

200
R290
No. 461

(200)
R290
No. 461

U.S. Geological Survey
Reports - Open file series

Water resources exhibits on Santa
Margarita River basin, California

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

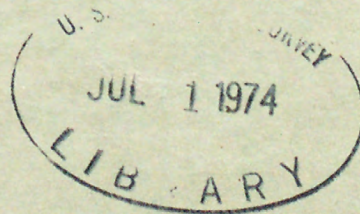
Exhibits to be Submitted for the Case

U. S. VERSUS FALLBROOK PUBLIC
UTILITY DISTRICT ET AL

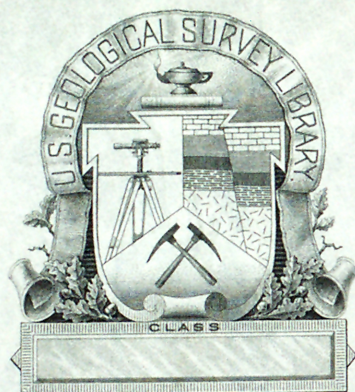
Prepared by Walter Hofmann - May 1958
United States Geological Survey

TABLES 1, 2, 3, 5, 6

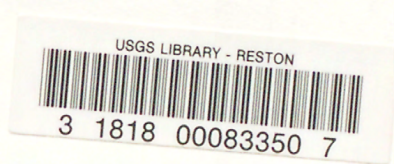
Labeled
maps at:
California. (Santa Margarita River Basin). Runoff. 1162,500.
1958
[11 sheets]



Approved by U.S. Geological Survey, May 1958



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U. S. Geological Survey.

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1958.

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Table 1

| Year | Los Angeles | Tustin | Riverside | Elsinore | Fallbrook | Valley Center | Warner Springs | Escondido | San Diego |
|---------|-------------|--------|-----------|----------|-----------|---------------|----------------|-----------|-----------|
| 1850-51 | - | - | - | - | - | - | - | - | 8.41 |
| 51-52 | - | - | - | - | - | - | - | - | 9.48 |
| 52-53 | - | - | - | - | - | - | - | - | 11.03 |
| 53-54 | - | - | - | - | - | - | - | - | 9.77 |
| 54-55 | - | - | - | - | - | - | - | - | 13.56 |
| 55-56 | - | - | - | - | - | - | - | - | 9.89 |
| 56-57 | - | - | - | - | - | - | - | - | 4.76 |
| 57-58 | - | - | - | - | - | - | - | - | 7.54 |
| 58-59 | - | - | - | - | - | - | - | - | 6.61 |
| 59-60 | - | - | - | - | - | - | - | - | 6.58 |
| 60-61 | - | - | - | - | - | - | - | - | 7.90 |
| 61-62 | - | - | - | - | - | - | - | - | 15.64 |
| 62-63 | - | - | - | - | - | - | - | - | 3.87 |
| 63-64 | - | - | - | - | - | - | - | - | 5.14 |
| 64-65 | - | - | - | - | - | - | - | - | 8.45 |
| 65-66 | - | - | - | - | - | - | - | - | 12.82 |
| 66-67 | - | - | - | - | - | - | - | - | 13.73 |
| 67-68 | - | - | - | - | - | - | - | - | 11.23 |
| 68-69 | - | - | - | - | - | - | - | - | 11.68 |
| 69-70 | - | - | - | - | - | - | - | - | 5.48 |
| 70-71 | - | - | - | - | - | - | - | - | 5.17 |
| 71-72 | - | - | - | - | - | - | - | - | 6.18 |
| 72-73 | - | - | - | - | - | 11.65 | - | - | 6.50 |
| 73-74 | - | - | - | - | - | 37.80 | - | - | 16.88 |
| 74-75 | - | - | - | - | - | 13.30 | - | - | 5.75 |
| 75-76 | - | - | - | - | - | 20.00 | - | 20.81 | 10.11 |
| 76-77 | - | - | - | - | 8.67 | 8.80 | - | 8.37 | 3.75 |
| 77-78 | 21.26 | 19.60 | - | - | 24.84 | 26.51 | - | 26.80 | 16.10 |
| 78-79 | 11.35 | 5.75 | - | - | 7.70 | 8.46 | - | 8.72 | 7.88 |
| 79-80 | 20.34 | 16.58 | - | - | 20.45 | 24.55 | - | 19.83 | 14.36 |
| 80-81 | 13.13 | 9.49 | - | - | 13.47 | 16.03 | - | 10.67 | 9.66 |
| 81-82 | 10.40 | 7.74 | 6.31 | - | 12.24 | 14.11 | - | 10.32 | 9.51 |
| 82-83 | 12.11 | 7.56 | 2.94 | - | 13.32 | 11.94 | - | 7.70 | 4.92 |
| 83-84 | 38.18 | 32.65 | 22.74 | - | 40.77 | 50.51 | - | 32.07 | 25.97 |
| 84-85 | 9.21 | 9.61 | 8.97 | - | 12.70 | 13.36 | - | 9.40 | 8.67 |
| 85-86 | 22.31 | 16.38 | 9.42 | - | 26.23 | 30.35 | - | 20.87 | 16.96 |
| 86-87 | 14.05 | 9.11 | 5.92 | - | 10.82 | 13.71 | - | 10.52 | 8.32 |
| 87-88 | 13.87 | 17.53 | 11.76 | 19.17 | 20.10 | 22.80 | - | 15.85 | 9.82 |
| 88-89 | 19.28 | 15.42 | 15.55 | - | 23.46 | 26.70 | - | 18.47 | 11.02 |
| 89-90 | 34.84 | 22.21 | 18.21 | - | 26.91 | 30.40 | - | 20.89 | 15.02 |
| 90-91 | 13.36 | 14.76 | 12.89 | - | 19.68 | 26.56 | - | 14.95 | 10.47 |
| 91-92 | 11.85 | 12.13 | 6.44 | - | 13.49 | 18.27 | - | 11.60 | 8.70 |
| 92-93 | 26.28 | 18.10 | 12.46 | - | 21.27 | 20.60 | - | 18.36 | 9.26 |
| 93-94 | 6.73 | 6.42 | 7.12 | - | 9.81 | 9.90 | - | 5.90 | 4.97 |
| 94-95 | 16.11 | 17.00 | 16.39 | - | 23.85 | 24.70 | - | 18.57 | 11.90 |
| 95-96 | 8.51 | 9.47 | 7.51 | - | 9.27 | 11.79 | - | 7.92 | 6.21 |
| 96-97 | 16.86 | 14.51 | 12.85 | - | 21.58 | 24.15 | - | 15.50 | 11.78 |
| 97-98 | 7.06 | 5.82 | 5.88 | 6.62 | 10.98 | 10.93 | - | 8.68 | 4.99 |
| 98-99 | 5.59 | 6.64 | 5.70 | 6.47 | 8.70 | 10.74 | - | 9.47 | 5.24 |
| 99-00 | 7.91 | 7.29 | 6.01 | 5.98 | 13.47 | *15.38 | - | 13.89 | 5.97 |
| 1900-01 | 16.29 | 15.46 | 8.86 | 14.29 | 16.60 | 18.78 | - | 14.46 | 10.45 |
| 01-02 | 10.60 | 8.84 | 6.50 | 9.65 | 12.45 | 10.95 | - | 11.66 | 6.17 |
| 02-03 | 19.32 | 15.38 | 12.74 | 16.08 | 23.49 | 21.54 | - | 17.69 | 11.76 |
| 03-04 | 8.72 | 6.77 | 5.75 | 6.65 | *11.3 | *11.4 | - | 8.15 | 4.40 |
| 04-05 | 19.52 | 18.78 | 16.52 | 21.47 | *26.3 | *26.5 | - | 23.49 | 14.32 |
| 05-06 | 18.65 | 19.00 | 15.14 | 25.96 | *23.7 | *23.9 | - | 25.43 | 14.68 |
| 06-07 | 19.30 | 19.68 | 16.31 | 18.02 | *24.5 | *15.9 | 23.23 | 17.89 | 10.62 |
| 07-08 | 11.72 | 9.04 | 11.94 | 11.90 | *17.1 | *17.2 | 15.91 | 13.52 | 8.55 |
| 08-09 | 19.18 | 14.45 | 12.02 | 15.03 | *22.8 | *22.9 | 17.68 | 18.21 | 10.23 |
| 09-10 | 12.63 | 11.87 | 11.93 | 14.14 | 18.29 | *20.1 | 22.45 | 18.83 | 9.79 |
| 10-11 | 16.18 | 13.05 | 10.73 | 11.63 | 17.70 | *19.1 | 17.49 | 15.44 | 11.99 |
| 11-12 | 11.60 | 7.89 | 8.37 | 10.47 | 16.65 | *12.33 | 14.06 | 14.70 | 10.75 |
| 12-13 | 13.42 | 8.11 | 7.16 | - | 10.69 | * 9.98 | 13.81 | 10.31 | 5.97 |
| 13-14 | 23.65 | 15.66 | 14.89 | - | 23.66 | 20.81 | 18.48 | 19.11 | 9.83 |
| 14-15 | 17.05 | 18.31 | 15.07 | - | 29.90 | 27.87 | 27.16 | 25.37 | 14.41 |
| 15-16 | 19.92 | 15.87 | 16.88 | 22.71 | 29.78 | 29.81 | 26.14 | 27.94 | 12.55 |
| 16-17 | 15.26 | 10.38 | 9.11 | 11.49 | 19.26 | 17.58 | 13.19 | 17.04 | 10.13 |
| 17-18 | 13.86 | 9.49 | 8.92 | 11.97 | 16.93 | 18.70 | 14.77 | 13.87 | 8.04 |
| 18-19 | 8.58 | 8.47 | 9.85 | 7.44 | 11.74 | 14.69 | 11.62 | 12.28 | 8.74 |
| 19-20 | 12.52 | 13.03 | 12.00 | 12.66 | 19.10 | 17.93 | 17.32 | 15.17 | 8.91 |
| 20-21 | 13.65 | 12.23 | 9.93 | 9.64 | 16.78 | 11.92 | 11.65 | 11.40 | 7.08 |
| 21-22 | 19.66 | 17.51 | 19.75 | 26.22 | 34.66 | 32.36 | 38.23 | 29.89 | 18.65 |
| 22-23 | 9.59 | 7.21 | 8.59 | 7.38 | 15.07 | 11.76 | 13.82 | 11.56 | 6.36 |
| 23-24 | 6.67 | 11.09 | 8.33 | 7.66 | 11.52 | 14.06 | 11.95 | 10.61 | 5.66 |
| 24-25 | 7.94 | 6.48 | 7.95 | 6.73 | 11.59 | 11.05 | 8.32 | 11.32 | 5.81 |
| 25-26 | 17.56 | 13.45 | 14.00 | 14.10 | 21.96 | 25.54 | 19.94 | 21.44 | 15.66 |
| 26-27 | 17.76 | 14.79 | 14.21 | 16.45 | 28.33 | 27.18 | 28.04 | 24.68 | 14.74 |
| 27-28 | 9.77 | 11.05 | 10.99 | 8.02 | 12.63 | 14.60 | 12.01 | 14.46 | 8.71 |
| 28-29 | 12.66 | 9.57 | 7.44 | 7.22 | 12.80 | 14.76 | 12.30 | 12.87 | 7.10 |
| 29-30 | 11.52 | 13.76 | 13.07 | 17.07 | 19.59 | 20.50 | 20.61 | 17.00 | 10.73 |
| 30-31 | 12.53 | 9.94 | 11.04 | 11.34 | 16.64 | 16.29 | 11.86 | 14.49 | 10.78 |
| 31-32 | 16.95 | 15.10 | 14.16 | 19.67 | 24.29 | 28.25 | 25.14 | 24.58 | 13.18 |
| 32-33 | 11.88 | 10.64 | 8.65 | 9.33 | 13.17 | 17.72 | 17.18 | 17.05 | 10.63 |
| 33-34 | 14.55 | 8.75 | 5.35 | 8.01 | 12.63 | 9.79 | 7.21 | 9.08 | 4.26 |
| 34-35 | 21.66 | 15.85 | 12.73 | 17.28 | 23.55 | 23.15 | 18.49 | 21.08 | 15.10 |
| 35-36 | 12.07 | 8.60 | 11.15 | 9.33 | 16.39 | 15.22 | 12.12 | 12.76 | 8.39 |
| 36-37 | 22.41 | 22.56 | 21.84 | 26.35 | 34.51 | 37.32 | 27.84 | 32.84 | 15.93 |
| 37-38 | 23.43 | 16.64 | 16.11 | 18.91 | 25.90 | 24.93 | 21.58 | 19.39 | 9.72 |
| 38-39 | 13.07 | 14.12 | 10.81 | 12.63 | 20.51 | 18.18 | 14.01 | 15.14 | 9.79 |
| 39-40 | 19.21 | 15.93 | 10.83 | 13.35 | 21.00 | 21.20 | 17.86 | 19.57 | 11.30 |
| 40-41 | 32.76 | 29.50 | 22.72 | 25.96 | 33.31 | 37.67 | 29.03 | 31.36 | 24.74 |
| 41-42 | 11.18 | 12.77 | 9.83 | 11.20 | 19.56 | *20.74 | 17.11 | 18.99 | 13.05 |
| 42-43 | 18.17 | 16.26 | 15.27 | 14.71 | 21.86 | 20.76 | 16.34 | 16.17 | 11.10 |
| 43-44 | 19.22 | 17.33 | 15.79 | 16.56 | 15.66 | 18.44 | 17.26 | 17.46 | 14.47 |
| 44-45 | 11.59 | 13.95 | 9.85 | 10.09 | 13.42 | 13.26 | 17.88 | 14.42 | 11.04 |
| 45-46 | 11.65 | 10.65 | 9.48 | 7.73 | 11.95 | 17.63 | 21.38 | 14.94 | 9.34 |
| 46-47 | 12.66 | 12.47 | 8.42 | 7.89 | 10.08 | 14.66 | 14.91 | 13.11 | 6.33 |
| 47-48 | 7.22 | 7.35 | 6.16 | *6.5 | 7.86 | 10.62 | 9.97 | 8.69 | 6.83 |
| 48-49 | 7.99 | 7.49 | 8.29 | *8.15 | 11.68 | 15.87 | 14.32 | 14.20 | 10.42 |
| 49-50 | 10.60 | 9.23 | 7.53 | 6.17 | 8.82 | 10.89 | 11.44 | 10.74 | 8.55 |
| 50-51 | 8.21 | 6.46 | 5.23 | 4.46 | 8.86 | 9.13 | 9.76 | 9.26 | 5.92 |
| 51-52 | 26.21 | 23.95 | 17.19 | 17.85 | 23.43 | 34.18 | 26.17 | 24.57 | 18.16 |
| 52-53 | 9.46 | 9.57 | 9.58 | 8.25 | 12.37 | 13.61 | 12.05 | 11.34 | 6.54 |
| 53-54 | 11.99 | 10.44 | 9.61 | 10.38 | 13.40 | 17.88 | 13.18 | 14.06 | 9.13 |
| 54-55 | 11.94 | 9.14 | 8.78 | 8.62 | 11.07 | 11.75 | 11.30 | 10.56 | 7.21 |
| 55-56 | 16.00 | 12.19 | 7.83 | 6.08 | 11.18 | 13.63 | 13.17 | 9.58 | 4.52 |
| 56-57 | 9.54 | 10.31 | 9.73 | 8.47 | *12.70 | 16.64 | 11.44 | 13.90 | 8.89 |
| Minimum | 5.59 | 5.75 | 2.94 | 4.46 | 7.70 | 8.46 | 7.21 | 5.90 | 3.75 |
| Maximum | 38.18 | 32.65 | 22.74 | 26.35 | 40.77 | 50.51 | 38.23 | 32.84 | 25.97 |
| Average | 14.99 | 12.94 | 11.10 | 12.51 | 17.86 | 19.12 | 17.06 | 15.99 | 9.94 |

