Magnitude and Frequency of Floods in the United States

Part 11. Pacific Slope Basins in California

Volume 1. Coastal Basins South of the Klamath River Basin and Central Valley Drainage from the West

By L. E. YOUNG *and* R. W. CRUFF

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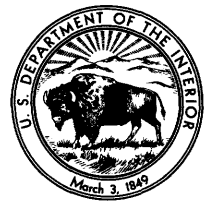

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By L. E. Young and R. W. Cruff

ABSTRACT

This report presents a method for determing the probable magnitude of floods for any recurrence interval between 1.2 and 50 years for any stream, gaged or ungaged, in the area studied. This report and a companion report (U.S. Geological Survey Water-Supply Paper 1686) cover the region designated as "Part 11" in the series of Geological Survey reports entitled "Surface Water Supply of the United States." The area covered by this report includes those streams in California that drain into the Pacific Ocean between Mexico on the south and the Klamath River basin on the north, plus those streams that drain from the west into the Central Valley south of the Clear Creek basin. The area has been divided into two regions of differing flood-frequency characteristics.

The hydrologic basin characteristics having the most significant effect on the flood magnitude were drainage area, mean annual precipitation, and altitude. These were used as independent variables to derive equations for determining flood magnitudes with recurrence intervals of 1.2, 2.33, 5, 10, 25, and 50 years. From the equations, flood magnitude-frequency relations can be constructed. The procedure for computing flood magnitude is not applicable at sites where the drainage area is less than 10 square miles or where the usable storage exceeds 4.5 million cubic feet (103 acre-feet) per square mile.

INTRODUCTION

PURPOSE AND SCOPE

This volume is one of a series of flood-frequency reports covering the conterminous United States. The objectives of this report are (1) to present all significant flood-peak data for the region covered by the report and (2) to present relations derived from an analysis of the flood data whereby the flood magnitude and its probability of occurrence at any site on any stream in the area, with certain limitations, can be evaluated. The limitations are discussed in the section of the report titled "Selection of gaging-station records."

The area covered by this report, volume 1, and a companion report, volume 2, U.S. Geological Survey Water-Supply Paper 1686, comprises the Pacific slope basins in California and is combined in a single report designated Part 11 in the series of reports published by the Geological Survey entitled "Surface Water Supply of the United States." The two volumes are needed in the current nationwide series entitled "Magnitide and Frequency of Floods in the United States" because the flood data for Part 11 are too voluminous to be contained in a single report. Figure 1 shows the Part 11 area in the conterminous United States. The area covered by this report is shaded and includes those streams that drain into the Pacific Ocean between Mexico on the south and the Klamath River basin on the north, plus those streams that drain from the west into the Central Valley south of Clear Creek. The report area, in turn, was divided into two regions. This division was not arbitrary; the regional boundaries were established on the basis of topography, physiography, and flood magnitude-frequency characteristics that are described in this study.

The relation between flood peaks and hydrologic characteristics was investigateed by a multiple-regression analysis of the data. The hydrologic characteristics that were considered included topographic, climatic, and runoff variables. Statistical tests were applied to eliminate those hydrologic characteristics that were not significant. The equations defined are based on a comprehensive study of all flood data available in the area and provide a means for determining the most probable flood magnitude for any recurrence interval between 1.2 and 50 years, within the scope of the data.

Flood-peak data through the 1965 water year for gaging stations with 5 years or more of record prior to the 1964 water year are tabulated in this report, and, in addition, significantly large flood peaks at miscellaneous sites and at gaging stations with less than 5 years of record are included.

ACKNOWLEDGMENTS

This report was prepared in the Menlo Park district office of the Water Resources Division, U.S. Geological Survey, under the general direction of Walter Hofmann, district chief for California. Technical guidance and review were furnished by A. Rice Green and M. A. Benson, hydrologists, U.S. Geological Survey, Washington, D.C., and S. E. Rantz, hydrologist, U.S. Geological Survey, Menlo Park, Calif. Acknowledgment is made of the contributions to this report, primarily in the assembling of the data, by E. D. Cobb and Maxine A. Rose, hydraulic engineer and engineering technician, respectively, U.S. Geological Survey, Menlo Park, Calif.

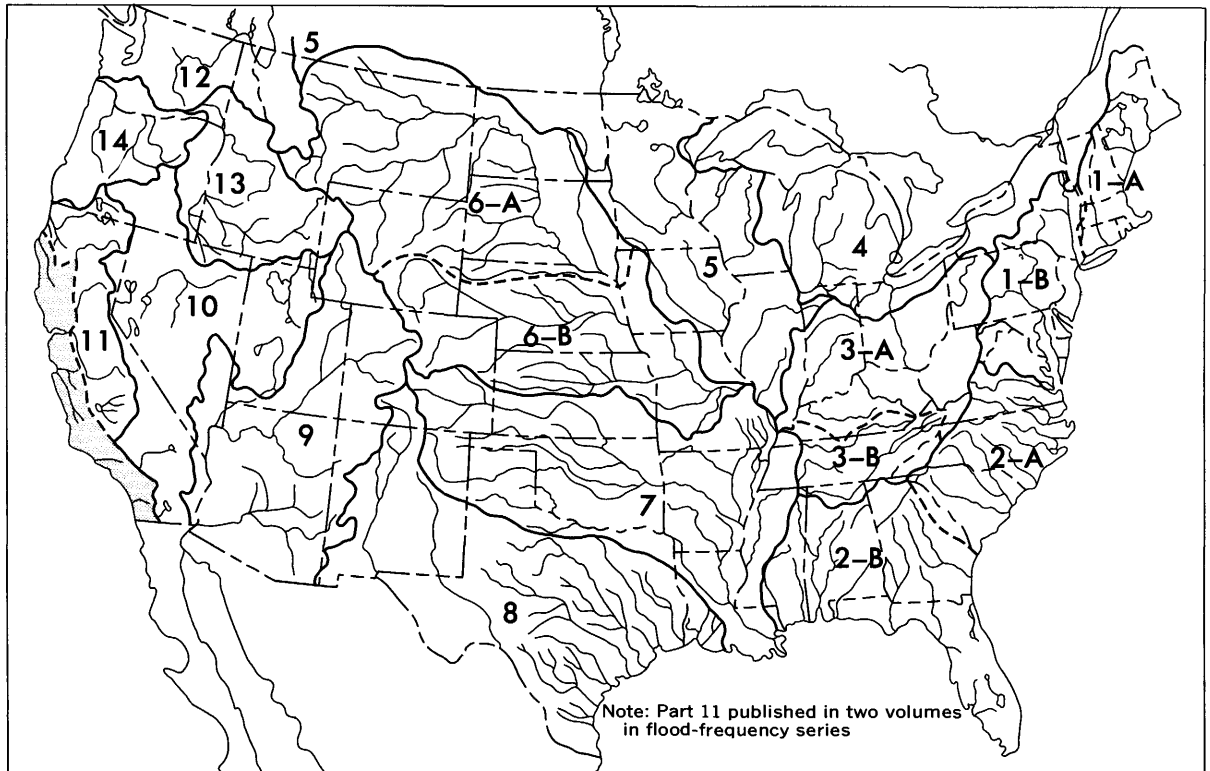

FIGURE 1.—Map of conterminous United States. The area covered by this report is shaded.

The streamflow records used, unless otherwise stated, were collected by the U.S. Geological Survey in cooperation with many Federal, State, county, and municipal agencies. Detailed acknowledgment of cooperation is given in the series of water-supply papers published by the Geological Survey entitled "Surface Water Supply of the United States, Part 11, Pacific slope basins in California."

FLOOD-FREQUENCY ANALYSIS

Flood data can be analyzed as an annual flood series or as a partial-duration series. An annual flood series consists of the highest momentary peak discharge for each water year. A partial-duration series includes all peaks above a selected base discharge, regardless of their relation to a given time period. The two methods have been shown to give virtually the same results for recurrence intervals greater than 10 years (Langbein, 1949). Owing to the fact that most designers are interested in flood magnitudes with recurrence intervals of 10 years or more, the choice of series is of little practical importance. However, because of its relative simplicity, theoretical soundness (Chow, 1950), and availability of the data, the annual flood series was used for this report.

After selecting the type of flood series, it is necessary to decide on one of the several methods available for analyzing the flood magnitude-frequency relation. In the past the Geological Survey has used a method described by Dalrymple (1960) and now widely known as the index-flood method. However, as a part of the continual appraisal of methodology, another method was investigated and described by Benson (1962 and 1964). This method based on the correlation of flood magnitudes with significant hydrologic variables of the basin has been shown by Cruff and Rantz (1965) to be an improvement over the index-flood method, and consequently was used to define the flood magnitude-frequency relations presented in this report.

SELECTION OF GAGING-STATION RECORDS

The U.S. Geological Survey (1959, 1960, and 1964) compilation reports contain streamflow data collected by the Survey prior to September 30, 1960 for all gaging stations in the Part 11 area. These reports were used to ensure that all available streamflow records were considered for inclusion in this report. Flood-peak data at miscellaneous sites and at gaging stations are included in the tables of this report. However, only those stations with at least 10 years of record prior to the 1964 water year were considered for use in the flood-frequency analysis.

There are several reasons why some of the gaging-station records that were considered could not be used in the analysis. Obviously, those that contain annual peak discharges seriously affected by artificial storage or diversion could not be used. However, where possible, diversion and flow in the stream were combined to provide a usable record of flood peaks.

Criteria for deciding when a station with at least 10 years of streamflow record was not suitable for use in the flood-frequency analysis are listed below.

1. Ten annual momentary maximum discharges not available. Station records with 10 years of streamflow data do not always contain annual peaks for all 10 years. Also, some of the older records contain daily maximum discharges rather than momentary maximums, and unless the daily figures could be adjusted to give reliable figures of momentary maximum discharges they were not used.
2. Less than 25-percent difference between drainage areas of adjacent stations on the same stream, the percentage difference being based on the size of the smaller drainage area. Only the station with the longer record was used unless there was a period of nonoverlapping record. If a nonoverlapping period existed, the shorter record was combined with the longer record by a ratio based on the size of the drainage areas.
3. More than 4.5 million cubic feet (103 acre-feet) of usable storage per square mile (Benson, 1962, p. 8). If record was available for at least 10 years prior to the construction of reservoirs that caused the criterion to be exceeded, the record prior to that time was used.
4. Some special indication of excessive diversion or regulation, even though not exceeding the usable storage criterion. A situation of this kind may arise where the gage is directly below a large reservoir.
5. Drainage areas smaller than 10 square miles. Only a few records are available on streams in this category, and most of them are grouped in one part of the study area. A project is presently (1965) underway to obtain data needed to define flood magnitude-frequency relations throughout California for small streams.

After the above criteria were met, records from 138 gaging stations remained for use in the flood-frequency analysis for the area covered by this report. The location of gaging stations not excessively regulated by storage or diversion and with 5 or more years of record prior to the 1964 water year is shown in plate 1. The 138 gaging sta-

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tions used in the flood-frequency analysis are shown by solid circles, and those tabulated but not used are shown by open circles.

FLOOD FREQUENCY AT A GAGING STATION

Many of the gaging-station records used in this study were short-time samples, but in order to obtain reasonable areal coverage it was necessary that they be used. Whenever possible, the time base of the short-term stations was extended by graphically correlating the available annual peak discharges with peak discharges from one or more nearby long-term stations. The correlation, providing it appeared reasonable, was then used to estimate annual peaks for the years without record at the short-term station.

When the record of annual peaks for a station was ready for analysis, each peak was assigned an order number according to its magnitude, starting with the largest as number 1. Next, the plotting position or recurrence interval, T, for each of the peaks was computed by means of the formula

$$T=\frac{n+1}{m}$$

where n=the number of years of record and m=the relative magnitude (order number) of the event.

The recurrence intervals were adjusted, where appropriate, on the basis of historical or qualitative information. For example, several stations in northwestern California have 34 years of record (1932–65), and the 1965 and 1956 peaks are greatest and second greatest, respectively, during the period of record. Without considering historical information prior to 1932, the recurrence intervals for these two floods would be 35 and 17.5 years, respectively. However, in 1862 a flood estimated to be about equal in magnitude to the 1956 flood occurred, and local records reaching back to 1853 indicate that the peaks of 1862 and 1956 were exceeded only by the 1965 peak. Therefore, the 1965 peak has an order of magnitude of 1 in at least 112 years, giving it a recurrence interval of 113 years instead of the 35 years originally computed. Furthermore, the two peak discharges that occurred in 1862 and 1956 have orders of magnitude of 2 and 3 in 112 years, giving them recurrence intervals of 56.5 and 37.7 years, respectively. The recurrence intervals for other peaks during the period of record were not adjusted. All recorded peaks were then plotted at their appropriate recurrence intervals on extreme-value probability paper (Powell, 1943), and a straight line or gentle curve of best fit was drawn by eye. Estimated peaks were not plotted; their only purpose was to adjust the time base (order number) of the recorded peaks. Because the computed recurrence intervals of the larger (less frequent) floods are not as reliable as

those of the smaller (more frequent) floods, the larger floods tend to scatter more than the smaller floods when plotted on extreme-value probability paper.

Peak-discharge values were selected from each frequency curve at recurrence intervals of 1.2, 2.33, 5, 10, 25, and 50 years. Flood magnitudes for the four shorter recurrence intervals were available for all sites. However, because of the limitations on using peak-discharge figures obtained by correlation, the magnitudes for the 25- and 50-year floods were not available at all sites. The table below lists the number of flood peaks available for analysis for each of the six recurrence intervals. The flood peaks are the dependent variables that were correlated with pertinent hydrologic characteristics.

	Number of annual peaks	
Recurrence interval (years)	*Region A*	*Region B*
1.2	105	33
2.33	105	33
5	105	33
10	105	33
25	97	33
50	61	19

HYDROLOGIC CHARACTERISTICS

The rate of runoff from a basin is controlled by its many hydrologic characteristics. To describe the relation between peak discharge and the characteristics, it is first necessary to determine which of the hydrologic characteristics are significantly related to flood peaks and can also be evaluated numerically. Selection of the hydrologic characteristics used in this study was made on the basis of studies by others in this and other areas (for example, Benson, 1962), as well as from first-hand knowledge of the area. The hydrologic characteristics considered in this analysis can be separated into three groups: topography, climate, and runoff.

TOPOGRAPHY

Six topographic characteristics were considered in the analysis. They are drainage area, main-channel length, an index of main-channel slope, an index of basin altitude (above mean sea level), percentage of drainage area above an altitude of 5,000 feet, and percentage of drainage area covered by lakes and ponds. Geological Survey topographic maps of the 7.5- and 15-minute series were used in determining the various topographic characteristics.

The drainage area (A) is the area of the drainage basin, in square miles, measured in a horizontal plane. It is probably the most important of these characteristics. The drainage area for the stations used in the analysis ranges from 10 to 4,157 square miles.

The main-channel length (L) used in the analysis is the length, in miles, of the longest continuous stream channel from the gaging station to the drainage divide. The main-channel length for the stations used in this analysis ranges from 6.1 to 183 miles.

To determine the main-channel slope index (S), points at 10 and 85 percent of the total channel length upstream from the gaging station were located, and the altitude at these points was determined. The channel slope, in feet per mile, was computed as the difference in altitude divided by the distance between the two points. The slope index for the stations used in the analysis ranges from 8.7 to 810 feet per mile.

The basin-altitude index (E) used in the analysis is the average of the altitudes of the two points 10 and 85 percent of the distance along the main channel upstream from the gaging station. It is expressed in thousands of feet. The altitude index for the stations used in the analysis ranges from 0.36 to 5.97. The altitude index is a substitute for the more commonly used mean altitude of the basin. The altitude index was used because a high degree of correlation was found to exist between the altitude index and the mean altitude of the basin and because the altitude index is much easier to compute.

The percentage of the drainage basin above an altitude of 5,000 feet (A_2) was determined by placing a grid over a contour map of the entire drainage basin. The altitudes at the grid intersection points were then listed, and the percentage of the area above 5,000 feet was determined as the percentage of the listed altitudes that were above 5,000 feet. The values for the stations used in the analysis range from 0 to 86 percent.

The percentage of the drainage area covered by lakes and ponds (La), both natural and manmade, was determined by measuring the area of lakes and ponds within the basin and expressing it as a percentage of the drainage area of the basin. The percentage of the area covered by lakes and ponds for the stations used in the analysis ranges from 0 to 2.8 percent.

CLIMATE

Two climatic characteristics were considered for this analysis—mean annual precipitation and rainfall intensity. The mean annual precipitation (P) is the long-term average annual precipitation over the entire basin, in inches. A map with isohyetals showing mean annual precipitation was used to determine the basinwide average of mean annual precipitation for each basin. The map is shown in plate 2. The mean annual precipitation for the basins used in this analysis ranges from 15 to 82 inches.

The rainfall intensity (I) used for the analysis is the 24-hour rainfall, in inches, with a recurrence interval of 25 years. This value was

determined for each basin from isohyetals presented by the U.S. Weather Bureau (1961). The rainfall intensity for the basins used in the analysis ranges from 3.7 to 15 inches.

RUNOFF

The mean annual runoff (R), in inches, was the only runoff characteristic considered. A base period of 30 years (1934–63) was used. Many stations did not have discharge records for the entire base period, and such gaps in the record were filled by correlations with records for nearby stations. The mean annual runoff for the stations used in the analysis ranges from 0.11 to 70.2 inches.

MULTIPLE-REGRESSION PROCEDURES

Multiple regression is defined as the relation between one dependent and two or more independent variables. Use of multiple-regression analysis in flood magnitude-frequency studies requires the development of regression equations expressing flood magnitude as a function of hydrologic basin characteristics. Past experience has shown that the logarithms of peak discharges are linearly related to the logarithms of most hydrologic variables. The equations have the empirical form:

$$Q_T = aB^bC^cD^d \quad . \quad . \quad . \qquad (1)$$

where

Q_T = discharge, corresponding to a recurrence interval of T years;
a = regression constant;
b, c, d = regression coefficients; and
B, C, D = hydrologic characteristics.

The regression equation is derived by a least-square correlation of the T-year discharges with the corresponding hydrologic characteristics for all sites used in the analysis. Statistical tests are made so that those variables having little or no significance can be eliminated from the equation.

Electronic computing techniques allow rapid computation of regression equations, whereas previously computation either by desk calculator or by graphical solution was required. Computation by desk calculator for more than two variables is a slow, tedious process, and graphical solutions become subjective and often inaccurate for more than three variables. Thus, when numerous variables are used, the multiple-regression analysis is practical only if an electronic computer is available.

The multiple-regression computer program used in this analysis provides a wealth of statistical information. Computer input data

consisted of the flood discharges (dependent variables) for each of the selected recurrence intervals of T years and the hydrologic characteristics (independent variables) for the corresponding basins. Among other statistics, the output data consisted of simple correlation coefficients between each pair of variables, a multiple correlation coefficient, the regression equation constant and coefficients, and the standard error of estimate of the logarithms of the dependent variable. The computed values of the dependent variable, based on the derived regression equation, and the departure between the observed and computed values of the dependent variable for each station used in the analysis were also available. The observed values are those T-year floods which were used as input data for the computer.

The computer program used provided for the elimination of the least significant independent variable (hydrologic characteristic) after an equation was derived and recomputation of the data without this variable. This procedure was repeated until only one independent variable remained. This type of analysis made it possible to determine when no large improvement in the results was obtained by the use of additional hydrologic characteristics. The following table shows the amount of improvement indicated by the multiple-correlation coefficient and the standard error of estimate of the dependent variable. Improvement is indicated by the approach of the correlation coefficient and standard error to 1.0 and 0, respectively. It is evident from these data that the inclusion of other variables in addition to A, P, and E causes no significant improvement in the correlation coefficient or standard error.

Hydrologic characteristics	*Multiple-correlation coefficient*	*Standard error of estimate (percent)*
A	0.73	73
A, P	.93	38
A, P, E	.94	35
A, P, E, A_2	.95	35
A, P, E, A_2, La	.95	36
A, P, E, A_2, La, R	.95	36
A, P, E, A_2, La, R, I	.95	37
A, P, E, A_2, La, R, I, L	.95	37
A, P, E, A_2, La, R, I, L, S	.95	38

REGIONAL ANALYSIS

Because of the lack of long-term records of natural flow for every stream, one must analyze the available data on a regional basis to derive a regression equation for estimating data for ungaged or short-record sites. For multiple-regression analysis, the regions used should be such that the available hydrologic characteristics will correlate reliably with T-year flood peaks within the region.

As a preliminary analysis, the entire area designated Part 11 was used as one flood-frequency region. The results from this analysis were used to determine if the Part 11 area could be used as a single homogeneous flood-frequency region or whether it would be desirable to delineate smaller regions. Also, this analysis was used to eliminate hydrologic characteristics that were found to be insignificant. On the basis of the preliminary analysis, the physiographic regions delineated by Fenneman (1931), and the major drainage divides, six flood-frequency regions were delineated. The area covered by this report contains two of these regions (pl. 1), each of which is described below. The remaining four regions are considered in a companion report, Water-Supply Paper 1686 (Young and Cruff, 1967).

SOUTH COAST REGION

The south coast region (A) includes streams in California that drain into the Pacific Ocean between Lower California (Mexico) on the south and San Francisco Bay on the north plus streams that drain from the west into the San Joaquin River valley (pl. 1). The region has a subhumid climate. Snow occurs at high altitudes but remains on the ground for only short periods of time. The altitude within the region ranges from sea level along the coast to 11,485 feet atop San Gorgonio Mountain in southern California. Most of the floods in the region are caused by general winter frontal-type storms that produce heavy runoff from large areas. A few floods are caused by local summer thunderstorms. Floods in the region are generally flashy with peaks lasting a short time.

NORTH COAST REGION

The north coast reegion (B) includes streams that drain into the Pacific Ocean between San Francisco Bay on the south and the Klamath River basin on the north plus streams that drain from the west into the Sacramento River south of the Clear Creek basin (pl. 1). The climate of the region ranges from subhumid to humid, with marked wet and dry seasons. The altitude ranges from sea level to more than 8,000 feet. Floods within the region are also caused by winter frontal-type storms, which cover large areas. Peaks from these floods generally last a short time.

REGRESSION EQUATIONS

Standard multiple-regression techniques as described by Benson (1962 and 1964) were used in analyzing the available flood data. As a result, equations relating floods of selected frequencies to selected

hydrologic characteristics have been developed for each flood-frequency region.

Drainage area, altitude, and mean annual precipitation were used at all selected recurrence intervals from 1.2 to 50 years to derive regression equations for use in region A. The equations are:

$$Q_{1.2}=0.0014A^{0.54}E^{-0.67}P^{2.94} \quad (2)$$
$$Q_{2.33}=0.0778A^{0.66}E^{-0.59}P^{2.20} \quad (3)$$
$$Q_{5}=1.02A^{0.67}E^{-0.44}P^{1.66} \quad (4)$$
$$Q_{10}=5.12A^{0.65}E^{-0.28}P^{1.32} \quad (5)$$
$$Q_{25}=21.4A^{0.63}E^{-0.09}P^{1.05} \quad (6)$$
$$Q_{50}=137A^{0.55}E^{-0.02}P^{0.72} \quad (7)$$

Drainage area and mean annual precipitation were used to derive regression equations for recurrence intervals from 1.2 to 50 years for use in region B. The equations are:

$$Q_{1.2}=0.155A^{0.80}P^{1.61} \quad (8)$$
$$Q_{2.33}=1.74A^{0.77}P^{1.25} \quad (9)$$
$$Q_{5}=3.06A^{0.77}P^{1.21} \quad (10)$$
$$Q_{10}=3.68A^{0.78}P^{1.22} \quad (11)$$
$$Q_{25}=3.57A^{0.79}P^{1.27} \quad (12)$$
$$Q_{50}=7.67A^{0.79}P^{1.14} \quad (13)$$

Equations 2 to 13 are shown in nomograph form on figures 2 to 13. Use of the nomographs is described in the section "Illustrative problem."

A summary of the regression equations is shown in table 1. The number of stations used to define the equation, the values of the regression constant and coefficients, the multiple-correlation coefficient, and the standard error is shown for each equation.

The standard error of estimate, here referred to as standard error, is a measure of the departure of the computed flood magnitudes from those observed. The computed standard errors ranged from 51 to 161 percent for region A and from 24 to 35 percent for region B. The percentages are the average of the plus and minus percentages computed from the standard errors in log units.

The coefficient of multiple correlation is determined by the ratio of the standard error of the estimated values to the standard deviation of the observed or original values of the dependent variable. It is a measure of the combined importance of the independent variables in explaining the variation in the dependent variable. A value of 1.0 would indicate a perfect correlation, whereas a value of 0 would indicate no correlation. The computed coefficients ranged from 0.605 to 0.841 for region A and from 0.965 to 0.978 for region B.

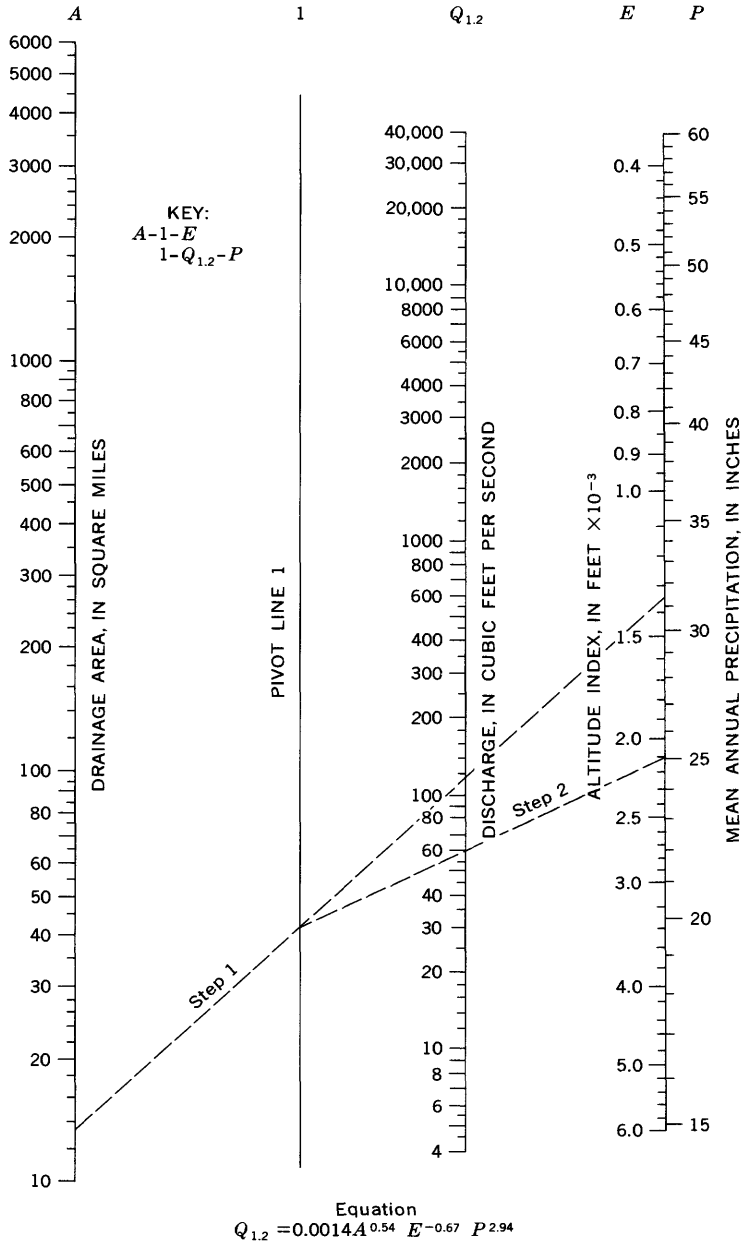

FIGURE 2.—Nomograph for computing 1.2-year flood in region A.

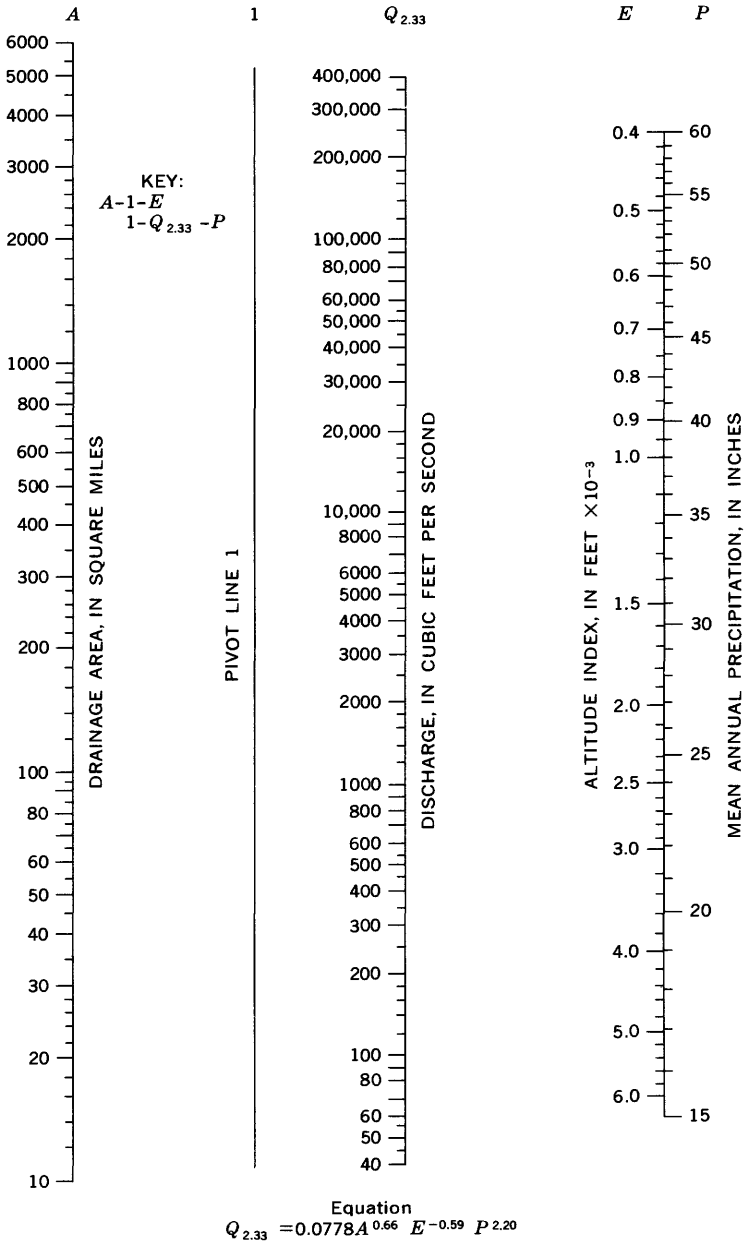

FIGURE 3.—Nomograph for computing 2.33-year flood in region A.

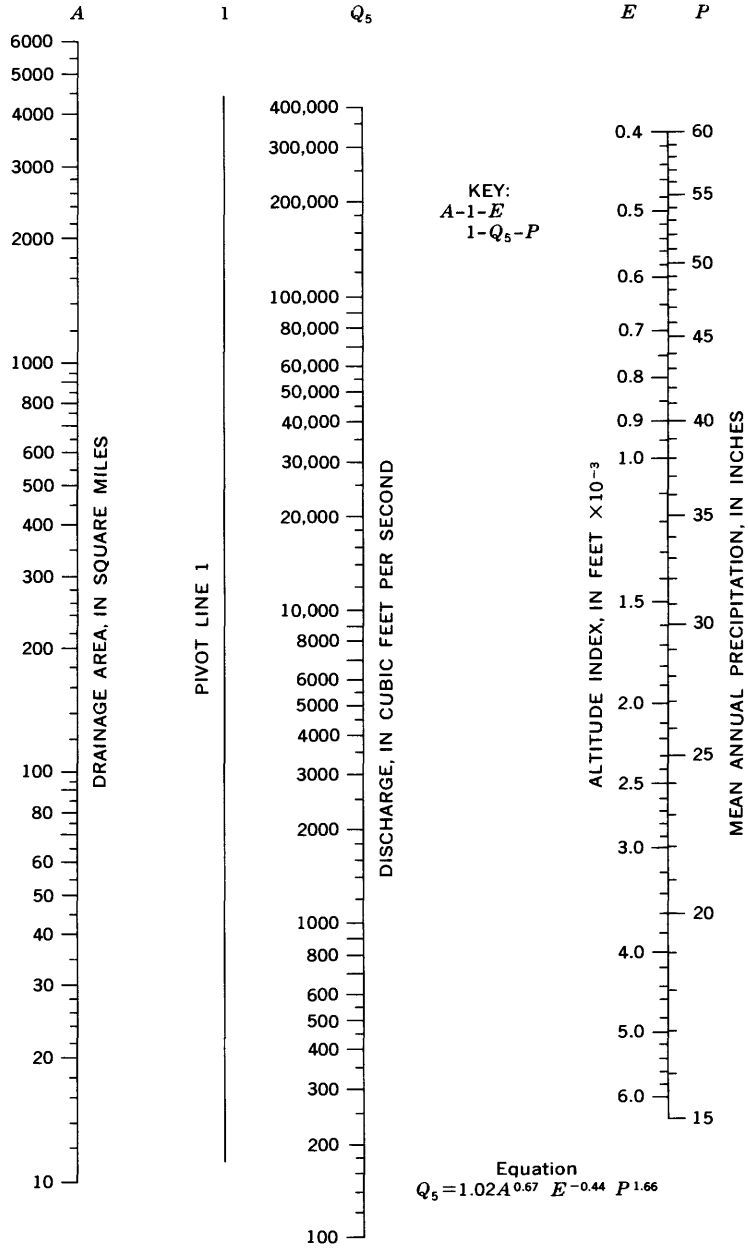

FIGURE 4.—Nomograph for computing 5-year flood in region A.

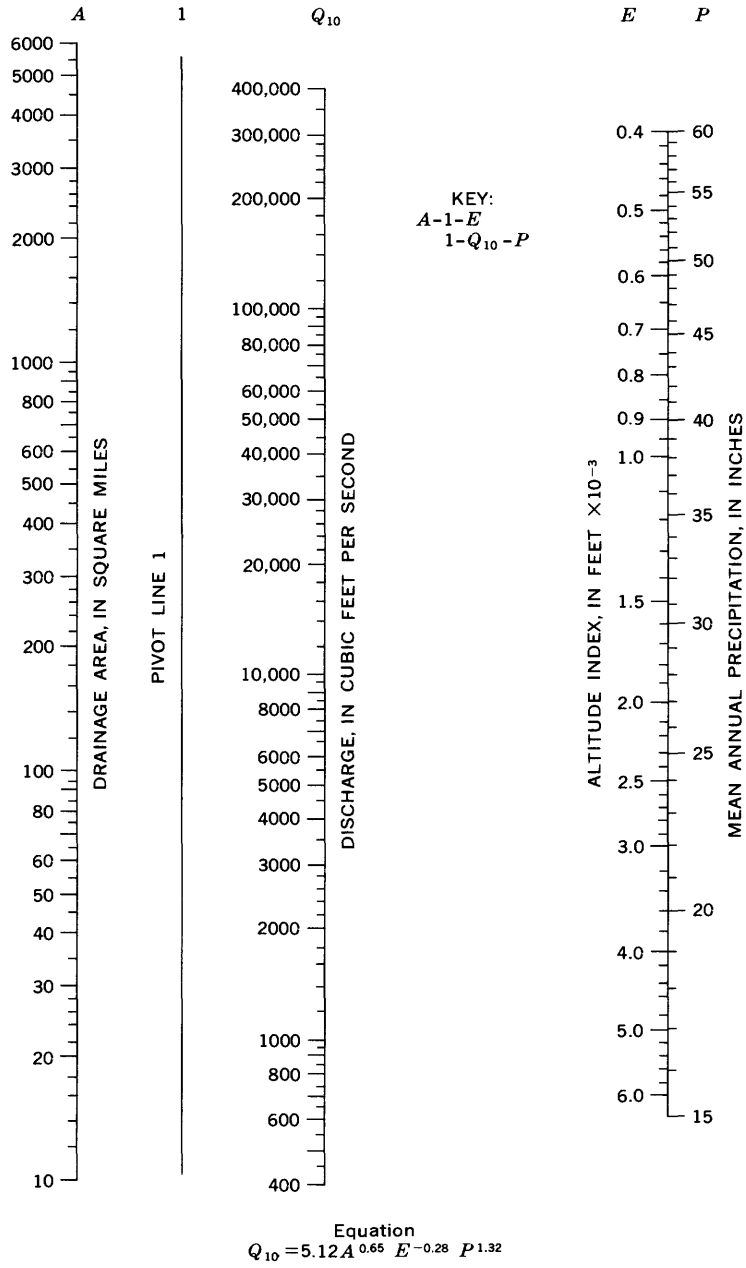

FIGURE 5.—Nomograph for computing 10-year flood in region A.

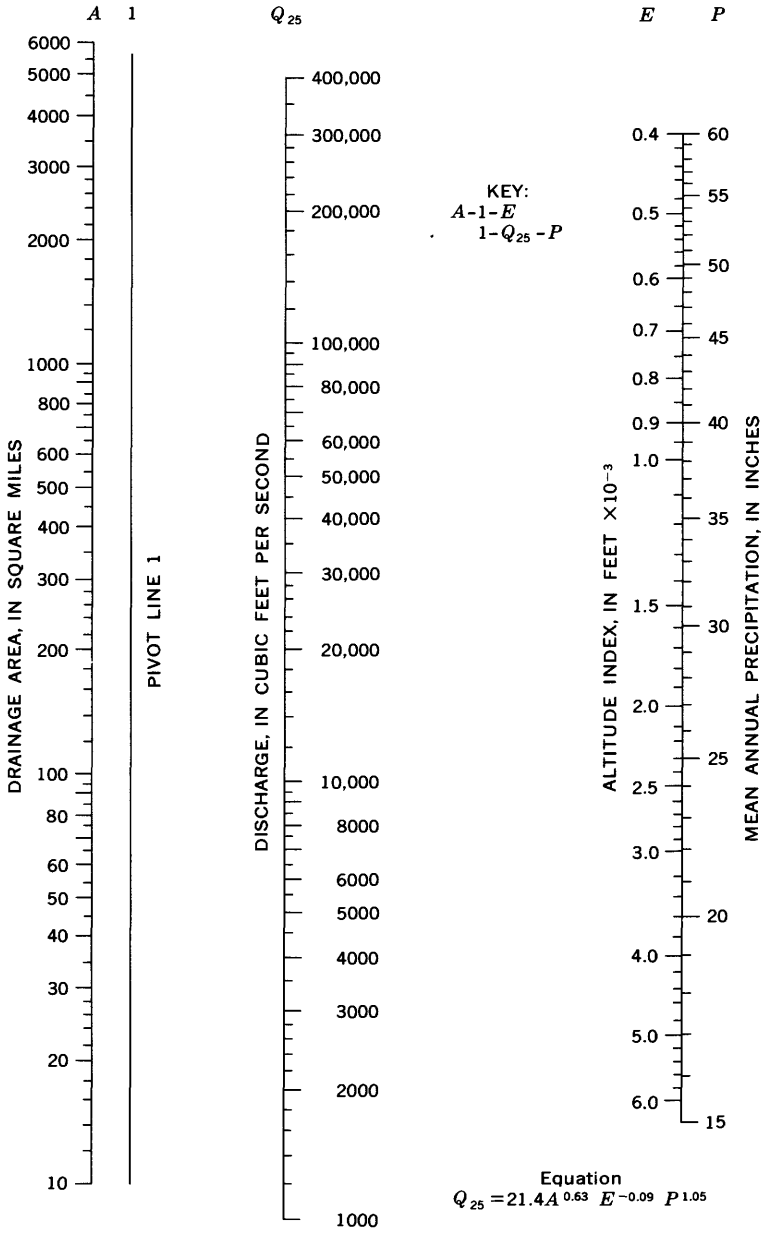

FIGURE 6.—Nomograph for computing 25-year flood in region A.

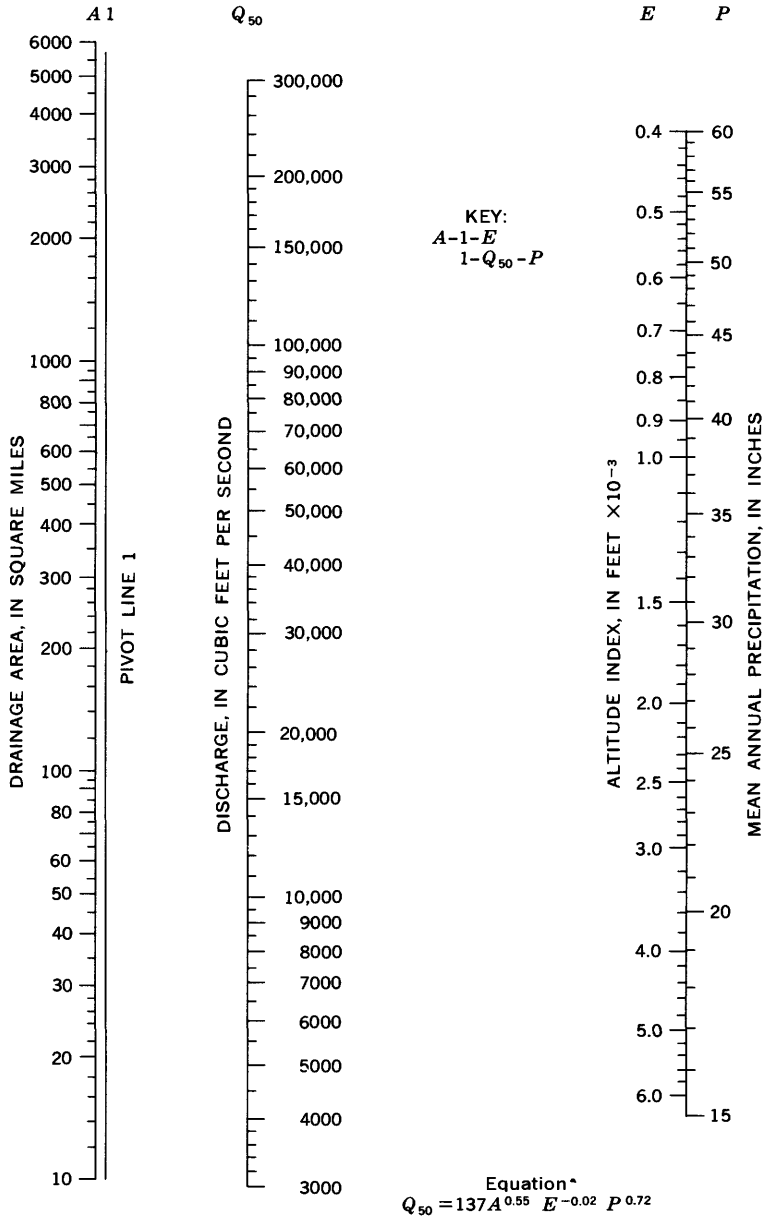

FIGURE 7.—Nomograph for computing 50-year flood in region A.

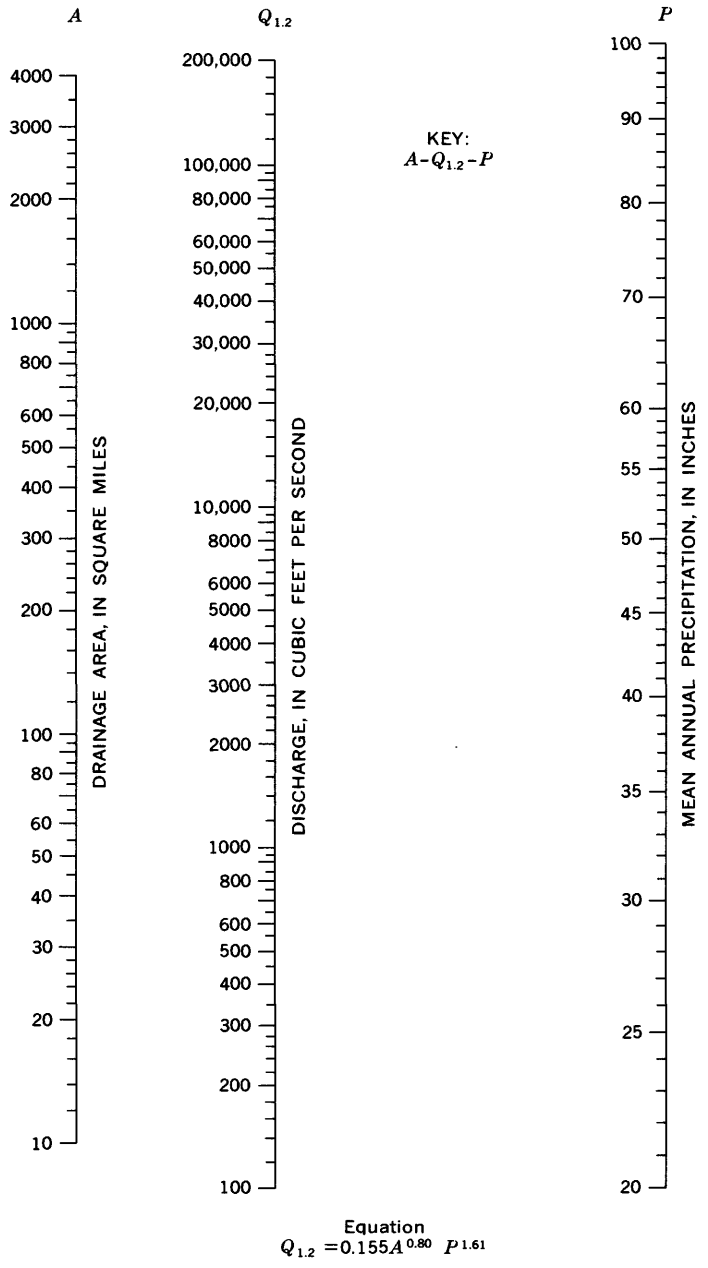

FIGURE 8.—Nomograph for computing 1.2-year flood in region B.

