01 | .01 | .00 |     |     |     |     |

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

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

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# HYDROGRAPH AT STATION    SEATA

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q | * | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 1.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 5.     | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 6.     | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .00  | .00  | .00    | 8.     | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 10.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 13.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 14.    | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 18.    | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 22.    | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 29.    | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 36.    | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 35.    | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .02  | .00  | .02    | 37.    | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 50.    | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 52.    | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .03  | .00  | .03    | 50.    | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .02  | .00  | .02    | 39.    | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .00  | .00  | .00    | 15.    | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 10.    | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 7.     | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 6.     | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 5.     | * | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 5.     | * | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0000 | 25  | .00  | .00  | .00    | 4.     | * | 4  | APR | 0200 | 75  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0100 | 26  | .00  | .00  | .00    | 4.     | * | 4  | APR | 0300 | 76  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0200 | 27  | .00  | .00  | .00    | 1.     | * | 4  | APR | 0400 | 77  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0300 | 28  | .00  | .00  | .00    | 0.     | * | 4  | APR | 0500 | 78  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0400 | 29  | .00  | .00  | .00    | 0.     | * | 4  | APR | 0600 | 79  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0500 | 30  | .00  | .00  | .00    | 0.     | * | 4  | APR | 0700 | 80  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0600 | 31  | .00  | .00  | .00    | 0.     | * | 4  | APR | 0800 | 81  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0700 | 32  | .00  | .00  | .00    | 0.     | * | 4  | APR | 0900 | 82  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0800 | 33  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1000 | 83  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0900 | 34  | .00  | .00  | .00    | 0.     | * | 4  | APR | 1100 | 84  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |    |   | SJR_5-yr.out |     |     |     |     |    |  |
|------------|----|-----|-----|-----|----|---|--------------|-----|-----|-----|-----|----|--|
| 2 APR 1000 | 35 | .00 | .00 | .00 | 0. | * | 4 APR 1200   | 85  | .00 | .00 | .00 | 0. |  |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 0. | * | 4 APR 1300   | 86  | .00 | .00 | .00 | 0. |  |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 0. | * | 4 APR 1400   | 87  | .00 | .00 | .00 | 0. |  |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 0. | * | 4 APR 1500   | 88  | .00 | .00 | .00 | 0. |  |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0. | * | 4 APR 1600   | 89  | .00 | .00 | .00 | 0. |  |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0. | * | 4 APR 1700   | 90  | .00 | .00 | .00 | 0. |  |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0. | * | 4 APR 1800   | 91  | .00 | .00 | .00 | 0. |  |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0. | * | 4 APR 1900   | 92  | .00 | .00 | .00 | 0. |  |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0. | * | 4 APR 2000   | 93  | .00 | .00 | .00 | 0. |  |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0. | * | 4 APR 2100   | 94  | .00 | .00 | .00 | 0. |  |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0. | * | 4 APR 2200   | 95  | .00 | .00 | .00 | 0. |  |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0. | * | 4 APR 2300   | 96  | .00 | .00 | .00 | 0. |  |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0. | * | 5 APR 0000   | 97  | .00 | .00 | .00 | 0. |  |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0. | * | 5 APR 0100   | 98  | .00 | .00 | .00 | 0. |  |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0. | * | 5 APR 0200   | 99  | .00 | .00 | .00 | 0. |  |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0. | * | 5 APR 0300   | 100 | .00 | .00 | .00 | 0. |  |

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TOTAL RAINFALL = .25, TOTAL LOSS = .00, TOTAL EXCESS = .25

| PEAK FLOW | TIME  |       | 6-HR     | MAXIMUM AVERAGE FLOW | 72-HR | 99.00-HR |      |
|-----------|-------|-------|----------|----------------------|-------|----------|------|
| +         | (CFS) | (HR)  |          | 24-HR                |       |          |      |
| +         | 52.   | 15.00 | (CFS)    | 44.                  | 20.   | 7.       | 5.   |
|           |       |       | (INCHES) | .135                 | .247  | .249     | .249 |
|           |       |       | (AC-FT)  | 22.                  | 40.   | 40.      | 40.  |

CUMULATIVE AREA = 3.01 SQ MI

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

489 HC HYDROGRAPH COMBINATION  
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION CP4

SJR\_5-yr.out  
SUM OF 3 HYDROGRAPHS

|       |     |      |     |       |   |    |     |      |     |      |   |    |     |      |     |      |   |
|-------|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| ***** |     |      |     |       |   |    |     |      |     |      |   |    |     |      |     |      |   |
|       |     |      |     | *     |   |    |     |      | *   |      |   |    |     | *    |     |      |   |
| DA    | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
|       |     |      |     |       | * |    |     |      |     |      | * |    |     |      |     |      | * |
| 1     | APR | 0000 | 1   | 0.    | * | 2  | APR | 0100 | 26  | 175. | * | 3  | APR | 0200 | 51  | 0.   | * |
| 1     | APR | 0100 | 2   | 8.    | * | 2  | APR | 0200 | 27  | 112. | * | 3  | APR | 0300 | 52  | 0.   | * |
| 1     | APR | 0200 | 3   | 67.   | * | 2  | APR | 0300 | 28  | 62.  | * | 3  | APR | 0400 | 53  | 0.   | * |
| 1     | APR | 0300 | 4   | 125.  | * | 2  | APR | 0400 | 29  | 39.  | * | 3  | APR | 0500 | 54  | 0.   | * |
| 1     | APR | 0400 | 5   | 169.  | * | 2  | APR | 0500 | 30  | 19.  | * | 3  | APR | 0600 | 55  | 0.   | * |
| 1     | APR | 0500 | 6   | 216.  | * | 2  | APR | 0600 | 31  | 9.   | * | 3  | APR | 0700 | 56  | 0.   | * |
| 1     | APR | 0600 | 7   | 276.  | * | 2  | APR | 0700 | 32  | 6.   | * | 3  | APR | 0800 | 57  | 0.   | * |
| 1     | APR | 0700 | 8   | 331.  | * | 2  | APR | 0800 | 33  | 4.   | * | 3  | APR | 0900 | 58  | 0.   | * |
| 1     | APR | 0800 | 9   | 401.  | * | 2  | APR | 0900 | 34  | 2.   | * | 3  | APR | 1000 | 59  | 0.   | * |
| 1     | APR | 0900 | 10  | 500.  | * | 2  | APR | 1000 | 35  | 1.   | * | 3  | APR | 1100 | 60  | 0.   | * |
| 1     | APR | 1000 | 11  | 647.  | * | 2  | APR | 1100 | 36  | 1.   | * | 3  | APR | 1200 | 61  | 0.   | * |
| 1     | APR | 1100 | 12  | 806.  | * | 2  | APR | 1200 | 37  | 0.   | * | 3  | APR | 1300 | 62  | 0.   | * |
| 1     | APR | 1200 | 13  | 874.  | * | 2  | APR | 1300 | 38  | 0.   | * | 3  | APR | 1400 | 63  | 0.   | * |
| 1     | APR | 1300 | 14  | 913.  | * | 2  | APR | 1400 | 39  | 0.   | * | 3  | APR | 1500 | 64  | 0.   | * |
| 1     | APR | 1400 | 15  | 1107. | * | 2  | APR | 1500 | 40  | 0.   | * | 3  | APR | 1600 | 65  | 0.   | * |
| 1     | APR | 1500 | 16  | 1256. | * | 2  | APR | 1600 | 41  | 0.   | * | 3  | APR | 1700 | 66  | 0.   | * |
| 1     | APR | 1600 | 17  | 1273. | * | 2  | APR | 1700 | 42  | 0.   | * | 3  | APR | 1800 | 67  | 0.   | * |
| 1     | APR | 1700 | 18  | 1148. | * | 2  | APR | 1800 | 43  | 0.   | * | 3  | APR | 1900 | 68  | 0.   | * |
| 1     | APR | 1800 | 19  | 790.  | * | 2  | APR | 1900 | 44  | 0.   | * | 3  | APR | 2000 | 69  | 0.   | * |
| 1     | APR | 1900 | 20  | 539.  | * | 2  | APR | 2000 | 45  | 0.   | * | 3  | APR | 2100 | 70  | 0.   | * |
| 1     | APR | 2000 | 21  | 429.  | * | 2  | APR | 2100 | 46  | 0.   | * | 3  | APR | 2200 | 71  | 0.   | * |
| 1     | APR | 2100 | 22  | 349.  | * | 2  | APR | 2200 | 47  | 0.   | * | 3  | APR | 2300 | 72  | 0.   | * |
| 1     | APR | 2200 | 23  | 299.  | * | 2  | APR | 2300 | 48  | 0.   | * | 4  | APR | 0000 | 73  | 0.   | * |
| 1     | APR | 2300 | 24  | 258.  | * | 3  | APR | 0000 | 49  | 0.   | * | 4  | APR | 0100 | 74  | 0.   | * |
| 2     | APR | 0000 | 25  | 216.  | * | 3  | APR | 0100 | 50  | 0.   | * | 4  | APR | 0200 | 75  | 0.   | * |
| ***** |     |      |     |       |   |    |     |      |     |      |   |    |     |      |     |      |   |

| PEAK FLOW |       | TIME     | MAXIMUM AVERAGE FLOW |       |       |          |
|-----------|-------|----------|----------------------|-------|-------|----------|
| +         | (CFS) | (HR)     | 6-HR                 | 24-HR | 72-HR | 99.00-HR |
|           |       |          |                      |       |       |          |
| +         | 1273. | 16.00    | 1088.                | 549.  | 187.  | 136.     |
|           |       | (INCHES) | .118                 | .239  | .244  | .244     |
|           |       | (AC-FT)  | 540.                 | 1090. | 1110. | 1110.    |

CUMULATIVE AREA = 85.44 SQ MI

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490 KK      \*      COMB      \*  
              \*                \*  
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## COMBINED PERRIS VALLEY WITH THE PREVIOUS HYDROGRAPHS

492 HC                HYDROGRAPH COMBINATION  
                       ICOMP                2    NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION      COMB  
 SUM OF 2 HYDROGRAPHS

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| DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| 1  | APR | 0000 | 1   | 0.    | * | 2  | APR | 0100 | 26  | 370. | * | 3  | APR | 0200 | 51  | 273. | * | 4  | APR | 0300 | 76  | 520. | * |
| 1  | APR | 0100 | 2   | 11.   | * | 2  | APR | 0200 | 27  | 301. | * | 3  | APR | 0300 | 52  | 280. | * | 4  | APR | 0400 | 77  | 523. | * |
| 1  | APR | 0200 | 3   | 84.   | * | 2  | APR | 0300 | 28  | 247. | * | 3  | APR | 0400 | 53  | 287. | * | 4  | APR | 0500 | 78  | 525. | * |
| 1  | APR | 0300 | 4   | 161.  | * | 2  | APR | 0400 | 29  | 225. | * | 3  | APR | 0500 | 54  | 295. | * | 4  | APR | 0600 | 79  | 527. | * |
| 1  | APR | 0400 | 5   | 218.  | * | 2  | APR | 0500 | 30  | 208. | * | 3  | APR | 0600 | 55  | 304. | * | 4  | APR | 0700 | 80  | 528. | * |
| 1  | APR | 0500 | 6   | 281.  | * | 2  | APR | 0600 | 31  | 202. | * | 3  | APR | 0700 | 56  | 314. | * | 4  | APR | 0800 | 81  | 528. | * |
| 1  | APR | 0600 | 7   | 358.  | * | 2  | APR | 0700 | 32  | 203. | * | 3  | APR | 0800 | 57  | 325. | * | 4  | APR | 0900 | 82  | 528. | * |
| 1  | APR | 0700 | 8   | 433.  | * | 2  | APR | 0800 | 33  | 206. | * | 3  | APR | 0900 | 58  | 336. | * | 4  | APR | 1000 | 83  | 528. | * |
| 1  | APR | 0800 | 9   | 525.  | * | 2  | APR | 0900 | 34  | 209. | * | 3  | APR | 1000 | 59  | 348. | * | 4  | APR | 1100 | 84  | 527. | * |
| 1  | APR | 0900 | 10  | 655.  | * | 2  | APR | 1000 | 35  | 212. | * | 3  | APR | 1100 | 60  | 360. | * | 4  | APR | 1200 | 85  | 526. | * |
| 1  | APR | 1000 | 11  | 849.  | * | 2  | APR | 1100 | 36  | 216. | * | 3  | APR | 1200 | 61  | 373. | * | 4  | APR | 1300 | 86  | 525. | * |
| 1  | APR | 1100 | 12  | 1055. | * | 2  | APR | 1200 | 37  | 219. | * | 3  | APR | 1300 | 62  | 385. | * | 4  | APR | 1400 | 87  | 523. | * |
| 1  | APR | 1200 | 13  | 1155. | * | 2  | APR | 1300 | 38  | 222. | * | 3  | APR | 1400 | 63  | 398. | * | 4  | APR | 1500 | 88  | 521. | * |
| 1  | APR | 1300 | 14  | 1218. | * | 2  | APR | 1400 | 39  | 225. | * | 3  | APR | 1500 | 64  | 411. | * | 4  | APR | 1600 | 89  | 520. | * |
| 1  | APR | 1400 | 15  | 1475. | * | 2  | APR | 1500 | 40  | 228. | * | 3  | APR | 1600 | 65  | 424. | * | 4  | APR | 1700 | 90  | 518. | * |
| 1  | APR | 1500 | 16  | 1683. | * | 2  | APR | 1600 | 41  | 231. | * | 3  | APR | 1700 | 66  | 436. | * | 4  | APR | 1800 | 91  | 516. | * |
| 1  | APR | 1600 | 17  | 1711. | * | 2  | APR | 1700 | 42  | 234. | * | 3  | APR | 1800 | 67  | 448. | * | 4  | APR | 1900 | 92  | 515. | * |
| 1  | APR | 1700 | 18  | 1556. | * | 2  | APR | 1800 | 43  | 238. | * | 3  | APR | 1900 | 68  | 459. | * | 4  | APR | 2000 | 93  | 513. | * |
| 1  | APR | 1800 | 19  | 1109. | * | 2  | APR | 1900 | 44  | 241. | * | 3  | APR | 2000 | 69  | 470. | * | 4  | APR | 2100 | 94  | 511. | * |
| 1  | APR | 1900 | 20  | 787.  | * | 2  | APR | 2000 | 45  | 244. | * | 3  | APR | 2100 | 70  | 479. | * | 4  | APR | 2200 | 95  | 510. | * |
| 1  | APR | 2000 | 21  | 650.  | * | 2  | APR | 2100 | 46  | 248. | * | 3  | APR | 2200 | 71  | 488. | * | 4  | APR | 2300 | 96  | 508. | * |
| 1  | APR | 2100 | 22  | 554.  | * | 2  | APR | 2200 | 47  | 252. | * | 3  | APR | 2300 | 72  | 496. | * | 5  | APR | 0000 | 97  | 506. | * |
| 1  | APR | 2200 | 23  | 498.  | * | 2  | APR | 2300 | 48  | 257. | * | 4  | APR | 0000 | 73  | 503. | * | 5  | APR | 0100 | 98  | 505. | * |
| 1  | APR | 2300 | 24  | 456.  | * | 3  | APR | 0000 | 49  | 262. | * | 4  | APR | 0100 | 74  | 510. | * | 5  | APR | 0200 | 99  | 503. | * |
| 2  | APR | 0000 | 25  | 413.  | * | 3  | APR | 0100 | 50  | 267. | * | 4  | APR | 0200 | 75  | 515. | * | 5  | APR | 0300 | 100 | 502. | * |