* Wholly or partly estimated by U. S. Geological Survey.

Comparison of average seasonal precipitation
for certain periods at selected sites
in southern California

| Station | Period (years) | | Departure of average for period 1880-1946 from period 1880-1957 (percent) |
|---------------|-------------------------|-------------------------|--|
| | 1880 - 1946 (inches) | 1880 - 1957 (inches) | |
| Los Angeles | 15.37 | 14.89 | + 3 |
| Tustin | 13.25 | 12.90 | + 3 |
| Fallbrook | 18.99 | 17.98 | + 6 |
| Valley Center | 19.78 | 19.14 | + 3 |
| Escondido | 16.47 | 15.93 | + 4 |
| San Diego | 10.53 | 10.23 | + 3 |

United States Geological Survey

May 1958

Table 3

| Year | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | Seasonal |
|---------|------|------|-------|------|------|-------|-------|-------|-------|------|------|------|----------|
| 1877-78 | 0 | 0 | 0 | .83 | .45 | 3.93 | 3.33 | 7.68 | 2.57 | 1.71 | .66 | .07 | 21.26 |
| 78-79 | 0 | T | 0 | .14 | T | 4.70 | 3.59 | .97 | .49 | 1.19 | .24 | .03 | 11.35 |
| 79-80 | 0 | 0 | 0 | .93 | 3.44 | 6.53 | 1.33 | 1.56 | 1.45 | 5.06 | .04 | 0 | 20.34 |
| 80-81 | T | T | 0 | .14 | .67 | 8.40 | 1.43 | .36 | 1.66 | .46 | .01 | 0 | 13.17 |
| 81-82 | 0 | T | T | .82 | .27 | .52 | 1.01 | 2.66 | 2.66 | 1.83 | .63 | T | 10.40 |
| 82-83 | 0 | 0 | T | .05 | 1.82 | .08 | 1.62 | 3.47 | 2.87 | .15 | 2.02 | .83 | 12.11 |
| 83-84 | T | 0 | 0 | 1.42 | 0 | 2.56 | 3.15 | 13.37 | 12.36 | 3.58 | .35 | 1.39 | 38.18 |
| 84-85 | T | T | T | .39 | 1.06 | 4.64 | 1.05 | T | .01 | 2.00 | .06 | T | 9.21 |
| 85-86 | T | T | T | .26 | 5.52 | 1.63 | 7.72 | 1.38 | 2.50 | 3.29 | 0 | .01 | 22.31 |
| 86-87 | .24 | .21 | 0 | .01 | 1.18 | .18 | .20 | 9.25 | .24 | 2.30 | .20 | .04 | 14.05 |
| 87-88 | .07 | 0 | .15 | .12 | .78 | 2.67 | 6.03 | .77 | 3.15 | .11 | .02 | T | 13.87 |
| 88-89 | .03 | .08 | T | .36 | 4.01 | 6.26 | .25 | .92 | 6.48 | .27 | .62 | 0 | 19.28 |
| 89-90 | 0 | .61 | T | 6.96 | 1.35 | 15.80 | 7.83 | 1.36 | .66 | .22 | .03 | .02 | 34.84 |
| 90-91 | 0 | .03 | .06 | .03 | .13 | 2.32 | .25 | 8.56 | .41 | 1.26 | .31 | 0 | 13.36 |
| 91-92 | T | 0 | .06 | 0 | 0 | 1.99 | .88 | 3.19 | 3.39 | .22 | 2.06 | .06 | 11.85 |
| 92-93 | 0 | .01 | 0 | .33 | 4.40 | 4.18 | 6.29 | 2.27 | 8.52 | .19 | .06 | .03 | 26.28 |
| 93-94 | 0 | 0 | T | .75 | .20 | 3.65 | .94 | .49 | .37 | .13 | .20 | T | 6.73 |
| 94-95 | T | .01 | .73 | .02 | 0 | 4.62 | 5.84 | .46 | 3.77 | .46 | .19 | .01 | 16.11 |
| 95-96 | T | T | T | .24 | .80 | .78 | 3.23 | T | 2.97 | .19 | .30 | T | 8.51 |
| 96-97 | .02 | .01 | T | 1.30 | 1.66 | 2.12 | 3.70 | 5.62 | 2.31 | .02 | .10 | T | 16.86 |
| 97-98 | T | 0 | 0 | 2.47 | .01 | .05 | 1.26 | .51 | .98 | .03 | 1.75 | T | 7.06 |
| 98-99 | .07 | T | .02 | .09 | T | .12 | 2.64 | .04 | 1.81 | .18 | .04 | .58 | 5.59 |
| 99-00 | 0 | .01 | T | 1.59 | .90 | .90 | 1.17 | T | .99 | .54 | 1.81 | T | 7.91 |
| 1900-01 | T | T | T | .26 | 6.53 | T | 2.49 | 4.38 | .45 | .68 | 1.50 | T | 16.29 |
| 01-02 | T | .09 | .03 | 1.88 | .46 | 0 | 1.62 | 3.35 | 2.98 | .16 | .03 | T | 10.60 |
| 02-03 | T | T | T | .40 | 2.08 | 2.50 | 2.10 | 1.52 | 6.93 | 3.77 | T | .02 | 19.32 |
| 03-04 | 0 | T | .43 | T | 0 | T | .14 | 2.68 | 4.50 | .97 | T | T | 8.72 |
| 04-05 | T | .17 | .28 | .69 | 0 | 2.45 | 2.57 | 6.06 | 6.00 | .35 | .95 | 0 | 19.52 |
| 05-06 | 0 | 0 | T | .08 | 2.98 | .20 | 3.85 | 2.47 | 7.35 | .69 | 1.02 | .01 | 18.65 |
| 06-07 | .02 | .03 | .05 | 0 | .85 | 5.12 | 7.02 | 1.83 | 4.12 | .16 | .07 | .03 | 19.30 |
| 07-08 | 0 | 0 | T | 1.19 | T | .88 | 5.04 | 3.66 | .18 | .52 | .25 | 0 | 11.72 |
| 08-09 | T | .08 | 1.22 | .25 | 1.08 | 1.46 | 7.27 | 5.20 | 2.51 | T | 0 | .11 | 19.18 |
| 09-10 | 0 | T | .04 | .28 | 1.51 | 7.00 | 1.53 | .11 | 1.86 | .30 | 0 | 0 | 12.63 |
| 10-11 | .04 | T | .01 | .82 | .15 | .07 | 6.70 | 2.91 | 5.15 | .28 | .02 | .03 | 16.18 |
| 11-12 | T | 0 | 1.23 | .16 | .10 | 1.27 | .07 | 0 | 6.99 | 1.66 | .12 | 0 | 11.60 |
| 12-13 | T | 0 | 0 | .56 | .35 | .03 | 2.01 | 9.16 | .33 | .35 | .05 | .58 | 13.42 |
| 13-14 | T | T | .03 | T | 3.00 | 1.66 | 10.35 | 7.04 | .58 | .47 | .43 | .09 | 23.65 |
| 14-15 | .01 | 0 | 0 | .31 | .20 | 3.73 | 5.42 | 5.09 | .60 | .81 | .88 | T | 17.05 |
| 15-16 | 0 | 0 | T | 0 | 1.35 | 2.52 | 13.30 | 1.82 | .90 | T | .03 | 0 | 19.92 |
| 16-17 | 0 | T | .77 | 2.71 | .09 | 3.67 | 2.68 | 4.49 | .18 | .46 | .21 | 0 | 15.26 |
| 17-18 | T | T | T | 0 | .36 | .07 | .50 | 6.14 | 6.21 | .15 | .40 | .03 | 13.86 |
| 18-19 | .09 | .03 | .55 | T | 1.85 | 1.54 | .96 | 1.02 | 2.18 | .17 | .19 | 0 | 8.58 |
| 19-20 | 0 | T | 1.29 | .56 | .46 | 1.99 | .50 | 2.37 | 4.25 | 1.00 | .10 | T | 12.52 |
| 20-21 | T | 0 | .04 | .76 | 1.16 | 1.01 | 3.22 | .86 | 2.75 | .28 | 3.57 | .01 | 13.65 |
| 21-22 | T | T | .62 | .59 | .05 | 7.90 | 4.64 | 3.47 | 1.64 | .10 | .65 | T | 19.66 |
| 22-23 | T | 0 | 0 | .24 | 1.44 | 3.09 | 1.76 | .75 | .32 | 1.97 | 0 | .02 | 9.59 |
| 23-24 | T | T | .55 | .04 | .04 | .80 | .36 | .03 | 3.42 | 1.43 | 0 | 0 | 6.67 |
| 24-25 | 0 | 0 | T | .63 | 1.14 | 1.10 | .20 | .53 | 1.56 | 1.90 | .32 | .56 | 7.94 |
| 25-26 | T | 0 | 0 | .74 | .68 | 2.45 | 3.06 | 2.70 | .22 | 7.53 | .18 | T | 17.56 |
| 26-27 | T | T | 0 | .27 | 3.45 | 1.15 | 1.09 | 9.03 | 2.07 | .70 | T | T | 17.76 |
| 27-28 | T | T | T | 2.04 | .61 | 3.09 | .02 | 1.43 | 1.99 | .29 | .29 | .01 | 9.77 |
| 28-29 | 0 | T | 0 | .29 | 1.67 | 2.70 | 1.20 | 2.15 | 2.51 | 1.99 | T | .15 | 12.66 |
| 29-30 | 0 | 0 | .32 | T | 0 | 0 | 5.57 | .45 | 3.99 | .15 | 1.04 | T | 11.52 |
| 30-31 | 0 | 0 | .01 | .10 | 1.71 | 0 | 3.90 | 3.25 | T | 3.02 | .52 | .02 | 12.53 |
| 31-32 | 0 | .02 | .24 | .06 | 1.95 | 5.95 | 2.94 | 5.33 | .01 | .30 | .02 | .13 | 16.95 |
| 32-33 | T | 0 | .14 | .08 | 0 | 1.77 | 8.46 | 0 | .19 | .56 | .21 | .47 | 11.87 |
| 33-34 | T | .01 | 0 | .34 | .04 | 8.48 | 3.22 | 2.04 | .01 | T | 0 | .41 | 14.55 |
| 34-35 | T | .01 | .13 | 2.31 | 2.79 | 3.75 | 2.91 | 2.23 | 4.31 | 3.19 | .03 | T | 21.66 |
| 35-36 | T | .11 | T | .05 | 1.24 | .42 | .51 | 7.25 | 1.34 | .95 | 0 | .20 | 12.07 |
| 36-37 | .01 | .02 | .03 | 1.25 | .05 | 6.63 | 1.99 | 7.87 | 4.04 | .24 | .28 | 0 | 22.41 |
| 37-38 | 0 | 0 | 0 | .01 | 0 | 3.54 | 1.63 | 9.81 | 7.94 | .48 | .02 | T | 23.43 |
| 38-39 | 0 | T | .01 | .01 | T | 7.26 | 2.96 | 1.13 | 1.44 | .24 | .02 | T | 13.07 |
| 39-40 | T | .01 | 5.67 | .13 | .08 | .38 | 4.33 | 5.43 | 1.55 | 1.61 | .02 | T | 19.21 |
| 40-41 | T | 0 | .01 | 1.47 | .34 | 5.50 | 2.21 | 12.42 | 8.14 | 2.67 | T | T | 32.76 |
| 41-42 | T | .04 | 0 | 1.53 | .05 | 4.22 | .59 | 1.05 | 1.26 | 2.44 | T | T | 11.18 |
| 42-43 | 0 | .23 | T | .58 | .24 | 1.01 | 7.98 | 3.07 | 4.55 | .50 | T | .01 | 18.17 |
| 43-44 | T | 0 | T | .18 | .05 | 6.23 | .97 | 8.65 | 2.47 | .60 | .02 | .05 | 19.22 |
| 44-45 | T | T | .01 | .06 | 3.72 | .90 | .04 | 3.34 | 3.43 | .08 | T | .01 | 11.59 |
| 45-46 | T | .04 | T | .56 | .23 | 5.05 | .11 | 1.52 | 3.66 | .44 | .04 | T | 11.65 |
| 46-47 | T | 0 | .02 | .92 | 6.04 | 3.47 | .38 | .86 | .79 | .04 | .12 | .02 | 12.66 |
| 47-48 | 0 | .01 | .09 | .14 | .06 | 1.62 | T | 1.29 | 3.07 | .78 | T | .16 | 7.22 |
| 48-49 | T | T | T | .09 | T | 2.20 | 2.43 | 1.41 | 1.40 | T | .46 | T | 7.99 |
| 49-50 | T | .01 | .01 | .01 | 2.13 | 2.72 | 2.57 | 1.67 | .87 | .56 | T | T | 10.60 |
| 50-51 | .01 | 0 | .38 | .24 | 1.05 | .03 | 2.80 | 1.48 | .44 | 1.54 | .24 | T | 8.21 |
| 51-52 | T | .15 | 0 | .59 | 1.29 | 5.80 | 10.03 | .63 | 6.14 | 1.58 | T | T | 26.21 |
| 52-53 | T | T | .13 | 0 | 3.13 | 3.31 | 1.03 | .33 | .48 | .91 | .03 | .06 | 9.46 |
| 53-54 | 0 | 0 | T | T | 1.11 | .08 | 4.60 | 2.98 | 2.99 | .13 | .02 | .08 | 11.99 |
| 54-55 | T | T | T | T | 2.03 | .86 | 4.30 | .68 | .56 | 2.07 | 1.43 | .01 | 11.94 |
| 55-56 | T | .05 | T | T | 1.68 | 1.11 | 8.39 | .59 | T | 3.72 | .46 | T | 16.00 |
| 56-57 | 0 | T | 0 | .12 | 0 | .34 | 4.41 | 1.47 | 1.02 | 1.47 | .63 | .03 | 9.54 |
| Minimum | 0 | 0 | 0 | 0 | 0 | 0 | T | 0 | T | T | 0 | 0 | 5.59 |
| Maximum | .24 | .61 | 5.67 | 6.96 | 6.53 | 15.80 | 13.30 | 13.37 | 12.36 | 7.53 | 3.57 | 1.39 | 38.18 |
| Average | .008 | .026 | .19 | .57 | 1.17 | 2.76 | 3.10 | 3.07 | 2.62 | 1.06 | .36 | .070 | 14.99 |