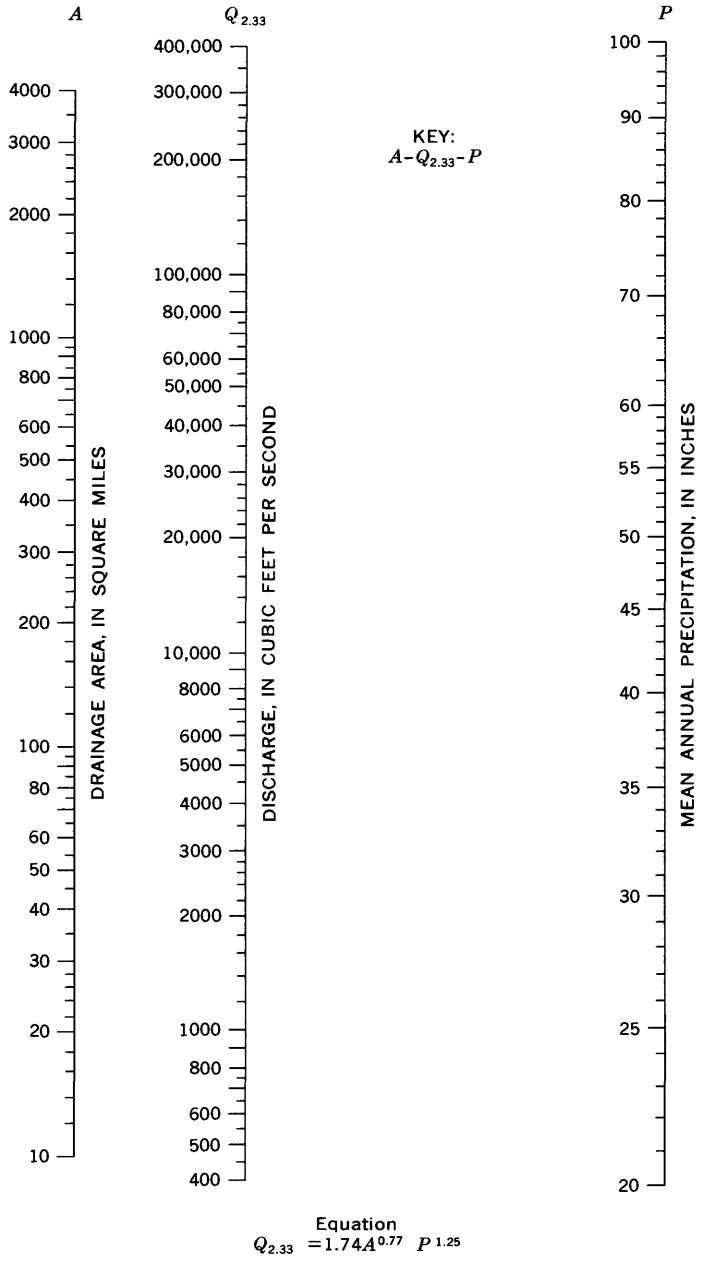

FIGURE 9.—Nomograph for computing 2.33-year flood in region B.

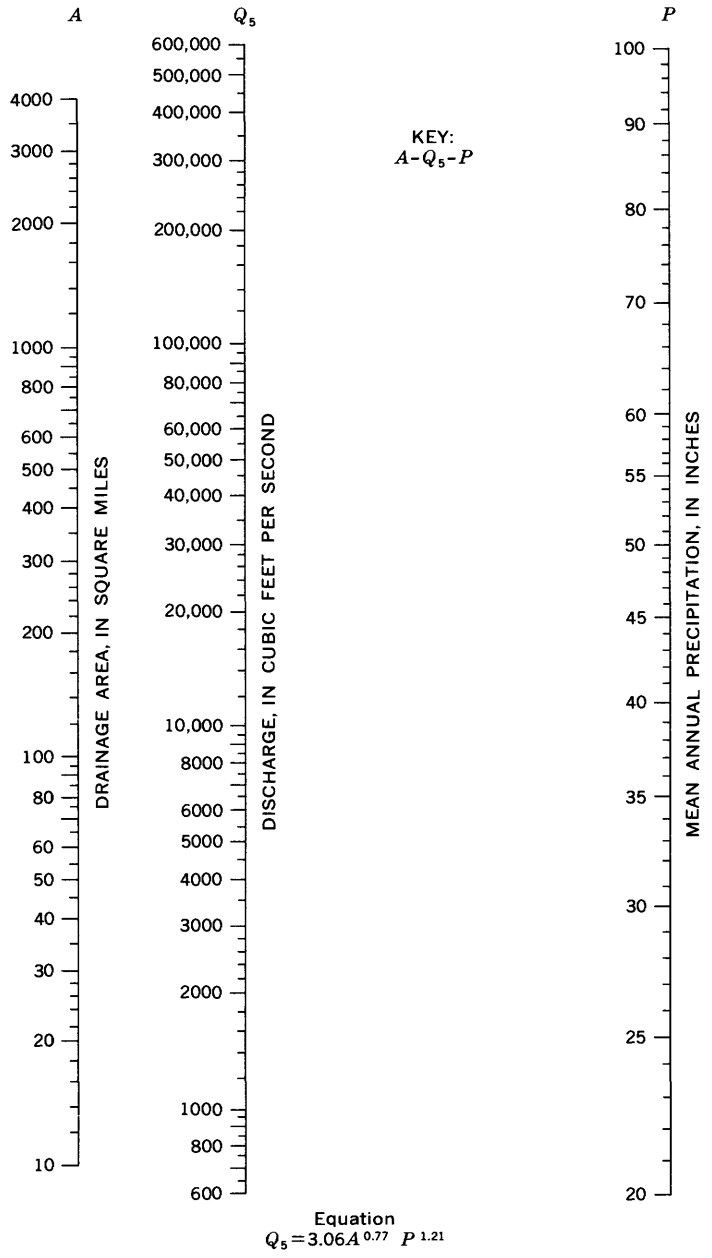

FIGURE 10.—Nomograph for computing 5-year flood in region B.

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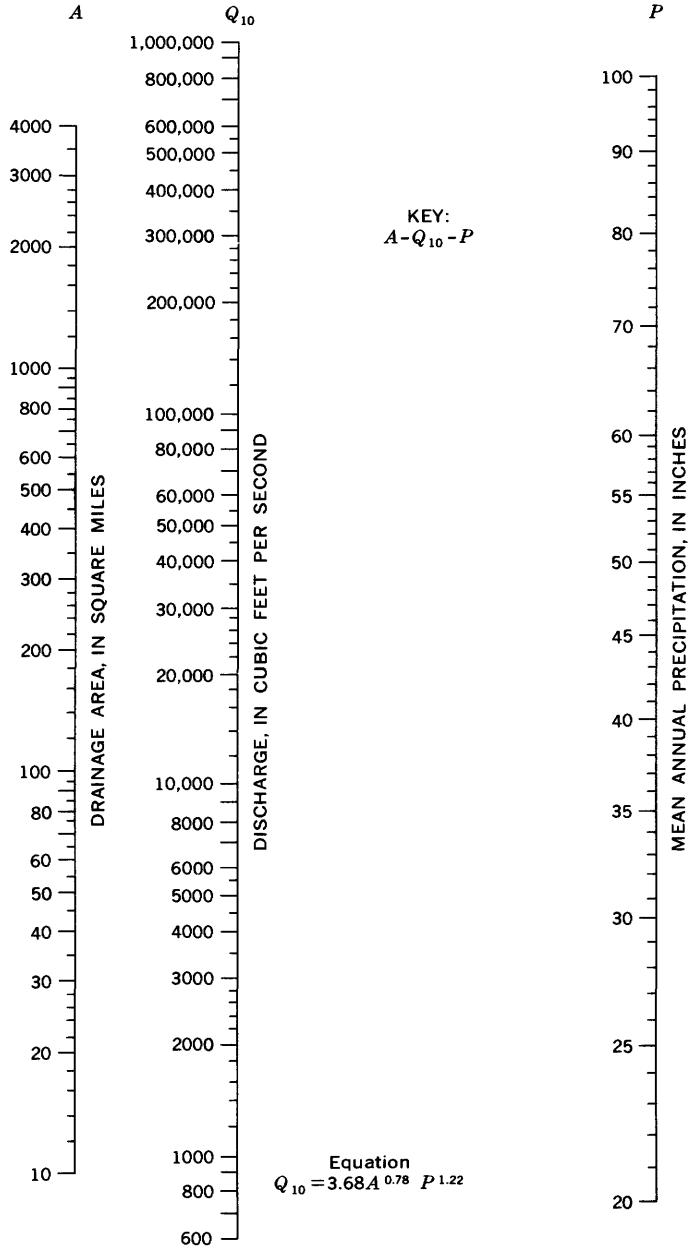

FIGURE 11.—Nomograph for computing 10-year flood in region B.

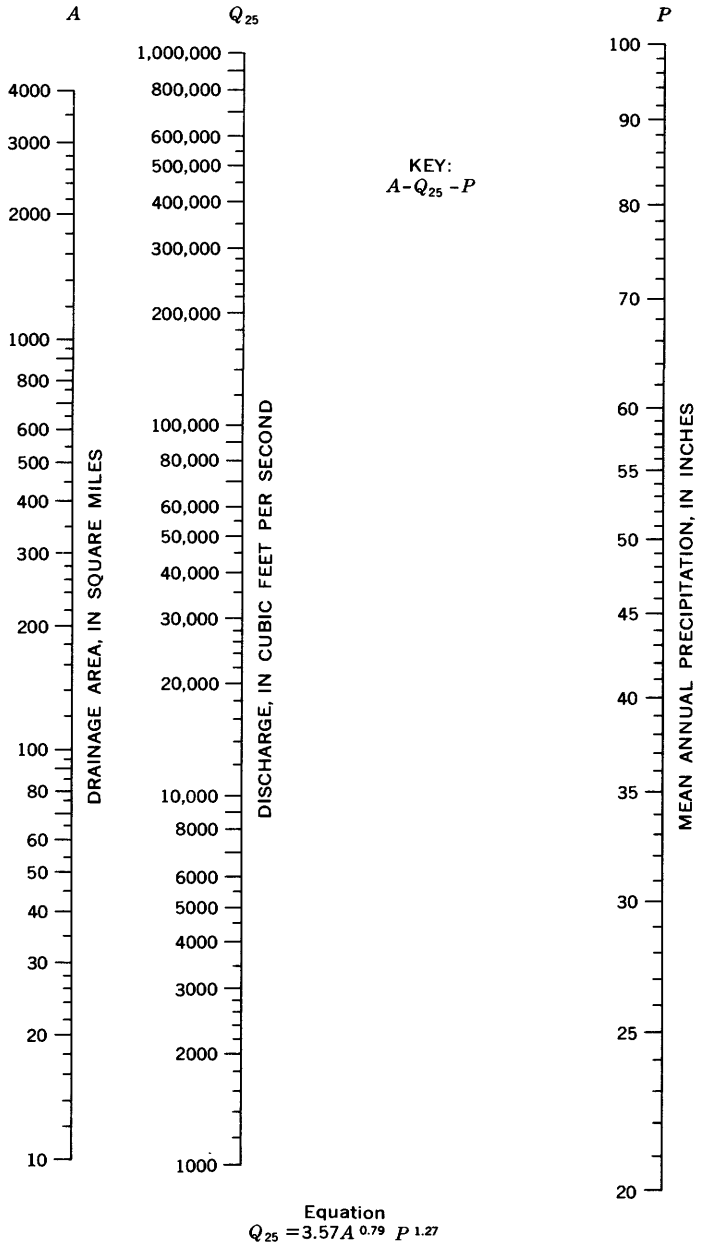

FIGURE 12.—Nomograph for computing 25-year flood in region B.

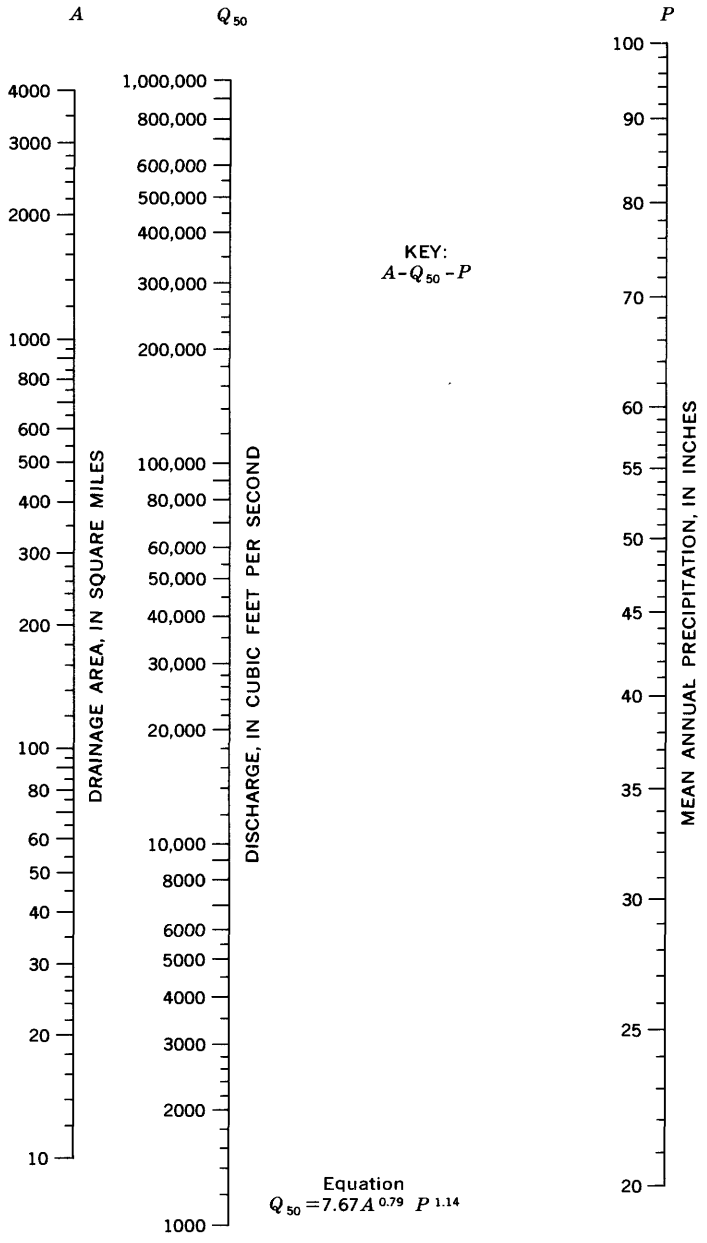

FIGURE 13.—Nomograph for computing 50-year flood in region B.

TABLE 1.—*Summary of regression equations*

[T=recurrence interval, in years. Number of stations shown is number used to determine regression equation $Q_T = aA^bE^cP^d$. Independent variables: A=drainage area, E=basin-altitude index, P=mean annual precipitation]

T	Number of stations	Regression constant a	Regression coefficients b	c	d	Coefficient of multiple correlation	Standard error (percent)
Region A							
[Independent variables: A, E, P]							
1.2	105	0.0014	0.54	−0.67	2.94	0.60	161
2.33	105	.0778	.66	−.59	2.20	.78	77
5	105	1.02	.67	−.44	1.66	.83	58
10	105	5.12	.65	−.28	1.32	.84	55
25	97	21.4	.63	−.09	1.05	.82	55
50	61	137	.55	−.02	.72	.81	51
Region B							
[Independent variables: A, P]							
1.2	33	0.155	0.80		1.61	0.96	35
2.33	33	1.74	.77		1.25	.97	27
5	33	3.06	.77		1.21	.98	26
10	33	3.68	.78		1.22	.98	25
25	33	3.57	.79		1.27	.98	27
50	19	7.67	.79		1.14	.97	24

PROCEDURE FOR ESTIMATING FLOOD FREQUENCY

The equations presented in this report should not be used individually to determine the flood discharge for any selected recurrence interval. Instead, a flood magnitude-frequency relation should be developed by solving the equations for each flood level (recurrence intervals 1.2, 2.33 . . . 50 years) and plotting each computed discharge as a function of its frequency on probability paper. Any probability paper with frequency expressed either as a recurrence interval, T, or as probability of recurrence, p, where

$$p = \frac{1}{T}$$

can be used. Because of the inherent scatter in the data used to develop the equations, the plotted points may not lie on a smooth curve. A smooth curve, fitted by eye as closely as possible to the plotted points, should be drawn and used to represent the flood magnitude-frequency relation.

The general procedures in defining a flood-frequency relation for a site, gaged or ungaged, in the report area are:

1. Determine the hydrologic region in which the site is located by referring to plate 1.

2. Determine the significant hydrologic characteristics for the site: A, E, and P if in region A, or A and P if in region B. A and E are determined from topographic maps, and P is determined from plate 2.
3. Solve the equations or nomographs, applicable to the region—equations 2 to 7 if in region A and equations 8 to 13 if in region B.
4. Plot the computed flood discharges as a function of their frequencies on probability paper.
5. Draw a smooth curve through the plotted points.

ILLUSTRATIVE PROBLEM

To illustrative the computation procedure, assume that one is interested in the annual peak discharge having a recurrence interval of 50 years at gaging station 11–1195. The method used to determine this discharge is outlined below:

1. Determine the hydrologic region in which the site is located. It is in region A.
2. Determine the significant hydrologic characteristics for the site. In this example A, E, and P are used, where $A=13.1$ square miles, $E=1.34$, and $P=25$ inches.
3. From the equations or nomographs for region A, the discharges for the several recurrence intervals are determined. The nomographs are used by drawing a series of straight lines as indicated by the key on the nomograph. Figure 2, the nomograph for the 1.2-year flood in region A, is used here to illustrate the procedure. The key given on figure 2 indicates that the first step is to draw a straight line between the A and E scales, intersecting these scales at the appropriate values for the basin under study. The second step, according to the key, is to draw a straight line intersecting the pivot line (1) and the P scale. This line is drawn to intersect the pivot line at the same point as the line from the first step and to intersect the P scale at the appropriate precipitation value. The intercept of this line on the $Q_{1.2}$ scale is the discharge in cubic feet per second (cfs). In this way the various discharges were determined, as follows: $Q_{1.2}=60$ cfs, $Q_{2.33}=422$ cfs, $Q_5=1{,}040$ cfs, $Q_{10}=1{,}790$ cfs, $Q_{25}=3{,}130$ cfs, and $Q_{50}=5{,}060$ cfs.
4. Plot the discharges as a function of their recurrence interval, or probability of recurrence, and draw a smooth line through the points. Figure 14 shows the plot for this sample problem.
5. From figure 14 the discharge having a recurrence interval of 50 years is found to be 5,000 cfs.

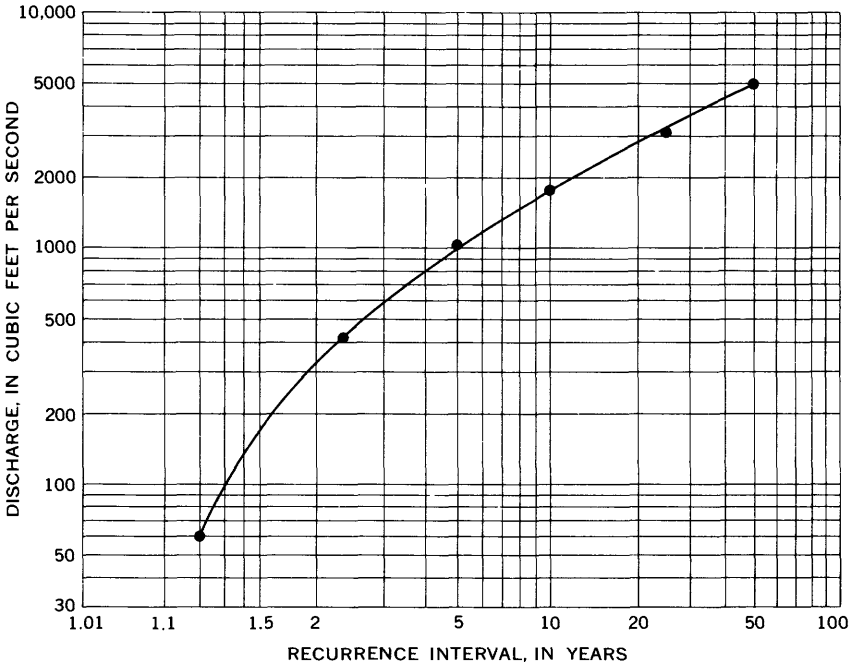

FIGURE 14.—Flood magnitude-frequency curve for stream-gaging station in illustrative problem.

The graph in figure 14 can also be used to determine the recurrence interval of any known discharge within the limits of the data. For example, from figure 14 the recurrence interval of a flood peak of 2,500 cfs at the gaging station is found to be 16 years.

LIMITATIONS

In using the methods presented in this report for determining flood magnitude-frequency relations, there are some limitations that should be considered. The limitation of primary importance is that the equations or nomographs apply only to sites within the hydrologic regions for which they were derived. Also, the procedure is not applicable to sites where the usable storage within the basin exceeds 4.5 million cubic feet (103 acre-feet) per square mile or where the site is just downstream from a large reservoir, even though the storage limitation is not exceeded. Furthermore, the procedure should not be used for sites where the drainage area is less then 10 square miles.

The relations were derived on the basis of hydrologic characteristics whose range in magnitude lay within limits imposed by the available

data. The limits for region A are: drainage area 10 to 4,200 square miles, altitude index 1.32 to 6.0, and mean annual precipitation 14 to 51 inches. For region B the limits are: drainage area 18 to 3,200 square miles and mean annual precipitation 28 to 82 inches.

It is emphasized that the outlined procedures for defining flood-frequency relations are valid for sites for which the hydrologic characteristics have values within the limits given above; use under any other conditions may lead to erroneous results. The methods presented should only be used for flood magnitude-frequency definition for recurrence intervals ranging between 1.2 and 50 years.

DISCUSSION OF RESULTS

Table 1 indicates that the small floods—those that have a recurrence interval less than 5 years—cannot be estimated as reliably as the large floods. The reason in part is that for small floods the runoff is often generated in only a part of the drainage basin. The large floods usually result from more general storms which cause runoff from most or all of the basin, and therefore more consistent results are obtained for the large floods.

The median of the ratios of observed to computed flood values at each site for the selected T-year floods was used as an indication of the reliability of the regional analysis. As a final step, the median values were plotted on maps for each region and were found to be randomly distributed geographically above and below the value of 1.0. For most stations the variation was within a reasonable range, but for a few stations the median values departed greatly from 1.0. The extreme departures also were randomly distributed geographically above and below the value of 1.0.

For a few stations, flood-frequency relations computed by the regional method will give results considerably different than would be obtained by a single station analysis. For some stations, the difference may be due to a record being too short to give true results when used in a single station analysis. For other stations, the difference may be due to failure to consider some pertinent variable that differs from that of other streams in the region. Furthermore, the variable may be such that it cannot now be readily expressed numerically; for example, the infiltration characteristics of the basin, which in this study were hopefully believed to have been accounted for in the delineation of regional boundaries.

As more gaging stations are installed in different areas where varying hydrologic characteristics will be sampled and as the period of record at existing gaging stations grows longer, more information

will be available that will better define the flood magnitude-frequency relation. An example is the December 1964 flood. In some areas this flood was considerably greater than any flood previously recorded; this caused the magnitude-frequency relation for many stations to differ from the relation that would have been obtained had the analysis been made before the flood.

The hydrologic characteristics in the final equations represent the smallest number of easily definable hydrologic characteristics that together best define the peak flows. As it becomes possible to evaluate numerically more hydrologic characteristics (such as geology, soil type, and physiography), it may be possible to use some of these variables for further refinement of the analysis in this report.

FLOOD RECORDS AT GAGING STATIONS AND MISCELLANEOUS SITES

A summary of pertinent data relative to maximum known floods in the report area prior to October 1965 is contained in tables 2, 3, and 4: table 2 for gaging stations used in the analysis, table 3 for gaging stations having more than 5 years of record prior to October 1963 but not used in the analysis, and table 4 for miscellaneous sites and gaging stations having less than 5 years of record prior to October 1963. The stations are listed by their permanent network numbers. Those listed in tables 2 and 3 are shown on plate 1. The part number has been omitted from the number in all tables, it being understood that all of the stations are in Part 11. The miscellaneous (M) sites in table 4 have been numbered consecutively in a downstream order beginning with M1.

Following the tables is a compilation of flood peaks for each of the stations listed in tables 2 and 3. All available annual maximum flood peaks are listed for each station and, in addition, all flood peaks above a selected base discharge are listed for those years for which the data were readily available. For stations where the flood flow is affected by regulation or diversion, or where records are inadequate to define secondary peaks, only the annual maximum flood data are presented.

Underlines in the tabular data have the following significance:

1. A horizontal line in the water-year column indicates discontinuous records.
2. A line across the gage-height column indicates a change in gage datum and thereby shows that the gage heights above and below the line are not comparable. No lines are used if gage heights have been adjusted to a common datum.
3. Lines across the date and discharge columns indicate a change in site of sufficient magnitude to affect the stage-discharge relation.

Accompanying each list of flood data are descriptive and historical data pertaining to the gage site. These data show the most recent gage location; the type and history of the gage; the drainage area above the gage; a description of how the stage-discharge relation was defined; and when available, the bankfull stage, historical flood data, and other miscellaneous information that might be of use to persons interested in flood magnitude and frequency.

Table 2.--Maximum and mean annual floods and hydrologic characteristics at gaging stations used to define regional flood-frequency relations

No.	Gaging station	Flood region	Drainage area (sq mi)	Altitude index ($ft \times 10^{-3}$)	Mean annual precip-itation (inches)	Period of known floods (water years)	Areal $Q_{2.33}$ (cfs)	Maximum flood				
								Date	Gage height (feet)	Discharge		
										Cfs	Cfs per sq mi	Recur-rence interval (years)
	Otay River basin											
140	Jamul Creek near Jamul, Calif...	A	70.3	1.52	17	1938-65	500	March 1938 Dec. 1, 1947	8.0 5.42	- 4,000	- 56.9	- 14
	Sweetwater River basin											
150	Sweetwater River near Descanso, Calif.	A	45.5	3.85	28	1906-27, 1957-65	660	Feb. 16, 1921	13.2	11,200	246	47
	San Diego River basin											
225	San Diego River near Santee, Calif.	A	377	1.68	20	1915-65	2,250	Jan. 27, 1916	25.1	70,200	186	*2.30
	San Dieguito River basin											
240	Santa Ysabel Creek near Mesa Grande, Calif.	A	54.0	2.88	29	1914-24, 1937-53	960	Jan. 27, 1916	11.0	21,100	391	*1.61
255	Santa Ysabel Creek near Ramona, Calif.	A	112	2.30	27	1913-22, 1944-65	1,520	Jan. 27, 1916	14.0	28,400	254	*1.49
270	Guejito Creek near San Pasqual, Calif.	A	22.5	2.00	20	1947-65	300	Apr. 3, 1958	5.83	1,660	73.8	10
285	Santa Maria Creek near Ramona, Calif.	A	57.6	1.86	19	1914-20, 1947-65	500	Jan. 27, 1916	15.9	7,140	124	32
	San Luis Rey River basin											
400	San Luis Rey River at Monserate Narrows, near Pala, Calif.	A	373	1.40	25	1936-37, 1939-41, 1947-65	2,030	Feb. 7, 1937 Apr. 3, 1958	8.7 -	- 1,990	- 5.34	- 2
410	San Luis Rey River near Bonsall, Calif.	A	512	1.22	22	1891,1915, 1918,1930-65	2,600	February 1891	-	128,000	250	*3.46
	Santa Margarita River basin											
425.2	Temecula Creek at Nigger Canyon, near Temecula, Calif.	A	320	2.80	16	1923-48	810	Feb. 16, 1927	19.5	17,100	53.4	34
430	Murrieta Creek at Temecula, Calif.	A	222	1.81	15	1931-65	720	Jan. 23, 1943	13.82	17,500	78.8	48
440	Santa Margarita River near Temecula, Calif.	A	588	2.58	16	1923-65	1,330	Feb. 16, 1927	14.6	25,000	42.5	34
445	Santa Margarita River near Fallbrook, Calif.	A	644	1.96	16	1925-65	1,600	Feb. 16, 1927	15.6	33,100	51.4	43
449	De Luz Creek near Fallbrook, Calif.	A	47.5	.95	21	1952-65	830	Jan. 16, 1952 Apr. 1, 1958	12.50 -	- 2,800	- 58.9	- 7
460	Santa Margarita River at Ysidora, Calif.	A	739	1.73	17	1924-27, 1931-65	2,180	Feb. 16, 1927	18.00	33,600	45.5	39

						Las Flores Creek basin						
461	Las Flores Creek near Oceanside, Calif.	A	26.6	0.40	15	1952-65	460	Jan. 16, 1952	4.75	960	36.1	4
						San Onofre Creek basin						
462	San Onofre Creek near San Onofre, Calif.	A	34.6	0.92	15	1951-65	330	Apr. 1, 1958 Jan. 6, 1959	- 5.94	2,680 -	77.5 -	15 -
						San Mateo Creek basin						
463	San Mateo Creek near San Clemente, Calif.	A	80.8	1.29	20	1953-65	880	Apr. 1, 1958	9.10	4,800	59.4	11
463.5	Cristianitos Creek near San Clemente, Calif.	A	29.0	.61	15	1951-65	380	Jan. 16, 1952 Apr. 1, 1958	- 7.48	1,800 -	62.1 -	9 -
						San Juan Creek basin						
465	San Juan Creek near San Juan Capistrano, Calif.	A	106	1.30	19	1929-65	940	Mar. 2, 1938	-	13,000	123	44
470	Arroyo Trabuco near San Juan Capistrano, Calif.	A	35.7	1.22	20	1932-65	550	Feb. 6, 1937 Mar. 2, 1938	- 7.50	9,240 -	259 -	*1.16 -
						Peters Canyon Wash basin						
485	San Diego Creek near Irvine, Calif.	A	40.3	0.58	14	1950-65	400	Jan. 18, 1952	7.70	4,040	100	24
						Santa Ana River basin						
540	Mill Creek near Yucaipa, Calif.	A	38.1	5.97	30	1920-38, 1948-65	570	Mar. 2, 1938	-	18,100	475	*1.52
555	Plunge Creek near East Highlands, Calif.	A	17.1	3.42	30	1920-65	425	Mar. 2, 1938	-	5,340	312	35
570	San Timoteo Creek near Redlands, Calif.	A	119	2.92	17	1927-65	490	Mar. 2, 1938	-	7,460	62.7	24
620	Lytle Creek near Fontana, Calif.	A	46.3	4.36	33	1920-21, 1926-27, 1931-38, 1943,1947-65	890	Mar. 2, 1938	-	25,200	544	*1.89
630	Cajon Creek near Keenbrook, Calif.	A	40.6	3.67	19	1920-65	260	Mar. 2, 1938	-	14,500	357	*1.99
635	Lone Pine Creek near Keenbrook, Calif.	A	15.1	4.43	19	1920-38, 1950-65	130	Mar. 2, 1938	-	6,180	409	*1.34
665	Santa Ana River at Riverside Narrows, near Arlington, Calif.	A	851	3.59	24	1928-65	3,350	Mar. 2, 1938	-	100,000	118	*1.79
700	Bautista Creek near Hemet, Calif.	A	39.4	3.18	17	1948-65	220	Apr. 3, 1958	4.65	1,440	36.5	8
730	San Antonio Creek near Claremont, Calif.	A	16.9	5.42	34	1918-65	420	Mar. 2, 1938	-	21,400	1,266	*2.97
734.7	Cucamonga Creek near Upland, Calif.	A	10.1	4.30	35	1928-65	385	Mar. 2, 1938	-	10,300	1,020	*1.89
735	Chino Creek near Prado, Calif...	A	141	2.55	17	1929-40	590	Mar. 2, 1938	-	5,200	36.9	13
770	Santiago Creek near Villa Park, Calif.	A	84.6	2.06	22	1921-63	850	Feb. 16, 1927 Jan. 16, 1952	- 9.40	11,000 -	130 -	35 -

* Ratio of peak discharge to that of 50-year flood.

Table 2.--Maximum and mean annual floods and hydrologic characteristics at gaging stations used to define regional flood-frequency relations--Continued

No.	Gaging station	Flood region	Drainage area (sq mi)	Altitude index (ft x 10^{-3})	Mean annual precipitation (inches)	Period of known floods (water years)	Areal $Q_{2.33}$ (cfs)	Maximum flood				
								Date	Gage height (feet)	Discharge		
										Cfs	Cfs per sq mi	Recurrence interval (years)
	San Gabriel River basin											
805	East Fork San Gabriel River near Camp Bonita, Calif.	A	88.2	3.65	31	1933-65	1,300	Mar. 2, 1938	-	46,000	522	*2.67
820	West Fork San Gabriel River at Camp Rincon, Calif.	A	104	3.04	35	1928-65	2,130	Mar. 2, 1938	-	34,000	327	*1.48
835	San Gabriel River near Azusa, Calif.	A	214	3.28	33	1901,1910-11, 1914-65	2,850	Mar. 2, 1938	-	65,700	307	*1.90
870	San Jose Creek near Whittier, Calif.	A	88.7	1.20	18	1914,1929-64	760	Jan. 1, 1934	12.12	13,100	148	*1.04
890	Brea Creek at Fullerton, Calif..	A	23.6	.60	15	1932-65	340	Mar. 14, 1941	5.45	3,700	157	28
905	Coyote Creek near Artesia, Calif	A	122	.43	15	1931-63	1,170	Jan. 18, 1952	14.30	7,360	60.3	16
	Los Angeles River basin											
930	Pacoima Creek near San Fernando, Calif.	A	28.5	3.16	25	1914,1917-27, 1931-65	435	February 1914	-	5,400	189	30
940	Tujunga Creek below Mill Creek, near Colby Ranch, Calif.	A	64.9	3.60	24	1948-65	620	Feb. 11, 1962	10.90	2,860	44.1	8
955	Tujunga Creek near Sunland, Calif.	A	106	2.76	29	1917-65	1,570	Mar. 2, 1938	-	50,000	472	*2.62
965	Little Tujunga Creek near San Fernando, Calif.	A	21.1	1.64	27	1914,1929-65	600	Mar. 2, 1938	-	8,500	403	*1.17
980	Arroyo Seco near Pasadena, Calif.	A	16.0	2.60	28	1914-65	435	Mar. 2, 1938	-	8,620	539	*1.39
	Topanga Creek basin											
1040	Topanga Creek near Topanga Beach, Calif.	A	18.0	0.63	23	1930-65	670	Dec. 21, 1933 Mar. 2, 1938	11.27 -	- 7,960	- 442	- *1.28
	Malibu Creek basin											
1055	Malibu Creek at Carter Camp, near Calabasas, Calif.	A	105	0.96	20	1931-65	1,250	Mar. 15, 1952	19.1	13,560	129	43
	Santa Clara River basin											
1080	Santa Clara River near Saugus, Calif.	A	411	2.24	15	1930-55	980	Mar. 2, 1938	-	24,000	58.4	49
1085	Santa Clara River at Los Angeles-Ventura County line, Calif.	A	644	2.00	16	1953-65	1,580	Feb. 11, 1962	9.65	9,100	14.6	8
1100	Piru Creek near Piru, Calif.....	A	437	2.92	18	1933-56	1,300	Mar. 2, 1938	-	35,600	82.4	*1.21
1105	Hopper Creek near Piru, Calif...	A	23.6	1.89	22	1934-65	385	Mar. 2, 1938	-	8,000	339	*1.16
1115	Sespe Creek near Wheeler Springs, Calif.	A	49.5	4.20	29	1949-65	720	Feb. 10, 1962	10.6	3,800	76.8	10
1130	Sespe Creek near Fillmore, Calif.	A	251	2.76	28	1933-65	2,450	Mar. 2, 1938	-	56,000	223	*1.71
1135	Santa Paula Creek near Santa Paula, Calif.	A	40.0	2.78	28	1933-65	740	Mar. 2, 1938	10.56	13,500	338	*1.23

	Ventura River basin											
1155	Matilija Creek at Matilija Hot Springs, Calif.	A	54.6	2.71	35	1933-65	1,500	Mar. 2, 1938	-	15,900	291	*1.03
1160	North Fork Matilija Creek at Matilija Hot Springs, Calif.	A	15.6	2.02	31	1934-65	580	Mar. 2, 1938	-	5,580	358	34
1175	San Antonio Creek at Casitas Springs, Calif.	A	51.2	1.36	23	1950-65	870	Jan. 15, 1952	13.1	-	-	-
								Apr. 3, 1958	-	5,240	102	16
1180	Coyote Creek near Ventura, Calif.	A	41.2	2.26	25	1935-58	660	Mar. 2, 1938	12.00	11,500	279	*1.08
1185	Ventura River near Ventura, Calif.	A	188	2.09	27	1933-65	2,250	Mar. 2, 1938	19.2	39,200	208	*1.57
	Carpinteria Creek basin											
1195	Carpinteria Creek near Carpinteria, Calif.	A	13.1	1.34	25	1941-65	415	Jan. 15, 1952	7.75	2,440	186	16
	Atascadero Creek basin											
1200	Atascadero Creek near Goleta, Calif.	A	18.8	1.42	25	1942-65	530	Jan. 15, 1952	-	4,500	239	27
								Feb. 9, 1962	12.00	-	-	-
	Santa Ynez River basin											
1245	Santa Cruz Creek near Santa Ynez, Calif.	A	73.9	2.26	27	1942-65	1,170	Apr. 3, 1958	10.27	-	-	-
								Feb. 9, 1962	-	4,520	61.2	8
1250	Cachuma Creek near Santa Ynez, Calif.	A	23.8	1.64	25	1951-62	540	Jan. 15, 1952	6.05	4,300	181	21
1265	Santa Agueda Creek near Santa Ynez, Calif.	A	55.8	1.37	20	1941-65	670	Feb. 19, 1958	6.14	5,560	99.6	19
1300	Zaca Creek at Buellton, Calif...	A	39.4	1.42	18	1941-63	420	Mar. 3, 1941	6.60	874	22.2	4
1325	Salsipuedes Creek near Lompoc, Calif.	A	47.1	.62	22	1941-65	1,160	Mar. 15, 1952	20.8	11,400	242	*1.09
1335	Santa Ynez River near Lompoc, Calif.	A	790	1.50	23	1907,1914, 1929-60	4,900	Jan. 9, 1907	22.0	120,000	152	*2.38
	San Antonio Creek basin											
1360	San Antonio Creek at Harris, Calif.	A	93.5	0.73	16	1941-55	830	Mar. 15, 1952	10.19	1,800	19.2	4
	Santa Maria River basin											
1365	Cuyama River near Ventucopa, Calif.	A	89.9	4.32	20	1945-58	465	Jan. 15, 1952	6.3	-	-	-
								Feb. 19, 1958	-	7,210	80.2	24
1370	Cuyama River near Santa Maria, Calif.	A	904	2.27	16	1930-62	1,880	Mar. 3, 1938	16.6	17,300	19.1	14
1375	Alamo Creek near Santa Maria, Calif.	A	86.6	1.26	20	1944-62	930	Jan. 15, 1952	8.00	-	-	-
								Apr. 3, 1958	-	3,120	36.0	6
1380	Huasna River near Santa Maria, Calif.	A	117	.94	20	1930-61	1,430	Feb. 11, 1938	11.26	11,400	97.4	28
1385	Sisquoc River near Sisquoc, Calif.	A	281	2.24	24	1930-65	2,110	Mar. 2, 1938	8.1	11,000	39.1	10
1390	La Brea Creek near Sisquoc, Calif.	A	93.8	1.54	23	1944-65	1,200	Jan. 15, 1952	5.94	3,320	35.4	5

* Ratio of peak discharge to that of 50-year flood.

Table 2.--Maximum and mean annual floods and hydrologic characteristics at gaging stations used to define regional flood-frequency relations--Continued

No.	Gaging station	Flood region	Drainage area (sq mi)	Altitude index (ft x 10-3)	Mean annual precip-itation (inches)	Period of known floods (water years)	Areal $Q_{2.33}$ (cfs)	Maximum flood				
								Date	Gage height (feet)	Discharge		
										Cfs	Cfs per sq mi	Recur-rence interval (years)
	Santa Maria River basin--Continued											
1395	Tepusquet Creek near Sisquoc, Calif.	A	28.6	1.10	22	1944-65	610	Jan. 15, 1952	5.93	-	-	-
								Feb. 9, 1962	-	500	17.5	2
1400	Sisquoc River near Garey, Calif.	A	472	1.79	23	1941-65	3,250	Jan. 23, 1943	8.46	13,000	27.5	8
1410	Santa Maria River at Guadalupe, Calif.	A	1,742	1.84	19	1941-65	4,900	Jan. 16, 1952	8.18	32,800	18.8	12
	Arroyo Grande basin											
1415	Arroyo Grande at Arroyo Grande, Calif.	A	102	0.81	20	1940-65	1,420	Jan. 15, 1952	11.97	5.370	52.6	9
	Arroyo de la Cruz basin											
1425	Arroyo de la Cruz near San Simeon, Calif.	A	41.2	0.42	31	1951-65	2,750	Dec. 23, 1955	12.40	17,700	430	*1.44
	Big Sur River basin											
1430	Big Sur River near Big Sur, Calif.	A	46.5	1.40	51	1951-65	4,400	Apr. 2, 1958	11.56	5,680	122	3
	Salinas River basin											
1435	Salinas River near Pozo, Calif.	A	74.1	1.58	19	1943-65	660	Jan. 21, 1943	13.35	7,210	97.3	25
1470	Jack Creek near Templeton, Calif.	A	25.3	1.32	34	1950-65	1,250	Jan. 25, 1956	9.56	5,040	199	14
1495	Nacimiento River near San Miguel, Calif.	A	343	.96	29	1938-57	6,400	Dec. 23, 1955	13.15	58,600	171	*1.52
1500	San Antonio River at Pleyto, Calif.	A	284	1.20	21	1930-65	2,380	Apr. 3, 1958	6.44	19,100	67.2	25
1520	Arroyo Seco near Soledad, Calif.	A	244	1.24	34	1906-65	5,850	Apr. 3, 1958	14.40	28,300	116	26
1525	Salinas River near Spreckels, Calif.	A	4,156	.78	17	1862,1911, 1914,1930-65	11,100	1862	31	-	-	-
								Feb. 12, 1938	-	75,000	18.0	18
	Pajaro River basin											
1540	Uvas Creek near Morgan Hill, Calif.	A	30.4	0.95	38	1931-63	2,300	Dec. 23, 1955	14.3	10,300	339	35
1565	San Benito River near Willow Creek School, Calif.	A	251	1.95	18	1938-65	1,150	Apr. 3, 1958	8.35	8,210	32.7	12
1575	Tres Pinos Creek near Tres Pinos, Calif.	A	206	1.66	18	1938-65	1,100	Apr. 4, 1941	7.75	8,060	39.1	13
1585	San Benito River near Hollister, Calif.	A	586	1.56	18	1950-65	2,250	Apr. 3, 1958	16.30	11,600	19.8	8
1590	Pajaro River at Chittenden, Calif.	A	1,186	1.36	19	1938-65	4,500	Dec. 24, 1955	-	24,000	20.2	10
								Apr. 3, 1958	33.11	-	-	-

						Soquel Creek basin						
1600	Soquel Creek at Soquel, Calif...	A	40.2	0.84	40	1937,1951-65	3,300	Dec. 23, 1955	22.33	15,800	393	*1.05
						San Lorenzo River basin						
1605	San Lorenzo River at Big Trees, Calif.	A	111	0.54	48	1937-65	11,100	Dec. 23, 1955	22.55	30,400	274	31
1615	Branciforte Creek at Santa Cruz, Calif.	A	17.3	.32	40	1941-43, 1953-65	3,100	Dec. 22, 1955	22.04	8,100	468	30
						Pescadero Creek basin						
1625	Pescadero Creek near Pescadero, Calif.	A	45.9	0.48	38	1952-65	4,400	Dec. 23, 1955	21.27	9,420	205	11
						Guadalupe River basin						
1680	Los Gatos Creek at Los Gatos, Calif.	A	38.6	1.26	48	1930-44, 1954-65	3,600	Feb. 27, 1940	14.71	7,110	184	6
						Coyote Creek basin						
1700	Coyote Creek near Madrone, Calif.	A	196	1.03	25	1903,1905-12, 1917-65	2,950	Mar. 7, 1911	-	25,000	128	49
						Alameda Creek basin						
1790	Alameda Creek near Niles, Calif.	A	633	1.09	22	1892,1917, 1919-65	4,700	Dec. 23, 1955	14.9	29,000	45.8	20
						San Lorenzo Creek basin						
1810	San Lorenzo Creek at Hayward, Calif.	A	37.5	0.45	24	1940,1942, 1947-65	1,410	Dec. 22, 1955 Oct. 13, 1962	20.82 -	- 7,460	- 199	- 26
						Pinole Creek basin						
1821	Pinole Creek at Pinole, Calif...	A	10.0	0.40	22	1939-65	540	Apr. 2, 1958	11.63	1,660	166	8
						Pacheco Creek basin						
1830	San Ramon Creek at Walnut Creek, Calif.	A	50.8	0.51	20	1953-65	1,110	Dec. 23, 1955 Jan. 31, 1963	14.55 -	- 7,980	- 157	- 30
1835	Walnut Creek at Walnut Creek, Calif.	A	79.2	.48	20	1953-65	1,520	Apr. 2, 1958	20.2	12,200	154	46
						Tulare Lake basin						
2245	Los Gatos Creek above Nunez Canyon, near Coalinga, Calif.	A	95.8	1.70	15	1950-65	440	Apr. 3, 1958 Feb. 9, 1962	- 7.25	2,560 2,560	26.7 26.7	8 8
						San Joaquin River basin						
2745	Orestimba Creek near Newman, Calif.	A	134	0.76	16	1932-65	1,020	Apr. 2, 1958 Feb. 1, 1963	- 9.72	10,200 -	76.1 -	28 -
3375	Marsh Creek near Byron, Calif...	A	42.6	.72	16	1954-65	500	Dec. 23, 1955 Jan. 31, 1963	12.98 -	- 3,880	- 91.1	- 18

* Ratio of peak discharge to that of 50-year flood.