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| PEAK FLOW | TIME  |       | 6-HR  | MAXIMUM AVERAGE FLOW | 99.00-HR |
|-----------|-------|-------|-------|----------------------|----------|
| (CFS)     | (HR)  |       |       | 24-HR                | 72-HR    |
| +         | 1711. | 16.00 | 1463. | 773.                 | 484.     |
| +         |       |       |       |                      | 470.     |

|          |      |       |              |       |
|----------|------|-------|--------------|-------|
|          |      |       | SJR_5-yr.out |       |
| (INCHES) | .025 | .052  | .098         | .131  |
| (AC-FT)  | 725. | 1534. | 2881.        | 3842. |

CUMULATIVE AREA = 549.92 SQ MI

\*\*\* \*\*

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

```

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

```

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

```

# SUBBASIN RUNOFF DATA

```

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

```

# PRECIPITATION DATA

```

498 PB STORM .26 BASIN TOTAL PRECIPITATION

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500 PI INCREMENTAL PRECIPITATION PATTERN
      .00 .01 .01 .02 .02 .03 .03 .04 .05 .07
      .08 .07 .08 .12 .11 .10 .06 .02 .02 .01
      .01 .01 .01 .01 .01 .00

```

```

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

```

```

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

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SJR\_5-yr.out

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HYDROGRAPH AT STATION 15B

\*\*\*\*\*

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

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

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TOTAL RAINFALL = .26, TOTAL LOSS = .00, TOTAL EXCESS = .26

| PEAK FLOW<br>(CFS) | TIME<br>(HR) |          | 6-HR       | MAXIMUM AVERAGE FLOW<br>24-HR | 72-HR | 99.00-HR |
|--------------------|--------------|----------|------------|-------------------------------|-------|----------|
| +                  | 76.          | 15.00    | 64.        | 29.                           | 10.   | 7.       |
|                    |              | (INCHES) | .139       | .254                          | .256  | .256     |
|                    |              | (AC-FT)  | 32.        | 58.                           | 58.   | 58.      |
| CUMULATIVE AREA =  |              |          | 4.27 SQ MI |                               |       |          |

HYDROGRAPH MULTIPLIED BY .30

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HYDROGRAPH AT STATION 15B

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

| SJR_5-yr.out |    |    |   |            |    |    |   |            |    |    |   |            |     |    |
|--------------|----|----|---|------------|----|----|---|------------|----|----|---|------------|-----|----|
| 1 APR 2000   | 21 | 3. | * | 2 APR 2100 | 46 | 0. | * | 3 APR 2200 | 71 | 0. | * | 4 APR 2300 | 96  | 0. |
| 1 APR 2100   | 22 | 3. | * | 2 APR 2200 | 47 | 0. | * | 3 APR 2300 | 72 | 0. | * | 5 APR 0000 | 97  | 0. |
| 1 APR 2200   | 23 | 2. | * | 2 APR 2300 | 48 | 0. | * | 4 APR 0000 | 73 | 0. | * | 5 APR 0100 | 98  | 0. |
| 1 APR 2300   | 24 | 2. | * | 3 APR 0000 | 49 | 0. | * | 4 APR 0100 | 74 | 0. | * | 5 APR 0200 | 99  | 0. |
| 2 APR 0000   | 25 | 2. | * | 3 APR 0100 | 50 | 0. | * | 4 APR 0200 | 75 | 0. | * | 5 APR 0300 | 100 | 0. |

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| PEAK FLOW         | TIME |          | MAXIMUM AVERAGE FLOW |       |       |          |
|-------------------|------|----------|----------------------|-------|-------|----------|
| (CFS)             | (HR) |          | 6-HR                 | 24-HR | 72-HR | 99.00-HR |
| +                 | 23.  | 15.00    |                      |       |       |          |
|                   |      | (CFS)    | 19.                  | 9.    | 3.    | 2.       |
|                   |      | (INCHES) | .042                 | .076  | .077  | .077     |
|                   |      | (AC-FT)  | 9.                   | 17.   | 17.   | 17.      |
| CUMULATIVE AREA = |      |          | 4.27 SQ MI           |       |       |          |

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

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UHG 70% VALLEY

517 IN      TIME DATA FOR INPUT TIME SERIES

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

UHG FROM VALLEY S-GRAPH

SUBBASIN RUNOFF DATA

515 BA      SUBBASIN CHARACTERISTICS

|       |      |                             |
|-------|------|-----------------------------|
| TAREA | 4.27 | SUBBASIN AREA               |
| SNAP  | .00  | NORMAL ANNUAL PRECIPITATION |
| RATIO | .70  | RATIO OF HYDROGRAPH         |

PRECIPITATION DATA

516 PB      STORM      .26      BASIN TOTAL PRECIPITATION

518 PI      INCREMENTAL PRECIPITATION PATTERN

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .00 | .01 | .01 | .02 | .02 | .03 | .03 | .04 | .05 | .07 |
| .08 | .07 | .08 | .12 | .11 | .10 | .06 | .02 | .02 | .01 |
| .01 | .01 | .01 | .01 | .01 | .00 |     |     |     |     |

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

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

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HYDROGRAPH AT STATION        15B1

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

|            |    |     |     |     |    |   | SJR_5-yr.out |     |     |     |     |    |  |
|------------|----|-----|-----|-----|----|---|--------------|-----|-----|-----|-----|----|--|
| 2 APR 0900 | 34 | .00 | .00 | .00 | 0. | * | 4 APR 1100   | 84  | .00 | .00 | .00 | 0. |  |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 0. | * | 4 APR 1200   | 85  | .00 | .00 | .00 | 0. |  |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 0. | * | 4 APR 1300   | 86  | .00 | .00 | .00 | 0. |  |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 0. | * | 4 APR 1400   | 87  | .00 | .00 | .00 | 0. |  |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 0. | * | 4 APR 1500   | 88  | .00 | .00 | .00 | 0. |  |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0. | * | 4 APR 1600   | 89  | .00 | .00 | .00 | 0. |  |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0. | * | 4 APR 1700   | 90  | .00 | .00 | .00 | 0. |  |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0. | * | 4 APR 1800   | 91  | .00 | .00 | .00 | 0. |  |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0. | * | 4 APR 1900   | 92  | .00 | .00 | .00 | 0. |  |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0. | * | 4 APR 2000   | 93  | .00 | .00 | .00 | 0. |  |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0. | * | 4 APR 2100   | 94  | .00 | .00 | .00 | 0. |  |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0. | * | 4 APR 2200   | 95  | .00 | .00 | .00 | 0. |  |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0. | * | 4 APR 2300   | 96  | .00 | .00 | .00 | 0. |  |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0. | * | 5 APR 0000   | 97  | .00 | .00 | .00 | 0. |  |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0. | * | 5 APR 0100   | 98  | .00 | .00 | .00 | 0. |  |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0. | * | 5 APR 0200   | 99  | .00 | .00 | .00 | 0. |  |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0. | * | 5 APR 0300   | 100 | .00 | .00 | .00 | 0. |  |

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TOTAL RAINFALL = .26, TOTAL LOSS = .00, TOTAL EXCESS = .26

| PEAK FLOW         | TIME |          | 6-HR       | 24-HR | 72-HR | 99.00-HR |
|-------------------|------|----------|------------|-------|-------|----------|
| (CFS)             | (HR) | (CFS)    |            |       |       |          |
| +                 |      |          |            |       |       |          |
| +                 | 74.  | 15.00    | 63.        | 29.   | 10.   | 7.       |
|                   |      | (INCHES) | .137       | .254  | .256  | .256     |
|                   |      | (AC-FT)  | 31.        | 58.   | 58.   | 58.      |
| CUMULATIVE AREA = |      |          | 4.27 SQ MI |       |       |          |

HYDROGRAPH MULTIPLIED BY .70

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HYDROGRAPH AT STATION 15B1

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| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW |
|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 3.   | * | 3  | APR | 0200 | 51  | 0.   | * | 4  | APR | 0300 | 76  | 0.   |
| 1  | APR | 0100 | 2   | 1.   | * | 2  | APR | 0200 | 27  | 1.   | * | 3  | APR | 0300 | 52  | 0.   | * | 4  | APR | 0400 | 77  | 0.   |
| 1  | APR | 0200 | 3   | 5.   | * | 2  | APR | 0300 | 28  | 0.   | * | 3  | APR | 0400 | 53  | 0.   | * | 4  | APR | 0500 | 78  | 0.   |
| 1  | APR | 0300 | 4   | 6.   | * | 2  | APR | 0400 | 29  | 0.   | * | 3  | APR | 0500 | 54  | 0.   | * | 4  | APR | 0600 | 79  | 0.   |
| 1  | APR | 0400 | 5   | 8.   | * | 2  | APR | 0500 | 30  | 0.   | * | 3  | APR | 0600 | 55  | 0.   | * | 4  | APR | 0700 | 80  | 0.   |
| 1  | APR | 0500 | 6   | 10.  | * | 2  | APR | 0600 | 31  | 0.   | * | 3  | APR | 0700 | 56  | 0.   | * | 4  | APR | 0800 | 81  | 0.   |
| 1  | APR | 0600 | 7   | 13.  | * | 2  | APR | 0700 | 32  | 0.   | * | 3  | APR | 0800 | 57  | 0.   | * | 4  | APR | 0900 | 82  | 0.   |
| 1  | APR | 0700 | 8   | 15.  | * | 2  | APR | 0800 | 33  | 0.   | * | 3  | APR | 0900 | 58  | 0.   | * | 4  | APR | 1000 | 83  | 0.   |
| 1  | APR | 0800 | 9   | 18.  | * | 2  | APR | 0900 | 34  | 0.   | * | 3  | APR | 1000 | 59  | 0.   | * | 4  | APR | 1100 | 84  | 0.   |

| SJR_5-yr.out |    |     |   |            |    |    |   |            |    |    |   |            |     |    |
|--------------|----|-----|---|------------|----|----|---|------------|----|----|---|------------|-----|----|
| 1 APR 0900   | 10 | 23. | * | 2 APR 1000 | 35 | 0. | * | 3 APR 1100 | 60 | 0. | * | 4 APR 1200 | 85  | 0. |
| 1 APR 1000   | 11 | 30. | * | 2 APR 1100 | 36 | 0. | * | 3 APR 1200 | 61 | 0. | * | 4 APR 1300 | 86  | 0. |
| 1 APR 1100   | 12 | 35. | * | 2 APR 1200 | 37 | 0. | * | 3 APR 1300 | 62 | 0. | * | 4 APR 1400 | 87  | 0. |
| 1 APR 1200   | 13 | 36. | * | 2 APR 1300 | 38 | 0. | * | 3 APR 1400 | 63 | 0. | * | 4 APR 1500 | 88  | 0. |
| 1 APR 1300   | 14 | 38. | * | 2 APR 1400 | 39 | 0. | * | 3 APR 1500 | 64 | 0. | * | 4 APR 1600 | 89  | 0. |
| 1 APR 1400   | 15 | 52. | * | 2 APR 1500 | 40 | 0. | * | 3 APR 1600 | 65 | 0. | * | 4 APR 1700 | 90  | 0. |
| 1 APR 1500   | 16 | 52. | * | 2 APR 1600 | 41 | 0. | * | 3 APR 1700 | 66 | 0. | * | 4 APR 1800 | 91  | 0. |
| 1 APR 1600   | 17 | 50. | * | 2 APR 1700 | 42 | 0. | * | 3 APR 1800 | 67 | 0. | * | 4 APR 1900 | 92  | 0. |
| 1 APR 1700   | 18 | 38. | * | 2 APR 1800 | 43 | 0. | * | 3 APR 1900 | 68 | 0. | * | 4 APR 2000 | 93  | 0. |
| 1 APR 1800   | 19 | 17. | * | 2 APR 1900 | 44 | 0. | * | 3 APR 2000 | 69 | 0. | * | 4 APR 2100 | 94  | 0. |
| 1 APR 1900   | 20 | 13. | * | 2 APR 2000 | 45 | 0. | * | 3 APR 2100 | 70 | 0. | * | 4 APR 2200 | 95  | 0. |
| 1 APR 2000   | 21 | 8.  | * | 2 APR 2100 | 46 | 0. | * | 3 APR 2200 | 71 | 0. | * | 4 APR 2300 | 96  | 0. |
| 1 APR 2100   | 22 | 7.  | * | 2 APR 2200 | 47 | 0. | * | 3 APR 2300 | 72 | 0. | * | 5 APR 0000 | 97  | 0. |
| 1 APR 2200   | 23 | 6.  | * | 2 APR 2300 | 48 | 0. | * | 4 APR 0000 | 73 | 0. | * | 5 APR 0100 | 98  | 0. |
| 1 APR 2300   | 24 | 5.  | * | 3 APR 0000 | 49 | 0. | * | 4 APR 0100 | 74 | 0. | * | 5 APR 0200 | 99  | 0. |
| 2 APR 0000   | 25 | 4.  | * | 3 APR 0100 | 50 | 0. | * | 4 APR 0200 | 75 | 0. | * | 5 APR 0300 | 100 | 0. |