Monthly and seasonal precipitation, in inches, at Fallbrook, California for the period 1875-1957

| Year | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | Seasonal |
|---------|------|------|-------|------|------|-------|--------|-------|-------|------|------|------|----------|
| 1875-76 | - | - | - | - | - | - | 6.17 | 3.78 | 2.77 | 0.15 | 0.61 | 0 | - |
| 76-77 | 0.15 | 0 | 0.20 | 0.23 | 0.07 | 0.08 | 3.41 | .59 | 2.28 | .55 | 1.11 | 0 | 8.67 |
| 77-78 | 0 | T | 0 | .59 | .58 | 4.02 | 3.19 | 8.01 | 2.08 | 4.63 | 1.41 | .33 | 24.84 |
| 78-79 | 0 | T | 0 | .32 | .25 | 1.64 | 3.21 | .90 | .29 | .83 | .03 | .23 | 7.70 |
| 79-80 | 0 | .05 | 0 | .42 | 3.61 | 5.87 | 1.46 | 1.86 | 2.12 | 4.99 | .05 | .02 | 20.45 |
| 80-81 | .03 | .26 | .11 | .74 | 1.27 | 3.22 | 3.51 | .73 | 2.93 | .67 | 0 | 0 | 13.47 |
| 81-82 | 0 | 0 | 0 | .57 | .24 | .35 | 2.65 | 4.02 | 2.42 | 1.64 | .09 | .26 | 12.24 |
| 82-83 | T | .12 | .03 | .70 | 1.01 | .33 | 3.46 | 2.68 | 1.89 | 1.23 | 1.87 | 0 | 13.32 |
| 83-84 | 0 | 0 | 0 | 2.96 | 0 | 3.32 | 3.56 | 15.36 | 10.90 | 3.13 | 1.02 | .52 | 40.77 |
| 84-85 | 0 | .02 | .20 | .53 | .54 | 7.07 | .92 | .13 | .29 | 2.60 | .29 | .11 | 12.70 |
| 85-86 | 0 | .02 | 0 | 0 | 5.92 | 1.13 | 9.76 | 1.13 | 4.70 | 3.43 | 0 | .14 | 26.23 |
| 86-87 | T | .11 | .12 | .04 | 1.95 | .30 | .28 | 5.65 | .05 | 2.02 | .24 | .06 | 10.82 |
| 87-88 | .05 | 0 | .83 | .20 | 2.03 | 3.56 | 3.89 | 2.55 | 5.88 | .28 | .81 | .02 | 20.10 |
| 88-89 | .03 | 0 | 0 | .80 | 3.48 | 6.13 | 1.49 | 2.35 | 7.97 | .63 | .47 | .11 | 23.46 |
| 89-90 | 0 | .07 | .05 | 2.11 | .58 | 15.53 | 5.14 | 2.22 | .80 | .09 | .30 | .02 | 26.91 |
| 90-91 | 0 | .26 | .49 | 0 | .58 | 3.22 | .40 | 11.93 | .56 | 1.35 | .89 | 0 | 19.68 |
| 91-92 | .02 | 0 | .13 | .02 | .01 | 2.64 | 1.10 | 4.59 | 2.71 | .62 | 1.46 | .19 | 13.49 |
| 92-93 | 0 | 0 | 0 | .32 | 2.85 | 2.14 | 3.40 | 3.72 | 8.06 | .49 | .29 | 0 | 21.27 |
| 93-94 | .13 | 0 | .06 | .86 | 1.46 | 3.58 | .87 | 1.10 | 1.36 | .08 | .31 | 0 | 9.81 |
| 94-95 | .04 | .18 | .38 | .06 | 0 | 6.09 | 12.52 | 1.59 | 2.14 | .61 | .24 | 0 | 23.85 |
| 95-96 | 0 | 0 | 0 | .06 | 1.46 | .47 | 3.45 | T | 3.44 | .26 | .13 | 0 | 9.27 |
| 96-97 | .05 | .05 | 0 | 2.68 | 1.22 | 2.13 | 4.20 | 6.61 | 4.37 | .06 | .21 | 0 | 21.58 |
| 97-98 | .01 | T | T | 2.82 | .17 | .38 | 2.65 | .71 | 1.48 | .46 | 2.23 | .07 | 10.98 |
| 98-99 | T | T | T | 0 | .02 | 1.04 | 3.51 | .66 | 2.23 | .16 | .18 | .90 | 8.70 |
| 99-00 | 0 | .03 | 0 | 1.25 | 2.90 | 2.22 | 3.26 | .29 | .76 | 1.00 | 1.76 | T | 13.47 |
| 1900-01 | 0 | 0 | .06 | .23 | 5.06 | 0 | 4.24 | 5.17 | .42 | .10 | 1.26 | .06 | 16.60 |
| 01-02 | 0 | .08 | T | .87 | .75 | T | 2.84 | 3.48 | 3.52 | .75 | .11 | .05 | 12.45 |
| 02-03 | .23 | 0 | 0 | .29 | 2.86 | 4.00 | 3.11 | 3.33 | 5.19 | 4.35 | .08 | .05 | 23.49 |
| 03-04 | 0 | 0 | .15 | .11 | .05 | .05 | .48 | 2.94 | - | - | - | - | * 11.3 |
| 04-05 | - | - | - | - | - | - | - | - | - | - | - | - | * 26.3 |
| 05-06 | - | - | - | - | - | - | - | - | - | - | - | - | * 23.7 |
| 06-07 | - | - | - | - | - | - | - | - | - | - | - | - | * 24.5 |
| 07-08 | - | - | - | - | - | - | - | - | - | - | - | - | * 17.1 |
| 08-09 | - | - | - | - | - | - | - | - | - | - | - | - | * 22.8 |
| 09-10 | 0 | 0 | 0 | 0 | 3.89 | 7.97 | 3.66 | .37 | 2.12 | .28 | 0 | 0 | 18.29 |
| 10-11 | 0 | 0 | 0 | .75 | 1.27 | .45 | 6.20 | 5.40 | 2.43 | 1.10 | .10 | 0 | 17.70 |
| 11-12 | 0 | 0 | 0 | .35 | .25 | 1.32 | .45 | 0 | 9.59 | 3.52 | 1.17 | 0 | 16.65 |
| 12-13 | 0 | 0 | 0 | 1.01 | 1.24 | 0 | 2.64 | 4.15 | .72 | .43 | .26 | .24 | 10.69 |
| 13-14 | .10 | 0 | 0 | 0 | 2.72 | 1.62 | 9.61 | 6.45 | 1.23 | 1.42 | .05 | .46 | 23.66 |
| 14-15 | .08 | 0 | 0 | .77 | .82 | 3.59 | 9.48 | 8.90 | .64 | 3.82 | 1.75 | .05 | 29.90 |
| 15-16 | 0 | .10 | .10 | 0 | .58 | 4.50 | 20.31 | 2.12 | 1.87 | .07 | .13 | 0 | 29.78 |
| 16-17 | 0 | .16 | .43 | 1.94 | .55 | 3.03 | 4.78 | 4.01 | .65 | 2.75 | .96 | 0 | 19.26 |
| 17-18 | 0 | 0 | 0 | .10 | .47 | 0 | 2.84 | 3.50 | 9.60 | .13 | .29 | 0 | 16.93 |
| 18-19 | .52 | .10 | .15 | .60 | 1.82 | 1.50 | .50 | 3.29 | 2.48 | .54 | .24 | 0 | 11.74 |
| 19-20 | .10 | 0 | .25 | 1.30 | 1.52 | 1.72 | .69 | 4.73 | 7.16 | 1.28 | .35 | 0 | 19.10 |
| 20-21 | 0 | 0 | 0 | 1.42 | 1.29 | 1.50 | 4.17 | 1.17 | 3.01 | .20 | 3.95 | .07 | 16.78 |
| 21-22 | .27 | .57 | 2.29 | .43 | .10 | 14.95 | 5.98 | 5.24 | 3.24 | .58 | 1.01 | 0 | 34.66 |
| 22-23 | 0 | 0 | 0 | .31 | 2.16 | 4.66 | 3.16 | 1.97 | .88 | 1.91 | .02 | 0 | 15.07 |
| 23-24 | 0 | 0 | .10 | .77 | .05 | 2.61 | .81 | 0 | 4.86 | 2.32 | 0 | 0 | 11.52 |
| 24-25 | 0 | 0 | 0 | .65 | 1.05 | 3.50 | .29 | 1.05 | 2.31 | 1.90 | .06 | .78 | 11.59 |
| 25-26 | 0 | 0 | 0 | 3.29 | 1.23 | 1.66 | 1.39 | 4.89 | .20 | 9.20 | .05 | .05 | 21.96 |
| 26-27 | 0 | 0 | 0 | .18 | 2.23 | 3.51 | .82 | 17.26 | 3.34 | .54 | .39 | .04 | 28.33 |
| 27-28 | 0 | 0 | 0 | 4.22 | .25 | 4.04 | .57 | 1.00 | 2.02 | .13 | .30 | .10 | 12.63 |
| 28-29 | 0 | 0 | 0 | .66 | .93 | 3.81 | 2.35 | 1.94 | 1.71 | 1.40 | 0 | 0 | 12.80 |
| 29-30 | 0 | 0 | 1.25 | 0 | 0 | 0 | 7.83 | 1.09 | 5.30 | 2.18 | 1.88 | .06 | 19.59 |
| 30-31 | 0 | 0 | 0 | .77 | 3.00 | 0 | 3.01 | 6.05 | .08 | 2.85 | .78 | .10 | 16.64 |
| 31-32 | 0 | .40 | .05 | .74 | 3.18 | 6.64 | 2.33 | 9.66 | .30 | .81 | 0 | .18 | 24.29 |
| 32-33 | 0 | 0 | 0 | 2.03 | 0 | 3.18 | 6.09 | .13 | .14 | 1.07 | .53 | 0 | 13.17 |
| 33-34 | 0 | 0 | 0 | .36 | .36 | 5.72 | 1.58 | 2.87 | 1.07 | .05 | 0 | .62 | 12.63 |
| 34-35 | 0 | 0 | .20 | 1.72 | 2.10 | 5.49 | 3.68 | 4.31 | 3.66 | 2.01 | .38 | 0 | 23.55 |
| 35-36 | 0 | .36 | .02 | .20 | 1.13 | .73 | .79 | 9.56 | 1.95 | 1.57 | .08 | 0 | 16.39 |
| 36-37 | .03 | .11 | .13 | 6.67 | .39 | 6.84 | 2.79 | 9.23 | 7.05 | .62 | .65 | 0 | 34.51 |
| 37-38 | .10 | 0 | .03 | .10 | .08 | 2.32 | 1.96 | 9.92 | 9.69 | 1.36 | .18 | .16 | 25.90 |
| 38-39 | .03 | .06 | 0 | .61 | .03 | 9.33 | 4.01 | 2.43 | 2.71 | 1.18 | .12 | 0 | 20.51 |
| 39-40 | 0 | .02 | 3.70 | .43 | .74 | .44 | 5.98 | 5.72 | .70 | 3.13 | .05 | .09 | 21.00 |
| 40-41 | 0 | .02 | .11 | 1.35 | .78 | 7.49 | 2.52 | 5.81 | 10.21 | 4.64 | .11 | .27 | 33.31 |
| 41-42 | .03 | .15 | .22 | 3.35 | 1.81 | 6.21 | .81 | 1.86 | 2.08 | 2.92 | .12 | 0 | 19.56 |
| 42-43 | 0 | .23 | 0 | .38 | .30 | 1.35 | 10.79 | 3.70 | 3.36 | 1.26 | .25 | .24 | 21.86 |
| 43-44 | 0 | 0 | .04 | .25 | 0 | 7.33 | .93 | 5.16 | .88 | .85 | .04 | .18 | 15.66 |
| 44-45 | 0 | 0 | 0 | 0 | 4.57 | 1.06 | .62 | 2.70 | 4.29 | .14 | 0 | .04 | 13.42 |
| 45-46 | .02 | 1.54 | 0 | .04 | .62 | 4.72 | .50 | 1.22 | 2.51 | .69 | .09 | 0 | 11.95 |
| 46-47 | 0 | 0 | 0 | .87 | 4.49 | 2.18 | .51 | .44 | 1.34 | .21 | .04 | 0 | 10.08 |
| 47-48 | 0 | 0 | .04 | .22 | .13 | 2.29 | .06 | 2.51 | 1.58 | .88 | 0 | .15 | 7.86 |
| 48-49 | 0 | 0 | 0 | .91 | 0 | 2.85 | 4.20 | 1.77 | 1.20 | 0 | .75 | 0 | 11.68 |
| 49-50 | 0 | .04 | 0 | .12 | 1.38 | 1.18 | 2.67 | 1.74 | .97 | .49 | .21 | .02 | 8.82 |
| 50-51 | 0 | 0 | .08 | 0 | 1.48 | .04 | 2.56 | 1.30 | 1.12 | 2.28 | 0 | 0 | 8.86 |
| 51-52 | .33 | 1.12 | .06 | 1.68 | .76 | 5.90 | 5.64 | .55 | 5.42 | 1.97 | 0 | 0 | 23.43 |
| 52-53 | 0 | 0 | .19 | 0 | 3.62 | 3.82 | 1.93 | .80 | .90 | 1.06 | .05 | 0 | 12.37 |
| 53-54 | 0 | 0 | 0 | .26 | .63 | .22 | 5.49 | 2.48 | 4.16 | .12 | 0 | .04 | 13.40 |
| 54-55 | .58 | 0 | 0 | 0 | 1.44 | .85 | 4.24 | 1.67 | .23 | 1.34 | .72 | 0 | 11.07 |
| 55-56 | 0 | 0 | 0 | 0 | 1.40 | .87 | 5.46 | .57 | .02 | 2.72 | .14 | 0 | 11.18 |
| 56-57 | 0 | 0 | 0 | .15 | 0 | .44 | * 6.73 | 1.68 | 1.25 | 1.16 | .82 | .57 | * 12.70 |
| Minimum | 0 | 0 | 0 | 0 | 0 | 0 | .06 | 0 | .02 | 0 | 0 | 0 | 7.70 |
| Maximum | .58 | 1.54 | 3.70 | 6.67 | 5.92 | 15.53 | 20.31 | 17.26 | 10.90 | 9.20 | 3.95 | .90 | 40.77 |
| Average | .039 | .082 | .16 | .81 | 1.31 | 3.10 | 3.57 | 3.54 | 2.87 | 1.45 | .48 | .10 | 17.86 |