Table 2.--Maximum and mean annual floods and hydrologic characteristics at gaging stations used to define regional flood-frequency relations--Continued

No.	Gaging station	Flood region	Drainage area (sq mi)	Altitude index ($ft \times 10^{-3}$)	Mean annual precipitation (inches)	Period of known floods (water years)	Areal $Q_{2.33}$ (cfs)	Maximum flood				
								Date	Gage height (feet)	Discharge		
										Cfs	Cfs per sq mi	Recurrence interval (years)
	Sacramento River basin											
3760	Cottonwood Creek near Cottonwood, Calif.	B	922	-	40	1941-65	33,000	Dec. 22, 1964	19.64	60,000	65.1	8
3795	Elder Creek near Paskenta, Calif.	B	92.9	-	36	1949-65	4,950	Feb. 24, 1958	13.90	11,700	126	19
3805	Elder Creek at Gerber, Calif....	B	136	-	28	1950-65	4,800	Jan. 5, 1965	14.90	14,100	104	*1.01
3820	Thomes Creek at Paskenta, Calif.	B	194	-	35	1921-65	8,600	Dec. 24, 1964	15.32	37,800	195	*1.51
4495	Kelsey Creek near Kelseyville, Calif.	B	36.6	-	45	1947-65	3,200	Dec. 21, 1955	-	8,800	240	33
								Jan. 5, 1965	13.48	-	-	-
4515	North Fork Cache Creek near Lower Lake, Calif.	B	197	-	39	1931-65	9,900	Dec. 11, 1937	12.98	20,300	103	11
4535	Putah Creek near Guenoc, Calif..	B	113	-	52	1904-6, 1931-65	9,300	Dec. 11, 1937	22.7	32,000	283	*1.16
4540	Putah Creek near Winters, Calif.	B	574	-	35	1931-65	19,300	Feb. 27, 1940	29.5	81,000	141	*1.31
	Napa River basin											
4560	Napa River near St. Helena, Calif.	B	81.4	-	48	1930-32, 1940-65	6,600	Dec. 22, 1955	15.17	12,600	155	9
4565	Conn Creek near St. Helena, Calif.	B	52.1	-	35	1930-59	3,050	Feb. 27, 1940	11.80	7,700	148	18
4570	Dry Creek near Napa, Calif.....	B	17.4	-	35	1952-65	1,350	Feb. 24, 1958	8.11	3,460	199	40
	Petaluma River basin											
4590	Petaluma River at Petaluma, Calif.	B	30.9	-	28	1949-63	1,530	Dec. 22, 1955	13.55	1,860	60.2	3
	Corte Madera Creek basin											
4600	Corte Madera Creek at Ross, Calif.	B	18.1	-	42	1952-65	1,750	Dec. 22, 1955	17.45	3,620	200	14
	Russian River basin											
4610	Russian River near Ukiah, Calif.	B	99.7	-	45	1912-13, 1953-65	7,000	Dec. 22, 1964	19.44	17,900	180	25
4615	East Fork Russian River near Calpella, Calif.	B	93.8	-	45	1942-65	6,500	Dec. 22, 1964	20.21	18,700	199	36
4625	Russian River near Hopland, Calif.	B	362	-	40	1938-65	16,700	December 1937	30.0	-	-	-
								Dec. 22, 1955	-	45,000	124	31
4640	Russian River near Healdsburg, Calif.	B	793	-	47	1890,1895, 1938-65	36,000	December 1937	30.8	-	-	-
								Dec. 22, 1964	-	71,300	90	11
4645	Dry Creek near Cloverdale, Calif	B	87.8	-	44	1938,1942-65	6,300	Dec. 22, 1964	18.09	18,100	206	44
4670	Russian River near Guerneville, Calif.	B	1,340	-	42	1861-62,1907, 1914-15,1937, 1940-65	48,000	Dec. 23, 1955	49.7	-	-	-
								Dec. 22, 1964	-	93,400	69.6	11

						Gualala River basin						
4675	South Fork Gualala River near Annapolis, Calif.	B	161	-	60	1951-65	15,000	Dec. 22, 1955	24.57	55,000	342	*1.26
						Navarro River basin						
4680	Navarro River near Navarro, Calif.	B	303	-	50	1938,1951-65	19,100	Dec. 22, 1955	40.60	64,500	213	*1.16
						Noyo River basin						
4685	Noyo River near Fort Bragg, Calif.	B	106	-	55	1952-65	9,600	Dec. 22, 1964	26.30	24,000	226	27
						Mattole River basin						
4690	Mattole River near Petrolia, Calif.	B	242	-	82	1912-13, 1951-65	30,500	Dec. 22, 1955	29.60	90,400	374	*1.05
						Eel River basin						
4729	Black Butte River near Covelo, Calif.	B	162	-	50	1938,1954-65	11,600	Dec. 22, 1964	26.4	29,000	179	26
4730	Middle Fork Eel River below Black Butte River, near Covelo, Calif.	B	367	-	60	1952-65	28,000	Dec. 22, 1964	31.7	132,000	360	*1.53
4740	Eel River below Dos Rios, Calif.	B	1,484	-	60	1912-13, 1952-65	81,000	Dec. 22, 1964	62.5	460,000	310	*1.83
4745	North Fork Eel River near Mina, Calif.	B	250	-	60	1938,1954-65	20,800	Dec. 22, 1964	33.6	133,000	532	*2.15
4755	South Fork Eel River near Branscomb, Calif.	B	43.9	-	78	1947-65	7,550	Dec. 22, 1955	16.20	20,100	458	42
4765	South Fork Eel River near Miranda, Calif.	B	537	-	73	1941-65	48,000	Dec. 22, 1964	46.0	199,000	370	*1.42
4770	Eel River at Scotia, Calif.....	B	3,113	-	64	1911-65	154,000	Dec. 23, 1964	72.0	752,000	242	*1.47
4785	Van Duzen River near Bridgeville, Calif.	B	216	-	70	1951-65	22,000	Dec. 22, 1964	22.6	48,700	226	16
						Mad River basin						
4810	Mad River near Arcata, Calif....	B	484	-	67	1911-13, 1951-65	39,000	Dec. 22, 1955	27.30	77,800	161	11
						Redwood Creek basin						
4825	Redwood Creek at Orick, Calif...	B	278	-	68	1912-13, 1953-65	25,000	Dec. 22, 1964	24.0	50,500	182	10

* Ratio of peak discharge to that of 50-year flood.

Table 3.--Maximum floods at gaging stations not used to define regional flood-frequency relations

No.	Gaging station	Flood region	Drainage area (sq mi)	Period of known floods (water years)	Maximum flood				
					Date	Gage height (feet)	Discharge		
							Cfs	Cfs per sq mi	Recurrence interval (years)
Tia Juana River basin									
125	Campo Creek near Campo, Calif.	A	84	1937-65	Feb. 6, 1937	3.80	880	10.5	4
San Diego River basin									
175	Boulder Creek near Lakeside, Calif.	A	34.0	1913-16,1920-26	Jan. 27, 1916	9.5	3,000	88.2	-
220	San Vicente Creek at San Vicente Dam, at Foster, Calif.	A	74.2	1937-41	Feb. 7, 1937	6.80	9,400	127	34
San Dieguito River basin									
260	Santa Ysabel Creek near San Pasqual, Calif.	A	128	1906-10, 1912, 1957-65	Mar. 24, 1906	-	8,000	62.5	12
San Luis Rey River basin									
330	West Fork San Luis Rey River near Warner Springs, Calif.	A	25.5	1914,1958-65	Mar. 16, 1958	10.77	2,060	80.8	9
350	San Luis Rey River at Lake Henshaw, near Mesa Grande, Calif.	A	207	1915-22	Jan. 27, 1916	18.0	58,600	293	*2.60
385	San Luis Rey River near Pala, Calif.	A	317	1904-16	Jan. 27, 1916	18.1	75,000	237	*2.26
420	San Luis Rey River at Oceanside, Calif.	A	557	1913-16,1930-42, 1947-65	Jan. 27, 1916	-	95,600	172	*2.39
Santa Margarita River basin									
424	Temecula Creek near Aguanga, Calif.	A	132	1958-65	Apr. 3, 1958	6.57	3,540	26.8	9
San Onofre Creek basin									
462.5	San Onofre Creek at San Onofre, Calif.	A	42.2	1947-65	Jan. 16, 1952	7.63	-	-	-
					Apr. 1, 1958	-	3,600	61.6	11
San Mateo Creek basin									
463.7	San Mateo Creek at San Onofre, Calif.	A	132	1947-65	Jan. 26, 1956	a 8.67	-	-	-
					Apr. 1, 1958	-	4,650	35.2	8
Aliso Creek basin									
475	Aliso Creek at El Toro, Calif.	A	7.97	1931-65	Feb. 6, 1937	11.20	1,950	245	-
Santa Ana River basin									
515	Santa Ana River near Mentone, Calif.	A	209	1891,1916-65	Feb. 23, 1891	-	53,700	257	-
550	Mill Creek near Mentone, Calif.	A	46.3	1939-65	Dec. 23, 1945	-	1,500	32.4	4
558	City Creek near Highland, Calif.	A	19.5	1920-65	Mar. 2, 1938	-	6,900	354	47
565	Little San Gorgonio Creek near Beaumont, Calif.	A	3.23	1949-65	Aug. 23, 1955	2.18	319	98.8	-

575	San Timoteo Creek near Loma Linda, Calif.....	A	125	1955-65	July 25, 1956	4.59	-	-	-
					Apr. 1, 1958	-	1,050	8.40	4
585	East Twin Creek near Arrowhead Springs, Calif..	A	8.76	1920-65	Mar. 2, 1938	-	3,360	384	-
586	Waterman Canyon Creek near Arrowhead Springs, Calif.	A	4.65	1921-65	Mar. 2, 1938	-	2,350	505	-
636.8	Devil Canyon Creek near San Bernardino, Calif..	A	5.61	1920-65	Mar. 2, 1938	-	3,320	592	-
640	Lytle Creek (east channel) at San Bernardino, Calif.	A	-	1925-57	Mar. 2, 1938	-	21,500	-	-
660	Warm Creek near Colton, Calif.....	A	262	1921-62	Mar. 2, 1938	-	27,500	105	41
661	Lytle Creek (west channel) at Colton, Calif....	A	-	1891,1929-45	Feb. 24, 1891	-	30,020	-	-
670	Day Creek near Etiwanda, Calif.....	A	4.59	1928-65	Mar. 2, 1938	-	4,200	915	-
695	San Jacinto River near San Jacinto, Calif.....	A	141	1921-65	Feb. 16, 1927	-	45,000	319	*2.37
705	San Jacinto River near Elsinore, Calif.....	A	728	1916-65	Feb. 17, 1927	11.8	16,000	22.0	-
745	Santa Ana River at county line, below Prado Dam, Calif.	A	1,506	1920-40,1953-60	Mar. 3, 1938	17.32	100,000	66.4	-
757.4	Carbon Creek near Yorba Linda, Calif.....	A	20.4	1927,1931-38, 1943,1950-61	1927	-	2,500	123	19
775	Santiago Creek at Santa Ana, Calif.....	A	95.0	1930-65	Mar. 2, 1938	-	4,400	46.3	-
					Feb. 22, 1944	9.32	-	-	-
780	Santa Ana River at Santa Ana, Calif.....	A	1,685	1923-65	Mar. 3, 1938	10.20	46,300	27.5	-
	San Gabriel River basin								
800	East Fork San Gabriel River at Camp Bonita, Calif.	A	58.2	1928-32	Feb. 8, 1932	-	3,340	57.4	6
810	Bear Creek near Camp Rincon, Calif.....	A	28.2	1930-36	Jan. 1, 1934	8.0	1,600	56.7	4
815	North Fork San Gabriel River at Camp Rincon, Calif.	A	18.6	1930-36	Jan. 1, 1934	5.80	276	14.8	2
840	Rogers Creek near Azusa, Calif.....	A	6.64	1918-62	Jan. 6, 1959	-	2,400	361	-
					Feb. 11, 1959	12.55	-	-	-
845	Fish Creek near Duarte, Calif.....	A	6.36	1918-65	Mar. 2, 1938	-	2,100	330	-
					Jan. 23, 1943	5.78	2,100	330	-
860	Dalton Creek near Glendora, Calif.....	A	7.5	1920-41,1943-62	Dec. 2, 1961	6.40	3,040	405	-
864	San Dimas Creek near San Dimas, Calif.....	A	18.3	1917-56	Mar. 2, 1938	-	5,000	273	-
865	Little Dalton Creek near Glendora, Calif.....	A	2.72	1914,1938-65	Mar. 20, 1961	5.24	1,700	625	-
875	San Gabriel River at Pico, Calif.....	A	448	1929-65	Mar. 2, 1938	-	22,700	50.7	-
	Los Angeles River basin								
924.5	Los Angeles River at Sepulveda Dam, Calif.....	A	158	1930-65	Feb. 12, 1962	10.00	13,400	84.8	-
945	Tujunga Creek near Colby Ranch, Calif.....	A	67.5	1931-50	Jan. 23, 1943	15.40	14,800	219	*1.03
950	Fox Creek near Colby Ranch, Calif.....	A	9.22	1931-37	Feb. 2, 1936	-	410	44.5	-
960	Haines Creek near Tujunga, Calif.....	A	1.2	1914,1917-29, 1932-34,1937-61	February 1914	-	4,620	3,850	-
975	Los Angeles River at Los Angeles, Calif.....	A	514	1930-65	Mar. 2, 1938	-	67,000	130	-
985	Los Angeles River near Downey, Calif.....	A	599	1929-65	Mar. 2, 1938	-	79,700	133	-
995	Sawpit Creek near Monrovia, Calif.....	A	5.3	1917-38,1943-61	Mar. 2, 1938	-	1,800	340	-
1000	Santa Anita Creek near Sierra Madre, Calif.....	A	9.71	1917-65	Mar. 2, 1938	-	5,200	536	-
1005	Little Santa Anita Creek near Sierra, Madre, Calif.	A	1.84	1917-62	Mar. 2, 1938	-	536	291	-
1010	Eaton Creek near Pasadena, Calif.....	A	6.47	1916-65	Mar. 2, 1938	-	2,400	371	-
1030	Los Angeles River at Long Beach, Calif.....	A	-	1929-65	Mar. 2, 1938	-	99,000	-	-

* Ratio of peak discharge to that of 50-year flood.
a Result of failure of temporary dam.

Table 3.--Maximum floods at gaging stations not used to define regional flood-frequency relations--Continued

No.	Gaging station	Flood region	Drainage area (sq mi)	Period of known floods (water years)	Maximum flood				
					Date	Gage height (feet)	Discharge		
							Cfs	Cfs per sq mi	Recurrence interval (years)
				Ballona Creek basin					
1035	Ballona Creek near Culver City, Calif.....	A	111	1928-65	Mar. 2, 1938	-	19,000	171	-
				Malibu Creek basin					
1065	Conejo Creek near Camarillo, Calif.....	A	69.8	1927-31	-	-	0	-	-
				Calleguas Creek basin					
1070	Honda Barranca near Somis, Calif.....	A	2.57	1955-65	Feb. 19, 1962	8.21	450	175	-
				Santa Clara River basin					
1096	Piru Creek above Lake Piru, Calif.....	A	372	1938,1956-65	Mar. 2, 1938	-	35,000	94.1	*1.32
1120	Sespe Creek near Sespe, Calif.....	A	210	1916-27	Apr. 7, 1926	16.0	27,000	129	48
				Ventura River basin					
1145	Matilija Creek above reservoir, near Matilija, Hot Springs, Calif.	A	50.7	1949-65	Jan. 15, 1952	12.1	8,800	174	20
1176	Coyote Creek near Oak View, Calif.....	A	13.2	1959-65	Feb. 9, 1962	7.45	1,700	129	10
1178	Santa Anna Creek near Oak View, Calif.....	A	9.11	1959-65	Feb. 9, 1962	6.77	2,220	244	-
				San Jose Creek basin					
1205	San Jose Creek near Goleta, Calif.....	A	5.51	1941-65	Apr. 4, 1941	6.95	1,960	356	-
				Santa Ynez River basin					
1260	Santa Ynez River near Santa Ynez, Calif.....	A	422	1935-52,1956-65	Mar. 2, 1938	17.90	43,700	104	*1.12
1275	Zanja de Cota Creek near Santa Ynez, Calif.....	A	13.8	1955-61	Mar. 21, 1958	9.4	460	33.3	3
1284	Alisal Creek near Solvang, Calif.....	A	11.5	1955-65	Feb. 19, 1958	-	2,900	252	17
					Feb. 9, 1962	8.15	-	-	-
1285	Santa Ynez River at Solvang, Calif.....	A	579	1932,1935-36, 1947-65	Jan. 15, 1952	14.80	37,000	63.9	32
1355	Santa Ynez River at barrier, near Surf, Calif..	A	895	1948-65	Jan. 9, 1907	-	60,000	67.0	*1.15
				San Antonio Creek basin					
1361	San Antonio Creek near Casmalia, Calif.....	A	135	1952,1956-65	January 1952	13.0	-	-	-
					Feb. 19, 1962	-	1,300	9.63	3
				Arroyo Grande basin					
1413	Arroyo Grande near Arroyo Grande, Calif.....	A	68.3	1959-65	Feb. 9, 1962	4.50	1,280	18.7	3
				Santa Rosa Creek basin					
1422	Santa Rosa Creek near Cambria, Calif.....	A	12.5	1958-65	December 1955	15.2	-	-	-
					Feb. 1, 1960	-	2,520	202	7

				Carmel River basin					
1432	Carmel River at Robles del Rio Calif.....	A	193	1956-65	Dec. 23, 1955 Apr. 2, 1958	11.7 -	- 7,100	- 36.8	- 7
				Salinas River basin					
1475	Salinas River at Paso Robles, Calif.....	A	389	1940-65	Feb.10-13,1938 Mar. 9, 1943	16.9 -	- 14,200	- 36.5	- -
1476	Huerhuero Creek near Creston, Calif.....	A	101	1959-65	Feb. 9, 1962	5.75	808	8.00	4
1485	Estrella Creek near Estrella, Calif.....	A	924	1955-65	Apr. 6, 1958	7.20	8,850	9.58	7
1488	Nacimiento River near Bryson, Calif.....	A	140	1956-65	Dec. 23, 1955	24.63	30,300	216	*1.27
1505	Salinas River near Bradley, Calif.....	A	2,536	1949-65	Apr. 3, 1958	12.53	28,400	11.2	-
1513	San Lorenzo Creek below Bitterwater Creek, near King City, Calif.	A	233	1959-65	Feb. 10, 1963	8.13	2,130	9.14	3
				Pajaro River basin					
1530	Pacheco Creek near Dunneville, Calif.....	A	146	1940-65	Dec. 23, 1955	18.6	12,600	86.2	-
1535	Llagas Creek near Morgan Hill, Calif.....	A	19.6	1952-65	Apr. 2, 1958	8.45	3,190	163	-
1560	San Benito River below McCoy Creek, near Hernandez, Calif.	A	108	1950-63	Apr. 2, 1958	8.93	6,690	61.9	17
1591.5	Corralitos Creek near Corralitos, Calif.....	A	10.6	1958-65	Apr. 2, 1958 Jan. 31, 1963	- 7.62	1,970 -	186 -	3 -
1592	Corralitos Creek at Freedom, Calif.....	A	27.8	1956,1957-65	Dec. 22, 1955	15.6	3,620	130	4
				Aptos Creek basin					
1597	Aptos Creek at Aptos, Calif.....	A	12.2	1959-65	Jan. 31, 1963	10.82	2,110	173	4
				Soquel Creek basin					
1598	West Branch Soquel Creek near Soquel, Calif....	A	12.2	1959-65	Jan. 31, 1963	10.88	4,120	338	9
				San Lorenzo River basin					
1603	Zayante Creek at Zayante, Calif.....	A	11.1	1958-65	Apr. 2, 1958	7.70	3,700	333	7
				Scott Creek basin					
1619	Scott Creek above Little Creek, near Davenport, Calif.	A	25.0	1959-65	Feb. 13, 1962	9.36	1,970	78.8	2
				Purisima Creek basin					
1626	Purisima Creek near Half Moon Bay, Calif.....	A	4.83	1959-65	Jan. 31, 1963	5.31	301	62.3	-
				Atherton drainage channel basin					
1629	Sharon Creek near Menlo Park, Calif.....	A	0.38	1958-65	Apr. 2, 1958 Jan. 31, 1963	4.2 -	- 68	- 179	- -
				San Francisquito Creek basin					
1629.5	San Francisquito Creek tributary near Stanford University, Calif.	A	0.26	1959-64	Mar. 5, 1962	2.98	39	150	-
1632	Los Trancos Creek tributary near Stanford University, Calif.	A	.47	1959-65	Jan. 31, 1963	2.63	66	140	-
1635	Los Trancos Creek at Stanford University, Calif.	A	7.50	1931-41	Feb. 27, 1940	4.07	647	86.4	-
1645	San Francisquito Creek at Stanford University, Calif.	A	37.5	1931-41,1951-65	Dec. 22, 1955	13.60	5,560	148	-
1655	San Francisquito Creek at Palo Alto, Calif.....	A	40.9	1931-41	Feb. 27, 1940	17.22	3,100	75.8	-

* Ratio of peak discharge to that of 50-year flood.

Table 3.--Maximum floods at gaging stations not used to define regional flood-frequency relations--Continued

No.	Gaging station	Flood region	Drainage area (sq mi)	Period of known floods (water years)	Maximum flood				
					Date	Gage height (feet)	Discharge		
							Cfs	Cfs per sq mi	Recurrence interval (years)
				Matadero Creek basin					
1660	Matadero Creek at Palo Alto, Calif.	A	7.24	1953-65	Apr. 2, 1958	10.30	-	-	-
					Dec. 22, 1955	-	854	118	-
				Stevens Creek basin					
1665	Stevens Creek near Cupertino, Calif.	A	18.1	1930-59	Dec. 23, 1955	8.25	1,420	78.4	-
				Guadalupe River basin					
1670	Alamitos Creek near Edenvale, Calif.	A	34.6	1930-58	Apr. 2, 1958	-	4,500	130	-
1675	Guadalupe Creek at Guadalupe, Calif.	A	12.7	1930-59	Apr. 2, 1958	6.31	2,750	216	-
1685	Los Gatos Creek below Los Gatos, Calif.	A	42.6	1945-53	Feb. 1, 1945	10.55	-	-	-
					Jan. 12, 1952	-	5,800	136	-
1690	Guadalupe River at San Jose, Calif.	A	146	1930-65	Apr. 2, 1958	16.55	9,150	62.7	-
1695	Saratoga Creek at Saratoga, Calif.	A	9.22	1934-65	Dec. 22, 1955	6.40	2,730	296	-
				Coyote Creek basin					
1705	Coyote Creek at Coyote, Calif.	A	204	1917-23	Feb. 10, 1922	15.4	10,300	50.5	14
1715	Coyote Creek near Edenvale, Calif.	A	229	1917-62	Feb. 10, 1922	12.8	10,000	43.7	10
				Alameda Creek basin					
1765	Arroyo Valle near Livermore, Calif.	A	147	1956-65	Dec. 23, 1955	13.93	18,200	124	40
1766	Arroyo Valle at Pleasanton, Calif.	A	171	1958-65	Apr. 3, 1958	25.36	11,300	66.1	14
				Pacheco Creek basin					
1825	San Ramon Creek at San Ramon, Calif.	A	5.89	1953-65	Oct. 13, 1962	16.98	1,600	272	-
				Tulare Lake basin					
2250	Los Gatos Creek near Coalinga, Calif.	A	105	1932-41	Feb. 11, 1938	6.23	4,520	43.0	17
2250.5	Warthan Creek tributary No. 1 near Coalinga, Calif.	A	.13	1959-65	Feb. 9, 1963	5.85	9.2	70.8	-
2250.75	Warthan Creek tributary No. 2 near Coalinga, Calif.	A	.012	1959-65	-	-	0	-	-
				San Joaquin River basin					
2480	Fine Gold Creek near Friant, Calif.	A	92.6	1937-58	Mar. 12, 1938	20.4	10,300	111	-
2555	Panoche Creek below Silver Creek, near Panoche, Calif.	A	293	1950-53,1958-65	Jan. 12, 1952	7.05	-	-	-
					Apr. 2, 1958	-	5,090	17.4	8
2555.5	Little Panoche Creek tributary No. 1 near Panoche, Calif.	A	.33	1959-65	Jan. 19, 1962	7.16	58	176	-
2629.5	Wolf Creek near Volta, Calif.	A	2.82	1959-65	Feb. 1, 1963	5.70	207	73.4	-
2630	San Luis Creek near Los Banos, Calif.	A	84.6	1950-63	Apr. 2, 1958	7.99	3,420	40.4	-
2746	Del Puerto Creek tributary No. 1 near Patterson, Calif.	A	.71	1959-65	Feb. 1, 1963	93.73	20	28.2	-
2746.1	Del Puerto Creek tributary No. 2 near Patterson	A	.02	1959-65	Feb. 16, 1959	5.73	.5	25.0	-

3040	Corral Hollow Creek near Tracy, Calif.....	A	61.6	1959-65	Feb. 16, 1959	2.78	-	-	-
					Mar. 6, 1962	-	145	2.35	2
3129.25	Mountain House Creek tributary near Altamont, Calif.	A	.27	1959-65	Feb. 1, 1960	-	2	7.41	-
3129.5	Mountain House Creek near Midway, Calif.....	A	11.7	1959-65	Feb. 8, 1960	4.12	60	5.13	2
				Sacramento River basin					
3744	Middle Fork Cottonwood Creek near Ono, Calif...	B	249	1957-65	Dec. 22, 1964	19.08	13,500	54.1	3
3755	North Fork Cottonwood Creek at Ono, Calif.....	B	58.8	1908-14	Feb. 2, 1909	9.8	7,400	126	4
3757	North Fork Cottonwood Creek near Igo, Calif....	B	88.7	1956-65	Dec. 21, 1955	-	12,100	136	-
3800	Elder Creek near Henleyville, Calif.....	B	130	1931-41	Feb. 28, 1941	10.8	14,000	108	44
3855	Stony Creek above Stony Gorge Reservoir, Calif.	B	280	1921,1934-41	Dec. 10, 1937	13.1	28,000	100	-
3870	Stony Creek near Fruto, Calif.....	B	598	1901-12,1961-65	Dec. 23, 1964	15.49	40,200	67.2	-
3880	Stony Creek below Black Butte Dam near Orland..	B	740	1956-65	Feb. 24, 1958	11.82	36,300	49.0	-
3885	Stony Creek near Hamilton City, Calif.....	B	777	1941-65	Feb. 25, 1958	18.31	-	-	-
					Dec. 23, 1964	-	40,200	51.7	-
4485	Adobe Creek near Kelseyville, Calif.....	B	6.36	1955-65	Jan. 31, 1963	9.22	-	-	-
					Dec. 22, 1964	-	1,500	236	-
4490	Highland Creek near Kelseyville, Calif.....	B	12.6	1955-65	Feb. 24, 1958	12.19	-	-	-
					Dec. 22, 1964	-	3,080	244	23
4517.2	Bear Creek near Rumsey, Calif.....	B	100	1958-65	Feb. 24, 1958	12.33	-	-	-
					Jan. 5, 1965	-	9,720	97.2	10
4525	Cache Creek at Yolo, Calif.....	B	1,137	1903-65	Feb. 25, 1958	33.11	41,400	36.4	-
4531.5	Putah Creek tributary near Whispering Pines....	B	.25	1959-65	Feb. 1, 1963	13.60	58	232	-
4545	Putah Creek at Winters, Calif.....	B	635	1906-31	Dec. 31, 1913	39.0	60,000	94.5	40
4550	Putah Creek near Davis, Calif.....	B	638	1949-62	Dec. 22, 1955	24.36	46,600	73.0	14
				Napa River basin					
4559.5	Sulphur Creek near St. Helena, Calif.....	B	4.50	1956-65	Dec. 21, 1955	15.80	-	-	-
					Dec. 23, 1964	-	980	218	-
4564	Lake Hennessey tributary near Rutherford, Calif.	B	1.04	1959-65	Jan. 5, 1965	8.50	184	177	-
				Sonoma Creek basin					
4584	Sonoma Creek near Kenwood, Calif.....	B	6.06	1958-63	Feb. 24, 1958	13.25	1,510	249	-
4585	Sonoma Creek at Boyes Hot Springs, Calif.....	B	62.2	1956-65	Dec. 22, 1955	17.10	8,880	143	26
				Novato Creek basin					
4595	Novato Creek near Novato, Calif.....	B	17.5	1947-65	Jan. 20, 1964	8.74	1,330	76	-
				Lagunitas Creek basin					
4605	Nicasio Creek near Point Reyes Station, Calif..	B	36.6	1954-60	Dec. 22, 1955	14.57	9,010	246	*1.17
				Russian River basin					
4614	East Fork Russian River tributary near Potter Valley, Calif.	B	0.15	1959-65	Dec. 22, 1964	14.46	121	807	-
4620	East Fork Russian River near Ukiah, Calif.....	B	105	1912-13,1952-65	Dec. 21, 1955	16.86	13,300	127	-
4621	Robinson Creek near Ukiah, Calif.....	B	19.8	1956-62	Feb. 24, 1958	17.08	2,880	145	4
4621.25	Slide Creek near Ukiah, Calif.....	B	.57	1959-65	Dec. 23, 1964	16.00	153	268	-
4627	Feliz Creek near Hopland, Calif.....	B	31.1	1956,1959-65	Dec. 22, 1964	14.10	6,080	195	19
4630	Russian River near Cloverdale, Calif.....	B	502	1952-65	Dec. 22, 1964	31.05	53,500	107	-
4632	Big Sulphur Creek near Cloverdale, Calif.....	B	82.3	1956-65	Dec. 22, 1955	22.2	20,000	243	34

* Ratio of peak discharge to that of 50-year flood.

Table 3.--Maximum floods at gaging stations not used to define regional flood-frequency relations--Continued

No.	Gaging station	Flood region	Drainage area (sq mi)	Period of known floods (water years)	Maximum flood				
					Date	Gage height (feet)	Discharge		
							Cfs	Cfs per sq mi	Recurrence interval (years)
				Russian River basin--Continued					
4639.4	Franz Creek near Kellogg, Calif.	B	15.7	1956-65	Dec. 22, 1955	10.69	-	-	-
					Jan. 5, 1965	-	5,780	368	*1.63
4640.5	Dry Creek tributary near Hopland, Calif.	B	1.27	1959-65	Dec. 22, 1964	12.8	430	339	-
4650.5	Dutcher Creek near Asti, Calif.	B	2.24	1959-65	Feb. 16, 1959	9.46	381	170	-
4654.5	Mark West Creek at Mark West Springs, Calif.	B	30.4	1958-62	Feb. 8, 1960	20.34	13,500	444	*1.96
				Garcia River basin					
4676	Garcia River near Point Arena, Calif.	B	98.5	1952-56,1963-65	Dec. 22, 1955	20.75	26,300	267	*1.09
				Mattole River basin					
4695	North Fork Mattole River at Petrolia, Calif.	B	37.6	1952-57	Dec. 21, 1955	10.60	9,600	255	6
				Eel River basin					
4715	Eel River at Van Arsdale Dam, near Potter Valley, Calif.	B	349	1910-65	Dec. 22, 1964	33.9	64,100	184	-
4722	Outlet Creek near Longvale, Calif.	B	161	1957-65	Dec. 22, 1964	30.6	77,900	484	*1.73
4725	Eel River above Dos Rios, Calif.	B	705	1951-65	Dec. 22, 1964	55.4	184,000	261	-
4735	Middle Fork Eel River near Covelo, Calif.	B	406	1912-22	Dec. 31, 1913	(b)	45,000	111	9
4736	Short Creek near Covelo, Calif.	B	15.2	1956,1959-65	Dec. 21, 1955	10.51	3,780	249	23
4737	Mill Creek near Covelo Calif.	B	96.9	1957-65	Dec. 22, 1964	20.97	24,100	249	*1.20
4750	Eel River at Alderpoint, Calif.	B	2,079	1956-65	Dec. 22, 1964	87.2	561,000	270	*1.52
4757	Tenmile Creek near Laytonville, Calif.	B	50.3	1956-65	Dec. 22, 1955	22.9	16,300	324	16
4775	Van Duzen River near Dinsmores, Calif.	B	85.1	1954-65	Dec. 22, 1964	22.5	27,000	317	24
4777	South Fork Duzen River near Bridgeville, Calif.	B	36.2	1954-65	Dec. 22, 1964	18.70	13,600	376	25
4780	Van Duzen River at Bridgeville, Calif.	B	202	1912-13,1940-51	Jan. 25, 1912	26.0	22,000	109	2
4790	Yager Creek near Carlotte, Calif.	B	127	1954-60	Dec. 22, 1955	17.4	28,000	220	18
				Elk River basin					
4797	Elk River near Falk, Calif.	B	44.2	1958-65	Dec. 22, 1964	28.09	3,430	77.6	2
				Jacoby Creek basin					
4800	Jacoby Creek near Freshwater, Calif.	B	6.07	1955-65	Dec. 30, 1954	7.20	1,670	275	-
				Mad River basin					
4805	Mad River near Forest Glen, Calif.	B	143	1954-65	Dec. 22, 1955	23.6	39,200	274	45
4808	North Fork Mad River near Korbel, Calif.	B	40.5	1958-65	Dec. 22, 1964	20.02	15,400	380	28
				Little River basin					
4812	Little River at Crannell, Calif.	B	44.3	1956-65	Dec. 22, 1964	11.06	8,240	186	8
				Redwood Creek basin					
4815	Redwood Creek near Blue Lake, Calif.	B	67.5	1953-65	Dec. 22, 1964	16.05	15,400	243	9

* Ratio of peak discharge to that of 50-year flood. b Between 30 and 31 ft.

Table 4.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations

No.	Stream and vicinity	Location		Flood region	Drainage area (sq mi)	Areal Q2.33 (cfs)	Maximum flood			
		Latitude	Longitude				Date	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Sweetwater River basin									
160	Sweetwater River near Dehesa, Calif.....	32°46'20"	116°48'05"	A	112	1,100	January 1916	24,300	217	*1.39
M1	Sweetwater River near Jamacho, Calif.....	32°42'45"	116°57'25"	A	172	1,200	January 1916	43,000	250	*2.00
	San Diego River basin									
230	San Diego River at San Diego, Calif.....	32°45'40"	117°11'50"	A	434	3,600	Jan. 27, 1916	75,000	173	*2.21
	San Dieguito River basin									
300	San Dieguito River at Lake Hodges, Calif.....	33°02'48"	117°07'33"	A	303	1,970	Jan. 27, 1916	72,100	238	*2.58
	Santa Ana River basin									
M2	Warm Creek at San Bernardino, Calif.....	34°06'15"	117°16'55"	A	57.8	400	Mar. 2, 1938	3,650	63.1	15
M3	Chino Creek near Chino, Calif.....	33°56'50"	117°40'05"	A	88.2	790	Mar. 2, 1938	5,000	56.7	12
	Calleguas Creek basin									
M4	Calleguas Creek near Camarillo, Calif.....	34°10'40"	119°02'30"	A	249	1,500	Mar. 2, 1938	10,900	43.8	18
M5	Happy Camp Creek at Moorepark, Calif.....	34°17'10"	118°51'30"	A	12.0	193	Mar. 2, 1938	235	19.6	3
M6	Arroyo Conejo near Camarillo, Calif.....	34°12'15"	118°55'00"	A	35.1	350	Mar. 2, 1938	4,500	128	28
	Santa Clara River basin									
M7	Santa Clara River near Ravenna, Calif.....	34°26'20"	118°18'35"	A	116	290	Mar. 2, 1938	28,200	243	*2.31
M8	Santa Clara River near Santa Paula, Calif....	34°19'40"	119°04'35"	A	1,533	3,900	Mar. 2, 1938	120,000	78.3	*1.82
M9	Agua Dulce Creek near Lang, Calif.....	34°26'30"	118°19'55"	A	29.5	94	Mar. 2, 1938	1,930	65.4	21
M10	San Francisquito Creek near Saugus, Calif....	34°31'15"	118°21'55"	A	40.5	370	Mar. 2, 1938	5,000	123	27
M11	Castaic Creek near Castaic, Calif.....	34°32'40"	118°37'40"	A	77.7	75	Mar. 2, 1938	6,520	83.9	19
M12	Aliso Creek near Santa Paula, Calif.....	34°19'45"	119°09'10"	A	12.5	390	Mar. 2, 1938	3,170	254	26
	Ventura River basin									
1170	San Antonio Creek near Ojai, Calif.....	34°25'25"	119°15'30"	A	33.9	620	Mar. 2, 1938	6,110	180	27
M13	Santa Ana Creek near Oak View, Calif.....	34°23'45"	119"20'25"	A	11.3	380	Mar. 2, 1938	3,780	335	31
	Carmel River basin									
M14	Carmel River near Carmel, Calif.....	36°32'20"	121°52'25"	A	246	2,600	Jan. 31, 1963	7,360	29.9	6
	Salinas River basin									
1455	Salinas River near Santa Margarita, Calif....	35°24'20"	120°34'05"	A	148	1,050	Feb. 11, 1938	13,600	92.0	30
1470.7	Santa Rita Creek near Templeton, Calif.....	35°31'26"	120°45'54"	A	18.2	710	Feb. 9, 1962	2,320	127	8
1497	San Antonio River at Sam Jones Bridge, near Lockwood, Calif.	35°54'45"	121°07'50"	A	211	2,200	Jan. 31, 1963	14,400	68.2	19
1518.7	Arroyo Seco near Greenfield, Calif.....	36°14'15"	121°28'50"	A	113	3,800	Jan. 31, 1963	10,400	92.0	8
1519.5	Sand Creek near Paraiso Springs, Calif.....	36°15'48"	121°25'48"	A	14.8	195	Jan. 31, 1963	673	45.5	5

See footnotes at end of table.

Table 4.--Peak discharges at miscellaneous sites and unusual floods at short-term gaging stations--Continued

No.	Stream and vicinity	Location		Flood region	Drainage area (sq mi)	Areal Q2.33 (cfs)	Maximum flood			
		Latitude	Longitude				Date	Discharge		
								Cfs	Cfs per sq mi	Recurrence interval (years)
	Pajaro River basin									
1529	Cedar Creek near Bell Station, Calif.....	37°08'00"	121°19'35"	A	12.8	280	Jan. 31, 1963	3,490	273	33
1542	Uvas Creek near Gilroy, Calif.....	36°59'35"	121°34'20"	A	71.2	3,400	Feb. 1, 1963	7,180	101	6
	Scott Creek basin									
M15	Scott Creek near Davenport, Calif.....	37°04'10"	122°13'50"	A	13.6	1,800	Dec. 23, 1955	6,430	473	21
	San Francisquito Creek basin									
1629.4	San Francisquito Creek below Ladera damsite, near Stanford University, Calif.	37°24'24"	122°12'11"	A	28.5	1,900	Jan. 31, 1963	2,880	101	3
	Coyote Creek basin									
1698	Coyote Creek near Gilroy, Calif.....	37°04'27"	121°29'55"	A	110	960	Jan. 31, 1963	10,100	91.8	24
1721	Upper Penitencia Creek at San Jose, Calif....	37°23'43"	121°49'38	A	21.5	560	Dec. 23, 1964	800	37.2	3
	Alameda Creek basin									
1740	San Antonio Creek near Sunol, Calif.....	37°34'39"	121°51'24"	A	37.0	780	Dec. 23, 1955	5,810	157	25
1760	Arroyo Mocho near Livermore, Calif.....	37°36'50"	121°41'10"	A	36.7	550	Dec. 23, 1955	1,880	51.2	6
1762	Arroyo Mocho near Pleasanton, Calif.....	37°41'19"	121°52'41"	A	143	1,000	Feb. 1, 1963	1,760	12.3	3
1770	Arroyo de la Laguna near Pleasanton, Calif...	37°36'25"	121°52'30"	A	406	2,350	Dec. 23, 1955	24,800	61.1	31
	Pacheco Creek basin									
1845	Pine Creek at Concord, Calif.....	37°58'13"	122°02'42"	A	27.0	590	Apr. 2, 1958	1,160	43.0	4
	Tulare Lake basin									
M16	Warthan Creek near Coalinga, Calif.....	36°06'50"	120°22'50"	A	112	600	Dec. 23, 1955	783	6.99	3
	San Joaquin River basin									
2630.5	Garzas Creek near Gustine, Calif.....	37°14'00"	121°08'00"	A	51.2	390	Feb. 1, 1963	1,770	34.6	8
M18	Kellogg Creek near Byron, Calif.....	37°51'15"	121°41'45"	A	24.1	370	Dec. 23, 1955	1,310	54.4	7
	Sacramento River basin									
M20	North Fork Cottonwood Creek near Ono, Calif..	40°27'15"	122°33'45"	B	36.8	3,600	Dec. 21, 1955	12,100	329	*1.08
M21	Dry Creek near Cottonwood, Calif.....	40°16'35"	122°32'30"	B	127	5,700	Jan. 15, 1956	8,180	62.9	4
3758.2	South Fork Cottonwood Creek near Cottonwood, Calif.	40°18'58"	122°26'52"	B	218	10,100	Dec. 22, 1964	13,400	61.5	4
M22	Red Bank Creek above Last Chance Creek, near Red Bluff, Calif.	40°06'13"	122°31'20"	B	40.4	2,080	Jan. 15, 1956	2,990	74.0	4
3788	Red Bank Creek near Red Bluff, Calif.....	40°05'25"	122°24'45"	B	93.5	3,250	Jan. 1, 1965	9,730	104	43
3845	Stony Creek near Stonyford, Calif.....	39°22'10"	122°36'13"	B	102	6,800	Dec. 22, 1955	13,000	127	9
3906.55	South Fork Willow Creek near Fruto, Calif....	39°32'35"	122°23'20"	B	38.9	1,190	Jan. 5, 1965	1,920	49.4	5

3906.8	Salt Creek near Williams, Calif.	39°06'30"	122°18'20"	B	12.9	680	Feb. 14, 1962	427	33.1	2
4489	Highland Creek above Highland Dam, Calif.	38°55'45"	122°55'10"	B	11.9	1,100	Dec. 22, 1964	2,880	242	40
4491	Scotts Creek near Lakeport, Calif.	39°03'45"	122°56'50"	B	52.3	3,350	Dec. 22, 1964	8,680	166	26
4506	Copsey Creek near Lower Lake, Calif.	38°53'21"	122°35'47"	B	13.2	970	Jan. 30, 1963	2,340	177	15
4541	Pleasants Creek near Winters, Calif.	38°28'40"	122°01'43"	B	15.9	1,000	Jan. 31, 1963	3,780	238	*1.26
	Walker Creek basin									
M29	North Fork Walker Creek near Tomales, Calif.	38°12'35"	122°50'55"	B	19.9	1,140	Dec. 22, 1955	2,720	137	16
4608	Walker Creek near Tomales, Calif.	38°12'35"	122°51'35"	B	37.1	2,020	Jan. 31, 1961	3,430	92.5	6
	Salmon Creek basin									
4609.2	Salmon Creek at Bodega, Calif.	38°20'54"	122°58'45"	B	15.7	1,620	Jan. 31, 1963	1,430	91.1	2
	Russian River basin									
4609.4	Russian River near Redwood Valley, Calif.	39°19'10"	123°13'20"	B	14.1	1,330	Dec. 22, 1964	4,400	309	*1.21
4639	Maacama Creek near Kellogg, Calif.	38°38'25"	122°45'45"	B	43.4	3,900	Dec. 22, 1964	8,920	206	16
4650	Dry Creek near Healdsburg, Calif.	38°43'15"	122°59'50"	B	131	10,800	Dec. 22, 1955	28,900	221	*1.02
4652	Dry Creek near Geyserville, Calif.	38°41'55"	122°57'25"	B	162	11,100	Dec. 22, 1964	31,800	196	50
4658	Santa Rosa Creek near Santa Rosa, Calif.	38°27'25"	122°37'50"	B	12.5	1,080	Feb. 8, 1960	3,200	256	*1.03
	Alder Creek basin									
4676.5	Alder Creek near Manchester, Calif.	38°59'45"	123°40'50"	B	26.7	2,600	Dec. 22, 1955	5,030	189	11
	Navarro River basin									
4678	Rancheria Creek near Boonville, Calif.	38°59'35"	123°26'00"	B	65.6	5,900	Dec. 22, 1964	20,000	332	*1.12
	Albion River basin									
4680.1	Albion River near Comptche, Calif.	39°15'40"	123°37'00"	B	14.5	1,520	Dec. 21, 1964	2,050	141	4
	Big River basin									
4680.7	South Fork Big River near Comptche, Calif.	39°13'45"	123°27'55"	B	36.3	3,700	Dec. 22, 1964	8,200	211	17
4681	Big River near Mendocino, Calif.	39°19'00"	123°41'00"	B	151	11,000	Dec. 22, 1955	31,300	206	43
	Pudding Creek basin									
4685.4	Pudding Creek near Fort Bragg, Calif.	39°27'20"	123°43'20"	B	12.5	1,840	Dec. 23, 1955	1,940	164	3
	Tenmile River basin									
4686	Middle Fork Tenmile River near Fort Bragg, Calif.	39°34'20"	123°41'45"	B	32.9	4,700	Dec. 21, 1964	5,670	172	3
	Eel River basin									
4718	Tomki Creek near Willits, Calif.	39°25'10"	123°13'40"	B	43.8	4,350	Dec. 22, 1964	18,100	417	*1.39
4731	Williams Creek near Covelo, Calif.	39°49'30"	123°08'25"	B	30.4	3,300	Dec. 22, 1964	11,300	309	*1.15
4735.3	Mill Creek below Alder Creek, near Covelo, Calif.	39°50'30"	123°16'35"	B	17.1	2,000	Dec. 22, 1964	5,400	316	34
4738	Elk Creek near Hearst, Calif.	39°38'57"	123°07'12"	B	84.1	6,650	Dec. 22, 1964	23,900	294	*1.14
4744	Hulls Creek near Covelo, Calif.	39°54'50"	123°14'55"	B	25.9	3,300	Dec. 22, 1964	13,000	502	*1.38
4766	Bull Creek near Weott, Calif.	40°21'05"	124°00'10"	B	28.1	5,100	Dec. 22, 1964	6,520	232	4
4767	Larabee Creek near Holmes, Calif.	40°24'30"	123°54'00"	B	84.1	10,000	Dec. 22, 1964	11,400	136	3

* Ratio of peak discharge to that of 50-year flood.