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| PEAK FLOW         | TIME  |       | 6-HR     | MAXIMUM AVERAGE FLOW | 24-HR | 72-HR | 99.00-HR |
|-------------------|-------|-------|----------|----------------------|-------|-------|----------|
| +                 | (CFS) | (HR)  |          |                      |       |       |          |
| +                 | 52.   | 15.00 | (CFS)    | 44.                  | 20.   | 7.    | 5.       |
|                   |       |       | (INCHES) | .096                 | .178  | .179  | .179     |
|                   |       |       | (AC-FT)  | 22.                  | 40.   | 41.   | 41.      |
| CUMULATIVE AREA = |       |       |          | 4.27 SQ MI           |       |       |          |

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531 KK      \*      15B7      \*      TOTAL ROMOLAND SUB-AREA COMBINED AT THE U/S OF I-215 FWY PER CDJ

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532 HC      HYDROGRAPH COMBINATION

             ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION      15B7

SUM OF      2      HYDROGRAPHS

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SJR\_5-yr.out

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

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| PEAK FLOW | TIME  |          | 6-HR | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|------|-------|-------|----------|
| +         | (CFS) | (HR)     |      |       |       |          |
| +         | 75.   | 15.00    |      |       |       |          |
|           |       | (CFS)    | 63.  | 29.   | 10.   | 7.       |
|           |       | (INCHES) | .069 | .127  | .128  | .128     |
|           |       | (AC-FT)  | 31.  | 58.   | 58.   | 58.      |

CUMULATIVE AREA = 8.54 SQ MI

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533 KK H US@215

SJR\_5-yr.out  
US@215  
COMBINE THE NUEVO RD., PERRIS, AND ROMOLAND HYDROGRAPHS

536 HC                    HYDROGRAPH COMBINATION  
                             ICOMP                    2    NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION    H  
SUM OF    2 HYDROGRAPHS

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| DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW |
|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|
|    |     |      |     |       | * |    |     |      |     |      | * |    |     |      |     |      | * |    |     |      |     |      |
| 1  | APR | 0000 | 1   | 0.    | * | 2  | APR | 0100 | 26  | 375. | * | 3  | APR | 0200 | 51  | 273. | * | 4  | APR | 0300 | 76  | 520. |
| 1  | APR | 0100 | 2   | 12.   | * | 2  | APR | 0200 | 27  | 303. | * | 3  | APR | 0300 | 52  | 280. | * | 4  | APR | 0400 | 77  | 523. |
| 1  | APR | 0200 | 3   | 91.   | * | 2  | APR | 0300 | 28  | 247. | * | 3  | APR | 0400 | 53  | 287. | * | 4  | APR | 0500 | 78  | 525. |
| 1  | APR | 0300 | 4   | 169.  | * | 2  | APR | 0400 | 29  | 226. | * | 3  | APR | 0500 | 54  | 295. | * | 4  | APR | 0600 | 79  | 527. |
| 1  | APR | 0400 | 5   | 230.  | * | 2  | APR | 0500 | 30  | 208. | * | 3  | APR | 0600 | 55  | 304. | * | 4  | APR | 0700 | 80  | 528. |
| 1  | APR | 0500 | 6   | 296.  | * | 2  | APR | 0600 | 31  | 202. | * | 3  | APR | 0700 | 56  | 314. | * | 4  | APR | 0800 | 81  | 528. |
| 1  | APR | 0600 | 7   | 376.  | * | 2  | APR | 0700 | 32  | 203. | * | 3  | APR | 0800 | 57  | 325. | * | 4  | APR | 0900 | 82  | 528. |
| 1  | APR | 0700 | 8   | 454.  | * | 2  | APR | 0800 | 33  | 206. | * | 3  | APR | 0900 | 58  | 336. | * | 4  | APR | 1000 | 83  | 528. |
| 1  | APR | 0800 | 9   | 550.  | * | 2  | APR | 0900 | 34  | 209. | * | 3  | APR | 1000 | 59  | 348. | * | 4  | APR | 1100 | 84  | 527. |
| 1  | APR | 0900 | 10  | 688.  | * | 2  | APR | 1000 | 35  | 212. | * | 3  | APR | 1100 | 60  | 360. | * | 4  | APR | 1200 | 85  | 526. |
| 1  | APR | 1000 | 11  | 891.  | * | 2  | APR | 1100 | 36  | 216. | * | 3  | APR | 1200 | 61  | 373. | * | 4  | APR | 1300 | 86  | 525. |
| 1  | APR | 1100 | 12  | 1106. | * | 2  | APR | 1200 | 37  | 219. | * | 3  | APR | 1300 | 62  | 385. | * | 4  | APR | 1400 | 87  | 523. |
| 1  | APR | 1200 | 13  | 1207. | * | 2  | APR | 1300 | 38  | 222. | * | 3  | APR | 1400 | 63  | 398. | * | 4  | APR | 1500 | 88  | 521. |
| 1  | APR | 1300 | 14  | 1273. | * | 2  | APR | 1400 | 39  | 225. | * | 3  | APR | 1500 | 64  | 411. | * | 4  | APR | 1600 | 89  | 520. |
| 1  | APR | 1400 | 15  | 1549. | * | 2  | APR | 1500 | 40  | 228. | * | 3  | APR | 1600 | 65  | 424. | * | 4  | APR | 1700 | 90  | 518. |
| 1  | APR | 1500 | 16  | 1758. | * | 2  | APR | 1600 | 41  | 231. | * | 3  | APR | 1700 | 66  | 436. | * | 4  | APR | 1800 | 91  | 516. |
| 1  | APR | 1600 | 17  | 1783. | * | 2  | APR | 1700 | 42  | 234. | * | 3  | APR | 1800 | 67  | 448. | * | 4  | APR | 1900 | 92  | 515. |
| 1  | APR | 1700 | 18  | 1610. | * | 2  | APR | 1800 | 43  | 238. | * | 3  | APR | 1900 | 68  | 459. | * | 4  | APR | 2000 | 93  | 513. |
| 1  | APR | 1800 | 19  | 1133. | * | 2  | APR | 1900 | 44  | 241. | * | 3  | APR | 2000 | 69  | 470. | * | 4  | APR | 2100 | 94  | 511. |
| 1  | APR | 1900 | 20  | 804.  | * | 2  | APR | 2000 | 45  | 244. | * | 3  | APR | 2100 | 70  | 479. | * | 4  | APR | 2200 | 95  | 510. |
| 1  | APR | 2000 | 21  | 662.  | * | 2  | APR | 2100 | 46  | 248. | * | 3  | APR | 2200 | 71  | 488. | * | 4  | APR | 2300 | 96  | 508. |
| 1  | APR | 2100 | 22  | 564.  | * | 2  | APR | 2200 | 47  | 252. | * | 3  | APR | 2300 | 72  | 496. | * | 5  | APR | 0000 | 97  | 506. |
| 1  | APR | 2200 | 23  | 507.  | * | 2  | APR | 2300 | 48  | 257. | * | 4  | APR | 0000 | 73  | 503. | * | 5  | APR | 0100 | 98  | 505. |
| 1  | APR | 2300 | 24  | 463.  | * | 3  | APR | 0000 | 49  | 262. | * | 4  | APR | 0100 | 74  | 510. | * | 5  | APR | 0200 | 99  | 503. |
| 2  | APR | 0000 | 25  | 419.  | * | 3  | APR | 0100 | 50  | 267. | * | 4  | APR | 0200 | 75  | 515. | * | 5  | APR | 0300 | 100 | 502. |
|    |     |      |     |       | * |    |     |      |     |      | * |    |     |      |     |      | * |    |     |      |     |      |

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| PEAK FLOW | TIME  |       | MAXIMUM  | AVERAGE FLOW |       |          |
|-----------|-------|-------|----------|--------------|-------|----------|
|           |       |       | 6-HR     | 24-HR        | 72-HR | 99.00-HR |
| +         | (CFS) | (HR)  |          |              |       |          |
| +         | 1783. | 16.00 | (CFS)    |              |       |          |
|           |       |       | (INCHES) |              |       |          |
|           |       |       | (AC-FT)  |              |       |          |
|           |       |       | 1524.    | 802.         | 493.  | 477.     |
|           |       |       | .025     | .053         | .098  | .131     |
|           |       |       | 756.     | 1590.        | 2932. | 3900.    |

SJR\_5-yr.out

CUMULATIVE AREA = 558.46 SQ MI

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

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

HYDROGRAPH ROUTING DATA

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

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

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

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HYDROGRAPH AT STATION H-I

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| DA | MON | HRMN | ORD | OUTFLOW | STORAGE | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE |
|----|-----|------|-----|---------|---------|---|----|-----|------|-----|---------|---------|---|----|-----|------|-----|---------|---------|
| 1  | APR | 0000 | 1   | 0.      | .00     | * | 2  | APR | 1000 | 35  | 219.    | 22.77   | * | 3  | APR | 2000 | 69  | 426.    | 44.30   |
| 1  | APR | 0100 | 2   | 0.      | .03     | * | 2  | APR | 1100 | 36  | 214.    | 22.24   | * | 3  | APR | 2100 | 70  | 438.    | 45.54   |
| 1  | APR | 0200 | 3   | 3.      | .34     | * | 2  | APR | 1200 | 37  | 212.    | 22.08   | * | 3  | APR | 2200 | 71  | 449.    | 46.72   |
| 1  | APR | 0300 | 4   | 15.     | 1.57    | * | 2  | APR | 1300 | 38  | 213.    | 22.14   | * | 3  | APR | 2300 | 72  | 460.    | 47.84   |
| 1  | APR | 0400 | 5   | 41.     | 4.29    | * | 2  | APR | 1400 | 39  | 215.    | 22.33   | * | 4  | APR | 0000 | 73  | 470.    | 48.89   |
| 1  | APR | 0500 | 6   | 82.     | 8.49    | * | 2  | APR | 1500 | 40  | 217.    | 22.58   | * | 4  | APR | 0100 | 74  | 479.    | 49.86   |
| 1  | APR | 0600 | 7   | 133.    | 13.80   | * | 2  | APR | 1600 | 41  | 220.    | 22.87   | * | 4  | APR | 0200 | 75  | 488.    | 50.75   |

| SJR_5-yr.out |     |      |    |       |        |   |   |     |      |    |      |       |   |   |     |      |     |      |       |
|--------------|-----|------|----|-------|--------|---|---|-----|------|----|------|-------|---|---|-----|------|-----|------|-------|
| 1            | APR | 0700 | 8  | 191.  | 19.91  | * | 2 | APR | 1700 | 42 | 223. | 23.18 | * | 4 | APR | 0300 | 76  | 496. | 51.60 |
| 1            | APR | 0800 | 9  | 257.  | 26.72  | * | 2 | APR | 1800 | 43 | 226. | 23.49 | * | 4 | APR | 0400 | 77  | 504. | 52.37 |
| 1            | APR | 0900 | 10 | 330.  | 34.35  | * | 2 | APR | 1900 | 44 | 229. | 23.81 | * | 4 | APR | 0500 | 78  | 511. | 52.98 |
| 1            | APR | 1000 | 11 | 419.  | 43.55  | * | 2 | APR | 2000 | 45 | 232. | 24.14 | * | 4 | APR | 0600 | 79  | 516. | 53.46 |
| 1            | APR | 1100 | 12 | 538.  | 55.42  | * | 2 | APR | 2100 | 46 | 235. | 24.47 | * | 4 | APR | 0700 | 80  | 520. | 53.82 |
| 1            | APR | 1200 | 13 | 692.  | 69.25  | * | 2 | APR | 2200 | 47 | 239. | 24.82 | * | 4 | APR | 0800 | 81  | 523. | 54.09 |
| 1            | APR | 1300 | 14 | 840.  | 82.64  | * | 2 | APR | 2300 | 48 | 242. | 25.18 | * | 4 | APR | 0900 | 82  | 525. | 54.28 |
| 1            | APR | 1400 | 15 | 955.  | 92.97  | * | 3 | APR | 0000 | 49 | 246. | 25.56 | * | 4 | APR | 1000 | 83  | 527. | 54.40 |
| 1            | APR | 1500 | 16 | 1024. | 101.64 | * | 3 | APR | 0100 | 50 | 250. | 25.98 | * | 4 | APR | 1100 | 84  | 527. | 54.46 |
| 1            | APR | 1600 | 17 | 1081. | 112.83 | * | 3 | APR | 0200 | 51 | 254. | 26.42 | * | 4 | APR | 1200 | 85  | 528. | 54.48 |
| 1            | APR | 1700 | 18 | 1155. | 127.26 | * | 3 | APR | 0300 | 52 | 259. | 26.92 | * | 4 | APR | 1300 | 86  | 527. | 54.45 |
| 1            | APR | 1800 | 19 | 1233. | 142.52 | * | 3 | APR | 0400 | 53 | 264. | 27.46 | * | 4 | APR | 1400 | 87  | 527. | 54.40 |
| 1            | APR | 1900 | 20 | 1295. | 154.73 | * | 3 | APR | 0500 | 54 | 270. | 28.05 | * | 4 | APR | 1500 | 88  | 526. | 54.31 |
| 1            | APR | 2000 | 21 | 1324. | 160.31 | * | 3 | APR | 0600 | 55 | 276. | 28.71 | * | 4 | APR | 1600 | 89  | 525. | 54.21 |
| 1            | APR | 2100 | 22 | 1309. | 157.54 | * | 3 | APR | 0700 | 56 | 283. | 29.44 | * | 4 | APR | 1700 | 90  | 523. | 54.09 |
| 1            | APR | 2200 | 23 | 1252. | 146.37 | * | 3 | APR | 0800 | 57 | 291. | 30.24 | * | 4 | APR | 1800 | 91  | 522. | 53.95 |
| 1            | APR | 2300 | 24 | 1147. | 125.80 | * | 3 | APR | 0900 | 58 | 299. | 31.11 | * | 4 | APR | 1900 | 92  | 520. | 53.81 |
| 2            | APR | 0000 | 25 | 1003. | 97.65  | * | 3 | APR | 1000 | 59 | 308. | 32.06 | * | 4 | APR | 2000 | 93  | 518. | 53.66 |
| 2            | APR | 0100 | 26 | 740.  | 73.56  | * | 3 | APR | 1100 | 60 | 318. | 33.09 | * | 4 | APR | 2100 | 94  | 517. | 53.51 |
| 2            | APR | 0200 | 27 | 583.  | 59.43  | * | 3 | APR | 1200 | 61 | 329. | 34.19 | * | 4 | APR | 2200 | 95  | 515. | 53.36 |
| 2            | APR | 0300 | 28 | 485.  | 50.48  | * | 3 | APR | 1300 | 62 | 340. | 35.35 | * | 4 | APR | 2300 | 96  | 513. | 53.21 |
| 2            | APR | 0400 | 29 | 418.  | 43.50  | * | 3 | APR | 1400 | 63 | 352. | 36.56 | * | 5 | APR | 0000 | 97  | 512. | 53.06 |
| 2            | APR | 0500 | 30 | 360.  | 37.44  | * | 3 | APR | 1500 | 64 | 364. | 37.82 | * | 5 | APR | 0100 | 98  | 510. | 52.91 |
| 2            | APR | 0600 | 31 | 312.  | 32.40  | * | 3 | APR | 1600 | 65 | 376. | 39.11 | * | 5 | APR | 0200 | 99  | 509. | 52.77 |
| 2            | APR | 0700 | 32 | 274.  | 28.49  | * | 3 | APR | 1700 | 66 | 389. | 40.42 | * | 5 | APR | 0300 | 100 | 507. | 52.63 |
| 2            | APR | 0800 | 33 | 247.  | 25.68  | * | 3 | APR | 1800 | 67 | 401. | 41.73 | * |   |     |      |     |      |       |
| 2            | APR | 0900 | 34 | 229.  | 23.84  | * | 3 | APR | 1900 | 68 | 414. | 43.03 | * |   |     |      |     |      |       |
|              |     |      |    |       |        | * |   |     |      |    |      |       | * |   |     |      |     |      |       |