* Wholly or partly estimated by U. S. Geological Survey.

| Year | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | Seasonal |
|---------|------|------|-------|------|------|------|------|------|------|------|------|------|----------|
| 1850 | | | | | | | 0 | 1.13 | 1.00 | .09 | 0 | .68 | ----- |
| 1850-51 | 0 | 0 | 0 | .19 | 2.82 | 1.93 | .03 | 1.51 | .34 | .87 | .71 | .01 | 8.41 |
| 51-52 | 0 | 0 | .02 | .01 | .25 | 3.74 | .58 | 1.84 | 1.87 | .85 | .32 | 0 | 9.48 |
| 52-53 | 0 | .40 | 0 | .06 | 1.45 | 4.50 | .50 | .20 | 1.52 | .25 | 2.10 | .05 | 11.03 |
| 53-54 | 0 | .21 | 0 | 0 | 1.28 | 1.77 | .99 | 2.56 | 1.88 | .89 | .18 | .01 | 9.77 |
| 54-55 | .07 | 1.36 | .09 | .27 | .04 | 3.29 | 1.97 | 3.59 | 1.30 | 1.52 | .06 | 0 | 13.56 |
| 55-56 | 0 | .04 | 0 | .11 | 2.15 | .41 | 1.27 | 1.86 | 1.59 | 2.17 | .29 | 0 | 9.89 |
| 56-57 | 0 | 0 | .07 | 0 | 1.22 | 1.30 | .26 | 1.76 | 0 | .04 | .08 | .03 | 4.76 |
| 57-58 | 0 | .02 | .01 | .49 | 2.16 | 1.30 | 1.52 | .44 | 1.24 | .17 | 0 | .19 | 7.54 |
| 58-59 | 0 | .04 | .10 | .47 | .28 | 3.10 | 0 | 1.89 | .20 | .36 | .17 | 0 | 6.61 |
| 59-60 | .02 | 0 | 0 | .18 | 1.49 | 1.79 | .72 | 1.49 | .15 | .65 | .04 | .05 | 6.58 |
| 60-61 | .14 | 0 | 0 | 0 | 2.88 | 2.99 | .82 | .79 | .25 | .04 | 0 | .19 | 7.90 |
| 61-62 | 0 | 0 | 1.59 | .05 | 1.19 | 3.20 | 5.56 | 1.39 | .97 | 1.05 | .16 | .48 | 15.64 |
| 62-63 | .11 | 0 | 0 | .89 | .05 | .93 | .32 | 1.09 | .33 | .13 | .02 | 0 | 3.87 |
| 63-64 | 0 | 0 | .36 | 0 | .73 | .04 | .04 | 2.50 | .20 | .01 | 1.25 | .01 | 5.14 |
| 64-65 | .11 | 0 | 0 | .04 | 2.41 | 1.04 | 1.28 | 3.00 | 0 | .56 | 0 | .01 | 8.45 |
| 65-66 | 1.29 | 0 | 0 | .02 | .52 | .84 | 5.05 | 3.43 | 1.47 | .11 | .09 | 0 | 12.82 |
| 66-67 | 0 | .10 | 0 | 0 | .24 | 1.82 | 2.32 | .85 | 7.88 | .48 | .04 | 0 | 13.73 |
| 67-68 | 0 | .30 | 0 | .34 | .45 | 3.06 | 3.37 | 1.63 | .73 | 1.20 | .15 | 0 | 11.23 |
| 68-69 | .51 | 0 | .05 | 0 | 2.00 | 1.52 | 2.88 | 1.88 | 1.98 | .53 | .33 | 0 | 11.68 |
| 69-70 | .05 | 0 | 0 | .05 | 2.32 | .94 | .54 | .77 | .33 | .20 | .28 | 0 | 5.48 |
| 70-71 | .04 | .07 | 0 | 1.54 | .18 | .42 | .52 | 1.35 | .01 | .70 | .34 | 0 | 5.17 |
| 71-72 | 0 | 0 | 0 | 0 | 1.33 | 1.39 | .99 | 1.63 | .46 | .26 | .12 | 0 | 6.18 |
| 72-73 | 0 | .18 | 0 | 0 | 0 | 1.43 | .44 | 4.21 | .11 | .10 | .03 | 0 | 6.50 |
| 73-74 | 0 | 1.95 | 0 | 0 | .77 | 5.46 | 3.11 | 3.73 | 1.20 | .34 | .32 | 0 | 16.88 |
| 74-75 | .12 | 0 | .13 | .53 | .88 | .55 | 2.38 | .37 | .45 | .12 | .20 | .02 | 5.75 |
| 75-76 | 0 | .21 | .39 | 0 | 2.25 | .41 | 2.47 | 2.44 | 1.78 | .06 | .05 | .05 | 10.11 |
| 76-77 | .03 | .06 | .03 | .08 | .04 | .15 | 1.05 | .18 | 1.44 | .26 | .43 | T | 3.75 |
| 77-78 | 0 | 0 | 0 | .81 | .06 | 3.89 | 1.45 | 4.83 | 1.41 | 2.91 | .58 | .16 | 16.10 |
| 78-79 | 0 | 0 | 0 | .96 | 0 | 1.57 | 3.54 | 1.04 | .10 | .60 | T | .07 | 7.88 |
| 79-80 | 0 | 0 | 0 | .29 | 2.77 | 6.30 | .61 | 1.50 | 1.43 | 1.34 | .06 | .06 | 14.36 |
| 80-81 | .09 | .32 | 0 | .53 | .28 | 4.15 | .52 | .45 | 1.88 | 1.35 | .04 | .05 | 9.66 |
| 81-82 | 0 | .01 | .04 | .24 | .12 | .30 | 4.53 | 2.55 | 1.02 | .45 | .18 | .07 | 9.51 |
| 82-83 | 0 | T | .01 | .41 | .39 | .13 | 1.09 | .95 | .41 | .31 | 1.14 | .08 | 4.92 |
| 83-84 | 0 | 0 | 0 | 2.01 | .20 | 1.82 | 1.34 | 9.05 | 6.23 | 2.84 | 2.17 | .31 | 25.97 |
| 84-85 | 0 | T | .07 | .35 | .11 | 5.12 | .35 | .02 | .78 | 1.20 | .61 | .06 | 8.77 |
| 85-86 | T | .13 | T | .31 | 1.56 | .71 | 6.95 | 1.51 | 3.73 | 1.95 | .04 | .07 | 16.96 |
| 86-87 | T | T | 0 | .05 | .95 | .10 | .04 | 4.51 | .02 | 2.14 | .47 | .04 | 8.32 |
| 87-88 | .01 | T | T | T | 2.08 | 1.14 | 1.96 | 1.48 | 2.79 | .10 | .22 | .04 | 9.82 |
| 88-89 | .01 | T | .04 | .26 | 1.83 | 2.84 | 1.72 | 1.80 | 2.20 | .19 | .03 | .10 | 11.02 |
| 89-90 | T | .04 | T | 2.12 | .12 | 7.71 | 2.79 | 1.70 | .41 | .05 | .08 | 0 | 15.02 |
| 90-91 | 0 | T | .65 | .01 | .72 | 1.61 | 1.21 | 4.84 | .27 | .76 | .35 | .05 | 10.47 |
| 91-92 | T | 0 | .08 | .04 | .10 | 1.29 | 1.58 | 2.96 | .96 | .41 | 1.15 | .13 | 8.70 |
| 92-93 | 0 | .05 | T | .22 | .94 | .69 | .78 | .47 | 5.50 | .22 | .39 | T | 9.26 |
| 93-94 | T | 0 | 0 | .11 | .91 | 1.91 | .29 | .49 | 1.05 | .11 | .09 | .01 | 4.97 |
| 94-95 | 0 | .04 | .01 | T | 0 | 2.26 | 7.33 | .53 | 1.43 | .11 | .19 | 0 | 11.90 |
| 95-96 | 0 | 0 | .01 | .27 | 1.19 | .27 | 1.27 | .02 | 2.89 | .25 | .03 | .01 | 6.21 |
| 96-97 | T | .13 | T | .97 | .98 | 2.18 | 3.13 | 2.72 | 1.53 | .02 | .12 | T | 11.78 |
| 97-98 | .01 | T | T | 1.06 | .02 | .32 | 1.71 | .06 | .91 | .22 | .66 | .02 | 4.99 |
| 98-99 | 0 | 0 | .07 | 0 | .15 | .87 | 2.34 | .30 | .85 | .29 | .10 | .27 | 5.24 |
| 99-00 | 0 | .07 | 0 | .35 | .86 | .65 | .69 | .03 | .53 | 1.26 | 1.45 | .08 | 5.97 |
| 1900-01 | 0 | T | T | .30 | 1.43 | 0 | 2.08 | 4.77 | 1.07 | .01 | .77 | .02 | 10.45 |
| 01-02 | T | T | .06 | .28 | .41 | .02 | 1.70 | 1.57 | 1.86 | .21 | .76 | T | 6.17 |
| 02-03 | .92 | T | T | .06 | 1.53 | 3.58 | .69 | 2.27 | 1.17 | 1.40 | .14 | T | 11.76 |
| 03-04 | 0 | T | T | .07 | T | .35 | .04 | 1.50 | 2.17 | .15 | .12 | 0 | 4.40 |
| 04-05 | 0 | T | T | .17 | 0 | 2.46 | 2.16 | 5.90 | 2.98 | .30 | .35 | T | 14.32 |
| 05-06 | .16 | 0 | .50 | .25 | 3.38 | .38 | .98 | 2.62 | 4.68 | .98 | .72 | .03 | 14.68 |
| 06-07 | T | .10 | .12 | .03 | .62 | 4.02 | 3.27 | .45 | 1.62 | .13 | .07 | .19 | 10.62 |
| 07-08 | .03 | 0 | 0 | 1.71 | .05 | .43 | 2.80 | 2.41 | .61 | .35 | .16 | 0 | 8.55 |
| 08-09 | 0 | .64 | .20 | .15 | 1.00 | .27 | 3.57 | 1.76 | 2.62 | .02 | T | T | 10.23 |
| 09-10 | T | T | .02 | 0 | 2.39 | 3.76 | 2.00 | .19 | 1.30 | .08 | .05 | 0 | 9.79 |
| 10-11 | .01 | .05 | .17 | 1.35 | .40 | .15 | 3.35 | 4.92 | .92 | .65 | .01 | .01 | 11.99 |
| 11-12 | .12 | 0 | .10 | .28 | .02 | 1.39 | .66 | 0 | 5.72 | 2.13 | .17 | .16 | 10.75 |
| 12-13 | .14 | .26 | 0 | .89 | .40 | .03 | 1.19 | 2.40 | .42 | .08 | .07 | .09 | 5.97 |
| 13-14 | .06 | .02 | .02 | T | 2.23 | .72 | 3.59 | 1.91 | .36 | .85 | .08 | T | 9.83 |
| 14-15 | 0 | 0 | T | 1.05 | .86 | 2.21 | 4.91 | 3.62 | .33 | 1.15 | .28 | T | 14.41 |
| 15-16 | T | 0 | T | 0 | .73 | 2.60 | 7.56 | .66 | .98 | .01 | .01 | T | 12.55 |
| 16-17 | .02 | .01 | .25 | .87 | .05 | 1.14 | 4.32 | 1.84 | .26 | 1.06 | .30 | T | 10.13 |
| 17-18 | T | T | T | .17 | .08 | T | 1.64 | 1.52 | 4.57 | T | T | .06 | 8.04 |