125. Campo Creek near Campo, Calif.

Location.--Lat 32°35'25", long 116°31'30", in SE¼ sec.24, T.18 S., R.4 E., on left bank just upstream from bridge on State Highway 94, about 3.5 miles southwest of Campo.

Drainage area.--84 sq mi, approximately, of which 4 sq mi is in Mexico.

Gage.--Recording. Prior to Dec. 1, 1954, at datum 1 ft higher. Datum of gage is 2,179.08 ft above mean sea level (State Highway Department bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 110 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks partly regulated by a small conservation reservoir a quarter of a mile upstream, beginning August 1956. Prior to Oct. 1, 1951, only annual peaks are shown. Base for partial-duration series, 20 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Feb. 6, 1937	3.80	880	1954	Mar. 25, 1954	0.93	18
1938	Mar. 3, 1938	2.73	378				
1939	Mar. 4, 1939	1.33	66	1955	July 19, 1955	2.93	137
1940	Apr. 1, 1940	1.39	70		Aug. 23, 1955	2.13	38
1941	Dec. 24, 1940	3.30	605	1956	Apr. 13, 1956	1.42	1.8
1942	Mar. 14, 1942	1.65	96				
1943	Jan. 27, 1943	2.82	428	1957	-	-	0
1944	Feb. 23, 1944	2.40	270				
1945	Nov. 12, 1944	1.80	133	1958	Apr. 4, 1958	3.70	367
					Apr. 7, 1958	1.93	20
1946	Dec. 22, 1945	2.27	235				
1947	Nov. 23, 1946	1.04	26	1959	Feb. 16, 1959	1.13	.3
1948	Dec. 1, 1947	.27	.8				
1949	Feb. 28, 1949	.60	5.2	1960	Apr. 27, 1960	1.17	.4
1950	Mar. 25, 1950	.44	1.5				
				1961	-	-	0
1951	Apr. 29, 1951	.52	2.7				
				1962	-	-	0
1952	Jan. 18, 1952	.98	26				
	Mar. 11, 1952	3.32	623	1963	-	-	0
	Mar. 16, 1952	2.00	161				
	July 26, 1952	1.08	31	1964	Jan. 22, 1964	1.13	.2
1953	Mar. 2, 1953	.69	7.0	1965	Feb. 6, 1965	1.17	.5

OTAY RIVER BASIN

140. Jamul Creek near Jamul, Calif.

Location.--Lat 32°38'15", long 116°53'00", in NE¼ sec.4, T.18 S., R.1 E., on right bank 300 ft upstream from county road crossing at upper end of Lower Otay Reservoir, 1.4 miles downstream from Dulzura Creek, and 5.5 miles south of Jamul.

Drainage area.--70.3 sq mi.

Gage.--Recording. Prior to Oct. 1, 1951, at datum 1.00 ft higher. Datum of gage is 511.64 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Bankfull stage.--Not subject to overflow.

Historical data.--Flood of March 1938 reached a stage of 8.0 ft (present datum), from floodmarks; artificial control was not in place at that time.

Remarks.--Low peaks may be affected by water diverted from Cottonwood Creek by Dulzura conduit into Jamul Creek via Dulzura Creek. Only annual peaks are shown.

Peak stages and discharges of Jamul Creek near Jamul, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	March 1938	8.0	-	1952	Mar. 16, 1952	5.04	2,030
				1953	Dec. 2, 1952	2.20	33
1940	Apr. 10, 1940	1.12	30	1954	Mar. 22, 1954	4.37	1,310
				1955	Jan. 18, 1955	1.37	5.5
1942	Mar. 14, 1942	2.32	276				
1943	Jan. 27, 1943	2.73	545	1956	Mar. 12, 1956	2.54	44
1944	Feb. 23, 1944	3.45	1,390	1957	Feb. 14, 1957	1.45	7.7
1945	Nov. 12, 1944	2.55	311	1958	Apr. 3, 1958	4.27	1,220
				1959	Feb. 21, 1959	1.11	1.5
1946	Dec. 23, 1945	3.18	1,140	1960	Jan. 12, 1960	1.78	14
1947	-	-	48				
1948	Dec. 1, 1947	5.42	4,000	1961	-	-	0
1949	Jan. 12, 1949	2.97	550	1962	Feb. 25, 1962	2.94	91
1950	Feb. 11, 1950	1.16	30	1963	-	-	0
				1964	-	-	0
1951	Feb. 16, 1951	2.62	363	1965	Apr. 10, 1965	2.54	46

SWEETWATER RIVER BASIN

150. Sweetwater River near Descanso, Calif.

Location.--Lat 32°50'05", long 116°37'20", in NW¼SW¼ sec.25, T.15 S., R.3 E., on right bank at county road bridge, 0.7 mile downstream from unnamed tributary and 1.3 miles south of Descanso.

Drainage area.--45.5 sq mi.

Gage.--Nonrecording prior to June 25, 1927; recording thereafter. Prior to June 25, 1927, at several sites within 0.1 mile upstream at various datums (datum lowered 1.63 ft on Nov. 5, 1918). Datum of gage is 3,269.24 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 200 cfs and extended above on basis of slope-area measurement at 11,200 cfs prior to June 25, 1927; below 530 cfs thereafter.

Bankfull stage.--8 ft.

Remarks.--Low peaks may be affected by diversion to Sweetwater diversion ditch (capacity, 0.5 cfs) 0.3 mile above station since beginning of record. Peaks in the years 1906-27 are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Mar. 24, 1906	9.25	3,000	1921	Mar. 13, 1921	2.46	-
1907	Jan. 18, 1907	-	180	1922	Dec. 26, 1921	7.03	1,700
1908	Sept.10, 1908	-	65	1923	Dec. 14, 1922	3.09	103
1909	Jan. 22, 1909	-	595	1924	Apr. 5, 1924	2.74	67
1910	Jan. 1, 1910	-	712	1925	Apr. 23, 1925	3.12	116
1911	Feb. 4, 1911	-	140	1926	Apr. 6, 1926	5.10	600
1912	Mar. 8, 1912	-	450	1927	Feb. 16, 1927	13.2	11,200
1913	Sept.12, 1913	-	160				
1914	Feb. 21, 1914	6.50	595	1957	May 21, 1957	2.67	7.0
1915	Feb. 10, 1915	5.5	1,750	1958	Apr. 3, 1958	6.60	1,290
				1959	Feb. 16, 1959	2.82	41
1916	Jan. 27, 1916	-	9,870	1960	Apr. 28, 1960	2.54	16
1917	Apr. 16, 1917	1.9	320				
1918	Mar. 12, 1918	4.3	1,720	1961	Jan. 26, 1961	2.18	1.3
1919	Apr. 2, 1919	2.79	28	1962	Mar. 24, 1962	3.21	38
1920	Feb. 22, 1920	4.70	463	1963	Mar. 17, 1963	2.52	6.5
				1964	Mar. 24, 1964	3.06	28
1921	Nov. 5, 1920	-	12	1965	Apr. 10, 1965	5.05	415

175. Boulder Creek near Lakeside, Calif.
(Published as "at mouth" 1913-16)

Location.--Lat 32°58'30", long 116°44'05", in NW¼ sec.12, T.14 S., R.2 E., just upstream from mouth and 14 miles northeast of Lakeside.

Drainage area.--34.0 sq mi.

Gage.--Nonrecording. Prior to Jan. 28, 1916, at different datums. Oct. 1, 1919, to Jan. 21, 1924, at datum 0.15 ft higher. Altitude of gage is 840 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 66 cfs.

Remarks.--Peaks regulated by Cuyamaca Reservoir (capacity, 11,540 acre-ft in 1962) beginning in 1887. All peaks except that of 1916 are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Feb. 22, 1913	-	26	1921	Mar. 14, 1921	0.92	31
1914	Jan. 27, 1914	-	83	1922	Dec. 26, 1921	6.32	900
1915	Feb. 11, 1915	5.15	200	1923	Dec. 14, 1922	1.40	61
				1924	Apr. 5, 1924	1.22	51
1916	Jan. 27, 1916	9.5	3,000	1925	Dec. 23, 1924	1.98	106
1920	Feb. 22, 1920	3.20	226	1926	Apr. 6, 1926	4.10	350

220. San Vicente Creek at San Vicente Dam, at Foster, Calif.
(Published as San Vicente Creek at Foster 1937-41)

Location.--Lat 32°54'40", long 116°55'35", in sec.31, T.14 S., R.1 E., at left end of upstream face of San Vicente Dam and 0.5 mile north of Foster.

Drainage area.--74.2 sq mi.

Gage.--Recording. October 1936 to September 1941, at different datums. Datum of gage is 460.0 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Feb. 7, 1937	6.80	9,400	1940	Feb. 4, 1940	2.02	225
1938	Mar. 2, 1938	5.59	5,270				
1939	Feb. 4, 1939	2.05	593	1941	Dec. 24, 1940	5.63	4,500

225. San Diego River near Santee, Calif.

Location.--Lat 32°49'27", long 117°03'17", in Ex Mission San Diego Grant, on right bank in Mission Gorge, 0.2 mile upstream from left tributary and 6 miles west of Santee, San Diego County.

Drainage area.--377 sq mi.

Gage.--Nonrecording at site 1½ miles upstream at different datum prior to Nov. 10, 1920; recording thereafter. Nov. 10, 1920, to Dec. 1, 1954, at datum 1.0 ft higher. Altitude of gage is 180 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of slope-area measurement at 70,200 cfs prior to Nov. 10, 1920; below 4,600 cfs and extended on basis of slope-area measurement at 45,400 cfs thereafter.

Remarks.--Peaks regulated by El Capitan Reservoir (capacity, 112,810 acre-ft) beginning in 1935, Cuyamaca Reservoir (capacity, 11,540 acre-ft) beginning in 1887, and San Vicente Reservoir (capacity, 90,230 acre-ft) beginning in 1943. Low peaks may be affected by diversions above station by city of San Diego for municipal supply and by Helix Irrigation District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Feb. 11, 1915	13.6	3,960	1941	Apr. 13, 1941	7.75	9,250
				1942	Jan. 1, 1942	.90	117
1916	Jan. 27, 1916	25.1	70,200	1943	Jan. 27, 1943	3.26	1,400
1917	Feb. 23, 1917	11.4	1,040	1944	Feb. 23, 1944	2.59	857
1918	Mar. 12, 1918	13.5	12,000	1945	Nov. 14, 1944	1.39	252
1919	Mar. 22, 1919	6.20	99				
1920	Mar. 26, 1920	10.8	1,580	1946	Dec. 23, 1945	2.63	885
				1948	Dec. 1, 1947	1.21	190
1921	Mar. 14, 1921	.53	15	1949	Jan. 13, 1949	2.09	550
1922	Dec. 26, 1921	10.2	16,700	1950	Feb. 7, 1950	.53	18
1923	Dec. 14, 1922	1.70	360				
				1951	Mar. 1, 1951	.26	1.8
1926	Apr. 6, 1926	5.30	4,540	1952	Jan. 18, 1952	5.57	4,390
1927	Feb. 16, 1927	18.1	45,400	1953	Mar. 2, 1953	.90	7.4
1928	Feb. 4, 1928	1.18	156	1954	Mar. 25, 1954	2.23	658
1929	Apr. 5, 1929	1.90	440	1955	Jan. 19, 1955	2.29	90
1930	Mar. 16, 1930	2.35	760				
				1956	Apr. 14, 1956	2.17	62
1931	Feb. 5, 1931	3.90	2,400	1957	Jan. 9, 1957	4.41	-
1932	Feb. 16, 1932	7.20	7,400		Jan. 29, 1957	-	165
1933	Jan. 30, 1933	2.95	1,230	1958	Apr. 3, 1958	5.85	2,750
1934	Mar. 23, 1934	.42	7	1959	Feb. 21, 1959	2.48	140
1935	Feb. 6, 1935	3.12	1,090	1960	Jan. 12, 1960	2.74	196
1936	Feb. 16, 1936	3.08	1,240	1961	Mar. 28, 1961	2.48	140
1937	Feb. 7, 1937	9.4	14,200	1962	Jan. 20, 1962	4.99	1,640
1938	Mar. 3, 1938	7.05	7,350	1963	Mar. 17, 1963	3.32	348
1939	Feb. 4, 1939	2.53	766	1964	Jan. 22, 1964	3.83	478
1940	Feb. 3, 1940	3.00	1,170	1965	Apr. 9, 1965	4.45	460

240. Santa Ysabel Creek near Mesa Grande, Calif.

Location.--Lat 33°07'25", long 116°47'45", on line between secs. 17 and 20, T.12 S., R.2 E., 0.5 mile upstream from Black Canyon Creek, 1 mile downstream from Sutherland Dam, and 4 miles southwest of Mesa Grande.

Drainage area.--54.0 sq mi.

Gage.--Recording. Prior to Oct. 1, 1936, at site 1 mile upstream at different datums. Datum was lowered 0.31 ft Apr. 21, 1916, and 0.21 ft Oct. 12, 1916. Altitude of gage is 1,715 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,800 cfs and extended above on basis of slope-area measurement at 14,000 cfs prior to Oct. 1, 1936; defined by current-meter measurements below 1,140 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1944. Base for partial-duration series, 110 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Feb. 21, 1914	4.20	908	1945	Mar. 23, 1945	2.53	558
1915	Feb. 11, 1915	4.53	1,040		Aug. 18, 1945	2.13	262
1916	Jan. 27, 1916	11.0	21,100	1946	Dec. 23, 1945	4.40	2,500
1917	Feb. 23, 1917	3.17	510		Jan. 5, 1946	1.84	113
1918	Mar. 12, 1918	4.75	1,390				
1919	Mar. 14, 1919	2.35	192	1947	Nov. 23, 1946	2.30	385
1920	Aug. 2, 1920	3.45	820	1948	Feb. 6, 1948	1.73	75
1921	Mar. 14, 1921	2.12	68				
1922	Dec. 26, 1921	6.80	4,780	1949	Feb. 7, 1949	1.81	109
1923	Dec. 13, 1922	2.60	307				
1924	Mar. 27, 1924	2.10	111	1950	Feb. 7, 1950	1.74	91
1937	Feb. 7, 1937	6.50	6,100	1951	Jan. 30, 1951	1.74	78
1938	Mar. 2, 1938	7.30	8,000				
1939	Feb. 3, 1939	2.40	445	1952	Dec. 30, 1951	2.91	849
1940	Apr. 1, 1940	2.38	445		Jan. 16, 1952	2.39	438
					Jan. 18, 1952	3.31	1,220
1941	Dec. 24, 1940	4.85	3,130		Jan. 25, 1952	1.86	113
1942	Feb. 22, 1942	2.30	408		Mar. 1, 1952	2.22	303
1943	Jan. 27, 1943	3.28	1,060		Mar. 7, 1952	2.33	385
1944	Feb. 23, 1944	2.80	760		Mar. 11, 1952	2.95	840
					Mar. 13, 1952	2.67	624
1945	Nov. 12, 1944	1.90	188		Mar. 16, 1952	3.23	1,110
	Mar. 4, 1945	2.05	215		Apr. 11, 1952	2.22	348
	Mar. 15, 1945	2.70	680				
	Mar. 17, 1945	2.32	400	1953	Jan. 7, 1953	1.78	85

255. Santa Ysabel Creek near Ramona, Calif.

Location.--Lat 33°06'25", long 116°51'55", in SW¼NW¼NE¼ sec.27, T.12 S., R.1 E., on left bank 1.6 miles downstream from Temescal Creek and 4.5 miles north of Ramona.

Drainage area.--112 sq mi.

Gage.--Nonrecording prior to Feb. 3, 1923; recording thereafter. Prior to Jan. 31, 1916, at site 0.5 mile upstream at different datum. Jan. 31, 1916, to Feb. 3, 1923, at datum 0.3 ft higher. Datum of gage is 847.88 ft above mean sea level (levels by city of San Diego Water Department).

Stage-discharge relation.--Defined by current-meter measurements below 1,310 cfs and extended above on basis of slope-area measurement at 28,400 cfs prior to Jan. 31, 1916; below 4,000 cfs thereafter.

Bankfull stage.--9 ft.

Remarks.--Peaks regulated by Sutherland Reservoir (capacity, 29,680 acre-ft) beginning in July 1954. Peaks for the years 1913-15, and 1918-20 are maximum observed. Only annual peaks are shown prior to 1944 and subsequent to Sept. 30, 1953. Base for partial-duration series, 110 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Feb. 25, 1913	-	172	1949	Feb. 7, 1949	2.35	184
1914	Feb. 21, 1914	-	1,960				
1915	Feb. 11, 1915	8.05	3,330	1950	Jan. 29, 1950	-	110
					Feb. 7, 1950	2.30	174
1916	Jan. 27, 1916	14.0	28,400				
1917	Feb. 23, 1917	4.55	2,540	1951	Jan. 30, 1951	2.10	130
1918	Mar. 12, 1918	9.1	2,500				
1919	Mar. 14, 1919	2.10	110	1952	Dec. 30, 1951	6.06	2,080
1920	Mar. 26, 1920	4.60	740		Jan. 16, 1952	5.69	1,670
					Jan. 18, 1952	6.69	2,510
1921	Mar. 14, 1921	2.60	122		Jan. 25, 1952	2.55	199
1922	Dec. 20, 1921	11.6	9,860		Mar. 1, 1952	3.40	452
					Mar. 8, 1952	3.67	504
1944	Feb. 23, 1944	4.83	1,580		Mar. 11, 1952	5.55	1,470
	Feb. 26, 1944	3.93	857		Mar. 13, 1952	4.25	730
	Mar. 2, 1944	3.04	261		Mar. 16, 1952	6.18	2,060
	Mar. 5, 1944	3.13	302		Apr. 8, 1952	3.02	195
	Mar. 14, 1944	4.38	1,020		Apr. 11, 1952	3.73	422
1945	Nov. 12, 1944	3.13	290	1953	Jan. 7, 1953	2.09	125
	Feb. 3, 1945	2.84	245				
	Mar. 4, 1945	3.44	458	1954	Mar. 22, 1954	6.10	1,280
	Mar. 15, 1945	4.69	1,140	1955	Jan. 18, 1955	2.38	13
	Mar. 17, 1945	3.26	394				
	Mar. 23, 1945	4.05	734	1956	Jan. 27, 1956	4.64	496
				1957	Mar. 20, 1957	2.43	12
1946	Dec. 22, 1945	-	3,800	1958	Apr. 3, 1958	8.62	3,420
	Dec. 23, 1945	8.35	4,200	1959	Feb. 17, 1959	3.10	94
	Jan. 5, 1946	-	137	1960	Feb. 10, 1960	2.56	21
	Mar. 31, 1946	-	145				
				1961	-	-	0
1947	Nov. 23, 1946	3.84	544	1962	Jan. 20, 1962	3.08	86
				1963	Feb. 10, 1963	3.68	174
1948	Feb. 6, 1948	1.83	96	1964	Mar. 24, 1964	2.08	3.0
				1965	Apr. 10, 1965	2.79	171
1949	Jan. 23, 1949	-	140				

260. Santa Ysabel Creek near San Pasqual, Calif.
(Published as "near Escondido" prior to Oct. 1, 1912)

Location.--Lat 33°05'10", long 116°54'56", in NE¼NW¼SE¼ sec.31, T.12 S., R.1 E., on left bank 1.1 miles downstream from Clevenger Canyon and 2 miles east of San Pasqual.

Drainage area.--128 sq mi.

Gage.--Nonrecording at site a quarter of a mile downstream at different datum prior to Sept. 30, 1912; recording thereafter. Altitude of gage is 510 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 5,300 cfs prior to Sept. 30, 1912; below 610 cfs and extended above on basis of slope-area measurement at 3,750 cfs thereafter.

Remarks.--Peaks regulated by Sutherland Reservoir (capacity, 29,680 acre-ft) beginning in July 1954. Peaks prior to 1957 are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Mar. 24, 1906	-	8,000	1958	Apr. 3, 1958	9.78	3,750
1907	Jan. 18, 1907	-	500	1959	Feb. 17, 1959	2.23	74
1908	Feb. 3, 1908	-	146	1960	Feb. 11, 1960	1.71	20
1909	Jan. 22, 1909	-	6,800				
1910	Jan. 1, 1910	2.7	3,950	1961	Jan. 27, 1961	.67	.2
				1962	Mar. 23, 1962	1.99	50
1912	Mar. 10, 1912	-	630	1963	Feb. 10, 1963	3.00	176
				1964	Mar. 24, 1964	.68	.3
1957	Mar. 1, 1957	1.64	15	1965	Apr. 10, 1965	2.79	171

270. Guejito Creek near San Pasqual, Calif.

Location.--Lat 33°06'57", long 116°57'08", in NW¼NW¼SE¼ sec.23, T.12 S., R.1 W., on left bank 0.3 mile upstream from Rockwood Canyon Creek and 1.8 miles north of San Pasqual.

Drainage area.--22.5 sq mi.

Gage.--Recording. Altitude of gage is 560 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 440 cfs and extended above on basis of slope-area measurement at 1,660 cfs.

Bankfull stage.--3 ft.

Remarks.--Low peaks may be affected by diversions for irrigation since beginning of record. Only annual peaks are shown prior to Oct. 1, 1951. Base for partial-duration series, 30 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Dec. 28, 1946, Mar. 21, 1947	2.14	16	1954	Jan. 25, 1954	-	(a)
					Feb. 13, 1954	-	(a)
1948	Dec. 5, 1947	2.18	16		Mar. 22, 1954	-	(a)
1949	Feb. 7, 1949	2.35	30		Mar. 25, 1954	-	(a)
1950	Feb. 7, 1950	2.38	34				
				1955	Jan. 19, 1955	2.26	24
1951	Jan. 29, 1951	2.49	45				
				1956	Jan. 27, 1956	3.97	403
1952	Dec. 30, 1951	3.53	368				
	Jan. 13, 1952	2.61	61	1957	Jan. 29, 1957	2.12	16
	Jan. 18, 1952	4.11	842				
	Mar. 1, 1952	2.68	63	1958	Feb. 4, 1958	3.13	150
	Mar. 7, 1952	2.89	99		Feb. 25, 1958	2.42	34
	Mar. 11, 1952	2.73	71		Mar. 16, 1958	4.69	750
	Mar. 16, 1952	3.89	611		Mar. 22, 1958	5.48	1,230
	Apr. 10, 1952	2.69	65		Mar. 27, 1958	2.77	72
					Apr. 1, 1958	5.33	1,180
1953	Nov. 15, 1952	2.40	32		Apr. 3, 1958	5.83	1,660
	Dec. 2, 1952	2.38	36		Apr. 7, 1958	3.66	293

a Discharge unknown; exceeded base.

Peak stages and discharges of Guejito Creek near San Pasqual, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 17, 1959	2.47	39	1962	Feb. 21, 1962	2.61	71
					Feb. 25, 1962	2.50	42
1960	Feb. 2, 1960	2.56	48				
	Feb. 10, 1960	2.84	97	1963	Feb. 11, 1963	2.77	77
1961	Mar. 28, 1961	.79	1.6	1964	Mar. 23, 1964	1.77	7.5
1962	Jan. 20, 1962	2.37	30	1965	Apr. 10, 1965	3.02	125

285. Santa Maria Creek near Ramona, Calif.

Location.--Lat 33°03'08", long 116°56'41", in SE¼SE¼SE¼ sec.11, T.13 S., R.1 W., on left bank 3.75 miles northwest of Ramona and 4.6 miles upstream from mouth.

Drainage area.--57.6 sq mi.

Gage.--Recording. Prior to Oct. 1, 1946, at datum 1.78 ft lower. Datum of gage is 1,294.44 ft above mean sea level, datum of 1927.

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs and extended above on basis of slope-area measurement at 7,140 cfs.

Bankfull stage.--6 ft.

Remarks.--Low peaks may be affected by water pumped from stream for municipal supply beginning during period 1920-47. Only annual peaks are shown prior to Oct. 1, 1953. Base for partial-duration series, 20 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Feb. 21, 1914	-	904	1956	Mar. 31, 1956	-	-
1915	Feb. 10, 1915	7.05	1,890				
				1958	Mar. 16, 1958	2.62	241
1916	Jan. 27, 1916	15.9	7,140		Mar. 22, 1958	5.42	5,220
1917	Feb. 23, 1917	3.03	118		Mar. 28, 1958	1.79	30
1918	Mar. 12, 1918	6.0	1,370		Apr. 3, 1958	4.03	1,580
1919	Mar. 21, 1919	2.50	38		Apr. 7, 1958	2.98	437
1920	Mar. 26, 1920	3.45	198				
				1959	Feb. 22, 1959	1.22	2.1
1947	Mar. 21, 1947	1.26	1.2				
1948	Mar. 24, 1948	1.05	.3	1960	Feb. 10, 1960	1.69	20
1949	Feb. 7, 1949	1.80	12				
1950	Mar. 25, 1950	1.04	.7	1961	-	-	0
1951	-	-	0	1962	Feb. 21, 1962	1.85	40
1952	Mar. 16, 1952	4.16	1,800				
1953	Nov. 16, 1952	1.81	37	1963	-	-	0
1954	Feb. 14, 1954	2.17	96	1964	-	-	0
	Mar. 22, 1954	3.43	795				
	Mar. 25, 1954	2.88	380	1965	Apr. 12, 1965	1.62	15
1955	Jan. 18, 1955	1.72	24				

330. West Fork San Luis Rey River near Warner Springs, Calif.

Location.--Lat 33°17'50", long 116°45'30", in San Jose del Valle Grant, on left bank 0.1 mile downstream from small unnamed tributary, 2.5 miles upstream from mouth, and 7.5 miles west of Warner Springs, San Diego County.

Drainage area.--25.5 sq mi.

Gage.--Recording. Prior to Oct. 1, 1956, at different datum. Altitude of gage is 2,800 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs and extended above on basis of slope-area measurement at 2,060 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Feb. 19, 1914	4.39	580	1961	Jan. 26, 1961	4.60	0.2
				1962	Mar. 6, 1962	5.81	72
1958	Mar. 16, 1958	10.77	2,060	1963	Feb. 10, 1963	5.04	15
1959	Feb. 16, 1959	6.72	210	1964	Apr. 1, 1964	6.17	117
1960	Feb. 29, 1960	6.33	114	1965	Apr. 9, 1965	7.36	405

350. San Luis Rey River at Lake Henshaw, near Mesa Grande, Calif.
(Published as "near Mesa Grande" prior to 1923)

Location.--Lat 33°14'20", long 116°45'43", in Valle de San Jose Grant, at Henshaw Dam, 4 miles north of Mesa Grande, San Diego County.

Drainage area.--207 sq mi.

Gage.--Recording. Altitude of gage is 2,580 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs and extended above on basis of slope-area measurement at 58,600 cfs.

Historical data.--Flood of 1916 reported by Father Doyle to be highest since at least 1862.

Remarks.--Henshaw Dam, 1 mile upstream (capacity, 194,300 acre-ft), closed Oct. 7, 1922. No flow over spillway since dam was completed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Feb. 11, 1915	7.15	3,240	1919	Mar. 14, 1919	4.58	650
				1920	Feb. 22, 1920	6.95	2,630
1916	Jan. 27, 1916	18.0	58,600				
1917	Apr. 16, 1917	6.0	1,980	1921	Mar. 14, 1921	3.90	315
1918	Mar. 12, 1918	10.15	7,950	1922	Dec. 26, 1921	10.50	11,000

385. San Luis Rey River near Pala, Calif.

Location.--Lat 33°21'11", long 117°01'50", in NW¼ sec.31, T.9 S., R.1 W., 0.7 mile downstream from Agua Tibia Creek and 2.7 miles east of Pala.

Drainage area.--317 sq mi (revised).

Gage.--Nonrecording at site 550 ft downstream at different datum prior to Sept. 19, 1912; recording thereafter. Datum lowered 4.66 ft Nov. 13, 1906. Altitude of gage is 520 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 5,200 cfs prior to Sept. 19, 1912; below 810 cfs and extended above on basis of slope-area measurement at 75,500 cfs thereafter.

Remarks.--Peaks may be affected by diversion to Escondido Mutual Water Co.'s canal (capacity, about 45 cfs) since beginning of record. Peaks prior to 1913 are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Mar. 23, 1904	-	348	1911	Feb. 4, 1911	-	1,600
1905	Mar. 17, 1905	-	6,400	1913	Feb. 22, 1913	-	205
1906	Mar. 24, 1906	12.0	22,000	1914	Feb. 21, 1914	12.5	6,680
1907	Jan. 18, 1907	-	2,900	1915	Feb. 11, 1915	12.38	6,510
1908	Feb. 3, 1908	-	819				
1909	Jan. 22, 1909	12.0	4,600	1916	Jan. 27, 1916	18.1	75,000
1910	Jan. 1, 1910	12.4	5,400				

400. San Luis Rey River at Monserate Narrows, near Pala, Calif.

Location.--Lat 33°20'15", long 117°08'10", in NE¼ sec.6, T.10 S., R.2 W., on left bank 4 miles southwest of Pala and 6 miles northeast of Bonsall.

Drainage area.--373 sq mi.

Gage.--Recording. Prior to October 1946, at different datum. Oct. 22, 1946, to Nov. 30, 1954, at datum 1.0 ft higher. Altitude of gage is 270 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,150 cfs.

Bankfull stage.--8 ft.

Remarks.--Peaks regulated by Lake Henshaw (capacity, 194,300 acre-ft) beginning Oct. 7, 1922. Low peaks may be affected by several diversions above station. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Feb. 16, 1936	1.95	181	1954	Mar. 23, 1954	1.96	236
1937	Feb. 7, 1937	8.7	-	1955	Dec. 12, 1954	1.93	38
1939	Dec. 21, 1938	1.39	346	1956	Jan. 27, 1956	3.19	351
1940	Apr. 1, 1940	1.37	242	1957	-	-	0
				1958	Apr. 3, 1958	4.67	1,990
1941	Dec. 24, 1940	3.50	1,820	1959	Feb. 17, 1959	2.08	22
				1960	-	-	0
1947	Dec. 27, 1946	2.39	80				
1948	Dec. 5, 1947	1.41	12	1961	-	-	0
1949	Mar. 21, 1949	2.00	29	1962	-	-	0
1950	Feb. 12, 1950	1.36	7.3	1963	-	-	0
				1964	-	-	0
1951	Jan. 30, 1951	1.37	6.0	1965	-	-	0
1952	Mar. 16, 1952	3.65	855				

410. San Luis Rey River near Bonsall, Calif.

Location.--Lat 33°15'13", long 117°14'48", in SW¼NE¼NE¼ sec.1, T.11 S., R.4 W., on left bank 0.7 mile downstream from bridge on State Highway 76 and 2.8 miles southwest of Bonsall.

Drainage area.--512 sq mi.

Gage.--Nonrecording at site 0.8 mile upstream at different datums prior to September 1918; recording thereafter. October 1929 to Nov. 15, 1945, at datum 3.44 ft higher and Nov. 16, 1945, to Sept. 16, 1946, at datum 1.44 ft higher. Datum of gage is 108.10 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,200 cfs prior to September 1918; below 2,400 cfs and extended above on basis of mean depth-mean velocity relation thereafter.

Bankfull stage.--9 ft.

Historical data.--Peak discharge for the flood of February 1891, as determined by F. C. Finkle, consulting engineer, Los Angeles, Calif., using the slope-area method, was 128,000 cfs at site about 4 miles upstream. The flood of Feb. 11, 1915, reached a stage of 7.0 ft and a discharge of 9,000 cfs, determined at site about 3 miles upstream.

Remarks.--Peaks regulated by Lake Henshaw (capacity, 194,300 acre-ft) beginning Oct. 7, 1922. Low peaks may be affected by several diversions since beginning of record. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1891	February 1891	-	128,000	1946	Dec. 23, 1945	6.20	2,230
				1947	Mar. 21, 1947	4.15	54
1915	Feb. 11, 1915	7.0	9,000	1948	Dec. 5, 1947	4.82	225
				1949	Jan. 13, 1949	4.32	34
1918	Mar. 12, 1918	3.2	-	1950	-	-	0
1930	May 5, 1930	3.83	486	1951	-	-	0
				1952	Mar. 16, 1952	7.93	1,290
1931	Feb. 4, 1931	3.12	148	1953	Nov. 15, 1952	4.48	43
1932	Feb. 16, 1932	7.05	6,140	1954	Mar. 16, 1954	3.85	4.1
1933	Jan. 20, 1933	2.36	214	1955	Jan. 18, 1955	3.59	2.0
1934	Feb. 25, 1934	1.54	51				
1935	Dec. 14, 1934	3.05	388	1956	-	-	0
				1957	Jan. 29, 1957	3.58	.6
1936	Feb. 16, 1936	2.92	371	1958	Apr. 7, 1958	8.73	1,660
1937	Feb. 7, 1937	12.95	16,700	1959	-	-	0
1938	Mar. 3, 1938	12.60	18,100	1960	Sept.11, 1960	4.07	8.5
1939	Dec. 21, 1938	2.24	619				
1940	Feb. 3, 1940	2.60	680	1961	Jan. 26, 1961	3.62	.1
				1962	Feb. 19, 1962	4.39	5.8
1941	Dec. 24, 1940	6.00	4,760	1963	Feb. 10, 1963	4.00	1.5
1942	Mar. 15, 1942	2.39	688	1964	Nov. 21, 1963	4.37	4.9
1943	Jan. 23, 1943	5.40	3,770	1965	-	-	0
1944	Feb. 23, 1944	2.57	900				
1945	Mar. 16, 1945	2.18	592				

420. San Luis Rey River at Oceanside, Calif.
(Published as "near Oceanside" 1912-14)

Location.--Lat 33°12'48", long 117°22'33", in SW¼SE¼SW¼ sec.14, T.11 S., R.5 W., on right bank 0.7 mile upstream from bridge on U.S. Highway 101, 1.1 miles upstream from mouth, and 1.2 miles north of Oceanside.

Drainage area.--557 sq mi.

Gage.--Nonrecording prior to October 1929; recording thereafter. Prior to January 1916, at site three-quarters of a mile upstream, and January 1916 at site a quarter of a mile downstream, at different datums. Altitude of gage is 20 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs prior to September 1914; below 55,400 cfs for January 1916; below 2,400 cfs and extended above on basis of mean depth-mean velocity relation and comparison with station near Bonsall thereafter.

Bankfull stage.--15 ft.

Remarks.--Peaks regulated by Lake Henshaw (capacity, 194,300 acre-ft) beginning Oct. 7, 1922. Low peaks may be affected by several diversions above station since beginning of record. Peaks prior to 1916 are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Feb. 26, 1913	-	340	1947	-	-	0
1914	Feb. 21, 1914	4.9	6,300	1948	-	-	0
1915	Feb. 11, 1915	4.9	7,000	1949	-	-	0
				1950	-	-	0
1916	Jan. 27, 1916	-	95,600				
				1951	-	-	0
1930	May 6, 1930	4.62	330	1952	Mar. 16, 1952	9.34	468
				1953	Nov. 30, 1952	6.85	.9
1931	-	-	0	1954	-	-	0
1932	Feb. 16, 1932	6.72	4,030	1955	-	-	0
1933	Jan. 30, 1933	4.97	146				
1934	-	-	0	1956	-	-	0
1935	Feb. 7, 1935	5.36	325	1957	-	-	0
				1958	Apr. 8, 1958	12.68	1,760
1936	Feb. 17, 1936	4.73	97	1959	-	-	0
1937	Feb. 7, 1937	12.00	16,500	1960	-	-	0
1938	Mar. 3, 1938	10.75	16,500				
1939	Dec. 21, 1938	5.50	570	1961	-	-	0
1940	Feb. 3, 1940	6.20	745	1962	-	-	0
				1963	-	-	0
1941	Dec. 24, 1940	8.21	2,680	1964	-	-	0
1942	Jan. 2, 1942	6.70	300	1965	-	-	0

SANTA MARGARITA RIVER BASIN

424. Temecula Creek near Aguanga, Calif.

Location.--Lat 33°27'33", long 116°55'22", in NE¼SW¼SW¼ sec.19, T.8 S., R.1 E., on right bank, 1.6 miles downstream from Long Canyon and 3.5 miles northwest of Aguanga.

Drainage area.--132 sq mi.

Gage.--Recording. Altitude of gage is 1,590 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 50 cfs.

Peak stages and discharges of Temecula Creek near Aguanga, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Feb. 4, 1958	3.50	410	1961	Aug. 22, 1961	2.31	90
	Mar. 16, 1958	4.26	781				
	Mar. 22, 1958	4.22	767	1962	Jan. 20, 1962	2.42	106
	Mar. 27, 1958	2.54	126		Feb. 12, 1962	1.99	51
	Apr. 1, 1958	5.65	2,120		Feb. 21, 1962	2.13	56
	Apr. 3, 1958	6.57	3,540		Mar. 6, 1962	2.02	52
	Apr. 7, 1958	3.30	320				
				1963	Feb. 10, 1963	1.97	49
1959	Feb. 16, 1959	2.99	232				
				1964	Mar. 23, 1964	2.35	86
1960	Feb. 29, 1960	1.98	54				
				1965	Apr. 2, 1965	2.54	115
1961	Aug. 19, 1961	2.32	92		Apr. 10, 1965	4.06	640

425.2. Temecula Creek at Nigger Canyon, near Temecula, Calif.

Location.--Lat 33°29'44", long 116°58'44", in Pauba Grant, at upper end of Nigger Canyon, 500 ft downstream from Vail Dam and 10 miles east of Temecula, Riverside County.

Drainage area.--320 sq mi.

Gage.--Recording. Prior to Oct. 16, 1930, at site 300 ft upstream at several different datums. Altitude of gage is 1,350 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 12,500 cfs and extended above on basis of slope-area measurement at 17,100 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Jan. 31, 1923	7.9	90	1937	Feb. 6, 1937	8.90	12,800
1924	Mar. 27, 1924	8.87	342	1938	Mar. 2, 1938	11.27	14,600
1925	Apr. 5, 1925	9.21	79	1939	Dec. 20, 1938	4.96	163
				1940	Apr. 1, 1940	4.73	252
1926	Apr. 6, 1926	11.20	940				
1927	Feb. 16, 1927	19.5	17,100	1941	Dec. 24, 1940	6.85	4,220
1928	Aug. 21, 1928	10.95	60		Dec. 29, 1940	2.64	-
1929	Aug. 14, 1929	11.90	450	1942	Feb. 22, 1942	-	142
				1943	Jan. 23, 1943	4.60	3,300
1931	Feb. 5, 1931	1.34	45	1944	Feb. 22, 1944	4.26	1,000
1932	Feb. 9, 1932	3.75	1,000	1945	Mar. 15, 1945	2.69	350
1933	Jan. 29, 1933	2.40	76				
1934	Jan. 1, 1934	1.53	45	1946	July 24, 1946	3.50	1,000
1935	Aug. 23, 1935	3.20	436	1947	Nov. 23, 1946	2.04	100
				1948	Mar. 26, 1948	1.48	41
1936	Feb. 15, 1936	2.80	170				

430. Murrieta Creek at Temecula, Calif.

Location.--Lat 33°28'47", long 117°08'35", in Temecula Grant, on right bank 0.4 mile upstream from mouth and 1.0 mile south of Temecula, Riverside County.

Drainage area.--222 sq mi.

Gage.--Recording. Altitude of gage is 970 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1946. Base for partial-duration series, 55 cfs.

Peak stages and discharges of Murrieta Creek at Temecula, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Feb. 5, 1931	3.03	340	1953	Nov. 16, 1952	1.53	57
1932	Feb. 16, 1932	7.76	5,100		Dec. 2, 1952	3.01	530
1933	Jan. 20, 1933	2.63	274		Dec. 20, 1952	2.67	365
1934	Feb. 24, 1934	1.23	23				
1935	Dec. 14, 1934	2.97	228	1954	Jan. 19, 1954	3.53	694
					Jan. 25, 1954	3.76	893
1936	Feb. 15, 1936	6.00	2,580		Feb. 14, 1954	5.19	2,100
1937	Feb. 6, 1937	8.23	5,870		Mar. 22, 1954	2.75	302
1938	Mar. 2, 1938	8.7	16,800				
1939	Feb. 3, 1939	3.63	731	1955	Jan. 18, 1955	3.15	502
1940	Jan. 8, 1940	9.23	7,550		Feb. 27, 1955	1.95	100
1941	Dec. 24, 1940	9.00	7,140	1956	Jan. 27, 1956	2.02	116
1942	Feb. 22, 1942	1.59	54				
1943	Jan. 23, 1943	13.82	17,500	1957	Jan. 13, 1957	1.70	57
1944	Feb. 22, 1944	6.57	4,000		Jan. 29, 1957	2.21	137
1945	Nov. 12, 1944	4.47	1,600		Mar. 1, 1957	2.99	438
1946	Dec. 22, 1945	3.48	650	1958	Feb. 4, 1958	4.20	1,190
					Feb. 19, 1958	2.29	174
1947	Nov. 23, 1946	1.94	80		Feb. 25, 1958	1.64	62
	Dec. 26, 1946	2.25	125		Mar. 16, 1958	5.24	2,140
	Dec. 27, 1946	2.01	95		Mar. 22, 1958	3.43	657
					Mar. 27, 1958	2.73	314
1948	Feb. 5, 1948	1.61	57		Apr. 1, 1958	7.92	5,730
					Apr. 3, 1958	7.25	4,660
1949	Dec. 27, 1948	.88	12		Apr. 7, 1958	4.87	1,740
1950	Mar. 26, 1950	.58	3.6	1959	Feb. 16, 1959	2.64	280
1951	Jan. 11, 1951	.94	15	1960	Jan. 12, 1960	1.49	44
1952	Dec. 12, 1951	1.53	60	1962	Jan. 22, 1962	1.72	71
	Dec. 30, 1951	3.85	830		Feb. 12, 1962	1.77	63
	Jan. 13, 1952	4.82	1,460		Feb. 19, 1962	3.26	410
	Jan. 16, 1952	9.80	9,140				
	Jan. 18, 1952	8.85	7,440	1963	Feb. 10, 1963	6.87	3,700
	Jan. 25, 1952	1.66	66		Mar. 17, 1963	1.77	76
	Mar. 1, 1952	2.30	207				
	Mar. 7, 1952	5.93	3,180	1964	Jan. 22, 1964	1.95	42
	Mar. 11, 1952	2.65	331				
	Mar. 13, 1952	1.73	77	1965	Apr. 10, 1965	3.61	555
	Mar. 16, 1952	8.08	6,300				
	Apr. 10, 1952	3.90	1,100				

440. Santa Margarita River near Temecula, Calif.
(Published as "Temecula Creek at Railroad Canyon, near Temecula" prior to October 1952)

Location.--Lat 33°28'26", long 117°08'30", in Temecula Grant, on left bank at upper end of Temecula Canyon, 0.1 mile downstream from Murrieta Creek and 1.4 miles south of Temecula, Riverside County.

Drainage area.--588 sq mi.