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| PEAK FLOW | TIME  | MAXIMUM AVERAGE FLOW |       |       |       |          |
|-----------|-------|----------------------|-------|-------|-------|----------|
| +         | (CFS) | (HR)                 | 6-HR  | 24-HR | 72-HR | 99.00-HR |
|           |       | (CFS)                |       |       |       |          |
| +         | 1324. | 20.00                | 1261. | 793.  | 489.  | 457.     |
|           |       | (INCHES)             | .021  | .053  | .098  | .126     |
|           |       | (AC-FT)              | 625.  | 1572. | 2912. | 3743.    |

| PEAK STORAGE | TIME  | MAXIMUM AVERAGE STORAGE |       |       |          |
|--------------|-------|-------------------------|-------|-------|----------|
|              |       | 6-HR                    | 24-HR | 72-HR | 99.00-HR |
| + (AC-FT)    | (HR)  |                         |       |       |          |
| 160.         | 20.00 | 148.                    | 86.   | 52.   | 48.      |

CUMULATIVE AREA = 558.46 SQ MI

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

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*           *
549 KK      *   15A   *   ROMOLAND SUB-AREA (A-SYSTEM)
*           *
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                COMBINE HOMELAND, ROMOLAND (A-SYSTEM) AND THE REMAINING AREA AT THE
                D/S OF I-215 FWY PER CDJ

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

SUBBASIN RUNOFF DATA

552 BA      SUBBASIN CHARACTERISTICS
                TAREA      28.11   SUBBASIN AREA

PRECIPITATION DATA

553 PB      STORM      .25   BASIN TOTAL PRECIPITATION

555 PI      INCREMENTAL PRECIPITATION PATTERN
                .00      .01      .01      .02      .02      .03      .03      .04      .05      .07
                .08      .07      .08      .12      .11      .10      .06      .02      .02      .01
                .01      .01      .01      .01      .01      .00

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

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

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# HYDROGRAPH AT STATION 15A

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 4.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 29.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 47.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .00  | .00  | .00    | 64.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |      | SJR_5-yr.out |            |     |     |     |     |    |
|------------|----|-----|-----|-----|------|--------------|------------|-----|-----|-----|-----|----|
| 1 APR 0500 | 6  | .01 | .00 | .01 | 80.  | *            | 3 APR 0700 | 56  | .00 | .00 | .00 | 0. |
| 1 APR 0600 | 7  | .01 | .00 | .01 | 101. | *            | 3 APR 0800 | 57  | .00 | .00 | .00 | 0. |
| 1 APR 0700 | 8  | .01 | .00 | .01 | 121. | *            | 3 APR 0900 | 58  | .00 | .00 | .00 | 0. |
| 1 APR 0800 | 9  | .01 | .00 | .01 | 146. | *            | 3 APR 1000 | 59  | .00 | .00 | .00 | 0. |
| 1 APR 0900 | 10 | .01 | .00 | .01 | 184. | *            | 3 APR 1100 | 60  | .00 | .00 | .00 | 0. |
| 1 APR 1000 | 11 | .02 | .00 | .02 | 239. | *            | 3 APR 1200 | 61  | .00 | .00 | .00 | 0. |
| 1 APR 1100 | 12 | .02 | .00 | .02 | 293. | *            | 3 APR 1300 | 62  | .00 | .00 | .00 | 0. |
| 1 APR 1200 | 13 | .02 | .00 | .02 | 313. | *            | 3 APR 1400 | 63  | .00 | .00 | .00 | 0. |
| 1 APR 1300 | 14 | .02 | .00 | .02 | 329. | *            | 3 APR 1500 | 64  | .00 | .00 | .00 | 0. |
| 1 APR 1400 | 15 | .03 | .00 | .03 | 417. | *            | 3 APR 1600 | 65  | .00 | .00 | .00 | 0. |
| 1 APR 1500 | 16 | .03 | .00 | .03 | 457. | *            | 3 APR 1700 | 66  | .00 | .00 | .00 | 0. |
| 1 APR 1600 | 17 | .03 | .00 | .03 | 452. | *            | 3 APR 1800 | 67  | .00 | .00 | .00 | 0. |
| 1 APR 1700 | 18 | .02 | .00 | .02 | 379. | *            | 3 APR 1900 | 68  | .00 | .00 | .00 | 0. |
| 1 APR 1800 | 19 | .00 | .00 | .00 | 231. | *            | 3 APR 2000 | 69  | .00 | .00 | .00 | 0. |
| 1 APR 1900 | 20 | .00 | .00 | .00 | 151. | *            | 3 APR 2100 | 70  | .00 | .00 | .00 | 0. |
| 1 APR 2000 | 21 | .00 | .00 | .00 | 112. | *            | 3 APR 2200 | 71  | .00 | .00 | .00 | 0. |
| 1 APR 2100 | 22 | .00 | .00 | .00 | 88.  | *            | 3 APR 2300 | 72  | .00 | .00 | .00 | 0. |
| 1 APR 2200 | 23 | .00 | .00 | .00 | 73.  | *            | 4 APR 0000 | 73  | .00 | .00 | .00 | 0. |
| 1 APR 2300 | 24 | .00 | .00 | .00 | 60.  | *            | 4 APR 0100 | 74  | .00 | .00 | .00 | 0. |
| 2 APR 0000 | 25 | .00 | .00 | .00 | 49.  | *            | 4 APR 0200 | 75  | .00 | .00 | .00 | 0. |
| 2 APR 0100 | 26 | .00 | .00 | .00 | 38.  | *            | 4 APR 0300 | 76  | .00 | .00 | .00 | 0. |
| 2 APR 0200 | 27 | .00 | .00 | .00 | 20.  | *            | 4 APR 0400 | 77  | .00 | .00 | .00 | 0. |
| 2 APR 0300 | 28 | .00 | .00 | .00 | 9.   | *            | 4 APR 0500 | 78  | .00 | .00 | .00 | 0. |
| 2 APR 0400 | 29 | .00 | .00 | .00 | 5.   | *            | 4 APR 0600 | 79  | .00 | .00 | .00 | 0. |
| 2 APR 0500 | 30 | .00 | .00 | .00 | 3.   | *            | 4 APR 0700 | 80  | .00 | .00 | .00 | 0. |
| 2 APR 0600 | 31 | .00 | .00 | .00 | 2.   | *            | 4 APR 0800 | 81  | .00 | .00 | .00 | 0. |
| 2 APR 0700 | 32 | .00 | .00 | .00 | 1.   | *            | 4 APR 0900 | 82  | .00 | .00 | .00 | 0. |
| 2 APR 0800 | 33 | .00 | .00 | .00 | 1.   | *            | 4 APR 1000 | 83  | .00 | .00 | .00 | 0. |
| 2 APR 0900 | 34 | .00 | .00 | .00 | 0.   | *            | 4 APR 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 APR 1000 | 35 | .00 | .00 | .00 | 0.   | *            | 4 APR 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 APR 1100 | 36 | .00 | .00 | .00 | 0.   | *            | 4 APR 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 APR 1200 | 37 | .00 | .00 | .00 | 0.   | *            | 4 APR 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 APR 1300 | 38 | .00 | .00 | .00 | 0.   | *            | 4 APR 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 APR 1400 | 39 | .00 | .00 | .00 | 0.   | *            | 4 APR 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 APR 1500 | 40 | .00 | .00 | .00 | 0.   | *            | 4 APR 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 APR 1600 | 41 | .00 | .00 | .00 | 0.   | *            | 4 APR 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 APR 1700 | 42 | .00 | .00 | .00 | 0.   | *            | 4 APR 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 APR 1800 | 43 | .00 | .00 | .00 | 0.   | *            | 4 APR 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 APR 1900 | 44 | .00 | .00 | .00 | 0.   | *            | 4 APR 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 APR 2000 | 45 | .00 | .00 | .00 | 0.   | *            | 4 APR 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 APR 2100 | 46 | .00 | .00 | .00 | 0.   | *            | 4 APR 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0.   | *            | 5 APR 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0.   | *            | 5 APR 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0.   | *            | 5 APR 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0.   | *            | 5 APR 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .25, TOTAL LOSS = .00, TOTAL EXCESS = .25

|           |      |      |                      |          |
|-----------|------|------|----------------------|----------|
| PEAK FLOW | TIME |      | MAXIMUM AVERAGE FLOW |          |
|           |      | 6-HR | 24-HR                | 72-HR    |
|           |      |      |                      | 99.00-HR |

SJR\_5-yr.out

|   |       |       |          |      |      |      |      |
|---|-------|-------|----------|------|------|------|------|
| + | (CFS) | (HR)  | (CFS)    |      |      |      |      |
| + | 457.  | 15.00 |          | 384. | 185. | 62.  | 45.  |
|   |       |       | (INCHES) | .127 | .245 | .248 | .248 |
|   |       |       | (AC-FT)  | 190. | 367. | 372. | 372. |

CUMULATIVE AREA = 28.11 SQ MI

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568 KK

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*         I *
*         *
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ENTRANCE TO RAILROAD CANYON DAM

570 HC      HYDROGRAPH COMBINATION  
              ICOMP                    2    NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION      I  
 SUM OF 2 HYDROGRAPHS

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| DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| 1  | APR | 0000 | 1   | 0.    | * | 2  | APR | 0100 | 26  | 777. | * | 3  | APR | 0200 | 51  | 254. | * | 4  | APR | 0300 | 76  | 496. | * |
| 1  | APR | 0100 | 2   | 4.    | * | 2  | APR | 0200 | 27  | 602. | * | 3  | APR | 0300 | 52  | 259. | * | 4  | APR | 0400 | 77  | 504. | * |
| 1  | APR | 0200 | 3   | 32.   | * | 2  | APR | 0300 | 28  | 495. | * | 3  | APR | 0400 | 53  | 264. | * | 4  | APR | 0500 | 78  | 511. | * |
| 1  | APR | 0300 | 4   | 62.   | * | 2  | APR | 0400 | 29  | 424. | * | 3  | APR | 0500 | 54  | 270. | * | 4  | APR | 0600 | 79  | 516. | * |
| 1  | APR | 0400 | 5   | 105.  | * | 2  | APR | 0500 | 30  | 363. | * | 3  | APR | 0600 | 55  | 276. | * | 4  | APR | 0700 | 80  | 520. | * |
| 1  | APR | 0500 | 6   | 162.  | * | 2  | APR | 0600 | 31  | 314. | * | 3  | APR | 0700 | 56  | 283. | * | 4  | APR | 0800 | 81  | 523. | * |
| 1  | APR | 0600 | 7   | 234.  | * | 2  | APR | 0700 | 32  | 275. | * | 3  | APR | 0800 | 57  | 291. | * | 4  | APR | 0900 | 82  | 525. | * |
| 1  | APR | 0700 | 8   | 313.  | * | 2  | APR | 0800 | 33  | 247. | * | 3  | APR | 0900 | 58  | 299. | * | 4  | APR | 1000 | 83  | 527. | * |
| 1  | APR | 0800 | 9   | 403.  | * | 2  | APR | 0900 | 34  | 229. | * | 3  | APR | 1000 | 59  | 308. | * | 4  | APR | 1100 | 84  | 527. | * |
| 1  | APR | 0900 | 10  | 515.  | * | 2  | APR | 1000 | 35  | 219. | * | 3  | APR | 1100 | 60  | 318. | * | 4  | APR | 1200 | 85  | 528. | * |
| 1  | APR | 1000 | 11  | 658.  | * | 2  | APR | 1100 | 36  | 214. | * | 3  | APR | 1200 | 61  | 329. | * | 4  | APR | 1300 | 86  | 527. | * |
| 1  | APR | 1100 | 12  | 831.  | * | 2  | APR | 1200 | 37  | 212. | * | 3  | APR | 1300 | 62  | 340. | * | 4  | APR | 1400 | 87  | 527. | * |
| 1  | APR | 1200 | 13  | 1005. | * | 2  | APR | 1300 | 38  | 213. | * | 3  | APR | 1400 | 63  | 352. | * | 4  | APR | 1500 | 88  | 526. | * |
| 1  | APR | 1300 | 14  | 1169. | * | 2  | APR | 1400 | 39  | 215. | * | 3  | APR | 1500 | 64  | 364. | * | 4  | APR | 1600 | 89  | 525. | * |
| 1  | APR | 1400 | 15  | 1372. | * | 2  | APR | 1500 | 40  | 217. | * | 3  | APR | 1600 | 65  | 376. | * | 4  | APR | 1700 | 90  | 523. | * |
| 1  | APR | 1500 | 16  | 1481. | * | 2  | APR | 1600 | 41  | 220. | * | 3  | APR | 1700 | 66  | 389. | * | 4  | APR | 1800 | 91  | 522. | * |
| 1  | APR | 1600 | 17  | 1532. | * | 2  | APR | 1700 | 42  | 223. | * | 3  | APR | 1800 | 67  | 401. | * | 4  | APR | 1900 | 92  | 520. | * |