| 18-19 | T | .11 | .08 | .42 | 1.91 | 1.68 | .61 | 1.46 | 1.83 | .30 | .34 | 0 | 8.74 |
| 19-20 | T | .01 | .26 | 1.04 | .43 | .48 | .43 | 2.87 | 2.46 | .47 | .44 | .02 | 8.91 |
| 20-21 | T | .01 | .08 | .18 | .19 | .54 | 2.02 | .35 | 1.13 | .04 | 2.54 | T | 7.08 |
| 21-22 | T | T | 1.24 | .67 | .30 | 9.26 | 3.45 | 1.86 | 1.34 | .17 | .36 | T | 18.65 |
| 22-23 | .01 | T | 0 | .09 | .75 | 1.21 | 1.34 | 1.53 | .34 | 1.05 | 0 | .04 | 6.36 |
| 23-24 | .01 | T | .03 | .37 | .16 | 1.65 | .26 | T | 2.41 | .77 | 0 | T | 5.66 |
| 24-25 | 0 | T | 0 | .35 | .55 | 1.34 | .08 | .30 | 1.78 | 1.11 | .15 | .15 | 5.81 |
| 25-26 | T | .01 | 0 | 3.67 | 1.16 | 1.50 | .78 | 2.33 | .82 | 5.37 | .01 | .01 | 15.66 |
| 26-27 | T | .05 | 0 | .21 | .59 | 3.89 | .32 | 6.68 | 2.05 | .71 | .12 | .12 | 14.74 |
| 27-28 | 0 | .01 | .04 | 1.76 | .05 | 4.57 | .21 | .79 | .69 | .14 | .36 | .09 | 8.71 |
| 28-29 | T | .03 | T | .14 | .63 | 2.42 | .90 | 1.14 | 1.22 | .57 | .05 | T | 7.10 |
| 29-30 | 0 | 0 | .26 | 0 | T | 0 | 3.90 | .66 | 3.02 | 1.06 | 1.81 | .02 | 10.73 |
| 30-31 | T | T | T | .22 | 1.04 | 0 | 3.72 | 4.11 | .06 | 1.38 | .24 | .01 | 10.78 |
| 31-32 | T | .08 | T | .05 | 1.95 | 3.56 | 1.45 | 5.15 | .42 | .50 | .01 | .01 | 13.18 |
| 32-33 | T | 0 | 0 | 1.10 | .30 | 2.40 | 4.32 | .02 | .13 | 1.75 | .53 | .08 | 10.63 |
| 33-34 | .02 | .01 | .02 | .16 | .03 | 1.10 | .30 | 1.88 | .24 | .01 | .02 | .47 | 4.26 |
| 34-35 | T | .02 | .18 | .42 | 1.95 | 3.38 | 2.15 | 4.54 | 1.42 | 1.02 | .02 | 0 | 15.10 |
| 35-36 | T | .18 | .01 | .05 | .07 | .74 | .75 | 5.18 | .92 | .48 | T | .01 | 8.39 |
| 36-37 | .01 | .28 | .04 | 1.86 | .44 | 4.45 | 1.52 | 4.22 | 2.65 | .13 | .32 | .01 | 15.93 |
| 37-38 | .16 | 0 | T | T | .02 | 1.06 | .89 | 3.26 | 3.73 | .44 | .15 | .01 | 9.72 |
| 38-39 | T | .03 | 0 | .23 | .02 | 4.25 | 2.38 | 1.23 | 1.17 | .47 | .01 | 0 | 9.79 |
| 39-40 | T | T | 2.58 | .61 | 1.04 | .48 | 1.75 | 3.56 | .82 | .46 | T | T | 11.30 |
| 40-41 | T | T | .08 | 1.50 | .49 | 6.09 | 2.03 | 5.31 | 5.89 | 3.35 | T | T | 24.74 |
| 41-42 | .06 | .03 | .28 | 2.90 | 2.23 | 2.85 | .21 | 1.06 | 1.91 | 1.40 | .11 | .01 | 13.05 |
| 42-43 | 0 | T | 0 | .27 | .27 | .69 | 6.26 | 1.40 | 1.66 | .52 | .02 | .01 | 11.10 |
| 43-44 | 0 | T | .04 | .20 | .03 | 7.60 | 1.22 | 3.65 | .80 | .61 | .22 | .10 | 14.47 |
| 44-45 | T | T | T | T | 4.93 | 1.53 | .42 | 1.91 | 2.03 | .03 | .04 | .15 | 11.04 |
| 45-46 | T | .87 | .03 | T | .13 | 3.62 | .89 | .60 | 2.67 | .52 | .01 | 0 | 9.34 |
| 46-47 | 0 | T | T | .34 | 2.53 | 1.13 | .35 | .43 | .97 | .36 | .17 | T | 6.33 |
| 47-48 | 0 | 0 | .18 | .08 | .72 | 3.02 | T | 1.07 | 1.60 | .13 | .01 | .02 | 6.83 |
| 48-49 | T | 0 | T | 1.32 | .10 | 2.38 | 3.56 | 1.81 | .75 | .09 | .41 | T | 10.42 |
| 49-50 | T | T | T | .23 | 1.16 | .86 | 3.31 | 1.62 | 1.00 | .28 | .09 | T | 8.55 |
| 50-51 | .08 | 0 | T | .01 | 1.23 | .05 | 1.60 | .50 | .50 | 1.95 | 0 | T | 5.92 |
| 51-52 | 0 | .35 | .04 | .68 | 1.23 | 3.87 | 4.24 | .60 | 4.97 | 1.54 | 0 | .14 | 18.16 |
| 52-53 | T | T | T | T | 1.83 | 2.20 | .58 | .58 | .79 | .33 | .09 | .14 | 6.54 |
| 53-54 | T | T | T | .07 | .80 | .03 | 2.76 | 1.03 | 4.31 | .09 | .01 | .03 | 9.13 |
| 54-55 | T | T | 0 | 0 | .74 | .55 | 3.59 | .56 | .38 | .90 | .49 | T | 7.21 |
| 55-56 | T | .11 | T | T | .55 | .33 | 1.65 | .22 | T | 1.56 | .10 | T | 4.52 |
| 56-57 | T | T | T | .68 | 0 | .18 | 4.80 | .50 | .75 | .84 | .88 | .26 | 8.89 |
| Minimum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | T | 0 | 0 | 3.75 |
| Maximum | 1.29 | 1.95 | 2.58 | 3.67 | 4.93 | 9.26 | 7.56 | 9.05 | 7.88 | 5.37 | 2.54 | .68 | 25.97 |
| Average | .041 | .089 | .10 | .43 | .90 | 1.94 | 1.90 | 1.94 | 1.52 | .70 | .29 | .055 | 9.94 |

runoff
Monthly and annual ~~discharge~~ in acre-feet of Temecula Creek ~~discharge~~ near Temecula, Calif." prior to 1948)
[Drainage area, 319 square miles]

WATER RESOURCES DIVISION

"at Nigger Canyon,

16-20489-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|------|------|------|-------|-------|--------|--------|-------|-------|------|------|------|-------|--------|
| 1923 | - | - | - | - | 1,700 | 1,030 | 684 | 330 | 305 | 218 | 197 | 187 | 5,520 |
| 1924 | 254 | 384 | 447 | 511 | 420 | 1,360 | 845 | 340 | 202 | 172 | 173 | 201 | 5,310 |
| 1925 | 152 | 201 | 354 | 380 | 333 | 402 | 768 | 319 | 192 | 141 | 159 | 124 | 3,520 |
| 1926 | 277 | 248 | 275 | 257 | 1,020 | 350 | 5,390 | 517 | 206 | 160 | 119 | 109 | 8,930 |
| 1927 | 124 | 158 | 320 | 364 | 35,700 | 1,710 | 970 | 445 | 229 | 159 | 138 | 140 | 40,500 |
| 1928 | 168 | 245 | 434 | 427 | 684 | 494 | 235 | 199 | 139 | 118 | 105 | 103 | 3,350 |
| 1929 | 143 | 141 | 240 | 349 | 689 | 873 | 1,230 | 251 | 158 | 125 | 255 | 202 | 4,660 |
| 1930 | 138 | 140 | 144 | 707 | 213 | 1,310 | 388 | 2,450 | 203 | 117 | 107 | 107 | 6,020 |
| 1931 | 114 | 133 | 155 | 189 | 428 | 223 | 271 | 184 | 138 | 100 | 91.6 | 99.4 | 2,130 |
| 1932 | 106 | 133 | 1,010 | 793 | 10,800 | 2,500 | 827 | 502 | 246 | 140 | 123 | 114 | 17,300 |
| 1933 | 195 | 229 | 352 | 916 | 705 | 490 | 425 | 394 | 165 | 117 | 91.0 | 81.5 | 4,160 |
| 1934 | 103 | 127 | 174 | 311 | 305 | 211 | 160 | 125 | 99.8 | 73.4 | 57.1 | 65.5 | 1,810 |
| 1935 | 101 | 115 | 204 | 703 | 862 | 810 | 570 | 274 | 150 | 106 | 236 | 137 | 4,270 |
| 1936 | 159 | 196 | 186 | 206 | 1,560 | 400 | 735 | 149 | 94 | 86 | 79 | 80 | 3,930 |
| 1937 | 113 | 112 | 3,720 | 3,200 | 12,650 | 10,760 | 3,840 | 1,210 | 520 | 225 | 148 | 158 | 36,660 |
| 1938 | 178 | 263 | 472 | 552 | 2,120 | 23,830 | 1,800 | 1,180 | 519 | 388 | 342 | 264 | 31,910 |
| 1939 | 374 | 413 | 1,340 | 1,050 | 1,550 | 1,050 | 938 | 561 | 343 | 184 | 162 | 438 | 8,400 |
| 1940 | 308 | 407 | 540 | 954 | 1,320 | 764 | 1,280 | 343 | 209 | 121 | 89 | 133 | 6,470 |
| 1941 | 222 | 331 | 2,490 | 777 | 2,940 | 7,270 | 6,860 | 1,830 | 871 | 514 | 460 | 470 | 25,040 |
| 1942 | 702 | 873 | 1,420 | 1,520 | 1,230 | 1,620 | 1,120 | 741 | 428 | 242 | 205 | 241 | 10,340 |
| 1943 | 313 | 440 | 555 | 4,840 | 1,540 | 3,490 | 1,230 | 496 | 301 | 151 | 132 | 138 | 13,630 |
| 1944 | 261 | 403 | 725 | 674 | 2,140 | 1,670 | 721 | 440 | 288 | 194 | 148 | 153 | 7,820 |
| 1945 | 172 | 591 | 474 | 508 | 887 | 2,390 | 859 | 403 | 226 | 159 | 284 | 274 | 7,230 |