Gage.--Recording. Altitude of gage is 950 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks partly regulated by Vail Lake (capacity, 49,370 acre-ft) beginning in November 1948. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Feb. 12, 1923	1.71	92	1928	Feb. 4, 1928	1.12	45
1924	Mar. 26, 1924	2.75	86	1929	Apr. 15, 1929	1.65	158
1925	Dec. 16, 1924	2.92	52	1930	Jan. 27, 1930	3.20	1,900
1926	Apr. 7, 1926	6.08	2,300	1931	Feb. 5, 1931	2.35	528
1927	Feb. 16, 1927	14.6	25,000	1932	Feb. 16, 1932	7.15	8,500

Peak stages and discharges of Santa Margarita River near Temecula, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Jan. 20, 1933	1.98	290	1949	Jan. 13, 1949	2.01	39
1934	Feb. 24, 1934	1.26	54	1950	Nov. 10, 1949	1.82	28
1935	Feb. 6, 1935	2.22	296				
				1951	Jan. 11, 1951	2.13	36
1936	Feb. 15, 1936	4.50	2,870	1952	Jan. 16, 1952	9.55	13,200
1937	Feb. 7, 1937	10.70	16,400	1953	Dec. 1, 1952	4.00	645
1938	Mar. 2, 1938	13.91	21,700	1954	Feb. 14, 1954	5.90	2,150
1939	Feb. 3, 1939	2.75	835	1955	Jan. 18, 1955	4.12	550
1940	Jan. 8, 1940	7.75	7,620				
				1956	Jan. 27, 1956	2.90	132
1941	Dec. 24, 1940	7.70	7,530	1957	Mar. 1, 1957	3.95	472
1942	Feb. 22, 1942	-	400	1958	Apr. 1, 1958	9.20	5,720
	Mar. 15, 1942	2.05	-	1959	Feb. 16, 1959	3.38	284
1943	Jan. 23, 1943	12.00	18,200	1960	Feb. 29, 1960	2.49	89
1944	Feb. 22, 1944	5.13	4,500				
1945	Nov. 12, 1944	3.35	1,600	1961	Jan. 26, 1961	1.83	16
				1962	Feb. 19, 1962	4.66	524
1946	Dec. 22, 1945	2.84	1,100	1963	Feb. 10, 1963	7.95	3,720
1947	Dec. 26, 1946	1.73	180	1964	Jan. 22, 1964	2.27	44
1948	Feb. 5, 1948	1.91	79	1965	Apr. 10, 1965	3.95	552

445. Santa Margarita River near Fallbrook, Calif.

Location.--Lat 33°25'54", long 117°15'44", in NE¼SE¼NE¼ sec.14, T.9 S., R.4 W., on right bank 180 ft upstream from De Luz Road, 1.3 miles northwest of Fallbrook, and 1.9 miles downstream from Sandia Canyon.

Drainage area.--644 sq mi.

Gage.--Recording. Prior to Oct. 1, 1955, at site 1.7 miles upstream at different datum. Altitude of gage is 280 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 8,800 cfs and extended above on basis of slope-area measurement at 33,100 cfs prior to Oct. 1, 1955; defined below 4,130 cfs thereafter.

Bankfull stage.--4 ft.

Remarks.--Peaks partly regulated by Vail Lake (capacity, 49,370 acre-ft) beginning in November 1948. Low peaks may be affected by several small diversions above station. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Dec. 16, 1924	2.05	285	1946	Dec. 22, 1945	3.05	1,300
				1947	Nov. 13, 1946	1.87	500
1926	Apr. 7, 1926	5.65	2,900	1948	Dec. 5, 1947	1.61	320
1927	Feb. 16, 1927	15.6	33,100	1949	Jan. 14, 1949	.86	53
1928	Nov. 1, 1927	4.10	47	1950	Nov. 10, 1949	.72	30
1929	Sept. 1, 1929	4.39	105				
1930	Dec. 27, 1929	5.50	-	1951	Apr. 29, 1951	.78	18
				1952	Jan. 16, 1952	8.53	14,590
1931	Feb. 5, 1931	4.30	380	1953	Dec. 20, 1952	2.67	355
1932	Feb. 16, 1932	5.10	8,800	1954	Feb. 14, 1954	6.32	2,590
1933	Jan. 21, 1933	1.90	304	1955	Jan. 19, 1955	4.41	557
1934	Jan. 1, 1934	4.15	205				
1935	Feb. 7, 1935	4.28	270	1956	Jan. 27, 1956	4.10	314
				1957	Mar. 1, 1957	4.09	322
1936	Feb. 15, 1936	4.06	2,180	1958	Apr. 1, 1958	8.77	4,720
1937	Feb. 6, 1937	7.90	17,000	1959	Feb. 17, 1959	3.21	157
1938	Mar. 2, 1938	14.00	28,000	1960	Jan. 12, 1960	2.74	59
1939	Feb. 3, 1939	4.50	824				
1940	Jan. 8, 1940	6.80	10,500	1961	Jan. 26, 1961	2.34	8.6
				1962	Feb. 20, 1962	3.96	364
1941	Dec. 24, 1940	6.80	10,700	1963	Feb. 10, 1963	8.30	4,090
1942	Mar. 15, 1942	1.15	226	1964	Jan. 22, 1964	2.67	39
1943	Jan. 23, 1943	10.72	22,000	1965	Apr. 10, 1965	4.16	450
1944	Feb. 22, 1944	5.06	5,000				
1945	Nov. 12, 1944	3.86	1,800				

449. De Luz Creek near Fallbrook, Calif.

Location.--Lat 33°22'10", long 117°19'15", in NW¼NE¼ sec.29, T.9 S., R.4 W., on left bank 0.65 mile upstream from mouth and 4.2 miles west of Fallbrook.

Drainage area.--47.5 sq mi.

Gage.--Recording. Prior to Dec. 23, 1958, at site 750 ft upstream at same datum. Altitude of gage is 150 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 300 cfs and extended above on basis of slope-area measurements at 1,800, 2,580, and 2,800 cfs prior to Dec. 23, 1958; below 400 cfs thereafter.

Bankfull stage.--14 ft.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 13, 1952	9.10	720	1958	Mar. 22, 1958	9.23	620
	Jan. 16, 1952	12.50	2,580		Mar. 27, 1958	8.60	354
	Mar. 7, 1952	10.16	1,330		Apr. 1, 1958	12.07	2,800
	Mar. 10, 1952	7.58	211		Apr. 3, 1958	11.07	2,160
	Apr. 10, 1952	8.95	535		Apr. 7, 1958	9.43	620
1953	Jan. 7, 1953	8.19	214	1959	Feb. 16, 1959	7.08	490
1954	Jan. 19, 1954	11.12	1,800	1960	Feb. 2, 1960	5.51	29
	Jan. 25, 1954	9.25	630				
	Feb. 13, 1954	10.44	1,320	1961	-	-	0
	Mar. 30, 1954	8.42	218				
				1962	Jan. 20, 1962	6.35	216
1955	Feb. 28, 1955	7.87	54		Feb. 19, 1962	6.45	240
1956	Jan. 26, 1956	9.55	782	1963	Feb. 10, 1963	5.72	58
1957	Mar. 1, 1957	7.78	43	1964	Jan. 22, 1964	5.71	45
1958	Feb. 4, 1958	9.37	428	1965	Apr. 10, 1965	6.80	557
	Mar. 16, 1958	11.62	2,200				

460. Santa Margarita River at Ysidora, Calif.

Location.--Lat 33°14'38", long 117°22'56", in NE¼SE¼SE¼ sec.3, T.11 S., R.5 W., on right bank 1 mile downstream from Ysidora and 2.5 miles upstream from mouth.

Drainage area.--739 sq mi.

Gage.--Recording. Prior to Feb. 17, 1927, at site 1 mile upstream at different datum. Feb. 2, 1931, to Nov. 27, 1935, at datum 1.00 ft higher. Altitude of gage is 10 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,600 cfs and extended above on basis of slope-area measurement at 33,600 cfs prior to Feb. 16, 1927; below 11,700 cfs thereafter.

Bankfull stage.--14 ft.

Remarks.--Low peaks may be affected by diversions above station for irrigation of Santa Margarita and Pauba Ranches since beginning of record. Flow partly regulated by Vail Lake (capacity, 49,370 acre-ft) beginning in November 1948. Water-stage recorder graph furnished by Santa Margarita Ranch (U.S. Navy) and Pauba Ranch. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Mar. 28, 1924	-	76	1931	Feb. 5, 1931	3.51	642
1925	Jan. 27, 1925	-	20	1932	Feb. 16, 1932	6.46	6,000
				1933	Jan. 30, 1933	2.25	381
1926	Apr. 8, 1926	13.82	4,000	1934	Jan. 1, 1934	4.08	1,660
1927	Feb. 16, 1927	18.00	33,600	1935	Feb. 7, 1935	2.65	445

Peak stages and discharges of Santa Margarita River at Ysidora, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Feb. 15, 1936	5.40	2,580	1951	-	-	0
1937	Feb. 7, 1937	10.50	23,000	1952	Jan. 16, 1952	12.63	7,670
1938	Mar. 3, 1938	12.70	31,000	1953	Jan. 9, 1953	-	-
1939	Feb. 4, 1939	6.78	811	1954	Feb. 14, 1954	10.80	4,320
1940	Jan. 8, 1940	9.10	9,650	1955	-	-	0
1941	Dec. 24, 1940	9.75	9,600	1956	-	-	0
1942	Feb. 23, 1942	7.50	212	1957	-	-	0
1943	Jan. 23, 1943	14.05	19,000	1958	Apr. 2, 1958	12.78	5,000
1944	Feb. 23, 1944	9.28	4,800	1959	-	-	0
1945	Nov. 12, 1944	8.80	3,500	1960	-	-	0
1946	Dec. 22, 1945	8.33	2,000	1961	-	-	0
1947	Dec. 26, 1946	7.39	422	1962	-	-	0
1948	Feb. 6, 1948	6.31	37	1963	-	-	0
1949	Feb. 25, 1949	6.38	34	1964	-	-	0
1950	-	-	0	1965	-	-	0

LAS FLORES CREEK BASIN

461. Las Flores Creek near Oceanside, Calif.

Location.--Lat 33°17'32", long 117°27'21", in NW¼SE¼ sec.24, T.10 S., R.6 W., on upstream side and at center of bridge on Atchison, Topeka and Santa Fe Railway, 0.5 mile upstream from mouth and 8.5 miles northwest of Oceanside.

Drainage area.--26.6 sq mi.

Gage.--Recording. Altitude of gage is 35 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended above on basis of a field estimate at 740 cfs and a contracted-opening measurement at 960 cfs.

Banfkull stage.--8 ft.

Remarks.--Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 16, 1952	4.75	960	1958	Apr. 3, 1958	2.70	545
	Jan. 18, 1952	3.42	565		Apr. 7, 1958	3.04	618
	Mar. 7, 1952	2.82	406				
	Mar. 15, 1952	3.05	465	1959	Jan. 6, 1959	2.60	520
	Apr. 10, 1952	3.29	529		Feb. 11, 1959	1.32	187
1953	Dec. 2, 1952	1.43	100	1960	Feb. 2, 1960	1.60	238
					Apr. 27, 1960	.91	100
1954	Jan. 19, 1954	1.97	230				
	Jan. 25, 1954	1.63	161	1961	Jan. 26, 1961	.62	8.5
	Feb. 13, 1954	2.61	425				
				1962	Dec. 2, 1961	1.10	142
1955	Jan. 18, 1955	.66	13		Jan. 20, 1962	1.35	194
					Feb. 8, 1962	1.55	238
1956	Jan. 27, 1956	3.78	666		Feb. 19, 1962	1.05	132
1957	Jan. 29, 1957	.79	19	1963	Sept.18, 1963	.56	27
1958	Feb. 25, 1958	.96	103	1964	Nov. 20, 1963	.88	102
	Mar. 16, 1958	3.65	740				
	Mar. 22, 1958	1.22	166	1965	Apr. 1, 1965	.87	80
	Apr. 1, 1958	2.80	570				

462. San Onofre Creek near San Onofre, Calif.

Location.--Lat 33°23'23", long 117°30'50", in SE¼SW¼ sec.16, T.9 S., R.6 W., on left bank 0.3 mile southwest of Tent Camp No. 2, 0.5 mile downstream from ford on Basilone Road, 4 miles east of San Onofre, and 5 miles upstream from mouth.

Drainage area.--34.6 sq mi.

Gage.--Recording. Prior to June 1957, at datum 1.00 ft higher. Altitude of gage is 170 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 370 cfs and extended above on basis of slope-area measurements at 1,340 and 1,860 cfs, and comparison with discharges for station on San Onofre Creek at San Onofre.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Apr. 29, 1951	1.78	32	1958	Mar. 22, 1958	3.05	266
					Apr. 1, 1958	5.90	2,680
1952	Jan. 13, 1952	3.88	720		Apr. 7, 1958	3.37	495
	Jan. 16, 1952	5.60	1,860				
	Mar. 7, 1952	3.89	725	1959	Jan. 6, 1959	5.94	1,340
	Mar. 11, 1952	3.42	480		Feb. 11, 1959	3.54	321
	Mar. 15, 1952	4.91	1,350		Feb. 16, 1959	2.58	184
	Apr. 10, 1952	3.27	418				
				1960	Jan. 12, 1960	3.35	460
1953	Nov. 16, 1952	2.40	96		Feb. 1, 1960	3.18	381
					Apr. 27, 1960	2.78	229
1954	Jan. 19, 1954	4.56	1,110				
	Jan. 25, 1954	3.57	555	1961	Nov. 27, 1960	1.47	24
	Feb. 13, 1954	3.79	692				
	Mar. 30, 1954	2.03	196	1962	Dec. 2, 1961	2.45	275
					Jan. 20, 1962	3.08	588
1955	Jan. 18, 1955	1.62	76		Feb. 8, 1962	2.08	179
					Feb. 11, 1962	2.26	206
1956	Jan. 26, 1956	4.05	940		Feb. 19, 1962	2.87	465
1957	Mar. 1, 1957	1.12	43	1963	Feb. 10, 1963	2.08	128
1958	Feb. 4, 1958	4.13	623	1964	Jan. 22, 1964	2.14	131
	Feb. 19, 1958	2.89	229				
	Feb. 25, 1958	2.96	291	1965	Apr. 9, 1965	3.72	1,060
	Mar. 16, 1958	5.02	1,700				

462.5. San Onofre Creek at San Onofre, Calif.

Location.--Lat 33°23'00", long 117°34'22", in SE¼SE¼SE¼ sec.14, T.9 S., R.7 W., on left bank 0.2 mile north of San Onofre, 0.3 mile upstream from U.S. Highway 101, and 0.5 mile upstream from mouth.

Drainage area.--42.2 sq mi.

Gage.--Recording. Altitude of gage is 15 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Bankfull stage.--11 ft.

Remarks.--Low peaks may be affected by pumping above station for irrigation and water supply. Base for partial-duration series, 150 cfs.

Peak stages and discharges of San Onofre Creek at San Onofre, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	-	-	0	1958	Feb. 4, 1958	5.22	595
					Feb. 9, 1958	3.61	203
1948	-	-	0		Feb. 25, 1958	3.83	268
					Mar. 16, 1958	6.06	1,660
1949	-	-	0		Mar. 22, 1958	3.67	220
					Apr. 1, 1958	6.90	2,600
1950	-	-	0		Apr. 7, 1958	4.35	462
1951	-	-	0	1959	Jan. 6, 1959	6.92	990
					Feb. 11, 1959	5.40	370
1952	Jan. 13, 1952	3.90	614				
	Jan. 16, 1952	7.63	2,060	1960	Jan. 12, 1960	4.93	242
	Jan. 18, 1952	5.26	1,020		Feb. 2, 1960	5.17	302
	Mar. 7, 1952	4.50	758		Apr. 27, 1960	4.85	222
	Mar. 11, 1952	3.56	375				
	Apr. 10, 1952	3.58	345	1961	-	-	0
1953	Jan. 7, 1953	2.33	20	1962	Dec. 2, 1961	4.81	212
					Jan. 20, 1962	5.68	454
1954	Jan. 19, 1954	4.60	560		Feb. 19, 1962	5.16	300
	Jan. 25, 1954	3.94	231				
	Feb. 13, 1954	4.24	380	1963	Mar. 17, 1963	4.44	36
1955	Jan. 18, 1955	3.96	1.8	1964	-	-	0
1956	Jan. 26, 1956	5.69	662	1965	Apr. 10, 1965	7.65	1,400
1957	Apr. 21, 1957	2.82	16				

SAN MATEO CREEK BASIN

463. San Mateo Creek near San Clemente, Calif.

Location.--Lat 33°28'15", long 117°28'20", in SE¼NE¼ sec.23, T.8 S., R.6 W., on left bank 0.4 mile downstream from mouth of Devil Canyon and 8.6 miles northeast of San Clemente.

Drainage area.--80.8 sq mi.

Gage.--Recording. Altitude of gage is 405 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 750 cfs and extended above on basis of slope-area measurements at 1,410 and 1,800 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Brush fire denuded the basin in 1959. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Jan. 7, 1953	4.43	60	1959	Feb. 11, 1959	5.29	341
					Feb. 16, 1959	5.68	519
1954	Jan. 19, 1954	7.67	1,410				
	Jan. 25, 1954	7.03	941	1960	Jan. 14, 1960	6.62	762
	Feb. 13, 1954	6.18	450		Feb. 1, 1960	6.92	894
	Mar. 25, 1954	5.49	205		Apr. 27, 1960	6.26	500
1955	Jan. 18, 1955	5.83	286	1961	Jan. 26, 1961	3.70	2.7
1956	Jan. 27, 1956	7.81	1,720	1962	Jan. 20, 1962	6.75	380
					Feb. 11, 1962	6.48	350
1957	Mar. 1, 1957	4.28	32		Feb. 19, 1962	6.35	288
					Mar. 19, 1962	6.17	221
1958	Feb. 4, 1958	7.54	1,730				
	Feb. 19, 1958	5.53	327	1963	Feb. 10, 1963	7.54	1,300
	Mar. 16, 1958	9.05	4,100				
	Mar. 22, 1958	7.05	1,440	1964	Jan. 22, 1964	5.34	55
	Apr. 1, 1958	9.10	4,800				
	Apr. 7, 1958	6.05	825	1965	Apr. 9, 1965	7.31	2,230

463.5. Cristianitos Creek near San Clemente, Calif.

Location.--Lat 33°26'57", long 117°34'13", in SW¼NW¼ sec.25, T.8 S., R.7 W., on right bank 900 ft downstream from Talenga Canyon, 2.3 miles upstream from mouth, and 2.8 miles northeast of San Clemente.

Drainage area.--29.0 sq mi.

Gage.--Recording. Prior to Sept. 19, 1952, at datum 3.92 ft higher. Altitude of gage is 165 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 360 cfs and extended above on basis of slope-area measurements at 1,050 and 1,800 cfs.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	-	-	0	1958	Feb. 25, 1958	4.68	214
					Mar. 16, 1958	7.34	1,080
1952	Jan. 13, 1952	3.54	342		Mar. 22, 1958	5.13	349
	Jan. 16, 1952	4.94	1,800		Mar. 27, 1958	4.95	283
	Jan. 18, 1952	3.00	720		Apr. 1, 1958	7.48	1,130
	Mar. 7, 1952	2.40	495		Apr. 3, 1958	5.88	574
	Mar. 15, 1952	2.60	565		Apr. 7, 1958	5.58	484
	Apr. 10, 1952	1.20	159				
				1959	Feb. 11, 1959	4.39	107
1953	Nov. 15, 1952	4.58	134				
	Nov. 22, 1952	4.61	204	1960	Jan. 14, 1960	4.75	232
	Dec. 2, 1952	4.85	271		Feb. 1, 1960	5.03	319
	Dec. 20, 1952	4.48	165		Apr. 27, 1960	4.89	277
	Dec. 30, 1952	4.28	132				
	Jan. 7, 1953	4.16	117	1961	-	-	0
1954	Jan. 19, 1954	4.26	119	1962	Dec. 2, 1961	6.21	454
	Jan. 25, 1954	4.67	206		Jan. 20, 1962	6.02	378
	Feb. 13, 1954	4.86	292		Feb. 8, 1962	4.98	107
	Mar. 30, 1954	4.08	115		Feb. 19, 1962	6.02	398
1955	Jan. 10, 1955	3.85	57	1963	Feb. 10, 1963	7.16	890
					Mar. 17, 1963	5.53	232
1956	Jan. 27, 1956	6.06	504				
				1964	Mar. 23, 1964	4.72	69
1957	Jan. 29, 1957	3.60	3.9				
				1965	Apr. 9, 1965	5.00	110
1958	Feb. 4, 1958	4.33	111				

463.7. San Mateo Creek at San Onofre, Calif.

Location.--Lat 33°23'46", long 117°35'21", in NW¼NW¼NW¼ sec.14, T.9 S., R.7 W., on right bank 0.3 mile upstream from U.S. Highway 101, 0.8 mile upstream from mouth, 1.3 miles northwest of San Onofre, and 2.25 miles downstream from Cristianitos Creek.

Drainage area.--132 sq mi.

Gage.--Recording. Altitude of gage is 20 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,470 cfs.

Bankfull stage.--8 ft.

Remarks.--Low peaks regulated by percolation basins. Base for partial-duration series, 150 cfs.

Peak stages and discharges of San Mateo Creek at San Onofre, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Dec. 27, 1946	2.70	0.4	1956	Jan. 26, 1956	8.67	a4,570
1948	-	-	0	1957	-	-	0
1949	-	-	0	1958	Feb. 4, 1958	4.89	735
					Mar. 7, 1958	6.85	948
1950	-	-	0		Mar. 16, 1958	5.93	4,420
					Mar. 22, 1958	3.32	714
1951	-	-	0		Mar. 28, 1958	2.30	404
					Apr. 1, 1958	5.62	4,650
1952	Jan. 13, 1952	4.93	2,460		Apr. 7, 1958	3.96	1,580
	Jan. 16, 1952	5.37	3,520				
	Mar. 7, 1952	4.45	1,590	1959	Feb. 17, 1959	6.28	a4,000
	Mar. 11, 1952	3.52	514				
	Mar. 15, 1952	-	2,600	1961	-	-	0
	Apr. 10, 1952	3.79	321				
				1962	Feb. 11, 1962	5.64	1,940
1953	Dec. 2, 1952	3.87	345		Feb. 19, 1962	5.20	1,560
	Dec. 20, 1952	3.36	169				
				1963	-	-	0
1954	Jan. 19, 1954	5.78	1,260				
	Jan. 25, 1954	5.11	828	1964	-	-	0
	Feb. 14, 1954	4.41	484				
	Mar. 25, 1954	3.52	202	1965	-	-	0
1955	-	-	0				

a Result of failure of temporary dam.

SAN JUAN CREEK BASIN

465. San Juan Creek near San Juan Capistrano, Calif.

Location.--Lat 33°31'08", long 117°37'27", in NE¼NE¼SE¼ sec.32, T.7 S., R.7 W., on right pier of bridge on State Highway 74, 2.5 miles northeast of San Juan Capistrano.

Drainage area.--106 sq mi.

Gage.--Recording. Prior to Feb. 28, 1934, at site 2½ miles downstream at different datum. Feb. 28, 1934, to Dec. 10, 1938, at different datum. Dec. 11, 1938, to Dec. 17, 1941, at datum 2.00 ft higher. Altitude of gage is 150 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs and extended above on basis of velocity-area study prior to Feb. 28, 1934; below 2,000 cfs and extended above on basis of slope-area measurements at 3,930 and 13,000 cfs thereafter.

Bankfull stage.--7 ft.

Remarks.--Low peaks may be affected by Capistrano Water Co.'s canal which diverts water 500 ft upstream from station. Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 10, 1929	0.82	4.0	1944	Feb. 22, 1944	4.28	1,360
1930	Mar. 16, 1930	2.90	1,230		Feb. 26, 1944	3.12	539
1931	Feb. 5, 1931	1.52	277	1945	Feb. 2, 1945	3.26	500
1932	Feb. 9, 1932	2.15	1,200		Mar. 4, 1945	2.66	210
1933	Jan. 19, 1933	2.18	199		Mar. 15, 1945	3.41	600
1934	Jan. 1, 1934	2.95	318				
1935	Apr. 8, 1935	2.22	135	1946	Dec. 23, 1945	3.13	350
1936	Feb. 16, 1936	2.66	407	1947	Nov. 13, 1946	2.42	59
1937	Feb. 6, 1937	-	8,300				
1938	Mar. 2, 1938	-	13,000	1948	Feb. 5, 1948	1.99	9.4
1939	Dec. 19, 1938	2.78	275				
1940	Feb. 3, 1940	3.18	790	1949	Feb. 27, 1949	1.78	3.6
1941	Feb. 21, 1941	a3.46	1,950	1950	Jan. 11, 1950	2.02	3.6
1942	Mar. 15, 1942	1.28	21				
1943	Jan. 23, 1943	-	5,800	1951	Mar. 2, 1951	1.87	1.8

a Occurred Feb. 20, 1941.

Peak stages and discharges of San Juan Creek near San Juan Capistrano, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 16, 1952	4.37	1,640	1960	Feb. 2, 1960	2.65	800
	Mar. 7, 1952	2.49	575				
	Mar. 11, 1952	2.08	358	1961	Jan. 28, 1961	1.06	1.8
	Mar. 16, 1952	4.65	3,330				
				1962	Dec. 2, 1961	2.25	240
1953	Dec. 20, 1952	1.49	29		Jan. 20, 1962	2.45	352
					Feb. 8, 1962	2.18	206
1954	Jan. 25, 1954	2.87	458		Feb. 12, 1962	2.52	400
					Feb. 15, 1962	2.40	320
1955	Jan. 18, 1955	1.76	18		Feb. 19, 1962	2.63	484
					Mar. 6, 1962	2.27	250
1956	Jan. 27, 1956	4.80	3,750		Mar. 19, 1962	2.60	460
1957	Jan. 13, 1957	2.31	14	1963	Feb. 10, 1963	2.48	129
1958	Mar. 16, 1958	6.50	3,920	1964	Nov. 21, 1963	1.82	13
	Mar. 22, 1958	5.38	2,360				
	Mar. 27, 1958	2.58	290	1965	Apr. 10, 1965	1.92	11
	Apr. 3, 1958	4.32	2,110				
1959	Feb. 11, 1959	2.50	260				

470. Arroyo Trabuco near San Juan Capistrano, Calif.
(Published as Trabuco Creek prior to October 1956)

Location.--Lat 33°31'36", long 117°40'08", in NE¼NE¼NW¼ sec.36, T.7 S., R.8 W., on downstream side of right pier of county road bridge (formerly U.S. Highway 101), 1.8 miles north of San Juan Capistrano.

Drainage area.--35.7 sq mi.

Gage.--Recording. Altitude of gage is 180 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 960 cfs.

Bankfull stage.--9 ft.

Remarks.--Records furnished by Orange County Flood Control District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Feb. 8, 1932	3.42	381	1949	Jan. 13, 1949	1.79	3.6
1933	Jan. 19, 1933	3.07	39	1950	Jan. 11, 1950	1.96	3.8
1934	Jan. 1, 1934	4.3	63				
1935	Jan. 5, 1935	5.35	198	1951	Jan. 8, 1951	1.95	.2
				1952	Jan. 16, 1952	3.55	850
1936	Feb. 15, 1936	-	160	1953	Dec. 1, 1952	1.86	3.6
1937	Feb. 6, 1937	6.80	9,240	1954	Jan. 25, 1954	2.55	66
1938	Mar. 2, 1938	7.50	4,400	1955	Jan. 18, 1955	2.01	3.7
1939	Feb. 3, 1939	2.57	188				
1940	Feb. 3, 1940	4.15	358	1956	Jan. 27, 1956	3.35	745
				1957	Jan. 13, 1957	1.95	3.1
1941	Feb. 21, 1941	3.70	876	1958	Mar. 16, 1958	4.17	1,930
				1959	Feb. 21, 1959	1.80	2.0
1943	Jan. 23, 1943	4.80	2,850	1960	Feb. 1, 1960	2.44	182
1944	Feb. 22, 1944	2.92	896				
1945	Mar. 15, 1945	2.16	218	1961	Nov. 6, 1960	1.87	1.6
				1962	Feb. 21, 1962	2.82	93
1946	Dec. 23, 1945	1.94	133	1963	Feb. 10, 1963	2.27	9.2
1947	Nov. 23, 1946	2.43	92	1964	Nov. 20, 1963	2.51	11
1948	Dec. 5, 1947	1.86	6.7	1965	Apr. 8, 1965	2.27	31

475. Aliso Creek at El Toro, Calif.

Location.--Lat 33°37'34", long 117°41'03", in Canada de los Alisos Grant, near center of channel on upstream side of Second Street Bridge at El Toro, Orange County.

Drainage area.--7.97 sq mi.

Gage.--Recording. Prior to July 1962, at different datum. Altitude of gage is 440 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 370 cfs.

Bankfull stage.--6 ft.

Remarks.--Records furnished by Orange County Flood Control District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	-	-	2.9	1949	Jan. 12, 1949	5.95	2.3
1932	Feb. 1, 1932	4.85	508	1950	Feb. 6, 1950	6.59	85
1933	Jan. 19, 1933	4.39	352				
1934	Jan. 1, 1934	6.35	495	1951	-	-	0
1935	Mar. 2, 1935	8.10	1,240	1952	Jan. 16, 1952	9.54	950
				1953	Dec. 1, 1952	5.95	133
1936	Feb. 12, 1936	8.60	1,420	1954	Feb. 13, 1954	6.03	122
1937	Feb. 6, 1937	11.20	1,950	1955	Jan. 18, 1955	6.08	15
1938	Mar. 2, 1938	10.3	1,280				
1939	Feb. 3, 1939	7.0	231	1956	Jan. 26, 1956	7.60	506
1940	Feb. 3, 1940	-	528	1957	Jan. 13, 1957	5.65	2.1
				1958	Mar. 16, 1958	9.30	965
1941	Mar. 1, 1941	8.70	633	1959	Jan. 6, 1959	5.95	2.1
1942	Apr. 11, 1942	5.80	20	1960	Jan. 12, 1960	6.28	32
1943	Jan. 23, 1943	9.80	942				
1944	Feb. 22, 1944	9.62	881	1961	-	-	0
1945	Nov. 14, 1944	9.03	680	1962	Feb. 15, 1962	2.63	73
				1963	Feb. 10, 1963	2.31	88
1946	Dec. 22, 1945	7.25	183	1964	Nov. 20, 1963	2.37	67
1947	Nov. 23, 1946	6.70	90	1965	Apr. 10, 1965	2.83	73
1948	Dec. 5, 1947	6.90	103				

PETERS CANYON WASH BASIN

485. San Diego Creek near Irvine, Calif.

Location.--Lat 33°40'20", long 117°47'10", in San Joaquin Grant, on left bank 200 ft downstream from Jeffrey Road Bridge and 1.5 miles west of Irvine, Orange County.

Drainage area.--40.3 sq mi.

Gage.--Recording. Datum of gage is 102.86 ft above mean sea level (levels by Orange County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs and extended above on basis of slope-area measurement at 4,040 cfs.

Bankfull stage.--11 ft.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Feb. 6, 1950	2.38	244	1953	Nov. 15, 1952	2.93	755
					Nov. 29, 1952	2.50	560
1951	May 5, 1951	.62	.4		Dec. 1, 1952	4.66	1,740
					Dec. 20, 1952	2.19	434
1952	Jan. 13, 1952	3.90	1,280		Dec. 30, 1952	2.08	382
	Jan. 16, 1952	6.75	3,260				
	Jan. 18, 1952	7.70	4,040	1954	Jan. 19, 1954	2.73	659
	Mar. 7, 1952	3.30	1,020		Jan. 25, 1954	1.75	251
	Mar. 16, 1952	4.25	1,700		Feb. 13, 1954	2.95	722

Peak stages and discharges of San Diego Creek near Irvine, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Mar. 16, 1954	1.95	294	1960	Jan. 12, 1960	3.66	942
					Jan. 14, 1960	3.00	530
1955	Jan. 10, 1955	2.43	259		Feb. 1, 1960	3.70	970
	Jan. 18, 1955	2.70	360		Feb. 29, 1960	2.40	235
	Feb. 27, 1955	3.60	900		Apr. 27, 1960	3.73	991
1956	Jan. 26, 1956	3.93	914	1961	Nov. 6, 1960	4.10	1,140
					Nov. 26, 1960	2.45	244
1957	Feb. 23, 1957	2.55	298				
	Feb. 28, 1957	2.70	370	1962	Dec. 2, 1961	3.29	470
	Apr. 21, 1957	2.55	298		Jan. 20, 1962	2.67	231
					Feb. 11, 1962	3.45	550
1958	Feb. 4, 1958	3.40	582		Feb. 15, 1962	3.15	410
	Feb. 19, 1958	3.15	440		Feb. 20, 1962	3.79	734
	Feb. 25, 1958	2.97	343				
	Mar. 12, 1958	3.12	423	1963	Feb. 9, 1963	3.22	439
	Mar. 16, 1958	5.35	1,880		Mar. 16, 1963	2.97	338
	Apr. 1, 1958	4.90	1,540				
	Apr. 6, 1958	4.35	1,160	1964	Nov. 20, 1963	5.90	2,210
					Jan. 21, 1964	3.28	342
1959	Jan. 6, 1959	3.50	835		Mar. 23, 1964	3.06	261
	Feb. 16, 1959	2.50	275				
	Feb. 21, 1959	2.65	345	1965	Apr. 1, 1965	3.20	410

SANTA ANA RIVER BASIN

515. Santa Ana River near Mentone, Calif.

Location.--Lat 34°06'40", long 117°05'54", in NW¼NE¼SW¼ sec.4, T.1 S., R.2 W., on left bank near mouth of canyon, 1.8 miles upstream from Mill Creek and 3.5 miles northeast of Mentone.

Drainage area.--209 sq mi.

Gage.--Nonrecording prior to Sept. 2, 1917; recording thereafter. Datum of gage is 1,984.28 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs and extended above on basis of slope-area measurements at 24,000, 29,100, and 52,300 cfs.

Bankfull stage.--Not subject to overflow.

Historical floods.--Peak discharge for flood of February 23, 1891, was 53,700 cfs, determined by slope-area measurement, from notes furnished by F. C. Finkle, consulting engineer, Los Angeles.

Remarks.--Peaks partly regulated by Big Bear Lake (capacity since 1912, 72,200 acre-ft) beginning in 1884. Peaks may be affected by diversion to Southern California Edison Co.'s canal below powerplant No. 2 since beginning of record. Only annual peaks are shown prior to Oct. 1, 1949. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1891	Feb. 23, 1891	-	53,700	1930	May 3, 1930	2.50	-
1916	Jan. 27, 1916	-	29,100	1931	Aug. 29, 1931	5.50	1,500
1917	Feb. 25, 1917	2.1	164				
1918	Mar. 7, 1918	5.54	3,780	1933	Jan. 29, 1933	2.18	73
1919	Sept.29, 1919	2.28	145	1934	Dec. 31, 1933	5.50	1,880
1920	Feb. 22, 1920	5.48	2,700	1935	Apr. 8, 1935	3.80	780
1921	Mar. 14, 1921	4.20	1,100	1936	Feb. 11, 1936	4.70	820
1922	Dec. 20, 1921	5.45	3,600	1937	Feb. 6, 1937	7.10	8,000
1923	Dec. 13, 1922	5.0	1,800	1938	Mar. 2, 1938	14.3	52,300
1924	Mar. 27, 1924	2.18	194	1939	Sept.25, 1939	7.35	772
1925	July 23, 1925	1.61	67	1940	Jan. 8, 1940	-	1,390
1926	Apr. 6, 1926	5.03	1,850	1941	Dec. 24, 1940	8.56	3,080
1927	Feb. 16, 1927	-	24,000	1942	Apr. 4, 1942	4.95	134
1928	Feb. 4, 1928	2.72	354	1943	Jan. 23, 1943	9.20	5,200
1929	Apr. 4, 1929	2.89	520	1944	Feb. 22, 1944	7.00	890

Peak stages and discharges of Santa Ana River near Mentone, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Feb. 2, 1945	8.28	2,500	1958	Dec. 17, 1957	6.99	314
					Jan. 26, 1958	6.95	265
1946	Dec. 23, 1945	8.88	4,000		Feb. 4, 1958	7.52	492
1947	Nov. 23, 1946	7.75	1,450		Feb. 19, 1958	6.92	314
1948	Apr. 3, 1948	6.56	157		Mar. 16, 1958	8.60	1,290
1949	Jan. 20, 1949	6.62	108		Mar. 22, 1958	7.63	574
					Apr. 1, 1958	8.72	1,370
1950	Dec. 19, 1949	6.84	170		Apr. 3, 1958	9.45	2,170
	Feb. 7, 1950	-	350		July 29, 1958	6.85	169
					Sept. 8, 1958	6.80	180
1951	May 14, 1951	6.09	38				
				1959	Feb. 16, 1959	8.03	652
1952	Dec. 30, 1951	7.80	1,020				
	Jan. 13, 1952	7.11	380	1960	Apr. 27, 1960	6.36	82
	Jan. 16, 1952	7.50	740				
	Mar. 10, 1952	6.80	231	1961	Nov. 6, 1960	6.08	41
	Mar. 15, 1952	7.40	618				
				1962	Dec. 2, 1961	8.19	520
1953	Jan. 7, 1953	6.94	244		Jan. 20, 1962	7.19	332
					Feb. 8, 1962	7.90	700
1954	Jan. 19, 1954	7.95	1,080		Feb. 11, 1962	8.11	848
	Jan. 25, 1954	8.53	2,050		Feb. 15, 1962	7.62	445
	Feb. 14, 1954	6.92	267				
	Mar. 22, 1954	8.13	1,940	1963	Feb. 10, 1963	8.40	880
	Mar. 25, 1954	6.55	231		Sept.19, 1963	6.77	192
1955	Nov. 11, 1954	6.55	278	1964	Apr. 2, 1964	6.57	92
1956	Jan. 26, 1956	8.17	1,200	1965	Apr. 2, 1965	6.67	152
					Apr. 9, 1965	7.88	688
1957	Jan. 13, 1957	8.60	1,710				

540. Mill Creek near Yucaipa, Calif.
(Published as "near Craftonville" prior to October 1954)

Location.--Lat 34°05'27", long 117°02'12", in NW¼NE¼NE¼ sec.13, T.1 S., R.2 W., on left bank 50 ft downstream from bridge on State Highway 190-D, 3.9 miles north of Yucaipa, and 5.3 miles upstream from mouth.

Drainage area.--38.1 sq mi.

Gage.--Recording. Prior to August 1926, at site 100 ft upstream at different datums. August 1926 to Mar. 2, 1938, at site 500 ft downstream at different datum. Datum of gage is 2,916.36 ft above mean sea level (Southern California Edison Co. bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 260 cfs prior to August 1926; below 400 cfs and extended above on basis of slope-area measurement at 18,100 cfs for period August 1926 to Mar. 2, 1938; below 160 cfs and extended above on basis of slope-area measurements at 410 and 1,060 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Low peaks may be affected by Mill Creek power canals Nos. 1, 2, and 3 diverting from points 100 ft, 3 miles, and 6 miles above station, respectively, since beginning of record. Only annual peaks are shown prior to Oct. 1, 1951. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Feb. 22, 1920	2.00	650	1930	May 13, 1930	2.05	55
1921	Mar. 14, 1921	.90	280	1931	July 27, 1931	3.40	-
1922	Dec. 20, 1921	4.80	896	1932	Feb. 9, 1932	3.56	400
1923	Dec. 13, 1922	3.20	440	1933	Jan. 29, 1933	1.27	12
				1934	Jan. 1, 1934	3.10	328
1925	Dec. 16, 1924	-	3	1935	Aug. 23, 1935	2.82	246
1926	Apr. 5, 1926	5.2	900	1936	Feb. 11, 1936	3.60	620
1927	Feb. 16, 1927	5.5	4,500	1937	Feb. 6, 1937	5.70	2,390
1928	Feb. 4, 1928	2.19	105	1938	Mar. 2, 1938	-	18,100

Peak stages and discharges of Mill Creek near Yucaipa, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Feb. 5, 1948	6.61	4.5	1957	Jan. 7, 1957	8.37	92
1949	Apr. 19, 1949	-	-		Jan. 13, 1957	8.97	256
1950	Feb. 6, 1950	-	170				
	Sept. 6, 1950	8.06	-	1958	Dec. 15, 1957	8.80	199
					Dec. 17, 1957	8.30	132
1951	Apr. 29, 1951	7.74	46		Jan. 26, 1958	8.45	53
					Feb. 4, 1958	8.20	73
1952	Oct. 25, 1951	8.32	393		Feb. 19, 1958	8.05	50
	Dec. 5, 1951	-	600		Feb. 25, 1958	8.08	56
	Dec. 12, 1951	8.52	594		Mar. 16, 1958	8.48	252
	Dec. 30, 1951	8.63	738		Mar. 22, 1958	8.36	149
	Jan. 13, 1952	-	150		Apr. 1, 1958	8.55	215
	Jan. 16, 1952	-	225		Apr. 3, 1958	8.74	266
	Mar. 7, 1952	-	180		July 29, 1958	10.30	990
	Mar. 10, 1952	-	150		Sept. 7, 1958	7.93	56
	Mar. 15, 1952	-	250				
	Sept.19, 1952	8.54	715	1959	Feb. 16, 1959	9.10	415
1953	Nov. 8, 1952	7.87	57	1960	Apr. 27, 1960	8.33	84
	Nov. 14, 1952	8.12	85		July 22, 1960	8.45	167
	Jan. 7, 1953	7.95	133				
	Apr. 27, 1953	8.07	178	1961	Aug. 23, 1961	9.0	1,060
	Aug. 11, 1953	7.78	63				
				1962	Dec. 2, 1961	6.35	208
1954	Jan. 19, 1954	8.41	100		Jan. 20, 1962	5.82	53
	Jan. 25, 1954	8.67	190		Feb. 8, 1962	5.88	92
	Feb. 14, 1954	8.19	80		Feb. 11, 1962	5.78	65
	Mar. 22, 1954	8.42	184				
	Mar. 30, 1954	8.02	88	1963	Feb. 10, 1963	6.20	108
	June 25, 1954	9.31	410		Sept.18, 1963	6.35	150
	July 18, 1954	8.40	111				
				1964	Oct. 18, 1963	6.70	135
1955	Nov. 11, 1954	8.52	139		Nov. 15, 1963	6.45	74
	Feb. 17, 1955	8.48	90		Nov. 20, 1963	6.40	64
	July 23, 1955	8.40	113		Jan. 22, 1964	6.38	61
	Aug. 13, 1955	8.33	84		Apr. 1, 1964	6.54	94
	Aug. 23, 1955	8.23	65				
				1965	Dec. 27, 1964	6.50	105
1956	Jan. 27, 1956	8.78	193		Aug. 14, 1965	7.04	235

550. Mill Creek near Mentone, Calif.

Location.--Lat 34°05'14", long 117°06'46", in NE¼SE¼NW¼ sec.17, T.1 S., R.2 W., on downstream side of right pier of Bear Valley Mutual Water Co.'s pipeline crossing, 0.4 mile upstream from mouth and 1.6 miles northeast of Mentone.

Drainage area.--46.3 sq mi.

Gage.--Recording. Altitude of gage is 1,780 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 380 cfs and extended above on basis of field estimate at 450 cfs and a slope-area measurement at 1,500 cfs.

Bankfull stage.--19 ft.

Remarks.--Low peaks may be affected by diversions for Zanja and Mill Creek spreading grounds. Only annual peaks are shown prior to Oct. 1, 1945. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Sept.25, 1939	6.40	720	1947	Nov. 13, 1946	4.00	50
1940	Jan. 8, 1940	5.40	660		Nov. 23, 1946	4.55	400
					Dec. 25, 1946	3.51	65
1941	Dec. 24, 1940	6.30	680		Dec. 26, 1946	3.81	110
1942	Apr. 4, 1942	3.88	31		Dec. 27, 1946	3.75	100
1943	Jan. 23, 1943	5.75	680				
1944	Feb. 22, 1944	4.14	51	1948	Dec. 5, 1947	2.71	3.0
1945	Nov. 12, 1944	6.24	700				
				1949	-	-	0
1946	Dec. 23, 1945	-	1,500				
	July 24, 1946	4.03	60	1950	Feb. 7, 1950	3.50	27

Peak stages and discharges of Mill Creek near Mentone, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 11, 1951	2.63	2.6	1958	Dec. 15, 1957	4.59	144
					Jan. 26, 1958	4.45	124
1952	Dec. 5, 1951	4.72	249		Feb. 4, 1958	4.27	100
	Dec. 30, 1951	4.62	137		Feb. 19, 1958	3.80	51
	Jan. 13, 1952	4.55	124		Mar. 16, 1958	4.59	144
	Jan. 16, 1952	4.71	156		Mar. 22, 1958	4.30	104
	Mar. 10, 1952	4.51	98		Apr. 1, 1958	4.62	149
	Mar. 15, 1952	4.65	144		Apr. 3, 1958	4.75	172
	May 4, 1952	4.20	59		Apr. 21, 1958	4.15	161
					July 29, 1958	4.67	138
1953	Nov. 15, 1952	4.12	66				
				1959	Feb. 16, 1959	5.10	215
1954	Jan. 19, 1954	4.24	72				
	Jan. 25, 1954	4.74	163	1960	July 22, 1960	4.48	83
	Feb. 14, 1954	4.37	91				
	Mar. 22, 1954	4.67	148	1961	Aug. 23, 1961	6.18	450
	June 25, 1954	4.83	184				
	July 18, 1954	3.98	42	1962	Dec. 2, 1961	4.66	114
					Feb. 8, 1962	4.32	63
1955	Nov. 11, 1954	4.23	96		Feb. 15, 1962	4.27	60
	Aug. 13, 1955	4.15	83				
	Aug. 23, 1955	4.22	92	1963	Sept.18, 1963	4.03	33
1956	Jan. 27, 1956	4.77	176	1964	Oct. 18, 1963	4.18	44
1957	Jan. 7, 1957	4.13	76	1965	Apr. 8, 1965	4.23	49
	Jan. 13, 1957	5.05	219				

555. Plunge Creek near East Highlands, Calif.

Location.--Lat 34°07'06", long 117°08'27", in SW¼NE¼NE¼ sec.1, T.1 S., R.3 W., on left bank at mouth of canyon at crossing of North Fork ditch siphon, 1.8 miles northeast of East Highlands.

Drainage area.--17.1 sq mi.

Gage.--Recording. Altitude of gage is 1,590 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 780 cfs and extended above on basis of slope-area measurement at 5,340 cfs.

Bankfull stage.--13 ft.