SJR\_5-yr.out

|            |    |       |   |            |    |      |   |            |    |      |   |            |     |      |
|------------|----|-------|---|------------|----|------|---|------------|----|------|---|------------|-----|------|
| 1 APR 1700 | 18 | 1534. | * | 2 APR 1800 | 43 | 226. | * | 3 APR 1900 | 68 | 414. | * | 4 APR 2000 | 93  | 518. |
| 1 APR 1800 | 19 | 1463. | * | 2 APR 1900 | 44 | 229. | * | 3 APR 2000 | 69 | 426. | * | 4 APR 2100 | 94  | 517. |
| 1 APR 1900 | 20 | 1446. | * | 2 APR 2000 | 45 | 232. | * | 3 APR 2100 | 70 | 438. | * | 4 APR 2200 | 95  | 515. |
| 1 APR 2000 | 21 | 1436. | * | 2 APR 2100 | 46 | 235. | * | 3 APR 2200 | 71 | 449. | * | 4 APR 2300 | 96  | 513. |
| 1 APR 2100 | 22 | 1397. | * | 2 APR 2200 | 47 | 239. | * | 3 APR 2300 | 72 | 460. | * | 5 APR 0000 | 97  | 512. |
| 1 APR 2200 | 23 | 1325. | * | 2 APR 2300 | 48 | 242. | * | 4 APR 0000 | 73 | 470. | * | 5 APR 0100 | 98  | 510. |
| 1 APR 2300 | 24 | 1208. | * | 3 APR 0000 | 49 | 246. | * | 4 APR 0100 | 74 | 479. | * | 5 APR 0200 | 99  | 509. |
| 2 APR 0000 | 25 | 1052. | * | 3 APR 0100 | 50 | 250. | * | 4 APR 0200 | 75 | 488. | * | 5 APR 0300 | 100 | 507. |

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| PEAK FLOW | TIME  |          | 6-HR  | MAXIMUM AVERAGE FLOW<br>24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|-------|-------------------------------|-------|----------|
| +         | (CFS) | (HR)     |       |                               |       |          |
|           |       | (CFS)    |       |                               |       |          |
| +         | 1534. | 17.00    | 1477. | 962.                          | 540.  | 503.     |
|           |       | (INCHES) | .023  | .061                          | .103  | .132     |
|           |       | (AC-FT)  | 732.  | 1909.                         | 3211. | 4114.    |

CUMULATIVE AREA = 586.57 SQ MI

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

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

#### HYDROGRAPH ROUTING DATA

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

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HYDROGRAPH AT STATION I-J

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SJR\_5-yr.out

| DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW | * |
|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|---|
| 1  | APR | 0000 | 1   | 0.    | * | 2  | APR | 0100 | 26  | 915. | * | 3  | APR | 0200 | 51  | 252. | * | 4  | APR | 0300 | 76  | 492. | * |
| 1  | APR | 0100 | 2   | 2.    | * | 2  | APR | 0200 | 27  | 690. | * | 3  | APR | 0300 | 52  | 256. | * | 4  | APR | 0400 | 77  | 500. | * |
| 1  | APR | 0200 | 3   | 18.   | * | 2  | APR | 0300 | 28  | 548. | * | 3  | APR | 0400 | 53  | 261. | * | 4  | APR | 0500 | 78  | 508. | * |
| 1  | APR | 0300 | 4   | 47.   | * | 2  | APR | 0400 | 29  | 459. | * | 3  | APR | 0500 | 54  | 267. | * | 4  | APR | 0600 | 79  | 514. | * |
| 1  | APR | 0400 | 5   | 84.   | * | 2  | APR | 0500 | 30  | 393. | * | 3  | APR | 0600 | 55  | 273. | * | 4  | APR | 0700 | 80  | 518. | * |
| 1  | APR | 0500 | 6   | 134.  | * | 2  | APR | 0600 | 31  | 338. | * | 3  | APR | 0700 | 56  | 280. | * | 4  | APR | 0800 | 81  | 522. | * |
| 1  | APR | 0600 | 7   | 198.  | * | 2  | APR | 0700 | 32  | 294. | * | 3  | APR | 0800 | 57  | 287. | * | 4  | APR | 0900 | 82  | 524. | * |
| 1  | APR | 0700 | 8   | 273.  | * | 2  | APR | 0800 | 33  | 261. | * | 3  | APR | 0900 | 58  | 295. | * | 4  | APR | 1000 | 83  | 526. | * |
| 1  | APR | 0800 | 9   | 358.  | * | 2  | APR | 0900 | 34  | 238. | * | 3  | APR | 1000 | 59  | 304. | * | 4  | APR | 1100 | 84  | 527. | * |
| 1  | APR | 0900 | 10  | 459.  | * | 2  | APR | 1000 | 35  | 224. | * | 3  | APR | 1100 | 60  | 313. | * | 4  | APR | 1200 | 85  | 527. | * |
| 1  | APR | 1000 | 11  | 586.  | * | 2  | APR | 1100 | 36  | 216. | * | 3  | APR | 1200 | 61  | 323. | * | 4  | APR | 1300 | 86  | 527. | * |
| 1  | APR | 1100 | 12  | 744.  | * | 2  | APR | 1200 | 37  | 213. | * | 3  | APR | 1300 | 62  | 334. | * | 4  | APR | 1400 | 87  | 527. | * |
| 1  | APR | 1200 | 13  | 918.  | * | 2  | APR | 1300 | 38  | 213. | * | 3  | APR | 1400 | 63  | 346. | * | 4  | APR | 1500 | 88  | 526. | * |
| 1  | APR | 1300 | 14  | 1087. | * | 2  | APR | 1400 | 39  | 214. | * | 3  | APR | 1500 | 64  | 358. | * | 4  | APR | 1600 | 89  | 525. | * |
| 1  | APR | 1400 | 15  | 1271. | * | 2  | APR | 1500 | 40  | 216. | * | 3  | APR | 1600 | 65  | 370. | * | 4  | APR | 1700 | 90  | 524. | * |
| 1  | APR | 1500 | 16  | 1426. | * | 2  | APR | 1600 | 41  | 219. | * | 3  | APR | 1700 | 66  | 382. | * | 4  | APR | 1800 | 91  | 522. | * |
| 1  | APR | 1600 | 17  | 1507. | * | 2  | APR | 1700 | 42  | 221. | * | 3  | APR | 1800 | 67  | 395. | * | 4  | APR | 1900 | 92  | 521. | * |
| 1  | APR | 1700 | 18  | 1533. | * | 2  | APR | 1800 | 43  | 224. | * | 3  | APR | 1900 | 68  | 407. | * | 4  | APR | 2000 | 93  | 519. | * |
| 1  | APR | 1800 | 19  | 1498. | * | 2  | APR | 1900 | 44  | 227. | * | 3  | APR | 2000 | 69  | 420. | * | 4  | APR | 2100 | 94  | 518. | * |
| 1  | APR | 1900 | 20  | 1454. | * | 2  | APR | 2000 | 45  | 230. | * | 3  | APR | 2100 | 70  | 432. | * | 4  | APR | 2200 | 95  | 516. | * |
| 1  | APR | 2000 | 21  | 1441. | * | 2  | APR | 2100 | 46  | 234. | * | 3  | APR | 2200 | 71  | 444. | * | 4  | APR | 2300 | 96  | 514. | * |
| 1  | APR | 2100 | 22  | 1416. | * | 2  | APR | 2200 | 47  | 237. | * | 3  | APR | 2300 | 72  | 455. | * | 5  | APR | 0000 | 97  | 513. | * |
| 1  | APR | 2200 | 23  | 1361. | * | 2  | APR | 2300 | 48  | 240. | * | 4  | APR | 0000 | 73  | 465. | * | 5  | APR | 0100 | 98  | 511. | * |
| 1  | APR | 2300 | 24  | 1266. | * | 3  | APR | 0000 | 49  | 244. | * | 4  | APR | 0100 | 74  | 475. | * | 5  | APR | 0200 | 99  | 509. | * |
| 2  | APR | 0000 | 25  | 1130. | * | 3  | APR | 0100 | 50  | 248. | * | 4  | APR | 0200 | 75  | 484. | * | 5  | APR | 0300 | 100 | 508. | * |

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| PEAK FLOW | TIME  |          | 6-HR  | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|-------|-------|-------|----------|
| +         | (CFS) | (HR)     |       |       |       |          |
| +         | 1533. | 17.00    |       |       |       |          |
|           |       | (CFS)    | 1476. | 962.  | 539.  | 500.     |
|           |       | (INCHES) | .023  | .061  | .103  | .131     |
|           |       | (AC-FT)  | 732.  | 1908. | 3208. | 4093.    |

CUMULATIVE AREA = 586.57 SQ MI

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 577 KK \* 17 \* SUBAREA 17  
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## SALT CREEK

581 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 15 TIME INTERVAL IN MINUTES  
 JXDATE 1APR92 STARTING DATE  
 JXTIME 40 STARTING TIME  
 UHG FROM MOUNTAIN S-GRAPH

## SUBBASIN RUNOFF DATA

579 BA SUBBASIN CHARACTERISTICS  
 TAREA 123.91 SUBBASIN AREA

## PRECIPITATION DATA

580 PB STORM .26 BASIN TOTAL PRECIPITATION

582 PI INCREMENTAL PRECIPITATION PATTERN  
 .01 .01 .02 .02 .03 .03 .04 .04 .06 .08  
 .07 .08 .09 .12 .10 .09 .04 .02 .02 .01  
 .01 .01 .01 .01 .00 .00

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

592 UI INPUT UNITGRAPH, 41 ORDINATES, VOLUME = 1.00  
 7481.0 17797.0 13137.0 7282.0 4868.0 3815.0 3168.0 2450.0 2175.0 1830.0  
 1661.0 1370.0 1145.0 1059.0 994.0 900.0 878.0 780.0 774.0 659.0  
 659.0 560.0 502.0 502.0 441.0 365.0 365.0 365.0 351.0 133.0  
 133.0 133.0 133.0 133.0 133.0 133.0 133.0 133.0 133.0 133.0  
 130.0