Monthly and annual ~~discharge~~ in acre-feet of Temecula Creek ~~discharge~~ near Temecula, Calif. " prior to 1948)
[Drainage area, 319 square miles]

16-7089-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|----------|------|------|-------|-------|--------|--------|-------|-------|------|------|------|-------|--------|
| 1946 | 177 | 230 | 979 | 405 | 395 | 888 | 930 | 213 | 126 | 355 | 116 | 78 | 4,890 |
| 1947 | 167 | 514 | 417 | 426 | 350 | 350 | 209 | 178 | 137 | 109 | 130 | 79 | 3,070 |
| 1948 | 101 | 136 | 281 | 248 | 412 | 313 | 229 | 182 | 158 | 120 | 97 | 90 | 2,370 |
| 1949 | 121 | 119 | 152 | 387 | 604 | 796 | 294 | 179 | 150 | 102 | 108 | 123 | 3,135 |
| 1950 | 119 | 153 | 158 | 221 | 299 | 196 | 196 | 146 | 104 | 121 | 82 | 107 | 1,902 |
| 1951 | 126 | 116 | 113 | 187 | 184 | 169 | 158 | 100 | 73 | 72 | 79 | 93 | 1,470 |
| 1952 | 99 | 121 | 897 | 2,701 | 424 | 5,730 | 1,478 | 454 | 182 | 139 | 120 | 215 | 12,560 |
| 1953 | 104 | 265 | 394 | 308 | 116 | 316 | 202 | 223 | 131 | 119 | 82 | 27 | 2,287 |
| 1954 | 128 | 114 | 142 | 584 | 557 | 2,750 | 592 | 261 | 123 | 103 | 89 | 158 | 5,601 |
| 1955 | 202 | 176 | 117 | 231 | 234 | 189 | 127 | 147 | 117 | 129 | 103 | 48 | 1,820 |
| 1956 | 88 | 106 | 119 | 449 | 137 | 112 | 144 | 88 | 17 | 17 | 48 | 45 | 1,370 |
| 1957 | 40 | 78 | 84 | 186 | 116 | 112 | 170 | -7 | 45 | 32 | 32 | 37 | 925 |
| Minimum | 40 | 78 | 84 | 186 | 116 | 112 | 127 | -7 | 17 | 17 | 32 | 27 | 925 |
| Quartile | 110 | 120 | 150 | 270 | 330 | 330 | 230 | 170 | 130 | 110 | 88 | 84 | 2,400 |
| Median | 140 | 170 | 320 | 430 | 660 | 770 | 700 | 300 | 170 | 120 | 120 | 120 | 4,400 |
| Quartile | 190 | 290 | 560 | 710 | 1,400 | 1,800 | 1,000 | 470 | 250 | 170 | 160 | 170 | 8,400 |
| Maximum | 702 | 873 | 3,720 | 4,840 | 35,700 | 23,830 | 6,860 | 2,450 | 871 | 514 | 460 | 470 | 40,500 |
| Average | 181 | 247 | 585 | 780 | 2,450 | 2,200 | 1,050 | 453 | 217 | 155 | 142 | 146 | 8,670 |

annual runoff
Monthly and ~~annual discharge~~ in acre-feet of Murrieta Creek ~~at Temecula, Calif.~~ at Temecula, Calif.
[Drainage area, 220 square miles]

16-70489-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|------|------|-------|-------|--------|--------|--------|-------|------|------|------|------|-------|--------|
| 1931 | 24.6 | 38.1 | 44.9 | 67.6 | 605 | 52.9 | 36.9 | 28.9 | 15.5 | 12.3 | 12.9 | 11.9 | 952 |
| 1932 | 17.0 | 36.5 | 682 | 199 | 14,400 | 176 | 53.1 | 39.3 | 29.6 | 25.6 | 22.2 | 17.9 | 15,700 |
| 1933 | 19.6 | 20.6 | 62.1 | 600 | 95.5 | 56.3 | 41.2 | 31.4 | 17.9 | 18.4 | 14.3 | 11.9 | 989 |
| 1934 | 17.3 | 18.4 | 49.0 | 91.6 | 102 | 51.0 | 23.6 | 18.4 | 16.3 | 12.3 | 12.5 | 13.1 | 426 |
| 1935 | 21 | 25 | 390 | 279 | 687 | 430 | 93 | 33 | 17 | 15 | 13 | 12 | 2,020 |
| 1936 | 16 | 21 | 30 | 36 | 1,910 | 189 | 88 | 28 | 20 | 18 | 18 | 18 | 2,390 |
| 1937 | 40 | 27 | 3,440 | 1,270 | 8,690 | 8,200 | 442 | 95 | 68 | 51 | 39 | 38 | 22,400 |
| 1938 | 48 | 59 | 77 | 87 | 1,060 | 29,450 | 335 | 146 | 77 | 59 | 51 | 47 | 31,500 |
| 1939 | 59 | 65 | 1,300 | 638 | 1,790 | 285 | 115 | 60 | 43 | 38 | 35 | 559 | 4,990 |
| 1940 | 82 | 77 | 90 | 3,250 | 2,370 | 176 | 193 | 50 | 37 | 29 | 28 | 33 | 6,420 |
| 1941 | 43 | 51 | 3,890 | 271 | 5,210 | 15,540 | 5,340 | 594 | 103 | 74 | 76 | 75 | 31,270 |
| 1942 | 103 | 113 | 221 | 227 | 249 | 204 | 151 | 79 | 63 | 46 | 29 | 36 | 1,520 |
| 1943 | 50 | 59 | 91 | 17,750 | 5,070 | 7,600 | 451 | 100 | 60 | 37 | 33 | 37 | 31,340 |
| 1944 | 47 | 62 | 471 | 271 | 5,350 | 860 | 190 | 79 | 57 | 36 | 31 | 29 | 7,480 |
| 1945 | 36 | 1,550 | 192 | 215 | 530 | 1,650 | 281 | 77 | 50 | 30 | 42 | 51 | 4,700 |
| 1946 | 52 | 68 | 886 | 186 | 209 | 865 | 386 | 61 | 35 | 30 | 26 | 26 | 2,830 |
| 1947 | 41 | 223 | 392 | 186 | 124 | 101 | 53 | 52 | 43 | 27 | 28 | 28 | 1,300 |
| 1948 | 40 | 46 | 108 | 77 | 141 | 81 | 56 | 40 | 31 | 23 | 24 | 20 | 687 |
| 1949 | 29 | 39 | 84 | 160 | 118 | 95 | 48 | 43 | 27 | 21 | 19 | 18 | 701 |
| 1950 | 28 | 39 | 84 | 98 | 71 | 61 | 46 | 37 | 26 | 23* | 19 | 23 | 555 |

ANNUAL RUNOFF

WATER RESOURCES DIVISION

Monthly and ~~annual~~ runoff in acre-feet of Murrieta Creek ~~at~~ at Temecula, Calif.[Drainage area, 220 square miles]

16-70480-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|----------|------|-------|-------|--------|--------|--------|-------|------|------|------|------|-------|--------|
| 1951 | 28 | 35 | 50 | 59 | 51 | 58 | 46 | 35 | 19 | 16 | 30 | 17 | 444 |
| 1952 | 22 | 33 | 1,030 | 12,050 | 146 | 10,420 | 710 | 50 | 49 | 24 | 17 | 25 | 24,580 |
| 1953 | 34 | 130 | 588 | 152 | 69 | 98 | 53 | 37 | 22 | 16 | 13 | 19 | 1,230 |
| 1954 | 32 | 40 | 46 | 889 | 1,400 | 654 | 69 | 51 | 33 | 22 | 28 | 20 | 3,280 |
| 1955 | 37 | 61 | 48 | 440 | 127 | 75 | 48 | 57 | 29 | 18 | 17 | 13 | 970 |
| 1956 | 20 | 30 | 46 | 212 | 53 | 48 | 89 | 34 | 28 | 14 | 20 | 16 | 610 |
| 1957 | 26 | 52 | 55 | 261 | 81 | 273 | 57 | 69 | 56 | 25 | 20 | 22 | 997 |
| Minimum | 16.0 | 18.4 | 30 | 36 | 51 | 48 | 23.6 | 18.4 | 15.5 | 12.3 | 12.5 | 11.9 | 426 |
| Quartile | 23 | 33 | 53 | 120 | 100 | 74 | 50 | 36 | 23 | 18 | 17 | 16 | 850 |
| Median | 34 | 44 | 120 | 220 | 250 | 190 | 77 | 48 | 34 | 24 | 24 | 22 | 1,900 |
| Quartile | 45 | 65 | 500 | 500 | 2,100 | 1,000 | 250 | 70 | 54 | 34 | 31 | 35 | 10,000 |
| Maximum | 103 | 1,550 | 3,890 | 17,750 | 14,400 | 29,450 | 5,340 | 594 | 103 | 74 | 76 | 559 | 31,500 |
| Average | 37.5 | 112 | 535 | 1,480 | 1,880 | 2,880 | 352 | 75.0 | 39.7 | 78.2 | 26.6 | 45.8 | 7,490 |

Monthly and annual ~~discharge~~ ^{runoff} in acre-feet of Santa Margarita River ~~xxx~~ near Temecula, Calif.
 [Drainage area, 592 square miles]

16-70480-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|------|------|-------|-------|--------|--------|--------|--------|-------|------|------|------|-------|--------|
| 1923 | - | - | - | - | 1,090 | 1,030 | 619 | 397 | 388 | 311 | 269 | 343 | - |
| 1924 | 393 | 619 | 762 | 775 | 500 | 916 | 952 | 410 | 206 | 204 | 221 | 218 | 6,180 |
| 1925 | 232 | 533 | 701 | 738 | 422 | 425 | 492 | 226 | 218 | 209 | 148 | 166 | 4,510 |
| 1926 | 304 | 475 | 598 | 507 | 828 | 495 | 5,230 | 483 | 267 | 139 | 117 | 137 | 9,580 |
| 1927 | 292 | 537 | 738 | 707 | 67,200 | 1,660 | 898 | 504 | 345 | 168 | 139 | 242 | 73,400 |
| 1928 | 387 | 660 | 806 | 664 | 650 | 664 | 249 | 242 | 189 | 136 | 120 | 185 | 4,950 |
| 1929 | 422 | 561 | 682 | 726 | 683 | 610 | 425 | 223 | 186 | 95.3 | 136 | 180 | 4,930 |
| 1930 | 248 | 185 | 306 | 2,440 | 616 | 1,360 | 446 | 855 | 383 | 314 | 276 | 282 | 7,710 |
| 1931 | 362 | 464 | 470 | 532 | 1,340 | 363 | 327 | 335 | 223 | 172 | 176 | 208 | 4,970 |
| 1932 | 324 | 415 | 1,760 | 732 | 25,000 | 1,670 | 528 | 534 | 418 | 327 | 301 | 312 | 32,300 |
| 1933 | 459 | 442 | 682 | 1,510 | 683 | 608 | 524 | 500 | 321 | 255 | 258 | 295 | 6,540 |
| 1934 | 343 | 403 | 582 | 660 | 622 | 501 | 348 | 251 | 275 | 228 | 182 | 195 | 4,590 |
| 1935 | 307 | 372 | 856 | 911 | 1,310 | 1,110 | 531 | 387 | 257 | 225 | 227 | 232 | 6,720 |
| 1936 | 293 | 384 | 469 | 494 | 2,970 | 617 | 517 | 283 | 215 | 171 | 171 | 199 | 6,780 |
| 1937 | 388 | 390 | 5,110 | 2,390 | 25,100 | 20,800 | 3,690 | 1,140 | 593 | 462 | 410 | 392 | 60,860 |
| 1938 | 452 | 542 | 690 | 688 | 2,080 | 61,910 | 2,320 | 1,150 | 662 | 516 | 473 | 449 | 71,930 |
| 1939 | 562 | 600 | 2,290 | 1,590 | 3,880 | 1,720 | 1,020 | 722 | 575 | 486 | 467 | 1,160 | 15,070 |
| 1940 | 608 | 642 | 738 | 4,140 | 3,370 | 845 | 1,210 | 626 | 487 | 346 | 356 | 394 | 13,760 |
| 1941 | 540 | 631 | 6,140 | 970 | 8,260 | 24,130 | 13,470 | 2,470 | 897 | 609 | 593 | 577 | 59,290 |
| 1942 | 728 | 831 | 1,450 | 1,840 | 1,970 | 2,090 | 1,380 | 746 | 631 | 471 | 460 | 483 | 13,080 |
| 1943 | 562 | 602 | 696 | 22,720 | 6,210 | 12,110 | 1,960 | 718 | 608 | 499 | 472 | 458 | 47,620 |
| 1944 | 562 | 640 | 1,450 | 1,060 | 8,430 | 2,350 | 879 | 774 | 623 | 526 | 467 | 469 | 18,230 |
| 1945 | 520 | 2,340 | 908 | 922 | 1,240 | 3,180 | 1,050 | 668 | 547 | 453 | 580 | 540 | 12,950 |