Remarks.--Low peaks may be affected by diversions for irrigation at points 0.5, 1.0, and 2.5 miles above station since beginning of record. Only annual peaks are shown prior to Oct. 1, 1942. Base for partial-duration series, 130 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Feb. 22, 1920	2.07	440	1940	Jan. 8, 1940	1.88	660
1921	Mar. 14, 1921	3.15	1,100	1941	Dec. 24, 1940	1.90	710
1922	Feb. 9, 1922	3.13	924	1942	Dec. 10, 1941	1.18	132
1923	Dec. 13, 1922	2.30	390				
1924	Mar. 27, 1924	1.70	218	1943	Jan. 23, 1943	2.60	1,700
1925	Apr. 5, 1925	.95	20		Feb. 22, 1943	1.75	530
					Mar. 5, 1943	2.05	850
1926	Apr. 5, 1926	2.95	840				
1927	Feb. 16, 1927	3.80	1,420	1944	Feb. 22, 1944	1.64	380
1928	Feb. 4, 1928	2.35	240				
1929	Apr. 5, 1929	2.32	176	1945	Nov. 12, 1944	1.49	238
1930	May 3, 1930	2.18	143		Feb. 2, 1945	2.32	1,200
					Mar. 15, 1945	1.63	370
1931	Apr. 26, 1931	2.32	170				
1932	Feb. 9, 1932	2.82	359	1946	Dec. 22, 1945	2.12	860
1933	Jan. 29, 1933	1.77	80		Dec. 23, 1945	2.50	1,500
1934	Dec. 31, 1933	2.92	380		Mar. 30, 1946	1.50	340
1935	Jan. 9, 1935	2.04	210				
				1947	Nov. 20, 1946	1.70	170
1936	Feb. 11, 1936	2.60	330		Nov. 23, 1946	1.64	159
1937	Feb. 6, 1937	3.90	725		Dec. 27, 1946	1.67	165
1938	Mar. 2, 1938	-	5,340				
1939	Sept.25, 1939	1.70	480	1948	Apr. 3, 1948	1.83	195

Peak stages and discharges of Plunge Creek near East Highlands, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Jan. 20, 1949	1.14	69	1958	Dec. 15, 1957	1.27	159
					Dec. 17, 1957	1.63	348
1950	Dec. 19, 1949	1.62	156		Jan. 26, 1958	1.48	205
	Feb. 7, 1950	1.53	139		Feb. 4, 1958	1.82	384
					Feb. 19, 1958	1.53	262
1951	Apr. 29, 1951	1.00	52		Mar. 16, 1958	2.26	668
					Mar. 22, 1958	2.18	606
1952	Dec. 30, 1951	1.88	360		Mar. 27, 1958	1.35	159
	Jan. 16, 1952	1.92	340		Apr. 1, 1958	2.40	756
	Mar. 10, 1952	1.52	173		Apr. 3, 1958	2.92	1,720
	Mar. 15, 1952	1.55	187				
				1959	Feb. 16, 1959	2.03	602
1953	Dec. 2, 1952	1.06	62				
				1960	Feb. 8, 1960	.89	29
1954	Jan. 19, 1954	1.63	184				
	Jan. 25, 1954	2.56	683	1961	Nov. 6, 1960	.82	26
	Feb. 14, 1954	1.66	223				
	Mar. 22, 1954	2.24	475	1962	Dec. 2, 1961	2.04	536
	Mar. 25, 1954	1.53	153		Jan. 20, 1962	1.37	141
					Feb. 9, 1962	1.60	215
1955	Feb. 27, 1955	1.01	49		Feb. 15, 1962	1.48	182
1956	Jan. 27, 1956	2.87	1,630	1963	Feb. 9, 1963	1.23	99
1957	Jan. 13, 1957	2.23	825	1964	Apr. 1, 1964	1.04	48
	Feb. 23, 1957	1.40	256				
	Feb. 28, 1957	2.87	1,630	1965	Apr. 9, 1965	1.83	371
	Mar. 9, 1957	1.30	215				
	May 19, 1957	1.31	210				

558. City Creek near Highland, Calif.

Location.--Lat 34°08'38", long 117°11'16", in SE¼SW¼NW¼ sec.27, T.1 N., R.3 W., on right bank 0.6 mile upstream from Highland Avenue and 1.5 miles northeast of Highland.

Drainage area.--19.5 sq mi.

Gage.--Recording. Prior to Mar. 1, 1939, at site a quarter of a mile downstream at different datum. Altitude of gage is 1,580 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 350 cfs and extended above on basis of slope-area measurement and rainfall-runoff study at 6,900 cfs prior to Mar. 1, 1939; defined below 500 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Low peaks may be affected by diversion to City Creek Water Co.'s canal since about 1890. Only annual peaks are shown prior to Oct. 1, 1939. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 22, 1920	3.67	350	1936	Feb. 2, 1936	8.35	580
				1937	Feb. 6, 1937	10.20	1,500
1921	Mar. 14, 1921	6.20	1,320	1938	Mar. 2, 1938	-	6,900
1922	Jan. 2, 1922	5.75	1,090	1939	Jan. 5, 1939	4.72	400
1923	Dec. 13, 1922	6.45	720				
1924	Nov. 9, 1923	5.47	345	1940	Jan. 8, 1940	3.00	378
1925	Apr. 4, 1925	3.55	74		Feb. 26, 1940	-	236
					Mar. 31, 1940	-	263
1926	Apr. 5, 1926	9.75	2,360				
1927	Feb. 16, 1927	9.8	1,930	1941	Dec. 24, 1940	-	432
1928	Feb. 4, 1928	6.03	369		Feb. 20, 1941	5.30	2,420
1929	Apr. 4, 1929	6.42	196		Mar. 1, 1941	-	284
1930	May 3, 1930	6.36	78		Mar. 4, 1941	-	342
					Apr. 4, 1941	-	292
1931	Apr. 26, 1931	6.55	146				
1932	Feb. 9, 1932	8.10	442	1942	Dec. 10, 1941	1.94	172
1933	Jan. 29, 1933	6.30	62				
1934	Jan. 1, 1934	7.85	374	1943	Jan. 23, 1943	5.17	2,300
1935	Jan. 9, 1935	6.88	166		Feb. 21, 1943	-	237

Peak stages and discharges of City Creek near Highland, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Feb. 22, 1943	-	872	1954	Mar. 22, 1954	3.42	450
	Mar. 4, 1943	-	590				
	Mar. 5, 1943	-	840	1955	Nov. 11, 1954	2.50	115
1944	Feb. 22, 1944	3.58	1,030	1956	Jan. 27, 1956	4.08	862
1945	Nov. 12, 1944	2.83	500	1957	Jan. 5, 1957	2.70	166
	Feb. 2, 1945	3.50	940		Jan. 13, 1957	4.86	1,600
	Mar. 15, 1945	2.75	430		Feb. 28, 1957	6.25	314
					May 11, 1957	4.72	201
1946	Dec. 22, 1945	3.43	514		May 19, 1957	4.92	201
	Dec. 23, 1945	4.33	1,000				
	Mar. 30, 1946	3.18	333	1958	Oct. 11, 1957	6.80	400
					Dec. 17, 1957	5.45	570
1947	Nov. 13, 1946	3.03	285		Jan. 26, 1958	4.65	540
	Nov. 20, 1946	2.97	265		Feb. 3, 1958	5.14	1,350
	Nov. 23, 1946	2.69	180		Feb. 19, 1958	3.18	304
	Dec. 27, 1946	2.67	175		Feb. 25, 1958	2.70	170
					Mar. 16, 1958	3.38	432
1948	Apr. 3, 1948	2.93	250		Mar. 22, 1958	3.50	475
					Mar. 27, 1958	2.68	190
1949	Jan. 20, 1949	2.43	100		Apr. 3, 1958	4.67	1,060
1950	Dec. 19, 1949	2.86	198	1959	Feb. 16, 1959	3.63	358
1951	Apr. 29, 1951	2.29	71	1960	Feb. 9, 1960	2.45	42
1952	Dec. 30, 1951	3.50	490	1961	Nov. 5, 1960	2.83	92
	Jan. 13, 1952	3.18	336				
	Jan. 16, 1952	4.13	937	1962	Dec. 2, 1961	4.14	648
	Mar. 10, 1952	2.91	232		Jan. 20, 1962	3.38	268
	Mar. 15, 1952	3.35	415		Feb. 9, 1962	3.38	216
1953	Dec. 2, 1952	2.65	132	1963	Feb. 10, 1963	3.06	163
1954	Jan. 19, 1954	2.94	239	1964	Apr. 1, 1964	2.95	64
	Jan. 25, 1954	3.73	631				
	Feb. 14, 1954	2.66	155	1965	Apr. 9, 1965	3.92	226

565. Little San Gorgonio Creek near Beaumont, Calif.

Location.--Lat 34°01'45", long 116°56'40", in NW¼SW¼NW¼ sec.1, T.2 S., R.1 W., on downstream side of left abutment of bridge on Oak Glen Road, 3.0 miles upstream from Wallace Creek and 7 miles north of Beaumont.

Drainage area.--3.23 sq mi.

Gage.--Recording. Altitude of gage is 4,320 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1.0 cfs and extended above on basis of slope-area measurement at 319 cfs.

Bankfull stage.--8 ft.

Remarks.--Low peaks for the entire period of record may be affected by several small diversions above station for irrigation. Only annual peaks are shown prior to Oct. 1, 1951. Base for partial-duration series, 10 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Feb. 25, 1949	-	-	1957	Jan. 13, 1957	1.38	4.4
1950	Feb. 6, 1950	-	20				
				1958	Apr. 1, 1958	1.44	12
1951	July 16, 1951	1.44	18				
				1959	Feb. 16, 1959	1.47	16
1952	Dec. 30, 1951	1.78	13				
				1960	Apr. 27, 1960	1.18	.7
1953	Nov. 14, 1952	1.36	3.0				
				1961	Aug. 21, 1961	1.39	5.0
1954	Jan. 25, 1954	1.40	1.4				
				1962	Feb. 21, 1962	1.37	6.2
1955	Jan. 19, 1955	1.72	61				
	Jan. 22, 1955	1.48	13	1963	Feb. 10, 1963	1.21	.9
	Feb. 4, 1955	1.46	11				
	Aug. 11, 1955	1.62	34	1964	Apr. 1, 1964	1.30	3.5
	Aug. 23, 1955	2.18	319				
				1965	-	-	0
1956	Jan. 26, 1956	1.60	30				

570. San Timoteo Creek near Redlands, Calif.

Location.--Lat 34°01'59", long 117°12'29", in NE¼NE¼NE¼ sec.5, T.2 S., R.3 W., on downstream side of right abutment of county highway bridge, 2.0 miles southwest of Redlands and 3.4 miles downstream from Yucaipa Creek.

Drainage area.--119 sq mi.

Gage.--Recording. Prior to Oct. 30, 1934, at site 2 miles upstream at different datum. Altitude of gage is 1,280 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 142 cfs prior to Oct. 30, 1934; below 1,200 cfs and extended above on basis of slope-area measurement at 7,460 cfs thereafter.

Bankfull stage.--12 ft.

Remarks.--Records for water years 1927 and 1928 furnished by Department of Water Resources, State of California. Only annual peaks are shown prior to Oct. 1, 1946. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Feb. 16, 1927	-	3,000	1953	Nov. 15, 1952	1.93	198
1928	Feb. 4, 1928	-	60		Dec. 20, 1952	2.15	272
1929	Dec. 3, 1928	1.66	24		Dec. 30, 1952	1.66	125
1930	Mar. 15, 1930	2.10	87	1954	Jan. 19, 1954	3.00	677
1931	Feb. 4, 1931	2.18	63		Jan. 25, 1954	3.22	794
1932	Feb. 9, 1932	-	-		Feb. 13, 1954	2.96	647
1933	Oct. 1, 1932	-	-		Mar. 22, 1954	1.42	67
1934	Dec. 31, 1933	-	150		Mar. 24, 1954	1.63	109
1935	Aug. 13, 1935	6.0	4,700	1955	Nov. 11, 1954	1.40	58
1936	Feb. 12, 1936	3.55	635		Jan. 10, 1955	1.45	69
1937	Feb. 6, 1937	5.50	3,600		Jan. 18, 1955	1.83	167
1938	Mar. 2, 1938	-	7,460				
1939	Sept.11, 1939	2.0	113	1956	Jan. 27, 1956	2.08	247
1940	Jan. 8, 1940	4.00	1,700		July 26, 1956	1.92	194
1941	Dec. 24, 1940	3.55	1,150	1957	Mar. 9, 1957	1.93	161
1942	Aug. 10, 1942	1.23	34				
1943	Jan. 23, 1943	6.35	6,480	1958	Jan. 26, 1958	1.55	104
1944	Feb. 22, 1944	3.10	690		Feb. 4, 1958	2.23	381
1945	Nov. 12, 1944	3.75	1,100		Feb. 19, 1958	1.75	188
					Mar. 6, 1958	1.39	56
1946	Dec. 23, 1945	3.75	1,100		Mar. 16, 1958	1.73	167
					Mar. 22, 1958	1.70	158
1947	Nov. 8, 1946	1.73	120		Apr. 1, 1958	3.05	890
	Nov. 13, 1946	2.62	460		Apr. 3, 1958	2.20	449
	Nov. 14, 1946	2.13	265		Apr. 7, 1958	2.15	432
	Nov. 23, 1946	2.95	620				
	Dec. 26, 1946	1.64	90	1959	Oct. 25, 1958	2.12	418
					Sept.13, 1959	1.80	237
1948	Dec. 5, 1947	1.80	158				
	Feb. 5, 1948	2.60	450	1960	Feb. 10, 1960	1.75	143
1949	Mar. 22, 1949	1.92	194	1961	Aug. 19, 1961	3.73	1,080
1950	Jan. 12, 1950	1.53	87	1962	Dec. 2, 1961	2.80	530
	Feb. 6, 1950	1.55	114		Jan. 20, 1962	2.55	408
					Feb. 15, 1962	2.00	187
1951	Jan. 11, 1951	1.50	80		Feb. 19, 1962	2.30	300
					Mar. 19, 1962	1.67	90
1952	Dec. 30, 1951	1.55	92				
	Jan. 13, 1952	2.00	170	1963	Feb. 10, 1963	2.21	167
	Jan. 16, 1952	2.99	637				
	Jan. 18, 1952	2.94	613	1964	Jan. 22, 1964	1.55	97
	Mar. 7, 1952	2.72	522				
	Mar. 10, 1952	1.45	76	1965	Apr. 8, 1965	2.56	412
	Mar. 16, 1952	3.34	842		Aug. 11, 1965	2.55	407
	Apr. 19, 1952	1.52	78		Aug. 14, 1965	2.35	320
	Apr. 26, 1952	1.71	125		Sept.18, 1965	3.17	708

575. San Timoteo Creek near Loma Linda, Calif.

Location.--Lat 34°04'03", long 117°16'42", in San Bernardino Grant, on right bank 100 ft downstream from Waterman Avenue Bridge, 0.2 mile upstream from mouth, and 1.5 miles northwest of Loma Linda, San Bernardino County.

Drainage area.--125 sq mi.

Gage.--Recording. Prior to Apr. 10, 1958, at site 100 ft upstream at datum 5.51 ft higher. Apr. 10, 1958, to June 12, 1961, at site 100 ft upstream at datum 4.51 ft higher. Altitude of gage is 1,010 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 400 cfs.

Bankfull stage.--14 ft.

Remarks.--Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Nov. 11, 1954	4.09	209	1959	Jan. 6, 1959	2.00	89
	Jan. 10, 1955	3.35	54		Feb. 11, 1959	1.90	69
	Jan. 18, 1955	4.01	185				
	Aug. 24, 1955	3.67	64	1960	Dec. 24, 1959	2.02	93
					Jan. 12, 1960	2.03	95
1956	Jan. 26, 1956	4.30	349		Sept. 2, 1960	2.17	128
	July 25, 1956	4.59	133				
				1961	Mar. 28, 1961	2.03	89
1957	Dec. 27, 1956	3.33	52		Aug. 19, 1961	4.37	491
	Jan. 13, 1957	3.55	82				
	Feb. 28, 1957	3.78	76	1962	Dec. 2, 1961	4.00	500
	Mar. 9, 1957	3.61	179		Jan. 20, 1962	3.50	380
					Feb. 19, 1962	3.08	292
1958	Dec. 15, 1957	3.57	50				
	Feb. 4, 1958	4.38	245	1963	Feb. 10, 1963	2.95	215
	Feb. 19, 1958	2.95	82		Mar. 16, 1963	2.08	110
	Mar. 16, 1958	2.63	184		Sept. 18, 1963	3.72	256
	Mar. 22, 1958	2.13	110				
	Mar. 27, 1958	1.99	112	1964	Nov. 20, 1963	2.95	89
	Apr. 1, 1958	4.23	1,050		Jan. 22, 1964	3.15	123
	Apr. 7, 1958	1.70	196				
				1965	Apr. 10, 1965	3.50	200
1959	Oct. 25, 1958	2.60	260		Sept. 18, 1965	4.67	635

585. East Twin Creek near Arrowhead Springs, Calif.
(Published as Strawberry Creek near Arrowhead Springs prior to October 1952)

Location.--Lat 34°10'45", long 117°15'53", in NW¼NE¼NE¼ sec.14, T.1 N., R.4 W., on right bank 100 ft upstream from Del Rosa Water Co.'s diversion dam, 0.5 mile south of Arrowhead Springs, and 1.0 mile downstream from Strawberry Creek.

Drainage area.--8.76 sq mi.

Gage.--Recording. Altitude of gage is 1,590 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 310 cfs and extended above on basis of slope-area measurement at 1,400 cfs.

Bankfull stage.--7 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1946. Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Feb. 22, 1920	3.10	162	1926	Apr. 7, 1926	3.5	228
				1927	Feb. 16, 1927	4.35	480
1921	Mar. 14, 1921	3.70	360	1928	Feb. 4, 1928	2.60	74
1922	Jan. 2, 1922	3.87	408	1929	Apr. 4, 1929	2.80	130
1923	Dec. 14, 1922	2.95	121	1930	May 3, 1930	2.37	34
1924	Mar. 27, 1924	2.35	70				
1925	Nov. 10, 1924	1.80	26	1931	Apr. 26, 1931	2.76	38

Peak stages and discharges of East Twin Creek near Arrowhead Springs, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Dec. 28, 1931	3.75	300	1954	Jan. 25, 1954	-	1,800
1933	Jan. 29, 1933	2.37	27		Feb. 13, 1954	-	350
1934	Jan. 1, 1934	3.35	240		Mar. 22, 1954	3.17	138
1935	Dec. 14, 1934	3.00	118		Mar. 30, 1954	2.76	60
1936	Feb. 2, 1936	3.30	212	1955	Nov. 11, 1954	4.39	1,280
1937	Feb. 6, 1937	4.15	492		Dec. 3, 1954	3.60	355
1938	Mar. 2, 1938	-	3,360		Feb. 27, 1955	2.73	69
1939	Jan. 5, 1939	4.05	401				
1940	Jan. 8, 1940	3.70	292	1956	Nov. 21, 1955	2.70	40
					Jan. 26, 1956	3.88	521
1941	Feb. 20, 1941	5.00	922				
1942	Dec. 10, 1941	3.15	102	1957	Jan. 13, 1957	3.10	111
1943	Jan. 23, 1943	5.45	1,400		Feb. 23, 1957	2.80	55
1944	Feb. 22, 1944	4.04	441		May 19, 1957	3.10	117
1945	Feb. 2, 1945	4.02	430				
				1958	Dec. 17, 1957	3.23	327
1946	Dec. 23, 1945	4.28	575		Jan. 26, 1958	3.03	213
					Feb. 3, 1958	3.35	407
1947	Nov. 13, 1946	3.05	84		Feb. 19, 1958	2.73	87
	Nov. 20, 1946	3.37	162		Feb. 25, 1958	2.71	59
	Nov. 23, 1946	3.13	100		Mar. 16, 1958	3.06	225
	Dec. 26, 1946	3.08	90		Mar. 22, 1958	3.11	247
	Dec. 27, 1946	2.93	65		Mar. 27, 1958	2.67	84
					Apr. 1, 1958	3.20	307
1948	Apr. 3, 1948	3.46	174		Apr. 3, 1958	3.35	495
	Apr. 29, 1948	2.79	48		Apr. 7, 1958	2.95	120
1949	Feb. 27, 1949	2.58	32	1959	Feb. 11, 1959	2.70	42
					Feb. 16, 1959	2.73	48
1950	Nov. 10, 1949	2.77	68				
	Dec. 19, 1949	3.05	128	1960	Feb. 8, 1960	2.38	22
	Feb. 7, 1950	3.23	181				
				1961	Nov. 6, 1960	2.55	29
1951	Apr. 28, 1951	2.67	41				
				1962	Dec. 2, 1961	2.78	48
1952	Dec. 5, 1951	2.76	54		Jan. 20, 1962	2.82	52
	Dec. 30, 1951	3.32	171		Feb. 9, 1962	2.98	101
	Jan. 13, 1952	3.17	174		Feb. 15, 1962	2.76	58
	Jan. 16, 1952	3.90	467		Feb. 19, 1962	2.77	59
	Jan. 18, 1952	3.12	120				
	Mar. 10, 1952	3.07	102	1963	Sept.18, 1963	2.67	37
	Mar. 15, 1952	3.42	209				
				1964	Apr. 1, 1964	2.38	19
1953	Mar. 20, 1953	2.47	25				
				1965	Apr. 10, 1965	3.15	114
1954	Jan. 19, 1954	-	1,900				

586. Waterman Canyon Creek near Arrowhead Springs, Calif.

Location.--Lat 34°11'35", long 117°16'25", in NE¼NW¼NW¼ sec.11, T.1 N., R.4 W., on left bank 0.8 mile northwest of Arrowhead Springs and 1.3 miles north of San Bernardino National Forest boundary.

Drainage area.--4.65 sq mi.

Gage.--Recording. Altitude of gage is 2,050 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 140 cfs and extended above on basis of rainfall-runoff studies.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1942. Base for partial-duration series, 35 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Mar. 14, 1921	2.95	152	1928	Feb. 4, 1928	3.08	39
1922	Jan. 2, 1922	3.43	250				
1923	Dec. 14, 1922	2.06	52	1930	May 3, 1930	3.40	17
1924	Mar. 26, 1924	3.28	36				
1925	Nov. 10, 1924	2.55	12	1931	Apr. 26, 1931	3.5	50
1926	Apr. 7, 1926	3.40	44	1933	Jan. 16, 1933	2.95	22
1927	Feb. 16, 1927	4.0	110	1934	Dec. 31, 1933	3.32	114

Peak stages and discharges of Waterman Canyon Creek near Arrowhead Springs, Calif.--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Dec. 14, 1934	3.86	114	1952	Dec. 29, 1951	2.77	40
					Jan. 13, 1952	2.74	40
1936	Feb. 2, 1936	4.15	182		Jan. 16, 1952	3.17	115
1937	Feb. 6, 1937	4.10	390		Mar. 15, 1952	2.92	62
1938	Mar. 2, 1938	-	2,350				
1939	Sept.25, 1939	2.90	205	1953	Mar. 20, 1953	-	-
1940	Jan. 7, 1940	2.80	122				
				1954	Jan. 19, 1954	2.90	56
1941	Feb. 20, 1941	-	190		Jan. 25, 1954	3.08	87
	Mar. 4, 1941	2.87	-		Feb. 13, 1954	3.17	108
1942	Dec. 10, 1941	2.28	41				
				1955	Nov. 11, 1954	3.67	296
1943	Jan. 23, 1943	4.50	620		Dec. 3, 1954	3.39	200
	Feb. 22, 1943	2.85	152				
	Mar. 3, 1943	2.93	164	1956	Nov. 21, 1955	2.63	36
	Apr. 5, 1943	2.25	49		Jan. 26, 1956	3.64	296
1944	Dec. 21, 1943	2.86	54	1957	Jan. 13, 1957	2.94	77
	Feb. 22, 1944	3.40	185		Feb. 23, 1957	2.73	46
					May 19, 1957	3.13	90
1945	Nov. 11, 1944	3.33	165				
	Feb. 2, 1945	3.71	278	1958	Dec. 17, 1957	3.35	177
	Mar. 15, 1945	3.25	171		Jan. 26, 1958	3.32	168
					Feb. 4, 1958	3.23	156
1946	Dec. 21, 1945	3.18	125		Mar. 16, 1958	3.00	80
	Dec. 22, 1945	3.40	185		Mar. 22, 1958	2.94	71
	Dec. 23, 1945	3.58	240		Apr. 1, 1958	3.03	94
	Mar. 30, 1946	2.85	56		Apr. 3, 1958	3.45	199
1947	Nov. 13, 1946	2.80	47	1959	Feb. 16, 1959	2.98	75
	Nov. 20, 1946	3.40	185				
	Nov. 23, 1946	2.86	58	1960	Feb. 8, 1960	2.49	16
	Dec. 26, 1946	2.74	38				
				1961	Nov. 6, 1960	2.51	23
1948	Apr. 3, 1948	3.18	126				
				1962	Dec. 2, 1961	2.76	50
1949	Feb. 26, 1949	2.55	19		Jan. 20, 1962	2.83	62
					Feb. 9, 1962	2.78	60
1950	Nov. 10, 1949	-	42				
	Dec. 19, 1949	3.02	105	1963	Sept.18, 1963	3.18	128
	Feb. 7, 1950	-	65				
				1964	Apr. 1, 1964	2.73	46
1951	Apr. 28, 1951	2.73	34				
				1965	Apr. 9, 1965	3.08	84
1952	Dec. 5, 1951	2.82	49				

620. Lytle Creek near Fontana, Calif.
(Published as Lytle Creek and Fontana pipeline near Fontana prior to 1932)

Location.--Lat 34°12'42", long 117°27'24", in NW¼SE¼SE¼ sec.36, T.2 N., R.6 W., on right bank at downstream side of highway bridge abutment, 0.7 mile upstream from right tributary and 8 miles north of Fontana.

Drainage area.--46.3 sq mi.

Gage.--Recording. Prior to Mar. 22, 1938, at site 1 mile downstream at different datum. Altitude of gage is 2,380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 700 cfs prior to Mar. 22, 1938; below 550 cfs thereafter.

Remarks.--Low peaks may be affected by diversions to Southern California Edison Co.'s Lytle Creek conduit since beginning of record and by Fontana Union Water Co's infiltration line since 1949. Only annual peaks are shown prior to Oct. 1, 1954. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 2, 1920	-	291	1931	Apr. 26, 1931	3.25	417
1921	Mar. 13, 1921	-	160	1932	Feb. 8, 1932	3.65	865
				1933	Jan. 19, 1933	3.14	100
1926	Apr. 6, 1926	4.55	500	1934	Jan. 1, 1934	5.30	560
1927	Feb. 16, 1927	5.40	5,300	1935	Apr. 8, 1935	5.80	1,500

Peak stages and discharges of Lytle Creek near Fontana, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Feb. 2, 1936	5.05	730	1958	Dec. 15, 1957	2.50	214
1937	Feb. 6, 1937	5.10	1,250		Jan. 26, 1958	2.52	229
1938	Mar. 2, 1938	-	25,200		Feb. 4, 1958	2.73	241
					Feb. 19, 1958	2.77	555
1943	Jan. 23, 1943	-	4,800		Mar. 16, 1958	2.78	240
					Apr. 3, 1958	4.52	1,190
1947	Nov. 20, 1946	-	1,000				
1948	Apr. 3, 1948	-	140	1959	Feb. 11, 1959	3.97	326
1949	Jan. 20, 1949	-	200		Feb. 16, 1959	4.72	832
1950	Dec. 19, 1949	2.23	207				
				1960	Jan. 10, 1960	3.40	96
1951	Apr. 28, 1951	1.86	65				
1952	Jan. 16, 1952	3.25	1,500	1961	Jan. 26, 1961	3.50	102
1953	Dec. 1, 1952	2.71	98				
1954	Jan. 25, 1954	4.03	780	1962	Dec. 2, 1961	5.75	760
					Feb. 9, 1962	-	300
1955	Nov. 11, 1954	3.44	114				
				1963	Feb. 10, 1963	4.30	122
1956	Jan. 26, 1956	3.83	964				
				1964	Apr. 1, 1964	2.90	277
1957	Jan. 10, 1957	2.38	258				
	Jan. 12, 1957	3.15	575	1965	Apr. 9, 1965	2.82	80
	Feb. 23, 1957	2.32	238				

630. Cajon Creek near Keenbrook, Calif.

Location.--Lat 34°16'03", long 117°27'30", in $SE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$ sec.12, T.2 N., R.6 W., on right bank 1,600 ft upstream from Lone Pine Creek and 1.2 miles north of Keenbrook.

Drainage area.--40.6 sq mi.

Gage.--Recording. Prior to Oct. 24, 1935, at site 1,300 ft downstream at different datum. Altitude of gage is 2,630 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 305 cfs and float measurement to 560 cfs prior to Oct. 24, 1935; below 800 cfs and extended above on basis of slope-area measurements at 1,190, 1,400, 1,560, 11,000 and 14,500 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1946. Base for partial-duration series, 140 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 22, 1920	4.61	740	1942	Dec. 28, 1941	2.45	-
					Aug. 10, 1942	-	94
1921	Mar. 14, 1921	4.60	740	1943	Jan. 23, 1943	17.8	11,000
1922	Dec. 20, 1921	9.0	5,000	1944	Feb. 22, 1944	7.47	4,000
1923	Sept.13, 1923	4.43	800	1945	Nov. 11, 1944	2.67	742
1924	Mar. 26, 1924	4.61	135				
1925	Apr. 4, 1925	4.95	157	1946	Mar. 30, 1946	8.67	780
1926	May 2, 1926	5.5	335	1947	Nov. 13, 1946	8.60	750
1927	Feb. 15, 1927	5.45	950		Dec. 26, 1946	8.47	700
1928	Feb. 4, 1928	3.52	205				
1929	Mar. 10, 1929	4.98	175	1948	Dec. 5, 1947	6.32	135
1930	Mar. 14, 1930	6.77	720				
				1949	Dec. 26, 1948	5.60	-
1931	Apr. 26, 1931	6.12	350		Jan. 20, 1949	-	110
1932	Feb. 9, 1932	10.50	2,600				
1933	Jan. 19, 1933	7.25	610	1950	Jan. 8, 1950	4.66	40
1934	Jan. 1, 1934	5.40	570				
1935	Oct. 17, 1934	7.08	2,200	1951	Nov. 13, 1950	4.51	22
1936	Feb. 23, 1936	3.00	290	1952	Jan. 12, 1952	7.13	1,240
1937	Dec. 27, 1936	4.30	760		Jan. 16, 1952	7.10	1,350
1938	Mar. 2, 1938	-	14,500		Mar. 7, 1952	5.17	441
1939	Sept.25, 1939	5.12	1,220		Mar. 15, 1952	7.45	482
1940	Jan. 8, 1940	7.25	2,560				
				1953	Dec. 1, 1952	6.75	84
1941	Mar. 4, 1941	7.60	2,810				

Peak stages and discharges of Cajon Creek near Keenbrook, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 19, 1954	7.15	312	1959	Feb. 11, 1959	3.88	375
	Jan. 24, 1954	7.40	461		Feb. 16, 1959	5.32	1,400
	Feb. 13, 1954	7.33	406				
	Mar. 17, 1954	6.67	170	1960	Jan. 10, 1960	3.83	89
1955	Nov. 11, 1954	7.62	606	1961	Nov. 6, 1960	4.14	93
1956	Jan. 26, 1956	7.58	575	1962	Nov. 20, 1961	5.30	318
					Dec. 2, 1961	7.32	1,190
1957	Jan. 13, 1957	8.50	1,560		Feb. 11, 1962	-	a3,000
	Feb. 23, 1957	3.38	229		Feb. 15, 1962	2.95	204
					Feb. 19, 1962	3.04	269
1958	Dec. 17, 1957	3.22	191				
	Feb. 4, 1958	4.40	750	1963	Feb. 9, 1963	3.18	283
	Feb. 19, 1958	3.48	327				
	Feb. 25, 1958	2.93	182	1964	Jan. 22, 1964	2.92	184
	Mar. 16, 1958	3.03	198				
	Mar. 27, 1958	2.86	180	1965	Apr. 1, 1965	3.54	304
	Apr. 3, 1958	6.30	1,660		Apr. 8, 1965	3.86	499
					Apr. 9, 1965	4.38	559
1959	Jan. 6, 1959	3.50	261		Aug. 11, 1965	3.34	200

a Estimated.

635. Lone Pine Creek near Keenbrook, Calif.

Location.--Lat 34°15'59", long 117°27'47", in SE¼SE¼SW¼ sec.12, T.2 N., R.6 W., on right bank 50 ft upstream from the Atchison, Topeka and Santa Fe Railway Co. bridge, 150 ft upstream from mouth, and 1.1 miles north of Keenbrook.

Drainage area.--15.1 sq mi.

Gage.--Recording except for period Mar. 2 to Sept. 30, 1938, which was nonrecording. Prior to Sept. 30, 1938, at datum 0.98 ft higher. Datum of gage is 2,605.92 ft above mean sea level, datum of 1929, supplementary adjustment of 1946.

Stage-discharge relation.--Defined by current-meter measurements below 130 cfs and extended above on basis of slope-area measurements at 540 and 6,180 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1949. Base for partial-duration series, 80 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 22, 1920	2.70	210	1953	Dec. 1, 1952	2.42	38
1921	Mar. 14, 1921	2.72	215	1954	Jan. 25, 1954	3.85	224
1922	Dec. 19, 1921	4.1	650		Feb. 13, 1954	2.93	81
1923	Dec. 12, 1922	1.65	50				
1924	Mar. 26, 1924	2.52	40	1955	Nov. 11, 1954	2.45	38
1925	June 30, 1925	2.70	89				
				1956	Jan. 26, 1956	3.10	111
1926	Apr. 8, 1926	3.18	196				
1927	Feb. 15, 1927	4.07	460	1957	Jan. 13, 1957	4.93	540
1928	Feb. 4, 1928	2.56	61				
1929	Mar. 10, 1929	3.18	196	1958	Feb. 4, 1958	3.34	189
1930	Mar. 14, 1930	3.57	300		Apr. 1, 1958	3.54	166
					Apr. 3, 1958	5.60	800
1931	Apr. 26, 1931	3.07	170				
1932	Feb. 8, 1932	4.37	565	1959	Jan. 6, 1959	2.97	84
1933	Jan. 19, 1933	3.98	428		Feb. 16, 1959	4.00	256
1934	Jan. 1, 1934	3.60	308				
1935	Oct. 17, 1934	4.30	540	1960	Jan. 10, 1960	1.95	13
1936	Feb. 23, 1936	3.60	254	1961	Nov. 6, 1960	1.90	14
1937	Dec. 27, 1936	4.00	365				
1938	Mar. 2, 1938	-	6,180	1962	Nov. 20, 1961	3.82	256
					Dec. 2, 1961	3.50	195
1950	Jan. 8, 1950	2.07	10		Feb. 11, 1962	3.34	167
1951	Nov. 13, 1950	1.69	2.1	1963	Feb. 9, 1963	2.90	104
1952	Jan. 12, 1952	3.88	290	1964	Jan. 22, 1964	2.49	25
	Jan. 16, 1952	3.47	171				
	Jan. 18, 1952	3.19	113	1965	Apr. 8, 1965	3.39	100
	Mar. 7, 1952	3.03	94				
	Mar. 15, 1952	4.17	302				

636.8. Devil Canyon Creek near San Bernardino, Calif.

Location.--Lat 34°12'12", long 117°20'02", in Muscupiabe Grant, on right bank 1.0 mile downstream from confluence of East Fork and West Fork, and 7.0 miles northwest of San Bernardino, San Bernardino County.

Drainage area.--5.61 sq mi.

Gage.--Recording. Altitude of gage is 1,900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 65 cfs and extended above on basis of rainfall-runoff studies.

Bankfull stage.--5 ft.

Remarks.--Peaks may be affected by diversion by city of San Bernardino for water spreading beginning in June 1921, and for municipal supply beginning in 1925. Only annual peaks are shown prior to Oct. 1, 1944. Base for partial-duration series, 25 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Feb. 22, 1920	2.30	68	1950	Dec. 19, 1949	2.60	72
1921	Mar. 14, 1921	2.52	86	1951	-	-	0
1922	Jan. 2, 1922	3.12	111				
1923	Dec. 13, 1922	2.46	57	1952	Dec. 29, 1951	2.30	27
1924	Mar. 26, 1924	a4.20	-		Jan. 13, 1952	2.23	35
1925	Nov. 10, 1924	1.48	9.5		Jan. 16, 1952	2.57	79
					Mar. 15, 1952	2.48	50
1926	Apr. 7, 1926	3.75	220				
1927	Feb. 16, 1927	3.55	182	1953	Mar. 20, 1953	1.96	11
1928	Feb. 4, 1928	2.72	58				
1929	Apr. 4, 1929	2.59	34	1954	Jan. 19, 1954	2.35	36
1930	May 3, 1930	2.42	26		Jan. 25, 1954	2.65	71
					Feb. 13, 1954	2.31	31
1931	Apr. 26, 1931	2.68	34		Mar. 30, 1954	2.17	27
1932	Feb. 9, 1932	3.25	78				
1933	Jan. 30, 1933	1.98	5.5	1955	Nov. 11, 1954	6.82	(b)
1934	Jan. 1, 1934	2.94	56		Dec. 3, 1954	4.20	(b)
1935	Apr. 8, 1935	2.50	27		Dec. 9, 1954	3.34	(b)
					Jan. 18, 1955	-	(b)
1936	Feb. 11, 1936	2.52	29				
1937	Feb. 6, 1937	3.17	146	1956	Jan. 26, 1956	2.80	77
1938	Mar. 2, 1938	-	3,320				
1939	Sept.24, 1939	2.42	30	1957	Jan. 13, 1957	3.72	67
1940	Jan. 8, 1940	2.55	40		May 19, 1957	2.50	46
1941	Dec. 24, 1940	2.58	60	1958	Dec. 17, 1957	2.35	28
1942	Dec. 10, 1941	2.17	21		Jan. 26, 1958	2.45	41
1943	Jan. 23, 1943	4.15	642		Feb. 4, 1958	2.40	41
1944	Feb. 22, 1944	2.80	93		Mar. 16, 1958	2.45	43
					Mar. 22, 1958	2.45	47
1945	Nov. 11, 1944	2.82	97		Mar. 27, 1958	2.18	28
	Feb. 2, 1945	2.83	99		Apr. 3, 1958	2.75	113
	Mar. 15, 1945	2.48	47				
				1959	Feb. 16, 1959	2.70	45
1946	Dec. 22, 1945	2.53	53				
	Dec. 23, 1945	2.78	90	1960	Feb. 8, 1960	1.78	10
	Mar. 30, 1946	2.70	75				
				1961	-	-	0
1947	Nov. 13, 1946	2.43	41				
	Nov. 20, 1946	3.10	162	1962	Feb. 9, 1962	2.36	57
	Nov. 23, 1946	2.48	47				
	Dec. 26, 1946	2.38	36	1963	Feb. 10, 1963	1.77	11
1948	Apr. 3, 1948	2.27	27	1964	Apr. 1, 1964	1.93	15
1949	Jan. 20, 1949	1.98	12	1965	Apr. 9, 1965	2.29	47

a Backwater from debris.
b Discharge unknown; exceeded base.

640. Lytle Creek (east channel) at San Bernardino, Calif.

Location.--Lat 34°05'50", long 117°18'47", in San Bernardino Grant, 10 ft downstream from Mount Vernon Avenue Bridge in San Bernardino, San Bernardino County.

Gage.--Recording. Prior to Mar. 3, 1938, at site a quarter mile upstream at different datum. Altitude of gage is 1,050 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 850 cfs and extended above on basis of slope-area measurement at 7,800 cfs and contracted-opening measurement at 21,500 cfs.

Remarks.--Since 1945, Lytle Creek flood-control dam has diverted all flow away from this channel directly to Warm Creek. Capacity of flood-control channel, 30,000 cfs. Only annual peaks are shown for all years except 1950. Base for partial-duration series, 12 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	-	-	0	1946	Dec. 22, 1945	1.38	15
1930	Mar. 15, 1930	-	-	1947	Nov. 13, 1946	1.64	13
				1948	Dec. 1, 1947	1.45	12
1931	-	-	0	1949	Feb. 26, 1949	1.83	-
1932	Feb. 9, 1932	6.85	700		May 19, 1949	-	9.2
1933	Jan. 19, 1933	6.6	610				
1934	Jan. 1, 1934	6.45	555	1950	Nov. 10, 1949	1.66	36
1935	Oct. 18, 1934	-	500		Jan. 8, 1950	1.70	31
					Feb. 6, 1950	1.61	18
1936	Feb. 11, 1936	-	208				
1937	Feb. 14, 1937	5.20	1,060	1951	May 13, 1951	1.65	15
1938	Mar. 2, 1938	-	21,500	1952	Dec. 30, 1951	-	-
1939	Sept.25, 1939	4.20	1,760	1953	Nov. 14, 1952	1.59	14
1940	Jan. 8, 1940	3.65	1,180	1954	Feb. 2, 1954	1.76	19
				1955	Nov. 11, 1954	1.63	21
1941	Dec. 24, 1940	2.90	970				
1942	Dec. 29, 1941	-	-	1956	Jan. 26, 1956	2.05	20
1943	Jan. 23, 1943	6.7	7,800	1957	Jan. 13, 1957	2.61	20
1944	Feb. 22, 1944	2.20	1,300				
1945	Nov. 12, 1944	1.54	425				

660. Warm Creek near Colton, Calif.

Location.--Lat 34°04'09", long 117°18'28", in San Bernardino Grant, on right bank 200 ft upstream from "F" Street Bridge, 0.5 mile upstream from mouth, and 0.9 mile east of Colton, San Bernardino County.

Drainage area.--262 sq mi.

Gage.--Recording. Prior to Sept. 13, 1958, at site 200 ft downstream at different datum. Sept. 13, 1958, to Feb. 14, 1960, at site 350 ft downstream at same datum. Altitude of gage is 950 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs and extended above on basis of slope-area measurement at 27,500 cfs prior to Sept. 13, 1958; below 53 cfs and extended on basis of slope-area measurement at 990 cfs for period Sept. 13, 1958, to Feb. 14, 1960. Defined by current-meter measurements below 298 cfs and extended on basis of velocity-area study at 755 cfs thereafter.

Remarks.--Since 1945, peaks may be affected by Lytle Creek flood channel (capacity, 30,000 cfs), which enters Warm Creek above station and includes flow which formerly was recorded at stations on Lytle Creek (east and west channels). Only annual peaks are shown prior to Oct. 1, 1946. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Mar. 14, 1921	5.88	2,100	1926	Apr. 5, 1926	6.65	1,300
1922	Dec. 21, 1921	6.58	2,780	1927	Feb. 16, 1927	6.70	2,140
1923	Dec. 13, 1922	5.39	1,600	1928	Feb. 4, 1928	4.50	495
1924	Nov. 9, 1923	4.15	230	1929	Apr. 4, 1929	3.45	294
1925	May 19, 1925	3.45	173	1930	Mar. 15, 1930	3.40	286

Peak stages and discharges of Warm Creek near Colton, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Nov. 28, 1930	4.07	340	1952	Mar. 7, 1952	4.38	718
1932	Feb. 9, 1932	5.60	1,100		Mar. 15, 1952	5.42	1,120
1933	Jan. 19, 1933	5.60	930				
1934	Jan. 1, 1934	5.40	930	1953	Nov. 15, 1952	4.73	692
1935	Oct. 18, 1934	6.56	592		Dec. 2, 1952	4.81	724
1936	Feb. 2, 1936	6.50	605	1954	Jan. 19, 1954	5.69	1,020
1937	Feb. 6, 1937	7.40	1,520		Jan. 25, 1954	6.69	1,710
1938	Mar. 2, 1938	-	27,500		Feb. 13, 1954	4.60	855
1939	Sept.25, 1939	8.53	1,900		Mar. 21, 1954	3.55	500
1940	Jan. 8, 1940	8.75	1,440				
				1955	Nov. 11, 1954	5.88	1,290
1941	Feb. 20, 1941	9.05	1,910		Jan. 18, 1955	4.62	1,010
1942	Dec. 10, 1941	-	355				
	Mar. 14, 1942	6.20	-	1956	Jan. 26, 1956	6.70	2,060
1943	Jan. 23, 1943	-	9,200				
1944	Feb. 22, 1944	6.40	2,680	1957	Jan. 13, 1957	6.50	1,940
1945	Feb. 2, 1945	5.43	800				
				1958	Oct. 21, 1957	2.38	530
1946	Dec. 23, 1945	a6.13	2,900		Dec. 15, 1957	2.72	722
					Dec. 17, 1957	2.45	568
1947	Nov. 13, 1946	6.40	1,200		Jan. 26, 1958	2.32	525
	Nov. 14, 1946	4.64	530		Feb. 4, 1958	4.05	2,650
	Nov. 20, 1946	5.35	1,350		Mar. 16, 1958	4.58	1,070
	Dec. 26, 1946	4.25	1,100		Mar. 22, 1958	4.88	828
					Apr. 1, 1958	6.45	2,580
1948	Dec. 5, 1947	4.32	780		Apr. 3, 1958	-	-
	Apr. 3, 1948	3.78	550				
				1959	Jan. 6, 1959	4.75	990
1949	Jan. 13, 1949	3.61	-		Feb. 11, 1959	4.18	846
	Feb. 27, 1949	-	421		Feb. 16, 1959	4.43	734
1950	Nov. 10, 1949	4.44	401	1960	Dec. 24, 1959	4.30	540
					Jan. 10, 1960	4.30	540
1951	Jan. 11, 1951	4.87	748		Jan. 12, 1960	4.50	660
					Feb. 2, 1960	4.72	794
1952	Dec. 29, 1951	4.81	724				
	Jan. 13, 1952	5.40	960	1961	Nov. 6, 1960	5.48	610
	Jan. 16, 1952	6.83	1,980				
	Jan. 18, 1952	5.92	1,310	1962	Dec. 2, 1961	5.77	755

a Occurred Dec. 22, 1945.