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## HYDROGRAPH AT STATION 17

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 28.    |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 14.    | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 25.    |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 59.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 22.    |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 118.   | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 19.    |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 175.   | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 15.    |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 236.   | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 11.    |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 301.   | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 7.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 372.   | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 4.     |

|   |     |      |    |     |     | SJR_5-yr.out |       |   |   |     |      |     |     |     |     |    |
|---|-----|------|----|-----|-----|--------------|-------|---|---|-----|------|-----|-----|-----|-----|----|
| 1 | APR | 0800 | 9  | .01 | .00 | .01          | 457.  | * | 3 | APR | 1000 | 59  | .00 | .00 | .00 | 3. |
| 1 | APR | 0900 | 10 | .02 | .00 | .02          | 571.  | * | 3 | APR | 1100 | 60  | .00 | .00 | .00 | 2. |
| 1 | APR | 1000 | 11 | .02 | .00 | .02          | 738.  | * | 3 | APR | 1200 | 61  | .00 | .00 | .00 | 2. |
| 1 | APR | 1100 | 12 | .02 | .00 | .02          | 909.  | * | 3 | APR | 1300 | 62  | .00 | .00 | .00 | 1. |
| 1 | APR | 1200 | 13 | .02 | .00 | .02          | 1024. | * | 3 | APR | 1400 | 63  | .00 | .00 | .00 | 1. |
| 1 | APR | 1300 | 14 | .02 | .00 | .02          | 1144. | * | 3 | APR | 1500 | 64  | .00 | .00 | .00 | 1. |
| 1 | APR | 1400 | 15 | .03 | .00 | .03          | 1349. | * | 3 | APR | 1600 | 65  | .00 | .00 | .00 | 0. |
| 1 | APR | 1500 | 16 | .03 | .00 | .03          | 1554. | * | 3 | APR | 1700 | 66  | .00 | .00 | .00 | 0. |
| 1 | APR | 1600 | 17 | .02 | .00 | .02          | 1616. | * | 3 | APR | 1800 | 67  | .00 | .00 | .00 | 0. |
| 1 | APR | 1700 | 18 | .01 | .00 | .01          | 1506. | * | 3 | APR | 1900 | 68  | .00 | .00 | .00 | 0. |
| 1 | APR | 1800 | 19 | .00 | .00 | .00          | 1215. | * | 3 | APR | 2000 | 69  | .00 | .00 | .00 | 0. |
| 1 | APR | 1900 | 20 | .00 | .00 | .00          | 954.  | * | 3 | APR | 2100 | 70  | .00 | .00 | .00 | 0. |
| 1 | APR | 2000 | 21 | .00 | .00 | .00          | 793.  | * | 3 | APR | 2200 | 71  | .00 | .00 | .00 | 0. |
| 1 | APR | 2100 | 22 | .00 | .00 | .00          | 682.  | * | 3 | APR | 2300 | 72  | .00 | .00 | .00 | 0. |
| 1 | APR | 2200 | 23 | .00 | .00 | .00          | 602.  | * | 4 | APR | 0000 | 73  | .00 | .00 | .00 | 0. |
| 1 | APR | 2300 | 24 | .00 | .00 | .00          | 538.  | * | 4 | APR | 0100 | 74  | .00 | .00 | .00 | 0. |
| 2 | APR | 0000 | 25 | .00 | .00 | .00          | 488.  | * | 4 | APR | 0200 | 75  | .00 | .00 | .00 | 0. |
| 2 | APR | 0100 | 26 | .00 | .00 | .00          | 433.  | * | 4 | APR | 0300 | 76  | .00 | .00 | .00 | 0. |
| 2 | APR | 0200 | 27 | .00 | .00 | .00          | 368.  | * | 4 | APR | 0400 | 77  | .00 | .00 | .00 | 0. |
| 2 | APR | 0300 | 28 | .00 | .00 | .00          | 310.  | * | 4 | APR | 0500 | 78  | .00 | .00 | .00 | 0. |
| 2 | APR | 0400 | 29 | .00 | .00 | .00          | 270.  | * | 4 | APR | 0600 | 79  | .00 | .00 | .00 | 0. |
| 2 | APR | 0500 | 30 | .00 | .00 | .00          | 242.  | * | 4 | APR | 0700 | 80  | .00 | .00 | .00 | 0. |
| 2 | APR | 0600 | 31 | .00 | .00 | .00          | 220.  | * | 4 | APR | 0800 | 81  | .00 | .00 | .00 | 0. |
| 2 | APR | 0700 | 32 | .00 | .00 | .00          | 200.  | * | 4 | APR | 0900 | 82  | .00 | .00 | .00 | 0. |
| 2 | APR | 0800 | 33 | .00 | .00 | .00          | 183.  | * | 4 | APR | 1000 | 83  | .00 | .00 | .00 | 0. |
| 2 | APR | 0900 | 34 | .00 | .00 | .00          | 166.  | * | 4 | APR | 1100 | 84  | .00 | .00 | .00 | 0. |
| 2 | APR | 1000 | 35 | .00 | .00 | .00          | 152.  | * | 4 | APR | 1200 | 85  | .00 | .00 | .00 | 0. |
| 2 | APR | 1100 | 36 | .00 | .00 | .00          | 137.  | * | 4 | APR | 1300 | 86  | .00 | .00 | .00 | 0. |
| 2 | APR | 1200 | 37 | .00 | .00 | .00          | 125.  | * | 4 | APR | 1400 | 87  | .00 | .00 | .00 | 0. |
| 2 | APR | 1300 | 38 | .00 | .00 | .00          | 113.  | * | 4 | APR | 1500 | 88  | .00 | .00 | .00 | 0. |
| 2 | APR | 1400 | 39 | .00 | .00 | .00          | 102.  | * | 4 | APR | 1600 | 89  | .00 | .00 | .00 | 0. |
| 2 | APR | 1500 | 40 | .00 | .00 | .00          | 92.   | * | 4 | APR | 1700 | 90  | .00 | .00 | .00 | 0. |
| 2 | APR | 1600 | 41 | .00 | .00 | .00          | 82.   | * | 4 | APR | 1800 | 91  | .00 | .00 | .00 | 0. |
| 2 | APR | 1700 | 42 | .00 | .00 | .00          | 74.   | * | 4 | APR | 1900 | 92  | .00 | .00 | .00 | 0. |
| 2 | APR | 1800 | 43 | .00 | .00 | .00          | 66.   | * | 4 | APR | 2000 | 93  | .00 | .00 | .00 | 0. |
| 2 | APR | 1900 | 44 | .00 | .00 | .00          | 57.   | * | 4 | APR | 2100 | 94  | .00 | .00 | .00 | 0. |
| 2 | APR | 2000 | 45 | .00 | .00 | .00          | 49.   | * | 4 | APR | 2200 | 95  | .00 | .00 | .00 | 0. |
| 2 | APR | 2100 | 46 | .00 | .00 | .00          | 42.   | * | 4 | APR | 2300 | 96  | .00 | .00 | .00 | 0. |
| 2 | APR | 2200 | 47 | .00 | .00 | .00          | 39.   | * | 5 | APR | 0000 | 97  | .00 | .00 | .00 | 0. |
| 2 | APR | 2300 | 48 | .00 | .00 | .00          | 36.   | * | 5 | APR | 0100 | 98  | .00 | .00 | .00 | 0. |
| 3 | APR | 0000 | 49 | .00 | .00 | .00          | 34.   | * | 5 | APR | 0200 | 99  | .00 | .00 | .00 | 0. |
| 3 | APR | 0100 | 50 | .00 | .00 | .00          | 31.   | * | 5 | APR | 0300 | 100 | .00 | .00 | .00 | 0. |

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TOTAL RAINFALL = .26, TOTAL LOSS = .00, TOTAL EXCESS = .26

| PEAK FLOW |       | TIME  |       | MAXIMUM AVERAGE FLOW |       |       |          |
|-----------|-------|-------|-------|----------------------|-------|-------|----------|
|           |       |       |       | 6-HR                 | 24-HR | 72-HR | 99.00-HR |
| +         | (CFS) | (HR)  | (CFS) |                      |       |       |          |
| +         | 1616. | 16.00 |       | 1382.                | 768.  | 294.  | 214.     |

SJR\_5-yr.out

|          |      |       |       |       |
|----------|------|-------|-------|-------|
| (INCHES) | .104 | .231  | .265  | .265  |
| (AC-FT)  | 685. | 1523. | 1750. | 1750. |

CUMULATIVE AREA = 123.91 SQ MI

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*
599 KK * 16 * SUBAREA 16
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RAILROAD CANYON

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

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SUBBASIN RUNOFF DATA

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601 BA      SUBBASIN CHARACTERISTICS
           TAREA      26.04  SUBBASIN AREA

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PRECIPITATION DATA

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602 PB      STORM      .26  BASIN TOTAL PRECIPITATION

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604 PI      INCREMENTAL PRECIPITATION PATTERN
           .00      .01      .01      .02      .02      .03      .03      .04      .05      .07
           .08      .07      .08      .12      .11      .10      .07      .01      .02      .01
           .01      .01      .01      .01      .01      .00

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

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609 UI      INPUT UNITGRAPH, 22 ORDINATES, VOLUME = 1.00
           4825.0  4516.0  1821.0  1215.0  851.0  656.0  486.0  402.0  352.0  309.0
           264.0   220.0   199.0   147.0   144.0   86.0   53.0   53.0   53.0   53.0
           52.5    40.2

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SJR\_5-yr.out  
HYDROGRAPH AT STATION 16

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| DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |   | DA | MON | HRMN | ORD | RAIN | LOSS | EXCESS | COMP Q |
|----|-----|------|-----|------|------|--------|--------|---|----|-----|------|-----|------|------|--------|--------|
| 1  | APR | 0000 | 1   | .00  | .00  | .00    | 0.     | * | 3  | APR | 0200 | 51  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0100 | 2   | .00  | .00  | .00    | 3.     | * | 3  | APR | 0300 | 52  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0200 | 3   | .00  | .00  | .00    | 19.    | * | 3  | APR | 0400 | 53  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0300 | 4   | .00  | .00  | .00    | 34.    | * | 3  | APR | 0500 | 54  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0400 | 5   | .01  | .00  | .01    | 48.    | * | 3  | APR | 0600 | 55  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0500 | 6   | .01  | .00  | .01    | 63.    | * | 3  | APR | 0700 | 56  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0600 | 7   | .01  | .00  | .01    | 80.    | * | 3  | APR | 0800 | 57  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0700 | 8   | .01  | .00  | .01    | 96.    | * | 3  | APR | 0900 | 58  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0800 | 9   | .01  | .00  | .01    | 118.   | * | 3  | APR | 1000 | 59  | .00  | .00  | .00    | 0.     |
| 1  | APR | 0900 | 10  | .01  | .00  | .01    | 148.   | * | 3  | APR | 1100 | 60  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1000 | 11  | .02  | .00  | .02    | 191.   | * | 3  | APR | 1200 | 61  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1100 | 12  | .02  | .00  | .02    | 236.   | * | 3  | APR | 1300 | 62  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1200 | 13  | .02  | .00  | .02    | 261.   | * | 3  | APR | 1400 | 63  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1300 | 14  | .02  | .00  | .02    | 280.   | * | 3  | APR | 1500 | 64  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1400 | 15  | .03  | .00  | .03    | 345.   | * | 3  | APR | 1600 | 65  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1500 | 16  | .03  | .00  | .03    | 387.   | * | 3  | APR | 1700 | 66  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1600 | 17  | .03  | .00  | .03    | 394.   | * | 3  | APR | 1800 | 67  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1700 | 18  | .02  | .00  | .02    | 356.   | * | 3  | APR | 1900 | 68  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1800 | 19  | .00  | .00  | .00    | 257.   | * | 3  | APR | 2000 | 69  | .00  | .00  | .00    | 0.     |
| 1  | APR | 1900 | 20  | .00  | .00  | .00    | 191.   | * | 3  | APR | 2100 | 70  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2000 | 21  | .00  | .00  | .00    | 157.   | * | 3  | APR | 2200 | 71  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2100 | 22  | .00  | .00  | .00    | 131.   | * | 3  | APR | 2300 | 72  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2200 | 23  | .00  | .00  | .00    | 114.   | * | 4  | APR | 0000 | 73  | .00  | .00  | .00    | 0.     |
| 1  | APR | 2300 | 24  | .00  | .00  | .00    | 101.   | * | 4  | APR | 0100 | 74  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0000 | 25  | .00  | .00  | .00    | 90.    | * | 4  | APR | 0200 | 75  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0100 | 26  | .00  | .00  | .00    | 78.    | * | 4  | APR | 0300 | 76  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0200 | 27  | .00  | .00  | .00    | 60.    | * | 4  | APR | 0400 | 77  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0300 | 28  | .00  | .00  | .00    | 45.    | * | 4  | APR | 0500 | 78  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0400 | 29  | .00  | .00  | .00    | 36.    | * | 4  | APR | 0600 | 79  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0500 | 30  | .00  | .00  | .00    | 29.    | * | 4  | APR | 0700 | 80  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0600 | 31  | .00  | .00  | .00    | 23.    | * | 4  | APR | 0800 | 81  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0700 | 32  | .00  | .00  | .00    | 18.    | * | 4  | APR | 0900 | 82  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0800 | 33  | .00  | .00  | .00    | 15.    | * | 4  | APR | 1000 | 83  | .00  | .00  | .00    | 0.     |
| 2  | APR | 0900 | 34  | .00  | .00  | .00    | 12.    | * | 4  | APR | 1100 | 84  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1000 | 35  | .00  | .00  | .00    | 10.    | * | 4  | APR | 1200 | 85  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1100 | 36  | .00  | .00  | .00    | 8.     | * | 4  | APR | 1300 | 86  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1200 | 37  | .00  | .00  | .00    | 6.     | * | 4  | APR | 1400 | 87  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1300 | 38  | .00  | .00  | .00    | 4.     | * | 4  | APR | 1500 | 88  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1400 | 39  | .00  | .00  | .00    | 2.     | * | 4  | APR | 1600 | 89  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1500 | 40  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1700 | 90  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1600 | 41  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1800 | 91  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1700 | 42  | .00  | .00  | .00    | 1.     | * | 4  | APR | 1900 | 92  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1800 | 43  | .00  | .00  | .00    | 1.     | * | 4  | APR | 2000 | 93  | .00  | .00  | .00    | 0.     |
| 2  | APR | 1900 | 44  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2100 | 94  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2000 | 45  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2200 | 95  | .00  | .00  | .00    | 0.     |
| 2  | APR | 2100 | 46  | .00  | .00  | .00    | 0.     | * | 4  | APR | 2300 | 96  | .00  | .00  | .00    | 0.     |

|            |    |     |     |     |    |   |              |     |     |     |     |    |  |  |
|------------|----|-----|-----|-----|----|---|--------------|-----|-----|-----|-----|----|--|--|
|            |    |     |     |     |    |   | SJR_5-yr.out |     |     |     |     |    |  |  |
| 2 APR 2200 | 47 | .00 | .00 | .00 | 0. | * | 5 APR 0000   | 97  | .00 | .00 | .00 | 0. |  |  |
| 2 APR 2300 | 48 | .00 | .00 | .00 | 0. | * | 5 APR 0100   | 98  | .00 | .00 | .00 | 0. |  |  |
| 3 APR 0000 | 49 | .00 | .00 | .00 | 0. | * | 5 APR 0200   | 99  | .00 | .00 | .00 | 0. |  |  |
| 3 APR 0100 | 50 | .00 | .00 | .00 | 0. | * | 5 APR 0300   | 100 | .00 | .00 | .00 | 0. |  |  |
|            |    |     |     |     |    |   |              |     |     |     |     |    |  |  |