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

runoff
Monthly and annual ~~discharge~~ in acre-feet of Santa Margarita River ^{near} Temecula, Calif.
[Drainage area, 592 square miles]

16-70450-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|----------|------|-------|-------|--------|--------|--------|--------|-------|------|------|------|-------|--------|
| 1946 | 555 | 641 | 2,190 | 908 | 849 | 1,890 | 1,070 | 588 | 409 | 598 | 417 | 409 | 10,520 |
| 1947 | 539 | 1,010 | 1,140 | 877 | 722 | 716 | 576 | 566 | 533 | 408 | 304 | 386 | 7,780 |
| 1948 | 438 | 515 | 697 | 593 | 786 | 613 | 556 | 467 | 391 | 327 | 274 | 258 | 5,920 |
| 1949 | 348 | 385 | 521 | 790 | 630 | 572 | 472 | 412 | 333 | 288 | 283 | 273 | 5,310 |
| 1950 | 331 | 390 | 488 | 518 | 440 | 427 | 345 | 303 | 269 | 235 | 197 | 221 | 4,160 |
| 1951 | 278 | 333 | 351 | 396 | 326 | 350 | 277 | 262 | 190 | 144 | 242 | 190 | 3,340 |
| 1952 | 223 | 268 | 1,380 | 15,440 | 613 | 13,040 | 1,360 | 382 | 305 | 240 | 219 | 211 | 33,680 |
| 1953 | 254 | 439 | 877 | 576 | 387 | 416 | 297 | 272 | 226 | 268 | 392 | 390 | 4,790 |
| 1954 | 371 | 330 | 365 | 1,340 | 1,820 | 1,210 | 457 | 309 | 247 | 212 | 260 | 229 | 7,150 |
| 1955 | 305 | 425 | 460 | 948 | 507 | 422 | 308 | 368 | 265 | 236 | 272 | 233 | 4,750 |
| 1956 | 246 | 259 | 355 | 597 | 404 | 366 | 381 | 332 | 244 | 183 | 190 | 193 | 3,750 |
| 1957 | 190 | 218 | 237 | 637 | 409 | 611 | 244 | 242 | 206 | 170 | 166 | 141 | 3,470 |
| Minimum | 190 | 185 | 237 | 396 | 326 | 350 | 244 | 223 | 186 | 95.3 | 117 | 137 | 3,340 |
| Quartile | 280 | 360 | 470 | 590 | 540 | 510 | 380 | 300 | 230 | 190 | 180 | 200 | 4,600 |
| Median | 360 | 460 | 680 | 770 | 860 | 830 | 580 | 420 | 310 | 260 | 260 | 260 | 6,800 |
| Quartile | 470 | 610 | 1,000 | 1,200 | 2,700 | 1,800 | 1,100 | 630 | 500 | 420 | 390 | 390 | 15,000 |
| Maximum | 728 | 2,340 | 6,140 | 22,720 | 67,200 | 61,910 | 13,470 | 2,470 | 897 | 609 | 593 | 1,160 | 73,400 |
| Average | 393 | 544 | 1,120 | 2,100 | 4,920 | 4,620 | 1,300 | 547 | 375 | 304 | 292 | 321 | 17,080 |

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

runoff
Monthly and annual ~~discharge~~ in acre-feet, of Santa Margarita River ^{near} Fallbrook, Calif.
[Drainage area, 645 square miles]

16-70489-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL | |
|------|-------|-------|-------|--------|--------|--------|--------|-------|-------|------|------|-------|--------|--|
| 1925 | - | - | 799 | 756 | 437 | 418 | 534 | 171 | 175 | 114 | 62.7 | 101 | - | |
| 1926 | 298 | 452 | 608 | 513 | 1,010 | 515 | 8,150 | 520 | 268 | 99.0 | 48.0 | 58.3 | 12,500 | |
| 1927 | 208 | 421 | 898 | 695 | 76,600 | 3,290 | 1,400 | 726 | 428 | 164 | 86.1 | 201 | 85,100 | |
| 1928 | 446 | 702 | 892 | 855 | 811 | 848 | 325 | 222 | 160 | 64.6 | 57.2 | 101 | 5,480 | |
| 1929 | 373 | 512 | 707 | 818 | 700 | 664 | 472 | 170 | 123 | 26.4 | 64 | 196 | 4,830 | |
| 1930 | 173 | 158 | 279 | 2,770 | 761 | 1,640 | 470 | 1,410 | 338 | 249 | 211 | 219 | 8,680 | |
| 1931 | 331 | 466 | 484 | 585 | 1,420 | 402 | 364 | 323 | 194 | 83 | 101 | 165 | 4,920 | |
| 1932 | 296 | 452 | 1,680 | 953 | 28,500 | 2,560 | 750 | 560 | 400 | 274 | 231 | 280 | 36,900 | |
| 1933 | 476 | 478 | 769 | 1,830 | 828 | 652 | 567 | 487 | 266 | 176 | 172 | 243 | 6,940 | |
| 1934 | 308 | 396 | 631 | 1,030 | 713 | 555 | 341 | 209 | 249 | 165 | 127 | 146 | 4,870 | |
| 1935 | 307 | 387 | 1,030 | 1,070 | 1,590 | 1,570 | 683 | 419 | 241 | 155 | 152 | 176 | 7,780 | |
| 1936 | 268 | 383 | 453 | 507 | 3,380 | 755 | 660 | 269 | 141 | 68 | 75 | 108 | 7,070 | |
| 1937 | 453 | 401 | 4,650 | 3,890 | 32,830 | 26,430 | 5,860 | 1,690 | 855 | 516 | 395 | 343 | 78,310 | |
| 1938 | 470 | 607 | 889 | 930 | 2,980 | 76,820 | 3,830 | 1,800 | 883 | 726 | 605 | 554 | 91,090 | |
| 1939 | 725 | 758 | 2,740 | 2,290 | 5,130 | 2,300 | 1,420 | 824 | 542 | 457 | 382 | 1,280 | 18,850 | |
| 1940 | 669 | 728 | 829 | 4,740 | 4,800 | 1,200 | 1,600 | 703 | 476 | 267 | 296 | 410 | 16,720 | |
| 1941 | 591 | 685 | 6,940 | 1,380 | 10,160 | 35,770 | 19,900 | 4,060 | 1,420 | 780 | 744 | 668 | 83,100 | |
| 1942 | 1,110 | 1,170 | 1,850 | 2,380 | 2,120 | 2,610 | 1,770 | 859 | 642 | 443 | 376 | 432 | 15,760 | |
| 1943 | 524 | 606 | 801 | 25,610 | 8,370 | 16,010 | 3,000 | 1,020 | 705 | 479 | 374 | 388 | 57,890 | |
| 1944 | 617 | 670 | 1,980 | 1,410 | 9,510 | 3,590 | 1,240 | 889 | 671 | 479 | 390 | 401 | 21,850 | |
| 1945 | 497 | 3,090 | 1,020 | 1,050 | 1,520 | 4,600 | 1,310 | 696 | 499 | 316 | 496 | 464 | 15,560 | |

Sheet 7 of 13

GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

runoff
Monthly and annual ~~discharge~~ in acre-feet of Santa Margarita River ^{near} Fallbrook, Calif.
[Drainage area, 645 square miles]

16-70489-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|----------|-------|-------|-------|--------|--------|--------|--------|-------|-------|------|------|-------|--------|
| 1946 | 493 | 629 | 2,980 | 865 | 899 | 2,060 | 1,310 | 582 | 367 | 514 | 218 | 230 | 11,150 |
| 1947 | 491 | 1,510 | 1,560 | 1,040 | 803 | 785 | 609 | 480 | 459 | 335 | 275 | 349 | 8,700 |
| 1948 | 444 | 523 | 899 | 722 | 1,010 | 819 | 686 | 488 | 376 | 260 | 219 | 191 | 6,640 |
| 1949 | 326 | 393 | 607 | 1,000 | 805 | 744 | 558 | 445 | 308 | 255 | 225 | 218 | 5,880 |
| 1950 | 261 | 337 | 512 | 599 | 542 | 500 | 383 | 305 | 170 | 105 | 73 | 120 | 3,910 |
| 1951 | 170 | 315 | 352 | 454 | 389 | 380 | 238 | 212 | 62 | 20 | 84 | 69 | 2,750 |
| 1952 | 90 | 155 | 2,750 | 21,580 | 680 | 18,500 | 2,440 | 510 | 168 | 33 | 15 | 87 | 47,010 |
| 1953 | 140 | 546 | 1,040 | 936 | 428 | 434 | 195 | 88 | 26 | 19 | 56 | 58 | 3,970 |
| 1954 | 94 | 202 | 176 | 1,710 | 2,530 | 1,780 | 796 | 149 | 30 | 24 | 24 | 21 | 7,540 |
| 1955 | 104 | 301 | 426 | 1,160 | 582 | 432 | 102 | 229 | 38 | 18 | 18 | 12 | 3,420 |
| 1956 | 12 | 82 | 199 | 769 | 313 | 132 | 208 | 36 | 1.4 | 0 | 0 | 0 | 1,750 |
| 1957 | 0 | 1.6 | 7.1 | 609 | 437 | 731 | 48 | 37 | 6.5 | 0 | 0 | 0 | 1,880 |
| Minimum | 0 | 1.6 | 7.1 | 454 | 437 | 132 | 48 | 36 | 1.4 | 0 | 0 | 0 | 1,750 |
| Quartile | 200 | 330 | 500 | 730 | 660 | 560 | 380 | 230 | 150 | 57 | 60 | 89 | 4,800 |
| Median | 360 | 460 | 830 | 1,000 | 1,000 | 1,000 | 700 | 430 | 270 | 170 | 150 | 180 | 8,800 |
| Quartile | 500 | 640 | 1,400 | 1,600 | 3,700 | 2,800 | 1,600 | 780 | 490 | 370 | 300 | 340 | 21,000 |
| Maximum | 1,110 | 3,090 | 6,940 | 25,610 | 76,600 | 76,820 | 19,900 | 4,060 | 1,420 | 780 | 744 | 1,280 | 91,090 |
| Average | 368 | 579 | 1,290 | 2,650 | 6,170 | 6,380 | 1,860 | 654 | 354 | 244 | 202 | 251 | 21,520 |

GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

runoff

Monthly and annual ~~discharge~~ ^{runoff}, in acre-feet, of De Luz Creek ~~near~~ ^{near} Fallbrook, Calif.