661. Lytle Creek (west channel) at Colton, Calif.

Location.--Lat 34°04'10", long 117°19'05", in San Bernardino Grant, on F Street near Colton Avenue at Colton, San Bernardino County.

Gage.--Recording. Altitude of gage is 980 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 970 cfs and extended above on basis of slope-area measurements at 7,900 and 13,000 cfs.

Historical data.--Flood of Feb. 24, 1891, at San Bernardino reached a peak discharge of 30,020 cfs, by slope-area measurement by F.C. Finkle, consulting engineer, Los Angeles.

Remarks.--Peaks may be affected by diversion by Fontana pipeline, irrigation, and ground-water recharge. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1891	Feb. 24, 1891	-	30,020	1937	Feb. 6, 1937	1.75	16
				1938	Mar. 2, 1938	-	7,900
1929	-	-	0	1939	-	-	0
1930	-	-	0	1940	Jan. 8, 1940	-	-
1931	-	-	0	1941	Feb. 20, 1941	1.60	30
1932	-	-	0	1942	Mar. 14, 1942	1.37	6.7
1933	-	-	0	1943	Jan. 23, 1943	9.6	13,000
1934	-	-	0	1944	Feb. 22, 1944	3.74	2,000
1935	Jan. 5, 1935	-	20	1945	Dec. 28, 1944	.57	4.4
1936	Feb. 13, 1936	-	-				

665. Santa Ana River at Riverside Narrows, near Arlington, Calif.

Location.--Lat 33°57'53", long 117°27'55", in SW¼NE¼SW¼ sec.25, T.2 S., R.6 W., on right bank at downstream side of bridge on Pedley Road, 1.8 miles downstream from Union Pacific Railroad bridge, 3.3 miles northwest of Arlington, and 12 miles upstream from Temescal Creek.

Drainage area.--851 sq mi.

Gage.--Recording. Prior to Nov. 15, 1943, at site 1¼ miles upstream at different datum. During this period temporary stations were maintained at different sites and datums within a quarter of a mile of the permanent gage. Nov. 15, 1943, to Aug. 31, 1954, at datum 3.00 ft higher. Sept. 1, 1954, to Jan. 17, 1955, at datum 2.00 ft higher. Datum of gage is 666.87 ft above mean sea level (levels by Riverside County engineer).

Stage-discharge relation.--Defined by current-meter measurements below 12,800 cfs and by slope-area measurement at 100,000 cfs prior to Nov. 15, 1943. Defined by current-meter measurements below 5,300 cfs thereafter.

Bankfull stage.--22 ft.

Remarks.--Peaks partly regulated by Big Bear Lake (capacity, 72,200 acre-ft) beginning in 1912. Since August 1949, peak flows may be affected by release of Colorado River water into Santa Ana River about 1.1 miles above station by the Metropolitan Water District of Southern California. Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Feb. 4, 1928	-	1,250	1953	Dec. 20, 1952	2.01	310
1929	Apr. 5, 1929	2.07	659				
1930	Mar. 15, 1930	1.60	457	1954	Jan. 19, 1954	2.53	1,470
					Jan. 25, 1954	3.55	3,650
1931	Feb. 5, 1931	2.27	195		Feb. 14, 1954	2.26	1,110
1932	Dec. 29, 1931	6.10	4,740		Mar. 23, 1954	1.87	672
1933	Jan. 20, 1933	-	1,100				
1934	Jan. 1, 1934	5.90	1,820	1955	Jan. 18, 1955	4.31	1,160
1935	Aug. 14, 1935	5.18	1,000				
				1956	Jan. 26, 1956	6.02	4,450
1936	Feb. 12, 1936	6.69	1,100				
1937	Feb. 7, 1937	-	12,000	1957	Jan. 13, 1957	5.57	3,450
1938	Mar. 2, 1938	-	100,000				
1939	Sept.25, 1939	-	1,050	1958	Dec. 17, 1957	3.55	642
1940	Jan. 8, 1940	3.72	3,000		Feb. 4, 1958	5.18	1,820
					Mar. 16, 1958	4.48	1,580
1941	Dec. 24, 1940	4.30	3,900		Mar. 22, 1958	4.12	1,250
1942	Dec. 10, 1941	4.07	391		Apr. 1, 1958	6.62	4,260
1943	Jan. 23, 1943	15.1	18,400		Apr. 3, 1958	6.50	4,080
1944	Feb. 22, 1944	4.36	3,600				
1945	Feb. 2, 1945	3.94	2,500	1959	Feb. 17, 1959	2.93	306
1946	Dec. 23, 1945	5.12	6,000	1960	Feb. 2, 1960	3.38	472
1947	Dec. 26, 1946	3.58	-				
				1961	Nov. 26, 1960	3.10	127
1948	Dec. 5, 1947	3.23	620				
	Feb. 6, 1948	3.16	520	1962	Dec. 2, 1961	4.79	774
	Apr. 4, 1948	3.34	720		Jan. 20, 1962	5.62	1,760
					Feb. 8, 1962	3.83	660
1949	Jan. 13, 1949	3.14	226		Feb. 12, 1962	5.08	1,630
					Feb. 16, 1962	4.15	900
1950	Feb. 6, 1950	3.34	306		Feb. 19, 1962	5.50	2,130
1951	Apr. 29, 1951	1.99	127	1963	Feb. 10, 1963	5.18	1,000
					Sept.19, 1963	4.68	710
1952	Dec. 20, 1951	3.30	1,150				
	Jan. 13, 1952	2.47	502	1964	Nov. 20, 1963	4.47	388
	Jan. 16, 1952	4.37	3,410				
	Jan. 18, 1952	4.92	4,880	1965	Nov. 17, 1964	4.50	620
	Mar. 7, 1952	2.60	526		Apr. 10, 1965	5.75	808
	Mar. 16, 1952	4.65	3,950				

670. Day Creek near Etiwanda, Calif.

Location.--Lat 34°11'05", long 117°32'20", in NW¼NW¼SW¼ sec.8, T.1 N., R.6 W., on left bank 0.5 mile downstream from confluence of two main forks and 4 miles north of Etiwanda.

Drainage area.--4.59 sq mi.

Gage.--Recording. Prior to Jan. 7, 1929, at site 125 ft downstream at different datum. Jan. 7, 1929, to Mar. 2, 1938, at site 200 ft upstream at different datum. May 2 to Sept. 2, 1938, at site 200 ft downstream at different datum. Altitude of gage is 2,870 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 20 cfs prior to Jan. 7, 1929; below 75 cfs, Jan. 7, 1929, to Mar. 2, 1938; throughout range thereafter.

Remarks.--Low peaks may be affected by Etiwanda Water Co. diversion. Only annual peaks are shown prior to Oct. 1, 1948. Base for partial-duration series, 25 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Feb. 4, 1928	-	29	1952	Mar. 15, 1952	2.23	92
1929	Mar. 10, 1929	1.46	90				
1930	May 3, 1930	.94	29	1953	Dec. 1, 1952	1.68	28
1931	Apr. 26, 1931	1.65	118	1954	Jan. 19, 1954	2.34	106
1932	Feb. 9, 1932	1.60	105		Jan. 25, 1954	3.28	242
1933	Jan. 19, 1933	1.66	20		Feb. 13, 1954	2.21	65
1934	Jan. 1, 1934	2.42	84				
1935	Apr. 8, 1935	2.10	172	1955	Nov. 11, 1954	2.15	57
					Dec. 3, 1954	2.30	54
1936	Feb. 11, 1936	2.55	192		Jan. 1, 1955	1.80	26
1937	Mar. 15, 1937	2.05	80				
1938	Mar. 2, 1938	-	4,200	1956	Jan. 26, 1956	2.73	195
1939	Sept.25, 1939	-	261				
1940	Jan. 8, 1940	3.25	286	1957	Jan. 13, 1957	2.70	176
					Feb. 23, 1957	1.84	33
1941	Apr. 4, 1941	2.75	175				
1942	Dec. 10, 1941	1.78	20	1958	Dec. 15, 1957	3.35	355
1943	Jan. 23, 1943	-	1,500		Dec. 17, 1957	2.93	207
1944	Feb. 22, 1944	2.57	139		Jan. 26, 1958	2.60	164
1945	Nov. 11, 1944	-	400		Feb. 4, 1958	2.73	192
					Feb. 19, 1958	2.10	30
1946	Mar. 30, 1946	3.05	250		Mar. 16, 1958	2.65	111
1947	Nov. 20, 1946	3.00	232		Apr. 3, 1958	3.17	301
1948	Apr. 28, 1948	2.22	81				
				1959	Jan. 6, 1959	1.92	40
1949	Jan. 20, 1949	1.55	24		Feb. 11, 1959	1.90	37
					Feb. 16, 1959	3.05	367
1950	Nov. 10, 1949	-	48				
	Dec. 19, 1949	-	81	1960	Apr. 27, 1960	1.93	41
	Feb. 6, 1950	-	42				
	Sept. 6, 1950	-	580	1961	Jan. 26, 1961	1.95	44
1951	Nov. 13, 1950	1.99	47	1962	Nov. 20, 1961	1.70	26
	Apr. 28, 1951	1.80	35		Dec. 2, 1961	2.68	174
					Jan. 20, 1962	1.82	34
1952	Oct. 25, 1951	2.25	96		Feb. 9, 1962	2.25	94
	Nov. 20, 1951	1.81	31		Feb. 15, 1962	1.92	31
	Dec. 5, 1951	2.81	214				
	Dec. 12, 1951	1.80	30	1963	Feb. 9, 1963	2.38	114
	Dec. 31, 1951	2.58	159		Sept.18, 1963	2.06	56
	Jan. 12, 1952	2.18	75				
	Jan. 16, 1952	2.35	94	1964	Apr. 1, 1964	1.47	16
	Jan. 18, 1952	2.15	57				
	Mar. 10, 1952	1.80	35	1965	Apr. 9, 1965	1.52	18

695. San Jacinto River near San Jacinto, Calif.

Location.--Lat 33°44'15", long 116°49'35", in SW¼SE¼NE¼ sec.13, T.5 S., R.1 E., on downstream side of right pier of bridge on State Highway 74, 1 mile downstream from North Fork and 8.2 miles southeast of San Jacinto.

Drainage area.--141 sq mi.

Gage.--Recording prior to Feb. 15, 1927, December 1929 to Feb. 6, 1937, and after Jan. 24, 1948; nonrecording Feb. 15, 1927, to December 1929, and Feb. 7, 1937, to Jan. 23, 1948. Prior to Feb. 15, 1927, at site 150 ft upstream at different datum. Feb. 15, 1927, to Jan. 23, 1948, at same site at various datums. Datum of gage is 1,982.75 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs prior to Feb. 15, 1927; below 1,800 cfs thereafter.

Bankfull stage.--14 ft.

Remarks.--Peaks partly regulated by Hemet Reservoir (capacity since 1923, 11,882 acre-ft) beginning in 1893. Low peaks may be affected by diversions above station for irrigation and domestic use. Peaks for the years 1941-44 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1949. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Mar. 13, 1921	4.12	324	1952	Apr. 10, 1952	5.12	482
1922	Feb. 10, 1922	6.30	2,180				
1923	Dec. 13, 1922	4.50	630	1953	Jan. 8, 1953	4.26	115
1924	Mar. 6, 1924	3.75	238				
1925	Dec. 23, 1924	3.28	113	1954	Jan. 25, 1954	6.05	786
					Feb. 14, 1954	4.45	202
1926	Apr. 6, 1926	6.75	2,700		Mar. 22, 1954	5.68	760
1927	Feb. 16, 1927	-	45,000		Mar. 25, 1954	4.53	198
1928	Dec. 30, 1927	3.00	42		Mar. 30, 1954	4.42	159
1930	May 5, 1930	2.52	203	1955	Feb. 17, 1955	5.04	340
					July 19, 1955	4.77	255
1931	Aug. 31, 1931	7.15	6,000		Aug. 13, 1955	4.36	113
1932	Dec. 28, 1931	5.70	3,150				
1933	Apr. 29, 1933	2.76	94	1956	Jan. 27, 1956	6.65	1,080
1934	Jan. 1, 1934	3.20	295		July 17, 1956	5.21	384
1935	Feb. 6, 1935	3.18	280				
				1957	Jan. 13, 1957	4.95	292
1936	Feb. 11, 1936	3.15	287		Mar. 1, 1957	4.40	135
1937	Feb. 6, 1937	-	14,000				
1938	Mar. 2, 1938	-	14,300	1958	Jan. 26, 1958	4.34	123
1939	Mar. 27, 1939	1.90	220		Feb. 4, 1958	5.31	416
1940	Jan. 8, 1940	3.1	470		Mar. 16, 1958	6.93	1,480
					Mar. 22, 1958	7.28	1,780
1941	Mar. 5, 1941	3.20	820		Apr. 1, 1958	6.17	985
1942	Mar. 20, 1942	2.24	101		Apr. 3, 1958	7.26	1,770
1943	Mar. 4, 1943	-	1,420		Aug. 15, 1958	5.82	785
1944	Mar. 7, 1944	-	66		Aug. 16, 1958	6.86	1,450
1945	Feb. 2, 1945	-	800				
				1959	Feb. 16, 1959	5.69	715
1946	Dec. 22, 1945	-	2,000		Sept.13, 1959	4.77	328
1947	Nov. 23, 1946	-	117				
1948	Apr. 4, 1948	4.10	60	1960	Dec. 10, 1959	4.57	185
1949	Mar. 20, 1949	3.94	56		Feb. 2, 1960	4.23	101
1950	Jan. 29, 1950	4.27	125	1961	Aug. 19, 1961	4.70	215
	Feb. 7, 1950	4.81	200				
	Feb. 11, 1950	4.28	128	1962	Sept.22, 1962	4.32	119
1951	July 18, 1951	4.05	44	1963	Feb. 10, 1963	4.33	160
					Sept.18, 1963	4.17	128
1952	Dec. 30, 1951	7.61	1,600				
	Jan. 16, 1952	5.52	669	1964	Apr. 1, 1964	4.78	129
	Jan. 18, 1952	5.63	766				
	Mar. 10, 1952	4.91	372	1965	Dec. 27, 1964	4.36	115
	Mar. 16, 1952	4.60	255		Apr. 10, 1965	4.47	126
	Apr. 8, 1952	4.81	336				

700. Bautista Creek near Hemet, Calif.

Location.--Lat 33°41'40", long 116°51'00", in NE¼NE¼SW¼ sec.35, T.5 S., R.1 E., on left bank a quarter of a mile upstream from unnamed tributary, 6 miles upstream from mouth, and 8 miles southeast of Hemet.

Drainage area.--39.4 sq mi.

Gage.--Recording. Altitude of gage is 2,250 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 600 cfs and extended above on basis of slope-area measurement at 1,170 cfs.

Bankfull stage.--13 ft.

Remarks.--Base for partial-duration series, 20 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Dec. 5, 1947, Feb. 5, 1948	2.82	10	1956	Jan. 27, 1956	3.00	143
				1957	Jan. 13, 1957	2.01	3.6
1949	-	-	0	1958	Feb. 4, 1958	3.39	206
					Mar. 16, 1958	3.33	223
1950	-	-	0		Mar. 22, 1958	3.52	312
					Apr. 1, 1958	3.85	512
1951	July 28, 1951	2.92	22		Apr. 3, 1958	4.65	1,440
					Apr. 7, 1958	-	300
1952	Dec. 30, 1951	4.46	576		July 29, 1958	-	25
	Jan. 16, 1952	3.92	546				
	Jan. 18, 1952	3.96	578	1959	Jan. 6, 1959	2.65	21
	Mar. 11, 1952	3.91	530		Feb. 11, 1959	2.75	30
	Mar. 13, 1952	2.55	41				
	Mar. 16, 1952	3.28	195	1960	Dec. 10, 1959	2.80	24
1953	Nov. 15, 1952	1.14	3.3	1961	Nov. 6, 1960	2.95	42
1954	Jan. 25, 1954	2.53	26	1962	Dec. 2, 1961	2.90	37
	Feb. 14, 1954	2.63	60				
	Mar. 22, 1954	2.88	113	1963	Sept.18, 1963	2.58	5.0
	Mar. 25, 1954	2.94	129				
	July 13, 1954	2.55	47	1964	Mar. 23, 1964	2.66	18
1955	July 19, 1955	4.43	1,170	1965	Apr. 10, 1965	3.14	32

705. San Jacinto River near Elsinore, Calif.

Location.--Lat 33°39'51", long 117°17'35", in SE¼SE¼NE¼ sec.9, T.6 S., R.4 W., on right bank 2 miles east of Elsinore and 2.1 miles downstream from Railroad Canyon Dam.

Drainage area.--728 sq mi.

Gage.--Nonrecording prior to Oct. 28, 1921; recording thereafter. Prior to Feb. 13, 1916, at site 0.75 mile downstream at different datum. Feb. 13, 1916, to Oct. 27, 1921, at present site at different datum. Altitude of gage is 1,270 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 680 cfs and extended above on basis of slope-area measurement at 14,000 cfs prior to Feb. 13, 1916. Defined by current-meter measurements below 2,000 cfs and extended above on basis of slope-area measurement at 16,000 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks partly regulated by Hemet Reservoir (capacity, 11,882 acre-ft) since 1893, and regulated since 1928 by Railroad Canyon Reservoir (capacity, 12,000 acre-ft) 2.1 miles above station. Peaks for the years 1917-20 are maximum observed. Only annual peaks are shown.

Peak stages and discharges of San Jacinto River near Elsinore, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 28, 1916	19.0	14,000	1941	Mar. 18, 1941	7.52	1,480
1917	Feb. 26, 1917	2.52	130	1942	Oct. 2, 1941	2.92	11
1918	Mar. 12, 1918	4.28	750	1943	Mar. 5, 1943	7.08	1,170
1919	Mar. 17, 1919	1.40	6.5	1944	Feb. 24, 1944	4.62	120
1920	Mar. 27, 1920	3.26	234	1945	Nov. 15, 1944	3.20	12
1921	-	-	0	1946	Dec. 22, 1945	2.99	6.3
1922	Dec. 26, 1921	7.28	1,930	1947	Dec. 26, 1946	2.71	2.3
1923	Apr. 13, 1923	3.27	64	1948	Feb. 6, 1948	2.46	.7
1924	Mar. 26, 1924	3.20	56	1949	Apr. 28, 1949	2.53	.7
1925	June 26, 1925	3.38	77	1950	Dec. 7, 1949	3.39	18
1926	Apr. 8, 1926	7.60	2,200	1951	-	-	0
1927	Feb. 17, 1927	11.8	16,000	1952	Mar. 15, 1952	5.56	658
1928	Feb. 4, 1928	2.56	2.0	1953	Mar. 2, 1953	2.33	.5
1929	Apr. 4, 1929	2.44	.4	1954	Feb. 13, 1954	3.14	29
1930	Mar. 16, 1930	3.07	8.5	1955	July 19, 1955	2.48	2.3
1931	Feb. 5, 1931	2.88	6.5	1956	-	-	0
1932	Mar. 3, 1932	5.41	654	1957	Jan. 14, 1957	2.82	13
1933	Jan. 20, 1933	2.93	20	1958	Apr. 7, 1958	6.36	840
1934	Mar. 24, 1934	2.95	20	1959	Jan. 6, 1959	2.29	.8
1935	May 2, 1935	2.85	4.7	1960	Nov. 4, 1959	2.46	.8
1936	Feb. 22, 1936	2.88	3.6	1961	-	-	0
1937	Feb. 9, 1937	7.80	2,260	1962	Feb. 21, 1962	2.31	.2
1938	Mar. 5, 1938	8.41	2,790	1963	-	-	0
1939	Mar. 24, 1939	5.47	503	1964	Mar. 23, 1964	4.85	308
1940	Feb. 3, 1940	3.39	38	1965	Apr. 23, 1965	4.99	305

730. San Antonio Creek near Claremont, Calif.

Location.--Lat 34°12'58", long 117°40'04", in SE¼SW¼NE¼ sec.36, T.2 N., R.8 W., on right bank 0.5 mile upstream from Southern California Edison Co.'s Sierra powerplant and 8.8 miles northeast of Claremont.

Drainage area.--16.9 sq mi.

Gage.--Recording. Prior to Jan. 10, 1939, at site 50 ft downstream at different datum. Altitude of gage is 3,400 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 300 cfs and extended above on basis of slope-area measurement at 21,400 cfs and rainfall-runoff studies prior to Jan. 10, 1939. Defined by current-meter measurements below 160 cfs and extended on basis of slope-area measurement at 2,100 cfs thereafter.

Remarks.--Low peaks affected by Southern California Edison Co. diversion 0.5 mile upstream. Diversion started prior to beginning of record. Only annual peaks are shown prior to Oct. 1, 1950. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Mar. 7, 1918	4.00	362	1936	Feb. 2, 1936	3.75	58
1919	Nov. 26, 1918	1.42	1.6	1937	Feb. 14, 1937	5.00	175
1920	Mar. 2, 1920	2.89	99	1938	Mar. 2, 1938	-	21,400
				1939	Sept.25, 1939	3.55	380
1921	Mar. 14, 1921	2.68	68	1940	Jan. 8, 1940	2.55	102
1922	Dec. 19, 1921	8.20	1,020				
1923	Dec. 13, 1922	2.90	89	1941	Mar. 12, 1941	2.93	203
1924	Mar. 26, 1924	1.94	11	1942	Dec. 10, 1941	1.79	22
1925	Apr. 6, 1925	2.05	16	1943	Jan. 23, 1943	5.66	2,100
				1944	Apr. 8, 1944	2.30	102
1926	Apr. 5, 1926	3.93	348	1945	Nov. 11, 1944	3.38	373
1927	Feb. 16, 1927	5.35	718				
1928	Feb. 4, 1928	-	10	1946	Dec. 23, 1945	3.06	250
1929	Mar. 10, 1929	3.76	7.5	1947	Dec. 26, 1946	2.98	225
1930	Mar. 26, 1930	3.92	31	1948	Apr. 28, 1948	1.59	20
				1949	Apr. 20, 1949	1.32	10
1931	Apr. 26, 1931	3.94	43	1950	Dec. 18, 1949	1.34	10
1932	Feb. 9, 1932	5.18	191				
1933	Jan. 19, 1933	2.62	6.5	1951	Apr. 28, 1951	1.00	3.9
1934	Jan. 1, 1934	3.96	119				
1935	Apr. 8, 1935	3.80	101	1952	Apr. 7, 1952	2.26	74

Peak stages and discharges of San Antonio Creek near Claremont, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Dec. 1, 1952	1.80	24	1958	Apr. 3, 1958	3.18	291
1954	Jan. 19, 1954	2.35	79	1959	Feb. 16, 1959	1.97	82
	Jan. 25, 1954	2.57	124				
	Feb. 13, 1954	2.15	53	1960	Apr. 27, 1960	1.54	8.8
1955	Feb. 27, 1955	1.84	19	1961	Jan. 26, 1961	1.44	4.4
1956	Jan. 26, 1956	2.18	51	1962	Nov. 20, 1961	2.20	57
					Dec. 2, 1961	2.40	87
1957	Jan. 13, 1957	2.47	94		Feb. 11, 1962	2.83	182
1958	Dec. 15, 1957	2.84	231	1963	Feb. 9, 1963	2.01	36
	Jan. 26, 1958	2.37	100				
	Feb. 4, 1958	2.85	178	1964	Jan. 21, 1964	1.58	9.1
	Feb. 19, 1958	2.26	72				
	Mar. 16, 1958	2.45	116	1965	Apr. 30, 1965	1.98	36
	Mar. 22, 1958	2.45	124				

734.7. Cucamonga Creek near Upland, Calif.

Location.--Lat 34°10'26", long 117°37'51", in SW¼SE¼NE¼ sec.17, T.1 N., R.7 W., on right bank 0.5 mile downstream from unnamed tributary on left and 5.3 miles north of Upland.

Drainage area.--10.1 sq mi.

Gage.--Recording. Prior to Jan. 17, 1935, and Apr. 15, 1935, to Nov. 11, 1936, at site 2,500 ft downstream at different datums. Jan. 18 to Apr. 14, 1935, at site 1,200 ft downstream at different datum. Nov. 12, 1936, to Dec. 13, 1938, at site 300 ft downstream at different datum. Altitude of gage is 2,360 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 126 cfs prior to Nov. 11, 1936; below 116 cfs and extended on basis of rainfall-runoff study at 10,300 cfs for period Nov. 12, 1936, to Dec. 13, 1938; below 348 cfs and extended above on basis of slope-area measurement at 1,400 cfs thereafter.

Remarks.--Records for 1928 furnished by Department of Water Resources, State of California. Only annual peaks are shown prior to Oct. 1, 1951. Base for partial-duration series, 80 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Feb. 4, 1928	-	72	1951	Apr. 28, 1951	2.15	17
1929	Mar. 10, 1929	1.88	118				
1930	Mar. 4, 1930	1.80	83	1952	Jan. 12, 1952	2.84	87
					Jan. 16, 1952	3.33	208
1931	Apr. 26, 1931	1.98	117		Jan. 18, 1952	2.91	142
1932	Feb. 9, 1932	2.10	340		Mar. 15, 1952	2.87	115
1933	Jan. 19, 1933	1.55	110				
1934	Dec. 31, 1933	2.04	313	1953	Dec. 1, 1952	2.46	47
1935	Dec. 14, 1934	2.00	197				
				1954	Jan. 19, 1954	-	(a)
1936	Feb. 11, 1936	2.93	475		Jan. 25, 1954	-	(a)
1937	Feb. 6, 1937	4.05	274		Feb. 13, 1954	4.48	575
1938	Mar. 2, 1938	-	10,300		Mar. 20, 1954	2.91	95
1939	Sept. 25, 1939	4.08	534				
1940	Jan. 8, 1940	4.25	628	1955	Nov. 11, 1954	3.10	131
1941	Feb. 19, 1941	3.88	424	1956	Jan. 26, 1956	4.32	474
1942	Dec. 10, 1941	2.81	54				
1943	Jan. 23, 1943	6.36	1,400	1957	Jan. 13, 1957	3.19	144
1944	Feb. 22, 1944	3.89	334				
1945	Nov. 11, 1944	4.85	675	1958	Dec. 15, 1957	3.70	270
					Jan. 26, 1958	3.12	100
1946	Dec. 23, 1945	4.79	650		Feb. 4, 1958	3.68	259
1947	Nov. 20, 1946	4.40	500		Feb. 19, 1958	2.93	80
1948	Apr. 3, 1948	2.59	48		Mar. 16, 1958	3.71	171
1949	Jan. 20, 1949	2.23	19		Apr. 1, 1958	3.76	295
1950	Dec. 19, 1949	3.10	140		Apr. 3, 1958	4.05	410

a Discharge unknown; exceeded base.

Peak stages and discharges of Cucamonga Creek near Upland, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 11, 1959	3.05	121	1962	Jan. 20, 1962	3.23	203
	Feb. 16, 1959	4.17	423		Feb. 9, 1962	3.00	148
1960	Apr. 27, 1960	2.47	38	1963	Feb. 9, 1963	3.28	139
1961	Nov. 12, 1960	2.12	9.9	1964	Apr. 1, 1964	2.77	49
1962	Nov. 20, 1961	3.50	280	1965	Apr. 9, 1965	3.04	93
	Dec. 2, 1961	3.44	205				

735. Chino Creek near Prado, Calif.

Location.--Lat 33°53'47", long 117°38'32", in El Rincon Grant, on former Chino-Rincon road, 0.4 mile north of Prado Dam and 1 mile west of Prado, Riverside County.

Drainage area.--141 sq mi.

Gage.--Recording. Prior to Apr. 2, 1931, at different datum. Altitude of gage is 470 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 200 cfs and extended above on basis of slope-area measurement at 5,200 cfs.

Remarks.--Low peaks may be affected by numerous diversions above station for irrigation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Apr. 5, 1929	3.50	85	1935	Mar. 7, 1935	6.07	262
1930	Jan. 11, 1930	4.52	181				
				1936	Feb. 13, 1936	7.42	433
1931	Feb. 5, 1931	3.38	82	1937	Feb. 6, 1937	10.30	725
1932	Feb. 8, 1932	8.22	580	1938	Mar. 2, 1938	-	5,200
1933	Jan. 30, 1933	6.00	250	1939	Feb. 3, 1939	7.25	384
1934	Jan. 1, 1934	10.50	1,440	1940	Jan. 8, 1940	9.12	722

745. Santa Ana River at county line, below Prado Dam, Calif.
(Published as "near Prado" 1919-42, 1945-50)

Location.--Lat 33°52'14", long 117°40'17", in NW¼ sec.36, T.3 S., R.8 W., on right bank 175 ft upstream from Riverside-Orange County line, 2.9 miles downstream from Prado Dam, and 6.1 miles west of Corona.

Drainage area.--1,506 sq mi.

Gage.--Recording. Prior to Mar. 17, 1927, at site 500 ft downstream at datum 2.39 ft higher, and Mar. 17, 1927, to Mar. 29, 1938, at datum 1.11 ft lower. Datum of gage is 407.34 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 3,800 cfs and extended above on basis of slope-area measurement at 6,700 cfs and depth-velocity studies prior to Mar. 29, 1938; defined by current-meter measurements below 3,530 cfs thereafter. Peak discharge for Mar. 3, 1938, estimated on basis of results of slope-area measurement, depth-velocity studies and comparison with records for Santa Ana River at Santa Ana.

Bankfull stage.--10 ft.

Remarks.--Peaks regulated by Big Bear Lake (capacity, 72,200 acre-ft) beginning in 1912 and by Prado Reservoir (capacity, 222,800 acre-ft) beginning in 1940. Only annual peaks are shown.

Peak stages and discharges of Santa Ana River at county line, below Prado Dam, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Feb. 23, 1920	5.45	7,560	1935	Jan. 5, 1935	3.98	855
1921	Mar. 14, 1921	5.60	2,900	1936	Feb. 15, 1936	5.26	1,280
1922	Dec. 21, 1921	8.02	6,700	1937	Feb. 7, 1937	11.45	11,700
1923	Dec. 14, 1922	3.90	1,080	1938	Mar. 3, 1938	17.32	100,000
1924	Mar. 27, 1924	2.53	1,600	1939	Sept.26, 1939	3.58	1,150
1925	Apr. 5, 1925	1.93	467	1940	Jan. 8, 1940	4.55	4,060
1926	Apr. 6, 1926	7.40	5,850	1953	Dec. 20, 1952	3.27	350
1927	Feb. 16, 1927	11.5	18,000	1954	Feb. 14, 1954	5.51	924
1928	Feb. 4, 1928	3.50	1,600	1955	Jan. 19, 1955	5.46	653
1929	Apr. 5, 1929	3.92	1,000				
1930	Mar. 15, 1930	3.96	735	1956	Jan. 27, 1956	6.47	1,190
				1957	Jan. 13, 1957	6.15	726
1931	Feb. 5, 1931	3.61	369	1958	Apr. 3, 1958	7.42	1,200
1932	Feb. 9, 1932	7.64	4,800	1959	Jan. 6, 1959	4.23	505
1933	Jan. 20, 1933	5.23	1,540	1960	Feb. 2, 1960	3.58	344
1934	Jan. 1, 1934	-	3,300				

757.4. Carbon Creek near Yorba Linda, Calif.

Location.--Lat 33°53'22", long 117°50'40", in NW¼NW¼NE¼ sec.29, T.3 S., R.9 W., on downstream side of left abutment of Yorba Linda Boulevard Bridge, 1.8 miles west of Yorba Linda.

Drainage area.--20.4 sq mi.

Gage.--Recording. At different sites and datums 1927-35, and 1936-43. Datum of gage is 288.60 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 300 cfs subsequent to Oct. 1, 1949.

Remarks.--Peaks for the years 1931-38 and 1943 were furnished by Orange County Flood Control District. Base for partial-duration series, 25 cfs. Only annual peaks are shown prior to Oct. 1, 1949.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	-	-	a2,500	1953	Nov. 15, 1952	3.84	25
1931	-	-	21	1954	Jan. 25, 1954	4.07	180
1932	Feb. 8, 1932	-	279		Feb. 13, 1954	3.77	64
1933	Jan. 29, 1933	-	186	1955	Nov. 11, 1954	3.88	92
1934	Jan. 1, 1934	-	728	1956	Jan. 26, 1956	4.80	155
1935	Mar. 7, 1935	-	102				
1936	Feb. 12, 1936	-	330	1957	Feb. 1, 1957	3.70	22
1937	Feb. 6, 1937	-	830				
1938	Mar. 2, 1938	-	1,760	1958	Dec. 17, 1957	3.98	49
					Feb. 4, 1958	5.15	768
1943	January 1943	-	900		Feb. 19, 1958	3.63	38
					Feb. 25, 1958	3.68	51
1950	Feb. 6, 1950	2.78	1.0		Mar. 16, 1958	4.12	163
					Mar. 21, 1958	3.56	28
1951	Nov. 13, 1950	2.96	2.3		Apr. 3, 1958	5.35	935
					Apr. 7, 1958	4.82	529
1952	Dec. 29, 1951	4.31	218				
	Jan. 13, 1952	3.88	169	1959	Feb. 11, 1959	3.93	32
	Jan. 16, 1952	4.64	448				
	Jan. 18, 1952	4.60	616	1960	Jan. 12, 1960	4.02	40
	Mar. 7, 1952	3.50	240		Feb. 1, 1960	4.08	50
	Mar. 10, 1952	3.15	36				
	Mar. 15, 1952	3.80	136	1961	Jan. 26, 1961	3.93	8.4

a From Engineering and Geological Reports for Flood Control Projects: "Control and Conservation of Flood Waters in Orange County, Calif." by Etcheverry, Means, Thompson, Elliot.

770. Santiago Creek near Villa Park, Calif.

Location.--Lat 33°49'22", long 117°46'33", in NE¼NE¼SW¼ sec.13, T.4 S., R.9 W., on right bank 1.4 miles downstream from Weir Canyon and 2.7 miles northeast of Villa Park.

Drainage area.--84.6 sq mi.

Gage.--Recording. Altitude of gage is 430 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 315 cfs and extended above on basis of slope-area measurement at 11,000 cfs.

Remarks.--Peaks regulated by Santiago Reservoir (capacity, 25,000 acre-ft) since December 1931. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Mar. 14, 1921	4.20	685	1943	Jan. 23, 1943	4.17	2,420
1922	Feb. 9, 1922	5.72	1,900	1944	Feb. 22, 1944	4.81	3,000
1923	Dec. 12, 1922	1.93	17	1945	Feb. 2, 1945	1.85	330
1924	Dec. 27, 1923	2.25	20				
1925	Apr. 4, 1925	1.85	15	1946	Dec. 23, 1945	2.60	150
				1947	Nov. 23, 1946	1.97	40
1926	Apr. 6, 1926	6.25	2,500	1948	Dec. 4, 1947	1.18	1.1
1927	Feb. 16, 1927	8.4	11,000	1949	Dec. 26, 1948	3.24	407
1928	Feb. 4, 1928	1.85	355	1950	Feb. 6, 1950	4.29	804
1929	Dec. 12, 1928	.64	34				
1930	Mar. 15, 1930	2.00	379	1951	Nov. 13, 1950	2.90	139
				1952	Jan. 16, 1952	9.40	3,300
1931	Feb. 7, 1931	1.70	322	1953	Dec. 1, 1952	5.75	955
1932	Dec. 28, 1931	1.75	226	1954	Feb. 13, 1954	5.02	494
1933	Jan. 20, 1933	1.41	144	1955	Jan. 18, 1955	3.83	104
1934	Jan. 1, 1934	1.96	271				
1935	Oct. 17, 1934	1.60	194	1956	Jan. 26, 1956	6.00	868
				1957	Jan. 13, 1957	4.28	144
1936	Feb. 15, 1936	1.50	142	1958	Apr. 3, 1958	6.25	825
1937	Feb. 6, 1937	4.45	2,570	1959	Jan. 6, 1959	4.16	128
1938	Mar. 2, 1938	6.27	5,200	1960	Jan. 12, 1960	3.43	26
1939	Feb. 3, 1939	.84	76				
1940	Feb. 3, 1940	1.60	50	1961	Nov. 6, 1960	5.25	388
				1962	Jan. 20, 1962	4.08	98
1941	Mar. 4, 1941	3.90	1,800	1963	Mar. 3, 1963	3.17	4.6
1942	Dec. 10, 1941	.70	2.0				

775. Santiago Creek at Santa Ana, Calif.

Location.--Lat 33°46'09", long 117°52'54", in NE¼SW¼NW¼ sec.1, T.5 S., R.10 W., on left bank at end of Baker Street, Santa Ana, 2,400 ft upstream from mouth.

Drainage area.--95.0 sq mi.

Gage.--Recording. Prior to June 22, 1948, at datum 0.96 ft higher. Altitude of gage is 110 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by Santiago Reservoir (capacity, 25,000 acre-ft), beginning in December 1931. Low peaks may be affected in the winter season by water wasted from Santa Ana River by Santa Ana Valley Irrigation Co.'s canal into Santiago Creek 3 miles above station. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 15, 1930	3.02	400	1935	Mar. 7, 1935	3.10	500
1931	Apr. 26, 1931	1.92	105	1936	Feb. 15, 1936	2.85	400
1932	Dec. 28, 1931	2.58	272	1937	Feb. 6, 1937	6.90	3,270
1933	Jan. 20, 1933	2.13	226	1938	Mar. 2, 1938	7.40	4,400
1934	Jan. 1, 1934	3.25	550	1939	Feb. 3, 1939	3.25	500

Peak stages and discharges of Santiago Creek at Santa Ana, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 3, 1940	2.85	376	1953	Dec. 2, 1952	3.57	301
				1954	Feb. 13, 1954	3.91	454
1941	Mar. 14, 1941	4.42	1,990	1955	Jan. 10, 1955	3.17	68
1942	Dec. 10, 1941	2.70	200				
1943	Jan. 23, 1943	6.73	3,440	1956	Jan. 26, 1956	5.55	1,270
1944	Feb. 22, 1944	9.32	3,600	1957	Feb. 23, 1957	3.35	85
1945	Feb. 2, 1945	2.58	134	1958	Apr. 3, 1958	5.38	895
				1959	Jan. 6, 1959	3.88	348
1946	Dec. 22, 1945	3.23	280	1960	Feb. 1, 1960	3.54	189
1947	Nov. 14, 1946	2.80	186				
1948	Apr. 3, 1948	1.87	28	1961	Nov. 26, 1960	2.62	53
1949	Dec. 17, 1948	3.41	104	1962	Dec. 2, 1961	3.28	157
1950	Feb. 6, 1950	6.00	1,040	1963	Feb. 10, 1963	3.40	241
				1964	Nov. 20, 1963	4.50	621
1951	Nov. 13, 1950	3.94	237	1965	Apr. 1, 1965	3.65	275
1952	Jan. 16, 1952	9.85	3,740				

780. Santa Ana River at Santa Ana, Calif.

Location.--Lat 33°44'56", long 117°54'30", in NW¼SW¼SE¼ sec.10, T.5 S., R.10 W., on center pier of Fifth Street Bridge in Santa Ana, 1.8 miles downstream from Santiago Creek.

Drainage area.--1,685 sq mi.

Gage.--Recording. Prior to Jan. 24, 1929, at different datum. Jan. 25, 1929, to June 20, 1948, at site 450 ft upstream at different datum. June 21, 1948, to May 2, 1960, at different datum and Feb. 28 to Oct. 1, 1961, at datum 2.00 ft higher. Datum of gage is 71.20 ft above mean sea level (Orange County bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 9,500 cfs and extended above on basis of slope-area measurement at 46,300 cfs prior to June 21, 1948; defined below 1,800 cfs and extended on basis of slope-area measurement at 4,720 cfs thereafter.

Bankfull stage.--18 ft.

Remarks.--Peaks regulated by several reservoirs, including Big Bear Lake (capacity, 72,200 acre-ft), beginning in 1884, and Prado flood-control reservoir (capacity, 222,800 acre-ft) beginning in 1941. Peaks may be affected by ground-water withdrawals, diversions, importation from Metropolitan Water District, municipal use and return flow from irrigation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Jan. 31, 1923	0.64	158	1946	Dec. 22, 1945	2.20	810
1924	Apr. 7, 1924	.84	200	1947	Nov. 14, 1946	1.51	243
1925	Apr. 25, 1925	.75	200	1948	Apr. 3, 1948	1.12	25
				1949	Jan. 13, 1949	2.19	2.7
1926	Apr. 6, 1926	4.20	5,300	1950	Feb. 6, 1950	4.55	666
1927	Feb. 16, 1927	8.2	25,000				
1928	Feb. 4, 1928	2.40	370	1951	Nov. 13, 1950	3.32	80
1929	Jan. 4, 1929	1.56	23	1952	Jan. 16, 1952	6.38	3,790
1930	Mar. 15, 1930	2.72	226	1953	Dec. 2, 1952	3.57	213
				1954	Feb. 13, 1954	4.25	592
1932	Feb. 9, 1932	2.60	2,800	1955	Jan. 10, 1955	3.51	66
1933	Jan. 20, 1933	1.68	470				
1934	Jan. 1, 1934	2.22	1,530	1956	Jan. 26, 1956	5.38	1,040
1935	Oct. 18, 1934	1.66	378	1957	Jan. 13, 1957	2.65	-
					Feb. 23, 1957	-	149
1936	Feb. 12, 1936	1.84	580	1958	Apr. 3, 1958	a6.75	9,000
1937	Feb. 7, 1937	-	9,500	1959	Jan. 6, 1959	2.56	172
1938	Mar. 3, 1938	10.20	46,300	1960	Feb. 1, 1960	3.28	350
1939	Feb. 3, 1939	1.05	860				
1940	Jan. 8, 1940	1.80	2,760	1961	Jan. 26, 1961	-	20
				1962	Feb. 8, 1962	3.46	610
1941	Mar. 14, 1941	2.78	4,920	1963	Mar. 18, 1963	a5.44	4,720
1942	Mar. 14, 1942	1.19	350	1964	Nov. 20, 1963	3.31	1,000
1943	Jan. 23, 1943	2.56	4,400	1965	Apr. 1, 1965	3.22	432
1944	Feb. 22, 1944	4.10	6,700				
1945	Feb. 23, 1945	1.92	700				

a Result of temporary dam failure.

800. East Fork San Gabriel River at Camp Bonita, Calif.

Location.--Lat 34°13'50", long 117°46'05", near east line sec.25, T.2 N., R.9 W., at Camp Bonita, 500 ft upstream from Cattle Canyon and 8.5 miles northeast of Glendora.

Drainage area.--58.2 sq mi.

Gage.--Recording. Altitude of gage is 1,840 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 190 cfs.

Remarks.--Records furnished by Los Angeles County Flood Control District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Feb. 4, 1928	3.73	266	1931	Apr. 26, 1931	4.33	267
1929	Mar. 10, 1929	4.32	448	1932	Feb. 8, 1932	-	3,340
1930	May 3, 1930	3.46	122				

805. East Fork San Gabriel River near Camp Bonita, Calif.
(Published as "San Gabriel River" prior to 1940)

Location.--Lat 34°14'08", long 117°48'16", in NE¼NE¼ sec.27, T.2 N., R.9 W., on right bank 1,600 ft upstream from mouth of Graveyard Canyon, 2.5 miles upstream from confluence with West Fork, and 2.5 miles west of Camp Bonita.

Drainage area.--88.2 sq mi.

Gage.--Recording. Prior to Dec. 10, 1938, at site 0.6 mile downstream at different datum. Datum of gage is 1,567.04 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 21,300 cfs prior to Dec. 10, 1938; below 2,800 cfs thereafter.

Remarks.--Records furnished by Los Angeles County Flood Control District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Jan. 19, 1933	4.02	1,250	1950	Feb. 6, 1950	7.89	248
1934	Jan. 1, 1934	5.79	8,500				
1935	Apr. 8, 1935	4.92	1,080	1951	Apr. 28, 1951	6.84	39
				1952	Jan. 16, 1952	10.68	1,110
1936	Feb. 11, 1936	-	1,290	1953	Dec.1,2, 1952	8.10	116
1937	Feb. 14, 1937	-	2,180	1954	Jan. 25, 1954	10.55	1,690
1938	Mar. 2, 1938	-	46,000	1955	Nov. 11, 1954	9.00	203
1939	Dec. 18, 1938	8.60	716				
1940	Jan. 8, 1940	8.73	1,360	1956	Jan. 26, 1956	10.23	1,020
				1957	Jan. 13, 1957	10.6	1,060
1941	Feb. 20, 1941	8.46	1,870	1958	Apr. 3, 1958	11.33	2,720
1942	Aug. 10, 1942	7.14	349	1959	Feb. 16, 1959	10.46	947
1943	Jan. 23, 1943	10.50	25,000	1960	Apr. 28, 1960	8.59	94
1944	Feb. 22, 1944	11.05	2,410				
1945	Nov. 11, 1944	11.25	2,810	1961	Nov. 12, 1960	8.77	112
				1962	Feb. 11, 1962	11.76	3,600
1946	Dec. 21, 1945	10.90	2,760	1963	Feb. 9, 1963	10.04	607
1947	Dec. 26, 1946	10.40	1,900	1964	Jan. 22, 1964	8.91	202
1948	Apr. 29, 1948	10.05	210	1965	Apr. 9, 1965	9.30	274
1949	Apr. 24, 1949	9.75	70				

810. Bear Creek near Camp Rincon, Calif.

Location.--Lat 34°14'30", long 117°53'05", 500 ft upstream from mouth and 1.4 miles west of Camp Rincon.

Drainage area.--28.2 sq mi (revised).