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TOTAL RAINFALL = .26, TOTAL LOSS = .00, TOTAL EXCESS = .26

|           |      |          |      |                      |       |          |
|-----------|------|----------|------|----------------------|-------|----------|
| PEAK FLOW | TIME |          | 6-HR | MAXIMUM AVERAGE FLOW |       |          |
| (CFS)     | (HR) |          |      | 24-HR                | 72-HR | 99.00-HR |
| +         |      | (CFS)    |      |                      |       |          |
| +         | 394. | 16.00    | 337. | 176.                 | 62.   | 45.      |
|           |      | (INCHES) | .120 | .251                 | .265  | .265     |
|           |      | (AC-FT)  | 167. | 349.                 | 368.  | 368.     |

CUMULATIVE AREA = 26.04 SQ MI

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614 KK \*\*\*\*\*  
 \* \*  
 \* J(US) \*  
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UPSTREAM OF RAILROAD CANYON  
 COMBINE THE R.R.CYN., SALT CREEK, & SHALLOW POND OUTFLOW HYDROGRAPHS

617 HC HYDROGRAPH COMBINATION  
 ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION J(US)  
 SUM OF 3 HYDROGRAPHS

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|    |     |      |     |      |   |    |     |      |     |       |   |    |     |      |     |      |   |    |     |      |     |      |
|----|-----|------|-----|------|---|----|-----|------|-----|-------|---|----|-----|------|-----|------|---|----|-----|------|-----|------|
| DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW  | * | DA | MON | HRMN | ORD | FLOW | * | DA | MON | HRMN | ORD | FLOW |
| 1  | APR | 0000 | 1   | 0.   | * | 2  | APR | 0100 | 26  | 1425. | * | 3  | APR | 0200 | 51  | 280. | * | 4  | APR | 0300 | 76  | 492. |
| 1  | APR | 0100 | 2   | 19.  | * | 2  | APR | 0200 | 27  | 1117. | * | 3  | APR | 0300 | 52  | 282. | * | 4  | APR | 0400 | 77  | 500. |
| 1  | APR | 0200 | 3   | 96.  | * | 2  | APR | 0300 | 28  | 903.  | * | 3  | APR | 0400 | 53  | 283. | * | 4  | APR | 0500 | 78  | 508. |
| 1  | APR | 0300 | 4   | 199. | * | 2  | APR | 0400 | 29  | 765.  | * | 3  | APR | 0500 | 54  | 286. | * | 4  | APR | 0600 | 79  | 514. |
| 1  | APR | 0400 | 5   | 307. | * | 2  | APR | 0500 | 30  | 665.  | * | 3  | APR | 0600 | 55  | 288. | * | 4  | APR | 0700 | 80  | 518. |

SJR\_5-yr.out

|            |    |       |   |            |    |      |   |            |    |      |   |            |     |      |
|------------|----|-------|---|------------|----|------|---|------------|----|------|---|------------|-----|------|
| 1 APR 0500 | 6  | 432.  | * | 2 APR 0600 | 31 | 581. | * | 3 APR 0700 | 56 | 291. | * | 4 APR 0800 | 81  | 522. |
| 1 APR 0600 | 7  | 579.  | * | 2 APR 0700 | 32 | 512. | * | 3 APR 0800 | 57 | 294. | * | 4 APR 0900 | 82  | 524. |
| 1 APR 0700 | 8  | 742.  | * | 2 APR 0800 | 33 | 458. | * | 3 APR 0900 | 58 | 299. | * | 4 APR 1000 | 83  | 526. |
| 1 APR 0800 | 9  | 932.  | * | 2 APR 0900 | 34 | 417. | * | 3 APR 1000 | 59 | 307. | * | 4 APR 1100 | 84  | 527. |
| 1 APR 0900 | 10 | 1178. | * | 2 APR 1000 | 35 | 386. | * | 3 APR 1100 | 60 | 316. | * | 4 APR 1200 | 85  | 527. |
| 1 APR 1000 | 11 | 1516. | * | 2 APR 1100 | 36 | 362. | * | 3 APR 1200 | 61 | 325. | * | 4 APR 1300 | 86  | 527. |
| 1 APR 1100 | 12 | 1889. | * | 2 APR 1200 | 37 | 344. | * | 3 APR 1300 | 62 | 336. | * | 4 APR 1400 | 87  | 527. |
| 1 APR 1200 | 13 | 2202. | * | 2 APR 1300 | 38 | 330. | * | 3 APR 1400 | 63 | 347. | * | 4 APR 1500 | 88  | 526. |
| 1 APR 1300 | 14 | 2512. | * | 2 APR 1400 | 39 | 318. | * | 3 APR 1500 | 64 | 358. | * | 4 APR 1600 | 89  | 525. |
| 1 APR 1400 | 15 | 2964. | * | 2 APR 1500 | 40 | 309. | * | 3 APR 1600 | 65 | 370. | * | 4 APR 1700 | 90  | 524. |
| 1 APR 1500 | 16 | 3367. | * | 2 APR 1600 | 41 | 302. | * | 3 APR 1700 | 66 | 382. | * | 4 APR 1800 | 91  | 522. |
| 1 APR 1600 | 17 | 3517. | * | 2 APR 1700 | 42 | 296. | * | 3 APR 1800 | 67 | 395. | * | 4 APR 1900 | 92  | 521. |
| 1 APR 1700 | 18 | 3395. | * | 2 APR 1800 | 43 | 291. | * | 3 APR 1900 | 68 | 407. | * | 4 APR 2000 | 93  | 519. |
| 1 APR 1800 | 19 | 2971. | * | 2 APR 1900 | 44 | 285. | * | 3 APR 2000 | 69 | 420. | * | 4 APR 2100 | 94  | 518. |
| 1 APR 1900 | 20 | 2599. | * | 2 APR 2000 | 45 | 280. | * | 3 APR 2100 | 70 | 432. | * | 4 APR 2200 | 95  | 516. |
| 1 APR 2000 | 21 | 2390. | * | 2 APR 2100 | 46 | 276. | * | 3 APR 2200 | 71 | 444. | * | 4 APR 2300 | 96  | 514. |
| 1 APR 2100 | 22 | 2230. | * | 2 APR 2200 | 47 | 276. | * | 3 APR 2300 | 72 | 455. | * | 5 APR 0000 | 97  | 513. |
| 1 APR 2200 | 23 | 2077. | * | 2 APR 2300 | 48 | 276. | * | 4 APR 0000 | 73 | 465. | * | 5 APR 0100 | 98  | 511. |
| 1 APR 2300 | 24 | 1906. | * | 3 APR 0000 | 49 | 277. | * | 4 APR 0100 | 74 | 475. | * | 5 APR 0200 | 99  | 509. |
| 2 APR 0000 | 25 | 1708. | * | 3 APR 0100 | 50 | 279. | * | 4 APR 0200 | 75 | 484. | * | 5 APR 0300 | 100 | 508. |

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| PEAK FLOW | TIME  |          | MAXIMUM AVERAGE FLOW |       |
|-----------|-------|----------|----------------------|-------|
| (CFS)     | (HR)  |          | 6-HR                 | 24-HR |
| 3517.     | 16.00 | (CFS)    | 3128.                | 1898. |
|           |       | (INCHES) | .039                 | .096  |
|           |       | (AC-FT)  | 1551.                | 3765. |

CUMULATIVE AREA = 736.52 SQ MI

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

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 \* \*  
 619 KK \* J(DS) \* RAILROAD CANYON DAM  
 \* \*  
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RATING CURVE WAS OBTAINED FROM PREVIOUS WORK DONE BY COOK, DATED 10/2/73

HYDROGRAPH ROUTING DATA

621 RS STORAGE ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES

|        |           | ITYP   | SJR_5-yr.out |                             |         |         |         |         |         |         |         |         |
|--------|-----------|--------|--------------|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|        |           | RSVRIC | STOR         | TYPE OF INITIAL CONDITION   |         |         |         |         |         |         |         |         |
|        |           | X      | .00          | INITIAL CONDITION           |         |         |         |         |         |         |         |         |
|        |           |        | .00          | WORKING R AND D COEFFICIENT |         |         |         |         |         |         |         |         |
| 622 SV | STORAGE   |        | .0           | 835.9                       | 1671.9  | 2507.8  | 3343.7  | 4179.7  | 5015.6  | 5851.5  | 6687.5  | 7523.4  |
|        |           |        | 8359.3       | 9195.3                      | 10031.2 | 10867.1 | 11703.1 | 12539.0 | 13375.0 | 14210.9 | 15046.8 | 15214.0 |
| 624 SE | ELEVATION |        | 1381.80      | 1382.80                     | 1383.80 | 1384.80 | 1385.80 | 1386.80 | 1387.80 | 1388.80 | 1389.80 | 1390.80 |
|        |           |        | 1391.80      | 1392.80                     | 1393.80 | 1394.80 | 1395.80 | 1396.80 | 1397.80 | 1398.80 | 1399.80 | 1400.00 |
| 626 SQ | DISCHARGE |        | 0.           | 538.                        | 1592.   | 3024.   | 4765.   | 6851.   | 9204.   | 11781.  | 14614.  | 17699.  |
|        |           |        | 21031.       | 24547.                      | 28216.  | 32091.  | 36078.  | 41478.  | 48467.  | 55911.  | 64285.  | 66000.  |

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# HYDROGRAPH AT STATION J(DS)

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| DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE  | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE  | * | DA | MON | HRMN | ORD | OUTFLOW | STORAGE | STAGE  |
|----|-----|------|-----|---------|---------|--------|---|----|-----|------|-----|---------|---------|--------|---|----|-----|------|-----|---------|---------|--------|
| 1  | APR | 0000 | 1   | 0.      | .0      | 1381.8 | * | 2  | APR | 1000 | 35  | 1088.   | 1272.2  | 1383.3 | * | 3  | APR | 2000 | 69  | 395.    | 613.9   | 1382.5 |
| 1  | APR | 0100 | 2   | 0.      | .8      | 1381.8 | * | 2  | APR | 1100 | 36  | 1017.   | 1216.1  | 1383.3 | * | 3  | APR | 2100 | 70  | 397.    | 616.4   | 1382.5 |
| 1  | APR | 0200 | 3   | 3.      | 5.4     | 1381.8 | * | 2  | APR | 1200 | 37  | 951.    | 1163.9  | 1383.2 | * | 3  | APR | 2200 | 71  | 399.    | 619.7   | 1382.5 |
| 1  | APR | 0300 | 4   | 11.     | 16.9    | 1381.8 | * | 2  | APR | 1300 | 38  | 891.    | 1115.7  | 1383.1 | * | 3  | APR | 2300 | 72  | 401.    | 623.8   | 1382.5 |
| 1  | APR | 0400 | 5   | 23.     | 36.4    | 1381.8 | * | 2  | APR | 1400 | 39  | 834.    | 1071.2  | 1383.1 | * | 4  | APR | 0000 | 73  | 404.    | 628.5   | 1382.6 |
| 1  | APR | 0500 | 6   | 41.     | 64.3    | 1381.9 | * | 2  | APR | 1500 | 40  | 783.    | 1030.3  | 1383.0 | * | 4  | APR | 0100 | 74  | 408.    | 633.7   | 1382.6 |
| 1  | APR | 0600 | 7   | 65.     | 101.6   | 1381.9 | * | 2  | APR | 1600 | 41  | 736.    | 992.8   | 1383.0 | * | 4  | APR | 0200 | 75  | 412.    | 639.5   | 1382.6 |
| 1  | APR | 0700 | 8   | 96.     | 149.5   | 1382.0 | * | 2  | APR | 1700 | 42  | 692.    | 958.5   | 1382.9 | * | 4  | APR | 0300 | 76  | 416.    | 645.6   | 1382.6 |
| 1  | APR | 0800 | 9   | 135.    | 209.2   | 1382.1 | * | 2  | APR | 1800 | 43  | 653.    | 927.1   | 1382.9 | * | 4  | APR | 0400 | 77  | 420.    | 652.1   | 1382.6 |
| 1  | APR | 0900 | 10  | 182.    | 283.3   | 1382.1 | * | 2  | APR | 1900 | 44  | 617.    | 898.4   | 1382.9 | * | 4  | APR | 0500 | 78  | 424.    | 658.9   | 1382.6 |
| 1  | APR | 1000 | 11  | 243.    | 377.0   | 1382.3 | * | 2  | APR | 2000 | 45  | 584.    | 872.2   | 1382.8 | * | 4  | APR | 0600 | 79  | 429.    | 665.8   | 1382.6 |
| 1  | APR | 1100 | 12  | 318.    | 494.6   | 1382.4 | * | 2  | APR | 2100 | 46  | 553.    | 848.2   | 1382.8 | * | 4  | APR | 0700 | 80  | 433.    | 672.9   | 1382.6 |
| 1  | APR | 1200 | 13  | 408.    | 633.6   | 1382.6 | * | 2  | APR | 2200 | 47  | 532.    | 826.1   | 1382.8 | * | 4  | APR | 0800 | 81  | 438.    | 679.9   | 1382.6 |
| 1  | APR | 1300 | 14  | 509.    | 790.5   | 1382.7 | * | 2  | APR | 2300 | 48  | 518.    | 805.5   | 1382.8 | * | 4  | APR | 0900 | 82  | 442.    | 686.7   | 1382.6 |
| 1  | APR | 1400 | 15  | 703.    | 966.7   | 1383.0 | * | 3  | APR | 0000 | 49  | 506.    | 786.1   | 1382.7 | * | 4  | APR | 1000 | 83  | 446.    | 693.4   | 1382.6 |
| 1  | APR | 1500 | 16  | 947.    | 1160.2  | 1383.2 | * | 3  | APR | 0100 | 50  | 494.    | 767.7   | 1382.7 | * | 4  | APR | 1100 | 84  | 450.    | 699.9   | 1382.6 |
| 1  | APR | 1600 | 17  | 1194.   | 1356.2  | 1383.4 | * | 3  | APR | 0200 | 51  | 483.    | 750.5   | 1382.7 | * | 4  | APR | 1200 | 85  | 454.    | 706.1   | 1382.6 |
| 1  | APR | 1700 | 18  | 1418.   | 1533.9  | 1383.6 | * | 3  | APR | 0300 | 52  | 473.    | 734.2   | 1382.7 | * | 4  | APR | 1300 | 86  | 458.    | 711.9   | 1382.7 |
| 1  | APR | 1800 | 19  | 1593.   | 1672.5  | 1383.8 | * | 3  | APR | 0400 | 53  | 463.    | 718.9   | 1382.7 | * | 4  | APR | 1400 | 87  | 462.    | 717.5   | 1382.7 |
| 1  | APR | 1900 | 20  | 1750.   | 1764.5  | 1383.9 | * | 3  | APR | 0500 | 54  | 453.    | 704.6   | 1382.6 | * | 4  | APR | 1500 | 88  | 465.    | 722.7   | 1382.7 |
| 1  | APR | 2000 | 21  | 1849.   | 1822.0  | 1384.0 | * | 3  | APR | 0600 | 55  | 445.    | 691.2   | 1382.6 | * | 4  | APR | 1600 | 89  | 468.    | 727.6   | 1382.7 |
| 1  | APR | 2100 | 22  | 1910.   | 1857.6  | 1384.0 | * | 3  | APR | 0700 | 56  | 437.    | 678.6   | 1382.6 | * | 4  | APR | 1700 | 90  | 471.    | 732.1   | 1382.7 |
| 1  | APR | 2200 | 23  | 1942.   | 1876.4  | 1384.0 | * | 3  | APR | 0800 | 57  | 429.    | 667.0   | 1382.6 | * | 4  | APR | 1800 | 91  | 474.    | 736.3   | 1382.7 |
| 1  | APR | 2300 | 24  | 1949.   | 1880.2  | 1384.0 | * | 3  | APR | 0900 | 58  | 422.    | 656.4   | 1382.6 | * | 4  | APR | 1900 | 92  | 476.    | 740.1   | 1382.7 |
| 2  | APR | 0000 | 25  | 1930.   | 1869.3  | 1384.0 | * | 3  | APR | 1000 | 59  | 416.    | 646.8   | 1382.6 | * | 4  | APR | 2000 | 93  | 479.    | 743.7   | 1382.7 |
| 2  | APR | 0100 | 26  | 1882.   | 1841.2  | 1384.0 | * | 3  | APR | 1100 | 60  | 411.    | 638.3   | 1382.6 | * | 4  | APR | 2100 | 94  | 481.    | 746.9   | 1382.7 |
| 2  | APR | 0200 | 27  | 1801.   | 1794.1  | 1383.9 | * | 3  | APR | 1200 | 61  | 406.    | 631.0   | 1382.6 | * | 4  | APR | 2200 | 95  | 483.    | 749.8   | 1382.7 |
| 2  | APR | 0300 | 28  | 1697.   | 1733.1  | 1383.9 | * | 3  | APR | 1300 | 62  | 402.    | 624.9   | 1382.5 | * | 4  | APR | 2300 | 96  | 484.    | 752.4   | 1382.7 |
| 2  | APR | 0400 | 29  | 1585.   | 1666.5  | 1383.8 | * | 3  | APR | 1400 | 63  | 399.    | 620.0   | 1382.5 | * | 5  | APR | 0000 | 97  | 486.    | 754.7   | 1382.7 |