[Drainage area, 47.9 square miles]

16-70489-1 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|---------|------|------|------|-------|-------|-------|-------|-----|------|------|------|-------|--------|
| 1951 | - | - | - | - | 0 | 0.8 | 28 | 0 | 0 | 0 | 0 | 0 | - |
| 1952 | 0 | 0 | 64 | 3,760 | 429 | 5,650 | 1,500 | 240 | 41 | 9.1 | 0 | 0 | 11,690 |
| 1953 | 0 | 5.4 | 36 | 1,290 | 71 | 72 | 21 | 7.7 | 1.6 | 0 | 0 | 0 | 1,500 |
| 1954 | 0 | 0 | 0 | 1,140 | 1,630 | 1,420 | 713 | 78 | 14 | .8 | 0 | 0 | 5,000 |
| 1955 | 0 | 0 | 0 | 0 | 39 | 97 | 17 | 5.0 | 0 | 0 | 0 | 0 | 158 |
| 1956 | 0 | 0 | 0 | 1,060 | 64 | 37 | 35 | 12 | 2.4 | 0 | 0 | 0 | 1,210 |
| 1957 | 0 | 0 | 0 | 11 | 11 | 40 | 3.4 | 0 | 0 | 0 | 0 | 0 | 65 |
| Minimum | 0 | 0 | 0 | 0 | 0 | .8 | 3.4 | 0 | 0 | 0 | 0 | 0 | 65 |
| Maximum | 0 | 5.4 | 64 | 3,760 | 1,630 | 5,650 | 1,500 | 240 | 41 | 9.1 | 0 | 0 | 11,690 |
| Average | 0 | .90 | 17 | 1,210 | 321 | 1,050 | 331 | 49 | 8.4 | 1.3 | 0 | 0 | 3,270 |

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Monthly and annual ~~discharge~~ ^{runoff} in acre-feet of O'Neill ditch ~~discharge~~ ^{near} Ysidora, Calif.
[Drainage area, _____ square miles]

16-70420-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|------|------|------|------|------|------|------|------|-----|------|------|------|-------|--------|
| 1931 | 258 | 270 | 491 | 219 | 81.6 | 408 | 330 | 315 | 124 | 8.0 | 8.6 | 27.4 | 2,540 |
| 1932 | 211 | 174 | 0 | 0 | 0 | 389 | 863 | 564 | 350 | 180 | 135 | 186 | 3,050 |
| 1933 | 255 | 202 | 109 | 0 | 0 | 357 | 522 | 414 | 158 | 40.3 | 31.1 | 109 | 2,200 |
| 1934 | 168 | 0 | 0 | 615 | 545 | 496 | 310 | 113 | 172 | 45.0 | 7.9 | 23.0 | 2,490 |
| 1935 | 52 | 0 | 0 | 0 | 0 | 0 | 361 | 498 | 196 | 81 | 25 | 56 | 1,270 |
| 1936 | 157 | 332 | 448 | 507 | 7.9 | 274 | 274 | 249 | 76 | 9.5 | 5.2 | .6 | 2,340 |
| 1937 | 14 | 0 | 159 | 159 | 357 | 0 | 2.2 | 498 | 357 | 403 | 277 | 244 | 2,470 |
| 1938 | 386 | 558 | 324 | 0 | 0 | 0 | 0 | 0 | 713 | 512 | 420 | 425 | 3,340 |
| 1939 | 633 | 12 | 0 | 0 | 0 | 0 | 0 | 433 | 377 | 204 | 181 | 255 | 2,100 |
| 1940 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 244 | 304 | 131 | 166 | 238 | 1,080 |
| 1941 | 247 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 524 | 505 | 523 | 1,800 |
| 1942 | 485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 189 | 292 | 275 | 396 | 1,640 |
| 1943 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 423 | 358 | 151 | 224 | 1,160 |
| 1944 | 510 | 686 | 522 | 964 | 662 | 0 | 66 | 774 | 264 | 80 | 171 | 237 | 4,940 |
| 1945 | 252 | 137 | 0 | 0 | .4 | 1.0 | 177 | 725 | 329 | 42 | 330 | 289 | 2,280 |
| 1946 | 397 | 599 | 655 | 0 | 0 | 50 | 0 | 347 | 269 | 205 | 230 | 264 | 3,020 |
| 1947 | 520 | 238 | 102 | 0 | 0 | 116 | 61 | 366 | 325 | 125 | 81 | 169 | 2,100 |
| 1948 | 302 | 407 | 759 | 686 | 843 | 756 | 644 | 325 | 185 | 25 | 3.0 | 4.6 | 4,940 |
| 1949 | 164 | 268 | 625 | 869 | 807 | 768 | 454 | 283 | 64 | 27 | 7.1 | .2 | 4,340 |
| 1950 | 53 | 208 | 326 | 202 | 164 | 427 | 339 | 163 | 30 | 0 | 0 | 0 | 1,910 |

runoff

16-26489-5 U. S. GOVERNMENT PRINTING OFFICE

sheet 11 of 13

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Sheet 1 of 2 Sheets

yearly runoff

Monthly and ~~annual~~ runoff, in Acre-feet, of Santa Margarita River at Ysidora, Calif.
[Drainage area, 740 square miles]

16-26480-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|------|------|-------|-------|--------|--------|---------|--------|-------|-------|------|------|-------|---------|
| 1923 | - | - | - | - | - | 941 | 87.5 | 7.4 | 0 | 0 | 0 | 0 | - |
| 1924 | 0 | 0 | 435 | 601 | 234 | 531 | 538 | 19.1 | 0 | 0 | 0 | 0 | 2,360 |
| 1925 | 0 | 0 | 165 | 395 | 73.9 | 72.6 | 79.1 | 4.9 | 0 | 0 | 0 | 0 | 790 |
| 1926 | 0 | 0 | 18.4 | 9.8 | 1,140 | 208 | 14,200 | 148 | 22.6 | 0 | 0 | 0 | 15,700 |
| 1927 | 0 | 0 | 43.7 | 351 | 81,600 | 6,150 | 2,260 | 430 | 298 | 43.0 | 3.1 | 0 | 91,200 |
| 1928 | 0 | 193 | 922 | 1,047 | 692 | 809 | 209 | 107 | 25 | .2 | 0 | 0 | 4,000 |
| 1929 | .6 | 1.6 | 65 | 91 | 623 | 319 | 187 | 67 | 2.7 | 0 | 0 | 0 | 1,360 |
| | | | | | | | | | | | | | * 5,830 |
| 1931 | 4.3 | 36.3 | 57.8 | 236 | 2,470 | 468 | 201 | 121 | 43.4 | 8.2 | 7.6 | 2.8 | 3,660 |
| 1932 | 23.6 | 74.4 | 2,820 | 1,890 | 31,200 | 3,580 | 486 | 330 | 98.8 | 26.2 | 17.5 | 28.1 | 40,600 |
| 1933 | 97.2 | 92.2 | 602 | 2,780 | 1,580 | 627 | 309 | 176 | 68.4 | 62.7 | 58.1 | 67.8 | 6,520 |
| 1934 | 87.1 | 76.6 | 367 | 3,160 | 524 | 428 | 140 | 75.8 | 69.8 | 32.1 | 23.6 | 23.8 | 5,010 |
| 1935 | 51 | 94 | 991 | 1,950 | 3,660 | 3,970 | 1,230 | 301 | 300 | 166 | 141 | 137 | 12,990 |
| 1936 | 136 | 145 | 153 | 157 | 7,350 | 1,060 | 1,150 | 261 | 247 | 194 | 110 | 94 | 11,060 |
| 1937 | 141 | 143 | 5,750 | 8,170 | 55,650 | 36,000 | 8,490 | 2,130 | 671 | 28 | 24 | 0 | 117,200 |
| 1938 | 39 | 42 | 684 | 1,090 | 5,230 | 106,400 | 5,340 | 2,680 | 510 | 30 | 0 | 0 | 122,000 |
| 1939 | 0 | 158 | 4,430 | 3,710 | 7,800 | 3,540 | 1,980 | 477 | 3.4 | 0 | 0 | 803 | 22,900 |
| 1940 | 299 | 442 | 638 | 7,010 | 9,530 | 1,920 | 2,140 | 342 | 0 | 0 | 0 | 0 | 22,320 |
| 1941 | 0 | 0 | 8,670 | 2,720 | 16,920 | 53,570 | 27,650 | 6,180 | 1,710 | 156 | 5.2 | 0 | 117,600 |
| 1942 | 816 | 1,310 | 3,000 | 3,510 | 2,520 | 3,010 | 2,050 | 628 | 83 | 0 | 0 | 0 | 16,930 |
| 1943 | 0 | 36 | 541 | 32,700 | 13,300 | 22,170 | 4,300 | 1,060 | 166 | 0 | 0 | 0 | 74,270 |
| 1944 | 0 | 0 | 3,280 | 1,750 | 14,260 | 6,430 | 1,460 | 467 | 150 | 0 | 0 | 0 | 27,800 |
| 1945 | 0 | 3,920 | 1,060 | 1,040 | 2,860 | 8,790 | 2,150 | 397 | 55 | 0 | 0 | 0 | 20,270 |

sheet 12 of 13

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

yearly runoff
Monthly and annual runoff in Acre-feet of Santa Margarita River at Ysidora, Calif.
[Drainage area, 740 square miles]

16-70459-5 U. S. GOVERNMENT PRINTING OFFICE

| YEAR | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | ANNUAL |
|----------|------|-------|-------|--------|--------|---------|--------|-------|-------|------|------|-------|---------|
| 1946 | 0 | 0 | 4,040 | 1,100 | 1,040 | 2,590 | 2,720 | 155 | 0 | 35 | 0 | 0 | 11,680 |
| 1947 | 0 | 1,320 | 2,190 | 1,520 | 946 | 705 | 242 | 4.0 | 0 | 0 | 0 | 0 | 6,930 |
| 1948 | 0 | 0 | 0 | 0 | 203 | 175 | 184 | 0 | 0 | 0 | 0 | 0 | 562 |
| 1949 | 0 | 0 | 0 | 0 | 171 | 308 | 0 | 0 | 0 | 0 | 0 | 0 | 479 |
| 1950 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1951 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1952 | 0 | 0 | 0 | 21,460 | 794 | 21,280 | 3,670 | 434 | 0 | 0 | 0 | 0 | 47,640 |
| 1953 | 0 | 0 | 0 | 1,030 | 7.3 | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 1,040 |
| 1954 | 0 | 0 | 0 | 339 | 3,280 | 2,800 | 1,290 | 30 | 0 | 0 | 0 | 0 | 7,740 |
| 1955 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1956 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1957 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | 0 |
| Minimum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Quartile | 0 | 0 | 1.0 | 45 | 260 | 120 | 80 | 0 | 0 | 0 | 0 | 0 | 740 |
| Median | 0 | 0 | 350 | 980 | 1,300 | 820 | 650 | 120 | 2 | 0 | 0 | 0 | 6,900 |
| Quartile | 2.0 | 100 | 1,500 | 2,700 | 6,200 | 4,500 | 1,800 | 400 | 86 | 15 | 0 | 0 | 24,000 |
| Maximum | 816 | 3,920 | 8,670 | 32,700 | 81,600 | 106,400 | 27,650 | 6,180 | 1,710 | 194 | 141 | 803 | 122,000 |
| Average | 51.4 | 245 | 1,240 | 3,020 | 8,050 | 8,500 | 2,490 | 501 | 133 | 23.0 | 11.5 | 34.0 | 24,070 |

* Furnished by H. M. Hall, Vail Company.

Estimated annual inflow, in acre-feet, to the
Santa Margarita River Valley at De Luz damsite
for period 1922-57

| Water year | Annual inflow | | |
|------------|------------------------------------|------------------------|----------|
| | Santa Margarita River <u>a/</u> | De Luz Creek <u>b/</u> | Combined |
| 1923 | <u>/c</u> 7,800 | 4,000 | 11,800 |
| 1924 | <u>/c</u> 7,000 | 1,800 | 8,800 |
| 1925 | <u>/c</u> 4,200 | 1,400 | 5,600 |
| 1926 | 12,500 | 8,000 | 20,500 |
| 1927 | 85,100 | 12,000 | 97,100 |
| 1928 | 5,480 | 2,400 | 7,880 |
| 1929 | 4,830 | 1,700 | 6,530 |
| 1930 | 8,680 | 3,600 | 12,300 |
| 1931 | 4,920 | 1,900 | 6,820 |
| 1932 | 36,900 | 9,000 | 45,900 |
| 1933 | 6,940 | 3,600 | 10,500 |
| 1934 | 4,870 | 2,600 | 7,470 |
| 1935 | 7,780 | 7,000 | 14,800 |
| 1936 | 7,070 | 5,600 | 12,700 |
| 1937 | 78,310 | 38,000 | 116,000 |
| 1938 | 91,090 | 32,000 | 123,000 |
| 1939 | 18,850 | 9,800 | 28,600 |
| 1940 | 16,720 | 10,000 | 26,700 |
| 1941 | 83,100 | 37,000 | 120,000 |
| 1942 | 15,760 | 5,800 | 21,600 |
| 1943 | 57,890 | 20,000 | 77,900 |
| 1944 | 21,850 | 11,000 | 32,800 |
| 1945 | 15,560 | 9,200 | 24,800 |
| 1946 | 11,150 | 5,600 | 16,800 |
| 1947 | 8,700 | 3,300 | 12,000 |
| 1948 | 6,640 | 600 | 7,240 |
| 1949 | 5,880 | 900 | 6,780 |
| 1950 | 3,910 | 600 | 4,510 |
| 1951 | 2,750 | 200 | 2,950 |
| 1952 | 47,010 | 13,790 | 60,800 |
| 1953 | 3,970 | 1,770 | 5,740 |
| 1954 | 7,540 | 5,900 | 13,440 |
| 1955 | 3,420 | 190 | 3,610 |
| 1956 | 1,750 | 1,430 | 3,180 |
| 1957 | 1,880 | 80 | 1,960 |

/a Measured at gaging station near Fallbrook.

/b Estimated inflow from tributary area between Fallbrook gaging station and De Luz damsite.

/c Estimated.

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