|            |    |       |        |        |   |            |    |      |       |              |   |            |     |      |       |        |  |
|------------|----|-------|--------|--------|---|------------|----|------|-------|--------------|---|------------|-----|------|-------|--------|--|
|            |    |       |        |        |   |            |    |      |       | SJR_5-yr.out |   |            |     |      |       |        |  |
| 2 APR 0500 | 30 | 1499. | 1598.2 | 1383.7 | * | 3 APR 1500 | 64 | 397. | 616.3 | 1382.5       | * | 5 APR 0100 | 98  | 487. | 756.8 | 1382.7 |  |
| 2 APR 0600 | 31 | 1412. | 1529.4 | 1383.6 | * | 3 APR 1600 | 65 | 395. | 613.7 | 1382.5       | * | 5 APR 0200 | 99  | 488. | 758.7 | 1382.7 |  |
| 2 APR 0700 | 32 | 1326. | 1461.4 | 1383.5 | * | 3 APR 1700 | 66 | 394. | 612.2 | 1382.5       | * | 5 APR 0300 | 100 | 489. | 760.3 | 1382.7 |  |
| 2 APR 0800 | 33 | 1243. | 1395.4 | 1383.5 | * | 3 APR 1800 | 67 | 394. | 611.8 | 1382.5       | * |            |     |      |       |        |  |
| 2 APR 0900 | 34 | 1163. | 1332.1 | 1383.4 | * | 3 APR 1900 | 68 | 394. | 612.4 | 1382.5       | * |            |     |      |       |        |  |

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| PEAK FLOW | TIME  |          | 6-HR  | 24-HR | 72-HR | 99.00-HR |
|-----------|-------|----------|-------|-------|-------|----------|
| +         | (CFS) | (HR)     |       |       |       |          |
|           |       | (CFS)    |       |       |       |          |
| +         | 1949. | 23.00    | 1906. | 1450. | 799.  | 666.     |
|           |       | (INCHES) | .024  | .073  | .121  | .139     |
|           |       | (AC-FT)  | 945.  | 2876. | 4753. | 5451.    |

| PEAK STORAGE | TIME    |       | 6-HR  | 24-HR | 72-HR | 99.00-HR |
|--------------|---------|-------|-------|-------|-------|----------|
| +            | (AC-FT) | (HR)  |       |       |       |          |
|              | 1880.   | 23.00 | 1855. | 1539. | 991.  | 854.     |

| PEAK STAGE | TIME    |       | 6-HR    | 24-HR   | 72-HR   | 99.00-HR |
|------------|---------|-------|---------|---------|---------|----------|
| +          | (FEET)  | (HR)  |         |         |         |          |
|            | 1384.05 | 23.00 | 1384.02 | 1383.64 | 1382.99 | 1382.82  |

CUMULATIVE AREA = 736.52 SQ MI

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

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

|   | OPERATION     | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD |         |         | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---|---------------|---------|-----------|--------------|---------------------------------|---------|---------|------------|---------------|-------------------|
| + |               |         |           |              | 6-HOUR                          | 24-HOUR | 72-HOUR |            |               |                   |
| + | HYDROGRAPH AT | 2       | 3087.     | 17.00        | 2726.                           | 1558.   | 630.    | 178.50     |               |                   |
| + | HYDROGRAPH AT | 3       | 785.      | 17.00        | 679.                            | 377.    | 145.    | 51.38      |               |                   |
| + | HYDROGRAPH AT | 4       | 358.      | 16.00        | 289.                            | 147.    | 52.     | 15.76      |               |                   |
| + | 3 COMBINED AT | A       | 4224.     | 17.00        | 3691.                           | 2080.   | 827.    | 245.64     |               |                   |

ROUTED TO

|   |               |      |       |       |              |       |       |        |
|---|---------------|------|-------|-------|--------------|-------|-------|--------|
| + |               | A-B  | 4189. | 18.00 | SJR_5-yr.out |       | 826.  | 245.64 |
|   |               |      |       |       | 3652.        | 2079. |       |        |
| + | HYDROGRAPH AT | 6    | 709.  | 16.00 | 559.         | 293.  | 106.  | 35.42  |
| + | HYDROGRAPH AT | 5    | 185.  | 15.00 | 156.         | 82.   | 29.   | 12.07  |
| + | 3 COMBINED AT | B    | 4834. | 17.00 | 4321.        | 2447. | 962.  | 293.13 |
| + | HYDROGRAPH AT | 7    | 98.   | 15.00 | 84.          | 42.   | 15.   | 5.64   |
| + | 2 COMBINED AT | C    | 4901. | 17.00 | 4389.        | 2486. | 976.  | 298.77 |
| + | HYDROGRAPH AT | 8    | 171.  | 15.00 | 146.         | 74.   | 25.   | 9.73   |
| + | 2 COMBINED AT | D    | 5016. | 17.00 | 4507.        | 2555. | 1001. | 308.50 |
| + | HYDROGRAPH AT | 9    | 621.  | 15.00 | 527.         | 270.  | 93.   | 43.98  |
| + | 2 COMBINED AT | E    | 5438. | 17.00 | 4939.        | 2814. | 1095. | 352.48 |
| + | ROUTED TO     | E-F  | 682.  | 46.00 | 675.         | 606.  | 504.  | 352.48 |
| + | HYDROGRAPH AT | 10   | 284.  | 14.00 | 243.         | 123.  | 42.   | 17.90  |
| + | HYDROGRAPH AT | 11   | 294.  | 14.00 | 251.         | 126.  | 43.   | 18.10  |
| + | 3 COMBINED AT | F    | 682.  | 46.00 | 675.         | 606.  | 505.  | 388.48 |
| + | ROUTED TO     | F-F1 | 635.  | 52.00 | 630.         | 580.  | 480.  | 388.48 |
| + | ROUTED TO     | F1-G | 602.  | 57.00 | 598.         | 561.  | 460.  | 388.48 |
| + | HYDROGRAPH AT | 12A  | 67.   | 14.00 | 54.          | 25.   | 8.    | 12.26  |
| + | HYDROGRAPH AT | 12A1 | 154.  | 14.00 | 125.         | 58.   | 20.   | 12.26  |

SJR\_5-yr.out

|   |               |        |      |       |      |      |      |        |         |       |
|---|---------------|--------|------|-------|------|------|------|--------|---------|-------|
| + | 3 COMBINED AT | G      | 602. | 57.00 | 598. | 561. | 460. | 413.00 |         |       |
| + | ROUTED TO     | G-H    | 528. | 80.00 | 528. | 520. | 383. | 413.00 |         |       |
| + | HYDROGRAPH AT | 13     | 153. | 16.00 | 131. | 69.  | 24.  | 25.74  |         |       |
| + | HYDROGRAPH AT | 13     | 250. | 16.00 | 214. | 106. | 36.  | 25.74  |         |       |
| + | 3 COMBINED AT | NUEVDS | 528. | 80.00 | 528. | 520. | 384. | 464.48 |         |       |
| + | HYDROGRAPH AT | 14     | 149. | 15.00 | 126. | 58.  | 20.  | 9.03   |         |       |
| + | ROUTED TO     | PB     | 95.  | 17.00 | 92.  | 58.  | 20.  | 9.03   | 1675.97 | 17.00 |
| + | HYDROGRAPH AT | IA     | 21.  | 14.00 | 17.  | 8.   | 3.   | 1.17   |         |       |
| + | 2 COMBINED AT | IA     | 112. | 16.00 | 105. | 66.  | 22.  | 10.20  |         |       |
| + | ROUTED TO     | IB     | 98.  | 18.00 | 96.  | 65.  | 22.  | 10.20  | 1639.34 | 18.00 |
| + | HYDROGRAPH AT | LA     | 13.  | 14.00 | 11.  | 5.   | 2.   | .69    |         |       |
| + | ROUTED TO     | LB     | 12.  | 16.00 | 10.  | 5.   | 2.   | .69    | 1735.20 | 16.00 |
| + | HYDROGRAPH AT | NA     | 83.  | 15.00 | 69.  | 32.  | 11.  | 4.33   |         |       |
| + | ROUTED TO     | NB     | 71.  | 17.00 | 62.  | 31.  | 11.  | 4.33   | 60.72   | 17.00 |
| + | HYDROGRAPH AT | SA     | 83.  | 15.00 | 69.  | 32.  | 11.  | 4.34   |         |       |
| + | 4 COMBINED AT | CP1    | 255. | 16.00 | 226. | 132. | 45.  | 19.56  |         |       |

| SJR_5-yr.out |               |       |       |       |       |       |         |        |
|--------------|---------------|-------|-------|-------|-------|-------|---------|--------|
| +            | HYDROGRAPH AT | CP4A  | 968.  | 16.00 | 820.  | 398.  | 135.    | 62.87  |
| +            | HYDROGRAPH AT | SEATA | 52.   | 15.00 | 44.   | 20.   | 7.      | 3.01   |
| +            | 3 COMBINED AT | CP4   | 1273. | 16.00 | 1088. | 549.  | 187.    | 85.44  |
| +            | 2 COMBINED AT | COMB  | 1711. | 16.00 | 1463. | 773.  | 484.    | 549.92 |
| +            | HYDROGRAPH AT | 15B   | 23.   | 15.00 | 19.   | 9.    | 3.      | 4.27   |
| +            | HYDROGRAPH AT | 15B1  | 52.   | 15.00 | 44.   | 20.   | 7.      | 4.27   |
| +            | 2 COMBINED AT | 15B7  | 75.   | 15.00 | 63.   | 29.   | 10.     | 8.54   |
| +            | 2 COMBINED AT | H     | 1783. | 16.00 | 1524. | 802.  | 493.    | 558.46 |
| +            | ROUTED TO     | H-I   | 1324. | 20.00 | 1261. | 793.  | 489.    | 558.46 |
| +            | HYDROGRAPH AT | 15A   | 457.  | 15.00 | 384.  | 185.  | 62.     | 28.11  |
| +            | 2 COMBINED AT | I     | 1534. | 17.00 | 1477. | 962.  | 540.    | 586.57 |
| +            | ROUTED TO     | I-J   | 1533. | 17.00 | 1476. | 962.  | 539.    | 586.57 |
| +            | HYDROGRAPH AT | 17    | 1616. | 16.00 | 1382. | 768.  | 294.    | 123.91 |
| +            | HYDROGRAPH AT | 16    | 394.  | 16.00 | 337.  | 176.  | 62.     | 26.04  |
| +            | 3 COMBINED AT | J(US) | 3517. | 16.00 | 3128. | 1898. | 874.    | 736.52 |
| +            | ROUTED TO     | J(DS) | 1949. | 23.00 | 1906. | 1450. | 799.    | 736.52 |
| +            |               |       |       |       |       |       |         |        |
|              |               |       |       |       |       |       | 1384.05 | 23.00  |

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

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