Gage.--Recording. Prior to Dec. 20, 1935, at site 1.5 miles upstream at different datum. Altitude of gage is 1,630 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,180 cfs prior to Dec. 20, 1935; throughout range of stage thereafter.

Remarks.--Records furnished by Los Angeles County Flood Control District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	May 3, 1930	3.70	108	1933	Jan. 19, 1933	5.29	566
				1934	Jan. 1, 1934	8.0	1,600
1931	Apr. 26, 1931	5.30	527				
1932	Feb. 9, 1932	7.78	1,510	1936	Feb. 12, 1936	4.20	410

815. North Fork San Gabriel River at Camp Rincon, Calif.

Location.--Lat 34°14'50", long 117°51'50", in NE¼ sec.19, T.2 N., R.9 W., 0.7 mile upstream from mouth and 1 mile north of Camp Rincon.

Drainage area.--18.6 sq mi.

Gage.--Recording. Altitude of gage is 1,775 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 126 cfs.

Remarks.--Records furnished by Los Angeles County Flood Control District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	May 3, 1930	3.24	18	1934	Jan. 1, 1934	5.80	276
				1935	Apr. 8, 1935	5.35	111
1931	Apr. 26, 1931	4.15	16				
1932	Feb. 8, 1932	5.79	223	1936	Feb. 2, 1936	5.00	85
1933	Jan. 19, 1933	5.40	126				

820. West Fork San Gabriel River at Camp Rincon, Calif.

Location.--Lat 34°14'30", long 117°51'50", in SE¼ sec.19, T.2 N., R.9 W., on right bank 0.2 mile upstream from Camp Rincon, 0.5 mile downstream from North Fork, and 6 miles downstream from Cogswell Dam.

Drainage area.--104 sq mi.

Gage.--Recording. Prior to Nov. 19, 1930, at site 1½ miles downstream at different datum. Aug. 27, 1938, to July 3, 1941, at datum 6.41 ft higher. Datum of gage is 1,474.94 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 550 cfs prior to Nov. 19, 1930; below 5,400 cfs thereafter.

Remarks.--Records furnished by Los Angeles County Flood Control District. Peaks regulated by Cogswell flood-control reservoir (capacity, 10,630 acre-ft), beginning in April 1934. Only annual peaks are shown.

Peak stages and discharges of West Fork San Gabriel River at Camp Rincon, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Feb. 4, 1928	5.88	1,625	1947	Dec. 26, 1946	11.76	4,150
1929	Apr. 4, 1929	4.60	775	1948	Apr. 29, 1948	8.71	329
1930	Mar. 15, 1930	4.57	750	1949	Jan. 20, 1949	7.79	78
				1950	Dec. 18, 1949	8.77	280
1931	Apr. 26, 1931	5.92	1,530				
1932	Feb. 9, 1932	8.73	3,790	1951	Apr. 29, 1951	7.35	28
1933	Jan. 19, 1933	8.42	5,500	1952	Jan. 16, 1952	12.93	7,520
1934	Jan. 1, 1934	9.15	5,320	1953	Dec. 1, 1952	9.36	475
1935	Apr. 8, 1935	6.83	1,840	1954	Jan. 25, 1954	10.49	953
				1955	Apr. 30, 1955	8.71	165
1936	Feb. 12, 1936	5.50	752				
1937	Feb. 14, 1937	7.11	2,000	1956	Jan. 26, 1956	10.97	1,230
1938	Mar. 2, 1938	-	34,000	1957	Jan. 13, 1957	11.14	1,670
1939	Sept.25, 1939	-	2,530	1958	Apr. 3, 1958	12.43	3,570
1940	Jan. 8, 1940	10.10	1,220	1959	Jan. 6, 1959	12.04	2,380
				1960	Jan. 10, 1960	8.04	128
1941	Mar. 4, 1941	-	2,970				
1942	Dec. 29, 1941	7.32	288	1961	Nov. 5, 1960	9.15	447
1943	Jan. 23, 1943	15.30	20,000	1962	Feb. 11, 1962	14.75	7,830
1944	Feb. 22, 1944	12.65	5,760	1963	Feb. 9, 1963	10.81	2,010
1945	Nov. 11, 1944	11.79	3,950	1964	June 24, 1964	8.84	414
				1965	Apr. 9, 1965	9.32	534
1946	Mar. 30, 1946	11.39	2,620				

835. San Gabriel River near Azusa, Calif.

Location.--Lat 34°10'11", long 117°53'16", in SW¼NW¼SW¼ sec.13, T.1 N., R.10 W., on right bank 1.1 miles downstream from Morris Dam and 2.7 miles northeast of Azusa.

Drainage area.--214 sq mi.

Gage.--Nonrecording prior to August 1917; recording thereafter. Prior to Sept. 30, 1937, at several sites from 1½ to 2 miles downstream at different datum. Oct. 1, 1937, to Feb. 21, 1938, at site half a mile downstream at different datum. Feb. 22, 1938, to Feb. 7, 1939, at site a quarter of a mile upstream at different datum. Datum lowered 4.35 ft May 9, 1950. Datum of gage is 867.59 ft above mean sea level (from Los Angeles County Flood Control District bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs and extended above on basis of float measurements at 18,400 and 32,400 cfs prior to Sept. 30, 1937; below 97 cfs for period Sept. 30, 1937, to Feb. 21, 1938; below 11,800 cfs thereafter.

Remarks.--Peaks regulated by Cogswell and San Gabriel flood-control reservoirs (combined capacity, 54,500 acre-ft) beginning in April 1934 and July 1939, respectively, and by Morris Reservoir (capacity, 35,000 acre-ft) beginning in December 1933. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	Feb. 5, 1901	-	6,250	1926	Apr. 7, 1926	9.4	14,900
				1927	Feb. 16, 1927	10.2	18,200
1910	Jan. 1, 1910	10.3	13,900	1928	Feb. 4, 1928	5.08	1,810
				1929	Mar. 10, 1929	4.30	895
1911	Mar. 10, 1911	-	13,500	1930	Mar. 15, 1930	3.82	586
1914	Feb. 20, 1914	-	18,100	1931	Apr. 26, 1931	5.56	1,450
1915	Jan. 29, 1915	7.8	2,770	1932	Feb. 9, 1932	7.25	7,500
				1933	Jan. 19, 1933	6.90	5,820
1916	Jan. 18, 1916	12.0	40,000	1934	Jan. 1, 1934	6.92	6,120
				1935	Feb. 9, 1935	4.28	507
1918	Mar. 17, 1918	9.45	8,680				
1919	Feb. 11, 1919	4.98	230	1936	Apr. 10, 1936	4.19	455
1920	Mar. 2, 1920	7.93	5,000	1937	Feb. 20, 1937	5.84	1,950
				1938	Mar. 2, 1938	-	65,700
1921	Mar. 14, 1921	7.45	4,000				
1922	Dec. 19, 1921	15.0	22,300	1940	June 24, 1940	5.16	506
1923	Dec. 13, 1922	5.46	3,670				
1924	Mar. 26, 1924	3.70	510	1941	Mar. 4, 1941	7.27	4,460
1925	Apr. 4, 1925	5.10	3,000	1942	Apr. 20, 1942	4.94	422

Peak stages and discharges of San Gabriel River near Azusa, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Jan. 23, 1943	9.27	12,100	1955	Aug. 5, 1955	5.19	-
1944	Feb. 22, 1944	5.70	5,170		Sept.26, 1955	-	10
1945	Feb. 6, 1945	2.91	988				
				1956	Sept.30, 1956	5.48	45
1946	Dec. 23, 1945	3.04	980	1957	Apr. 14, 1957	7.33	656
1947	Dec. 31, 1946	4.87	2,980	1958	Apr. 5, 1958	9.22	2,780
1948	June 2, 1948	3.30	1,320	1959	Feb. 24, 1959	6.64	364
1949	Oct. 27, 1948	1.16	79	1960	-	-	0
1950	July 31, 1950	5.17	8.2				
				1961	May 6, 1961	5.07	9.1
1951	Apr. 27, 1951	6.20	168	1962	Feb. 12, 1962	8.50	1,650
1952	Jan. 18, 1952	-	-	1963	Sept. 4, 1963	4.79	45
1953	Oct. 28, 1952	-	-	1964	Aug. 26, 1964	4.87	50
1954	Apr. 16, 1954	12.32	9,420	1965	June 12, 1965	5.90	291

840. Rogers Creek near Azusa, Calif.

Location.--Lat 34°09'55", long 117°54'20", in NW¼NW¼ sec.23, T.1 N., R.10 W., on left bank 0.5 mile upstream from mouth and 2.2 miles north of Azusa.

Drainage area.--6.64 sq mi.

Gage.--Recording. Since June 26, 1959, supplementary water-stage recorder 300 ft downstream at different datum. Altitude of gage is 800 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended above on basis of velocity-area study at 700 cfs and field estimate at 2,400 cfs.

Remarks.--Brush fire denuded the basin in 1924 and 1958. Only annual peaks are shown prior to Oct. 1, 1951. Base for partial-duration series, 35 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Mar. 10, 1918	5.25	332	1950	Dec. 18, 1949	4.36	132
1919	Feb. 11, 1919	1.98	17				
1920	Mar. 2, 1920	4.15	206	1951	Apr. 28, 1951	2.97	10
1921	Mar. 14, 1921	4.40	244	1952	Dec. 30, 1951	4.52	119
1922	Feb. 9, 1922	6.70	576		Jan. 12, 1952	4.50	130
1923	Dec. 13, 1922	3.66	130		Jan. 16, 1952	7.68	867
1924	Mar. 26, 1924	3.15	28		Jan. 18, 1952	5.28	248
1925	Apr. 4, 1925	6.50	555		Mar. 7, 1952	4.11	82
					Mar. 10, 1952	3.89	65
1926	Apr. 7, 1926	10.4	1,800		Mar. 15, 1952	4.51	135
1927	Feb. 16, 1927	9.95	1,200				
1928	Feb. 4, 1928	4.33	64	1953	Dec. 1, 1952	4.40	115
1929	Mar. 10, 1929	4.30	62				
1930	Mar. 15, 1930	3.84	60	1954	Jan. 19, 1954	3.90	62
					Jan. 25, 1954	5.71	327
1931	Apr. 26, 1931	3.50	38		Feb. 13, 1954	4.25	98
1932	Dec. 28, 1931	5.15	296				
1933	Jan. 19, 1933	4.61	200	1955	Jan. 18, 1955	3.24	18
1934	Jan. 1, 1934	6.80	825				
1935	Apr. 8, 1935	5.96	576	1956	Jan. 26, 1956	6.40	485
1936	Feb. 2, 1936	5.80	520	1957	Jan. 13, 1957	4.11	90
1937	Dec. 31, 1936	4.85	190		Feb. 23, 1957	3.92	70
1938	Mar. 2, 1938	-	2,070				
1939	Dec. 19, 1938	6.08	153	1958	Dec. 17, 1957	4.12	85
1940	Jan. 8, 1940	6.25	196		Jan. 26, 1958	3.77	52
					Feb. 4, 1958	4.47	125
1941	Mar. 4, 1941	6.95	408		Feb. 19, 1958	4.13	91
1942	Dec. 29, 1941	4.23	32		Feb. 25, 1958	3.60	41
1943	Jan. 23, 1943	8.5	1,700		Mar. 16, 1958	5.04	220
1944	Feb. 22, 1944	6.48	494		Mar. 27, 1958	3.57	44
1945	Feb. 2, 1945	5.48	300		Apr. 3, 1958	6.32	472
					Apr. 7, 1958	4.16	101
1946	Dec. 23, 1945	6.04	400				
1947	Nov. 20, 1946	5.35	271	1959	Jan. 6, 1959	11.7	2,400
1948	Apr. 29, 1948	3.01	13		Feb. 11, 1959	12.55	2,000
1949	Jan. 20, 1949	3.22	22		Feb. 16, 1959	-	(a)

a Discharge unknown; exceeded base.

Peak stages and discharges of Rogers Creek near Azusa, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1960	Apr. 27, 1960	3.04	43	1962	Jan. 20, 1962	4.00	105
					Feb. 11, 1962	7.1	700
1961	Jan. 26, 1961	3.33	60		Feb. 15, 1962	-	(a)
					Feb. 20, 1962	-	(a)
1962	Dec. 2, 1961	3.65	112				

a Discharge unknown; exceeded base.

845. Fish Creek near Duarte, Calif.

Location.--Lat 34°10'00", long 117°55'25", in SW¼SW¼SW¼ sec.15, T.1 N., R.10 W., on left bank 0.8 mile upstream from mouth of canyon and 3 miles northeast of Duarte.

Drainage area.--6.36 sq mi.

Gage.--Recording, except nonrecording at different datum Mar. 3 to Dec. 7, 1938. Prior to Mar. 3, 1938, at different datum. Dec. 8, 1938, to Oct. 3, 1951, at datum 1 ft higher. Altitude of gage is 1,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs and extended above on basis of slope-area measurement at 2,100 cfs and broad-crested-weir study.

Bankfull stage.--7 ft.

Remarks.--Fires in 1924 and 1958 denuded the entire drainage basin. Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 60 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Mar. 10, 1918	4.50	330	1951	Apr. 28, 1951	0.87	16
1919	Feb. 11, 1919	2.59	21				
1920	Mar. 2, 1920	4.10	255	1952	Dec. 5, 1951	2.68	63
					Dec. 30, 1951	3.38	166
1921	Mar. 13, 1921	4.20	286		Jan. 12, 1952	3.61	224
1922	Feb. 9, 1922	4.90	505		Jan. 16, 1952	5.85	1,360
1923	Dec. 12, 1922	3.75	186		Jan. 17, 1952	3.90	330
1924	Mar. 26, 1924	2.95	58		Mar. 7, 1952	2.87	89
1925	Apr. 4, 1925	8.0	-		Mar. 10, 1952	2.83	83
					Mar. 15, 1952	3.52	201
1926	Apr. 7, 1926	7.75	-		Apr. 7, 1952	2.67	70
1927	Feb. 16, 1927	6.00	945				
1928	Feb. 4, 1928	3.56	97	1953	Dec. 1, 1952	3.68	252
1929	Mar. 10, 1929	3.72	71				
1930	Jan. 15, 1930	3.82	72	1954	Jan. 19, 1954	2.82	80
					Jan. 25, 1954	4.17	376
1931	Apr. 26, 1931	3.72	70		Feb. 13, 1954	3.13	124
1932	Dec. 28, 1931	4.61	415				
1933	Jan. 19, 1933	4.22	299	1955	Jan. 18, 1955	2.33	39
1934	Jan. 1, 1934	5.20	640				
1935	Apr. 8, 1935	4.95	420	1956	Jan. 26, 1956	4.67	544
1936	Feb. 2, 1936	6.44	676	1957	Jan. 13, 1957	3.03	108
1937	Dec. 30, 1936	5.05	252		Feb. 23, 1957	2.85	88
1938	Mar. 2, 1938	-	2,100				
1939	Dec. 19, 1938	2.53	172	1958	Dec. 17, 1957	3.22	140
1940	Jan. 8, 1940	2.80	225		Jan. 26, 1958	3.15	134
					Feb. 4, 1958	3.46	216
1941	Mar. 4, 1941	3.38	443		Feb. 19, 1958	3.30	153
1942	Dec. 10, 1941	1.41	44		Feb. 25, 1958	2.49	60
1943	Jan. 23, 1943	5.78	2,100		Mar. 16, 1958	3.70	239
1944	Feb. 22, 1944	3.80	680		Apr. 3, 1958	4.75	608
1945	Nov. 11, 1944	3.40	400				
				1959	Oct. 24, 1958	2.80	68
1946	Dec. 23, 1945	3.59	540		Jan. 6, 1959	6.57	2,000
1947	Dec. 26, 1946	3.22	400		Feb. 11, 1959	a14.5	-
					Feb. 16, 1959	a14.5	-
1948	Apr. 28, 1948	1.42	28				
				1960	Apr. 27, 1960	8.25	84
1949	Jan. 20, 1949	1.28	35				
				1961	Nov. 12, 1960	7.65	230
1950	Nov. 10, 1949	1.68	66		Jan. 26, 1961	8.42	210
	Dec. 18, 1949	2.33	157				

a Result of debris wave.

Peak stages and discharges of Fish Creek near Duarte, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1962	Dec. 2, 1961	8.10	420	1964	Jan. 21, 1964	3.50	178
	Jan. 20, 1962	7.35	200		Apr. 1, 1964	2.94	79
	Feb. 11, 1962	8.05	770				
				1965	Apr. 1, 1965	3.03	76
1963	Feb. 9, 1963	4.23	346		Apr. 9, 1965	3.56	163

860. Dalton Creek near Glendora, Calif.

Location.--Lat 34°09'30", long 117°49'40", in center of sec.21, T.1 N., R.9 W., on right bank 0.6 mile upstream from mouth of canyon, 1.7 miles downstream from Big Dalton Dam, and 2.6 miles northeast of Glendora.

Drainage area.--7.5 sq mi, approximately.

Gage.--Recording. Prior to Aug. 26, 1953, at datum 1.00 ft higher. Altitude of gage is 1,170 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 100 cfs and extended to 3,040 cfs on basis of slope-area measurement at 2,810 cfs.

Remarks.--Low peaks may be affected by diversion of Glendora Irrigation Co. at dam 1.5 miles above station starting prior to beginning of record. Peaks partly regulated by Big Dalton flood-control reservoir (capacity, 950 acre-ft) since August 1929. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 2, 1920	4.03	1,000	1941	Mar. 5, 1941	1.70	93
1921	Mar. 14, 1921	3.00	450	1943	Jan. 24, 1943	2.43	277
1922	Dec. 21, 1921	2.70	320	1944	Feb. 22, 1944	2.08	161
1923	Dec. 13, 1922	1.87	61	1945	Nov. 11, 1944	1.52	55
1924	Apr. 24, 1924	1.34	12	1946	Dec. 23, 1945	2.10	166
1925	Apr. 5, 1925	1.15	1.8	1947	Nov. 20, 1946	1.01	14
				1948	Feb. 5, 1948	1.17	23
1926	Apr. 5, 1926	2.60	270	1949	Sept.16, 1949	.86	11
1927	Feb. 16, 1927	3.30	660	1950	Jan. 23, 1950	1.12	23
1928	Feb. 4, 1928	1.26	13				
1929	Apr. 5, 1929	1.07	6.5	1951	Jan. 11, 1951	.65	2.6
1930	Mar. 15, 1930	1.17	3.1	1952	Jan. 16, 1952	1.88	132
				1953	Jan. 10, 1953	1.34	45
1931	Mar. 11, 1931	1.47	15	1954	Jan. 25, 1954	2.12	22
1932	Feb. 11, 1932	1.76	57	1955	Oct. 1, 1954	1.72	6.4
1933	Jan. 19, 1933	1.15	2.3				
1934	Jan. 1, 1934	2.13	130	1956	Jan. 26, 1956	3.05	152
1935	Apr. 8, 1935	1.42	14	1957	Nov. 9, 1956	1.95	12
				1958	Apr. 5, 1958	2.86	121
1936	Feb. 11, 1936	1.64	120	1959	Apr. 13, 1959	2.16	23
1937	Feb. 6, 1937	2.63	42	1960	July 24, 1960	1.55	1.6
1938	Mar. 2, 1938	4.90	850				
1939	Jan. 5, 1939	.83	7.3	1961	Nov. 12, 1960	2.72	79
1940	Jan. 8, 1940	.86	8.5	1962	Dec. 2, 1961	6.40	3,040

864. San Dimas Creek near San Dimas, Calif.

Location.--Lat 34°08'45", long 117°46'35", in SW¼NE¼ sec.25, T.1 N., R.9 W., on left bank at mouth of San Dimas Canyon, 0.7 mile downstream from San Dimas Dam and 3 miles northeast of San Dimas.

Drainage area.--18.3 sq mi.

Gage.--Recording. Prior to Oct. 27, 1927, at datum 3.18 ft higher; Oct. 27, 1927, to Dec. 30, 1938, at different datum; and Dec. 31, 1938, to Oct. 21, 1953, at datum 1.00 ft higher. Altitude of gage is 1,240 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,970 cfs and extended above on basis of critical-velocity computation, release records at San Dimas Dam, and computed inflow between dam and gage. Subject to changes during 1917-38, owing to several modifications to the artificial control.

Remarks.--Peaks regulated by San Dimas flood-control reservoir (capacity, 1,042 acre-ft) beginning in 1922. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Dec. 24, 1916	4.90	1,300	1938	Mar. 2, 1938	-	5,000
1918	Mar. 7, 1918	5.09	394	1939	Jan. 10, 1939	1.16	23
1919	Feb. 11, 1919	3.80	37	1940	Feb. 4, 1940	1.34	36
1920	Mar. 2, 1920	6.15	1,010				
				1941	Feb. 20, 1941	2.28	-
1921	Mar. 14, 1921	7.70	800		Mar. 3, 1941	-	163
1922	Feb. 9, 1922	5.95	1,140	1942	Dec. 12, 1941	1.20	24
1923	Dec. 12, 1922	6.54	49	1943	Jan. 23, 1943	4.38	1,970
1924	July 12, 1924	5.20	10	1944	Feb. 22, 1944	3.39	749
1925	Jan. 26, 1925	4.83	6.2	1945	Feb. 2, 1945	2.08	95
1926	Apr. 5, 1926	6.82	65	1946	Dec. 23, 1945	-	250
1927	Feb. 17, 1927	8.00	475	1947	Dec. 26, 1946	1.86	67
1928	Apr. 13, 1928	1.80	54	1948	July 27, 1948	.52	5.5
1929	Feb. 2, 1929	1.00	7	1949	Jan. 25, 1949	.56	6.5
1930	Mar. 5, 1930	1.64	28	1950	May 17, 1950	-	7.1
					June 6, 1950	.62	-
1931	Apr. 26, 1931	.65	3.7				
1932	Feb. 9, 1932	2.14	96	1951	Apr. 12, 1951	.35	5.0
1933	Jan. 23, 1933	1.51	16	1952	Mar. 16, 1952	2.66	292
1934	Jan. 1, 1934	2.37	210	1953	July 6, 1953	.68	7.3
1935	Mar. 28, 1935	2.50	300	1954	Jan. 25, 1954	3.37	161
				1955	Nov. 16, 1954	2.01	15
1936	Apr. 10, 1936	2.22	152				
1937	Feb. 7, 1937	2.22	127	1956	Jan. 26, 1956	3.05	90

865. Little Dalton Creek near Glendora, Calif.

Location.--Lat 34°10'03", long 117°50'15", in NE¼SE¼SE¼ sec.17, T.1 N., R.9 W., on left bank 0.2 mile upstream from Angeles National Forest boundary and 2.6 miles northeast of Glendora.

Drainage area.--2.7 sq mi.

Gage.--Recording. Datum of gage is 1,334.38 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 250 cfs and extended above on basis of slope-area measurement at 960 cfs.

Bankfull stage.--7 ft.

Historical data.--Flood of February 1914 reached a discharge of 1,020 cfs, result of slope-area measurement at site 0.8 mile downstream, below diversion.

Remarks.--Records furnished by Los Angeles County Flood Control District. Fire in 1959 denuded the entire drainage basin. Only annual peaks are shown.

Peak stages and discharges of Little Dalton Creek near Glendora, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	February 1914	-	1,020	1951	Jan. 11, 1951	0.58	5.4
				1952	Jan. 16, 1952	2.83	118
1938	Mar. 2, 1938	-	960	1953	Dec. 1, 1952	.72	13
1939	Jan. 5, 1939	2.62	36	1954	Jan. 25, 1954	.85	58
1940	Jan. 7, 1940	2.06	63	1955	Jan. 18, 1955	.41	4.3
1941	Mar. 4, 1941	2.42	73	1956	Jan. 26, 1956	1.86	180
1942	Dec. 29, 1941	.72	10	1957	Jan. 13, 1957	.60	12
1943	Jan. 23, 1943	3.10	182	1958	Apr. 3, 1958	2.03	180
1944	Feb. 22, 1944	2.85	198	1959	Feb. 16, 1959	1.11	64
1945	Nov. 11, 1944	2.32	96	1960	Feb. 8, 1960	.37	2.2
1946	Dec. 21, 1945	1.18	111	1961	Jan. 26, 1961	2.16	314
1947	Nov. 20, 1946	1.05	57	1962	Nov. 20, 1961	5.24	1,700
1948	Apr. 3, 1948	.40	4.0	1963	Feb. 9, 1963	2.82	122
1949	Mar. 4, 1949	.30	1.9	1964	Jan. 21, 1964	2.35	28
1950	Dec. 18, 1949	.69	8.1	1965	Apr. 9, 1965	2.65	62

870. San Jose Creek near Whittier, Calif.

Location.--Lat 34°01'25", long 118°02'05", in Paso de Bartolo Grant, on downstream side of Workman Mill Road Bridge, 3 miles north of Whittier, Los Angeles County.

Drainage area.--88.7 sq mi.

Gage.--Recording. Prior to Sept. 27, 1937, at datum 2.0 ft higher. Datum of gage is 214.85 ft above mean sea level (levels by Los Angeles County Flood Control District). Subsequent to Sept. 13, 1955, supplementary recording gage on San Jose flood channel 1½ miles upstream.

Stage-discharge relation.--Defined by current-meter measurements below 7,600 cfs and extended above on basis of float measurement at 13,100 cfs.

Bankfull stage.--16 ft.

Historical data.--Peak discharge for the winter of 1914 was 9,070 cfs, as determined by slope-conveyance study made at a site near the Old Workman Mill Ranch.

Remarks.--Records furnished by Los Angeles County Flood Control District. Beginning in 1956, San Jose flood channel 1½ miles upstream diverts all flows in excess of 200 cfs from San Jose Creek to San Gabriel River above Whittier Narrows Reservoir. Peak discharges represent combined flow of San Jose Creek and San Jose flood channel. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 10, 1929	2.66	77	1947	Dec. 26, 1946	3.41	833
1930	Jan. 15, 1930	2.99	264	1948	Dec. 6, 1947	2.16	160
				1949	Jan. 20, 1949	2.14	107
1931	Feb. 4, 1931	3.46	323	1950	Feb. 6, 1950	3.39	747
1932	Feb. 9, 1932	5.02	1,540				
1933	Jan. 29, 1933	3.99	825	1951	Jan. 29, 1951	1.96	97
1934	Jan. 1, 1934	12.12	13,100	1952	Jan. 18, 1952	7.60	4,400
1935	Oct. 17, 1934	5.74	2,450	1953	Dec. 2, 1952	3.87	961
				1954	Feb. 13, 1954	6.22	2,590
1936	Feb. 12, 1936	5.74	1,010	1955	Jan. 18, 1955	5.30	1,420
1937	Feb. 14, 1937	-	4,070				
1938	Mar. 2, 1938	10.3	9,350	1956	Jan. 26, 1956	-	5,380
1939	Sept. 25, 1939	5.34	1,950	1957	Mar. 1, 1957	-	1,200
1940	Feb. 1, 1940	5.18	1,570	1958	Apr. 3, 1958	-	4,130
				1959	Jan. 6, 1959	-	2,820
1941	Feb. 28, 1941	5.98	2,500	1960	Apr. 27, 1960	-	1,380
1942	Dec. 10, 1941	2.31	180				
1943	Jan. 23, 1943	9.40	8,040	1961	Jan. 26, 1961	-	479
1944	Feb. 22, 1944	8.70	6,000	1962	Feb. 11, 1962	-	4,000
1945	Nov. 11, 1944	3.91	1,480	1963	Mar. 16, 1963	-	1,960
				1964	Jan. 22, 1964	-	1,250
1946	Dec. 23, 1945	4.10	1,390				

875. San Gabriel River at Pico, Calif.

Location.--Lat 34°00'25", long 118°04'05", on Paso de Bartolo Grant, in downstream end of mid-span pier of Beverly Boulevard Bridge, 0.7 mile downstream from San Jose Creek and 0.8 mile northeast of Pico, Los Angeles County.

Drainage area.--448 sq mi.

Gage.--Recording. Prior to Feb. 4, 1937, at site 0.8 mile downstream; Feb. 4, 1937, to Nov. 14, 1947, at site 1,200 ft downstream, and Nov. 15, 1947, to Mar. 5, 1952, at site 1,000 ft downstream, all at different datums. Altitude of gage is 180 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs prior to Feb. 4, 1937; below 11,400 cfs for period Feb. 4, 1937, to Nov. 14, 1947; below 10,100 cfs for period Nov. 15, 1947, to Mar. 5, 1952; and below 7,600 cfs thereafter.

Bankfull stage.--16 ft.

Remarks.--Records furnished by Los Angeles County Flood Control District. Peaks regulated by Cogswell flood-control reservoir (capacity, 10,634 acre-ft) beginning in 1934, San Gabriel flood-control reservoir (capacity, 43,928 acre-ft) beginning in 1939, Morris Reservoir (capacity, 35,000 acre-ft) beginning in 1934, Santa Fe flood-control reservoir (capacity, 36,800 acre-ft) beginning in 1943, Whittier Narrows flood-control reservoir (capacity, 36,160 acre-ft) beginning in 1956, and several small flood-control reservoirs (combined capacity, 19,100 acre-ft). Peaks may be affected by diversions above station for irrigation, power development, and ground-water replenishment. Colorado River water is released to San Gabriel River at sites 4.7 and 6.7 miles upstream for gound-water replenishment in the San Gabriel River. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 10, 1929	1.77	397	1947	Dec. 30, 1946	6.25	3,240
1930	Jan. 11, 1930	2.25	1,020	1948	Feb. 6, 1948	5.93	84
				1949	Jan. 20, 1949	6.57	144
1931	Feb. 4, 1931	1.79	404	1950	Feb. 6, 1950	9.84	845
1932	Feb. 9, 1932	3.70	3,830				
1933	Jan. 29, 1933	2.36	1,450	1951	Jan. 30, 1951	5.03	27
1934	Jan. 1, 1934	-	22,000	1952	Jan. 16, 1952	10.86	14,000
1935	Oct. 17, 1934	5.68	5,400	1953	Dec. 2, 1952	8.26	1,450
				1954	Feb. 13, 1954	9.33	5,450
1936	Feb. 12, 1936	5.80	3,400	1955	Jan. 18, 1955	8.72	1,590
1937	Feb. 14, 1937	-	6,970				
1938	Mar. 2, 1938	-	22,700	1956	Jan. 26, 1956	10.90	12,400
1939	Sept.25, 1939	5.80	2,110	1957	Mar. 1, 1957	8.97	3,600
1940	Feb. 1, 1940	5.75	2,110	1958	Apr. 7, 1958	10.27	6,890
				1959	Jan. 6, 1959	9.37	3,870
1941	Mar. 13, 1941	7.0	6,070	1960	Jan. 12, 1960	9.15	2,390
1942	Dec. 10, 1941	5.27	412				
1943	Jan. 23, 1943	9.10	14,800	1961	Jan. 26, 1961	8.70	1,330
1944	Feb. 22, 1944	8.95	14,100	1962	Feb. 11, 1962	10.31	8,810
1945	Nov. 12, 1944	6.65	4,210	1963	Mar. 16, 1963	9.13	4,320
				1964	Jan. 22, 1964	8.69	3,380
1946	Dec. 23, 1945	6.80	4,660	1965	Apr. 9, 1965	9.57	5,590

890. Brea Creek at Fullerton, Calif.

Location.--Lat 33°52'25", long 117°55'30", in SE¼NE¼SE¼ sec.28, T.3 S., R.10 W., between Malden Avenue and Spadra Road at Fullerton.

Drainage area.--23.6 sq mi.

Gage.--Recording. Prior to Sept. 30, 1935, at site a quarter of a mile upstream and Oct. 1, 1935, to Jan. 19, 1940, at site a quarter of a mile downstream at different datums. Altitude of gage is 160 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs and extended to 1,600 cfs on basis of slope-conveyance studies prior to Sept. 30, 1935; below 1,300 cfs for period Oct. 1, 1935, to Jan. 19, 1940; below 430 cfs and extended to 3,700 cfs on basis of slope-conveyance studies thereafter.

Bankfull stage.--12 ft.

Remarks.--Records furnished by Orange County Flood Control District. Peaks regulated by Brea flood-control reservoir (capacity, 4,100 acre-ft) beginning in 1942. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Feb. 9, 1932	3.60	427	1949	Feb. 27, 1949	0.37	51
1933	Jan. 19, 1933	3.78	150	1950	Feb. 6, 1950	.46	70
1934	Jan. 1, 1934	4.30	502				
1935	Oct. 17, 1934	7.60	1,600	1951	Nov. 13, 1950	.41	62
				1952	Jan. 18, 1952	1.67	538
1936	Feb. 12, 1936	3.10	285	1953	Dec. 1, 1952	.50	76
1937	Feb. 6, 1937	6.95	1,280	1954	Feb. 13, 1954	.62	106
1938	Mar. 2, 1938	9.55	1,970	1955	Jan. 18, 1955	.44	66
1939	Sept.25, 1939	-	1,100				
1940	Feb. 1, 1940	-	373	1956	Jan. 26, 1956	1.32	364
				1957	Jan. 13, 1957	.31	33
1941	Mar. 14, 1941	5.45	3,700	1958	Apr. 7, 1958	1.30	355
1942	Dec. 10, 1941	.42	63	1959	Jan. 6, 1959	.49	74
1943	Mar. 3, 1943	1.45	425	1960	Jan. 12, 1960	.61	103
1944	Feb. 29, 1944	1.75	581				
1945	Feb. 5, 1945	-	279	1961	Nov. 26, 1960	.24	20
				1962	Feb. 11, 1962	1.07	258
1946	Dec. 23, 1945	.87	182	1963	Feb. 10, 1963	.90	192
1947	Dec. 31, 1946	.39	57	1964	Nov. 20, 1963	.75	144
1948	Dec. 5, 1947	.30	30	1965	Apr. 1, 1965	.75	144

905. Coyote Creek near Artesia, Calif.

Location.--Lat 33°50'20", long 118°03'34", in NE¼NW¼SW¼ sec.8, T.4 S., R.11 W., on downstream side of Centralia Road Bridge, 2 miles southeast of Artesia and 3.7 miles upstream from mouth.

Drainage area.--122 sq mi.

Gage.--Recording. Prior to Feb. 9, 1956, at several sites about half a mile upstream at different datums. Datum of gage is 20.2 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 3,900 cfs and extended above on basis of a float measurement at 6,920 cfs prior to Feb. 9, 1956; below 4,700 cfs thereafter.

Remarks.--Records furnished by Los Angeles County Flood Control District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Feb. 5, 1931	-	218	1936	Feb. 12, 1936	-	486
1932	Feb. 9, 1932	-	799	1937	Feb. 6, 1937	-	4,190
1933	Jan. 30, 1933	-	283	1938	Mar. 2, 1938	-	3,610
1934	Jan. 1, 1934	-	2,020	1939	Sept.25, 1939	-	1,660
1935	Dec. 13, 1934	-	3,190	1940	Feb. 3, 1940	6.94	827

Peak stages and discharges of Coyote Creek near Artesia, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Feb. 28, 1941	11.13	2,750	1953	Dec. 2, 1952	6.73	518
1942	Dec. 10, 1941	7.89	351	1954	Feb. 13, 1954	8.32	1,190
1943	Jan. 23, 1943	12.23	1,480	1955	Jan. 18, 1955	6.96	611
1944	Feb. 22, 1944	12.52	3,550				
1945	Nov. 12, 1944	7.20	488	1956	Jan. 26, 1956	8.49	3,770
				1957	Jan. 13, 1957	6.49	334
1946	Dec. 23, 1945	7.70	920	1958	Apr. 7, 1958	8.53	2,230
1947	Nov. 14, 1946	5.07	145	1959	Apr. 26, 1959	6.87	558
1948	Dec. 13, 1947	4.00	23	1960	Feb. 1, 1960	11.28	2,390
1949	Jan. 21, 1949	3.93	11				
1950	Feb. 6, 1950	6.15	240	1961	Jan. 26, 1961	8.78	1,380
				1962	Feb. 11, 1962	13.01	5,810
1951	Jan. 30, 1951	4.76	11	1963	Feb. 10, 1963	11.98	4,640
1952	Jan. 18, 1952	14.30	7,360				

LOS ANGELES RIVER BASIN

924.5. Los Angeles River at Sepulveda Dam, Calif. (Published as "below Sepulveda Dam" 1941-45)

Location.--Lat 34°09'42", long 118°27'57", in Ex Mission de San Fernando Grant, on right bank of outlet channel of Sepulveda Dam, 200 ft upstream from Sepulveda Boulevard in city of Los Angeles and 1.85 miles southwest of Van Nuys, Los Angeles County.

Drainage area.--158 sq mi.

Gage.--Recording. Prior to Aug. 23, 1941, at site 1 mile downstream at different datum; Aug. 23, 1941, to Sept. 30, 1950, at site 900 ft downstream at different datum; Oct. 1, 1950, to Aug. 29, 1953, at site 800 ft upstream at datum 5.99 ft higher. Altitude of gage is 670 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 570 cfs prior to Aug. 23, 1941; below 4,720 cfs for period Aug. 23, 1941, to Sept. 30, 1950; below 5,900 cfs and extended on basis of float-measurement at 7,820 cfs for period Sept. 30, 1950, to Aug. 29, 1953; below 7,300 cfs thereafter.

Bankfull stage.--16 ft.

Remarks.--Numerous discharge measurements furnished by Los Angeles County Flood Control District. Peaks regulated by Sepulveda flood-control reservoir (capacity, 17,400 acre-ft) beginning in 1941. Peaks may be affected by imported Owens River water being discharged into Los Angeles River from upstream distributing reservoirs. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 15, 1930	-	389	1948	Mar. 24, 1948	3.38	284
				1949	Dec. 17, 1948	2.50	149
1931	Feb. 4, 1931	-	1,800	1950	Feb. 6, 1950	-	413
1932	Feb. 8, 1932	-	2,000				
1933	Jan. 19, 1933	-	1,720	1951	Jan. 29, 1951	3.53	297
1934	Jan. 1, 1934	-	7,380	1952	Jan. 15, 1952	14.56	8,520
1935	Jan. 5, 1935	-	886	1953	Dec. 1, 1952	5.91	1,480
				1954	Feb. 13, 1954	4.89	4,000
1936	Feb. 12, 1936	-	286	1955	Jan. 18, 1955	3.39	2,220
1937	Feb. 14, 1937	-	2,630				
1938	Mar. 2, 1938	-	12,000	1956	Jan. 26, 1956	5.48	4,670
1939	Dec. 15, 1938	-	2,980	1957	Jan. 13, 1957	4.27	3,160
1940	Jan. 8, 1940	-	2,690	1958	Dec. 15, 1957	8.45	10,300
				1959	Jan. 6, 1959	8.39	10,200
1941	Feb. 20, 1941	-	6,610	1960	Jan. 11, 1960	5.58	5,320
1942	Dec. 28, 1941	-	1,040				
1943	Jan. 23, 1943	-	2,710	1961	Nov. 5, 1960	5.86	5,770
1944	Feb. 22, 1944	7.90	5,030	1962	Feb. 12, 1962	10.00	13,400
1945	Feb. 2, 1945	2.10	1,000	1963	Feb. 9, 1963	7.07	7,820
				1964	Jan. 22, 1964	5.79	5,650
1946	Dec. 21, 1945	-	2,500	1965	Apr. 9, 1965	6.10	5,540
1947	Dec. 26, 1946	4.11	881				

930. Pacoima Creek near San Fernando, Calif.

Location.--Lat 34°20'02", long 118°23'55", in SE¼NE¼ sec.24, T.3 N., R.15 W., on right bank 500 ft downstream from Pacoima Dam, a third of a mile upstream from mouth of canyon, and 4 miles northeast of San Fernando.

Drainage area.--28.5 sq mi.

Gage.--Recording. Prior to September 1929, at site 0.5 mile downstream at different datum. September 1929 to Mar. 23, 1933, records based on outflow from Pacoima Dam. Mar. 24, 1933, to Feb. 1, 1935, at site 450 ft downstream at different datum. Altitude of gage is 1,650 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 510 cfs prior to September 1929; below 54 cfs for period September 1929 to Mar. 23, 1933; below 75 cfs for period Mar. 23, 1933, to Feb. 1, 1935; below 370 cfs and extended on basis of outflow records for Pacoima Dam thereafter.

Bankfull stage.--10 ft.

Historical data.--In reports of the Board of Engineers for Flood Control to the Board of Supervisors, Los Angeles Co., Calif., the flood of February 1914 had a maximum discharge of 5,400 cfs (computed by slope-area method).

Remarks.--Records furnished by Los Angeles County Flood Control District beginning in 1929. Peaks regulated by Pacoima flood-control reservoir (capacity, 4,710 acre-ft) beginning in 1929. Spillway flow enters creek below station. Spill over Pacoima spillway occurred only in 1938 and 1944; peaks for those years include spill bypassing gage. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	February 1914	-	5,400	1942	July 15, 1942	2.00	97
				1943	Jan. 23, 1943	-	598
1917	Dec. 24, 1916	4.68	1,440	1944	Mar. 2, 1944	3.22	326
1918	Mar. 7, 1918	3.10	506	1945	Feb. 2, 1945	3.33	397
1919	Feb. 11, 1919	1.81	34				
1920	Mar. 22, 1920	5.79	1,330	1946	Feb. 5, 1946	2.4	241
				1947	Jan. 7, 1947	2.30	237
1921	May 21, 1921	3.73	440	1948	June 12, 1948	1.46	6.4
1922	Dec. 19, 1921	6.00	1,810	1949	June 24, 1949	1.77	10
1923	Dec. 13, 1922	3.70	370	1950	Apr. 4, 1950	2.87	314
1924	Mar. 26, 1924	2.07	29				
1925	Apr. 5, 1925	2.51	118	1951	June 12, 1951	2.17	17
				1952	Jan. 18, 1952	4.45	634
1927	Feb. 16, 1927	15.40	1,860	1953	Nov. 17, 1952	1.83	163
				1954	Apr. 5, 1954	2.74	292
1931	Feb. 14, 1931	-	4.0	1955	Apr. 21, 1955	.57	42
1932	Feb. 16, 1932	-	75				
1933	Apr. 13, 1933	-	81	1956	May 17, 1956	.87	66
1934	Jan. 26, 1934	2.15	54	1957	May 7, 1957	.75	63
1935	Aug. 21, 1935	4.22	174	1958	Feb. 5, 1958	3.48	420
1936	May 13, 1936	-	153	1960	Aug. 2, 1960	1.23	4.2
1937	Feb. 18, 1937	4.52	233				
1938	Mar. 3, 1938	-	2,440	1962	Apr. 7, 1962	3.90	511
1939	Jan. 20, 1939	.78	51	1963	Sept.25, 1963	.40	23
1940	Feb. 4, 1940	1.79	169	1964	June 15, 1964	1.37	117
				1965	May 7, 1965	1.35	5.3
1941	Mar. 6, 1941	3.86	431				

940. Tujunga Creek below Mill Creek, near Colby Ranch, Calif.

Location.--Lat 34°18'33", long 118°08'40", on left bank 500 ft downstream from Mill Creek and 2 miles west of Colby Ranch, Los Angeles County.

Drainage area.--64.9 sq mi.

Gage.--Recording. Altitude of gage is 2,650 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,700 cfs.

Remarks.--Records furnished by Los Angeles County Control District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 29, 1948	6.32	111	1957	Jan. 13, 1957	7.43	313
1949	Mar. 4, 1949	5.12	13	1958	Apr. 3, 1958	9.52	1,770
1950	Feb. 6, 1950	5.45	36	1959	Feb. 16, 1959	7.63	421
				1960	Jan. 10, 1960	5.17	13
1951	Jan. 29, 1951	5.00	6.7				
1952	Jan. 18, 1952	9.05	1,380	1961	Nov. 6, 1960	6.03	82
1953	Dec. 2, 1952	5.74	65	1962	Feb. 11, 1962	10.90	2,860
1954	Jan. 25, 1954	7.14	260	1963	Feb. 9, 1963	6.87	292
1955	May 1, 1955	5.53	41	1964	Apr. 1, 1964	6.43	93
				1965	Apr. 19, 1965	6.94	99
1956	Jan. 26, 1956	7.50	324				

945. Tujunga Creek near Colby Ranch, Calif.

Location.--Lat 34°18'22", long 118°09'24", just downstream from Lucas Creek, 400 ft upstream from crossing of Edison Road, 3.5 miles west of Colby Ranch, Los Angeles County, and 4 miles upstream from Big Tujunga Dam.

Drainage area.--67.5 sq mi.

Gage.--Recording. Prior to Aug. 17, 1932, at site 300 ft downstream at different datum. Altitude of gage is 2,410 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 116 cfs prior to Aug. 17, 1932; below 3,100 cfs thereafter.

Historical data.--Flood of Jan. 23, 1943, was exceeded by flood of Mar. 2, 1938.

Remarks.--Records furnished by Los Angeles County Flood Control District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Feb. 5, 1931	6.56	216	1941	Feb. 20, 1941	-	1,380
1932	Feb. 8, 1932	7.30	2,550	1942	Dec. 10, 1941	6.88	112
1933	Jan. 19, 1933	8.67	324	1943	Jan. 23, 1943	15.40	14,800
1934	Jan. 1, 1934	11.90	1,520	1944	Feb. 22, 1944	11.40	3,300
1935	Apr. 8, 1935	9.73	640	1945	Nov. 11, 1944	10.33	1,870
1936	Feb. 12, 1936	-	159	1946	Mar. 30, 1946	11.01	2,700
1937	Feb. 6, 1937	10.65	1,030	1947	Dec. 26, 1946	10.45	1,500
1938	Mar. 2, 1938	-	-	1948	Apr. 29, 1948	7.23	140
1939	Dec. 19, 1938	9.25	543	1949	Jan. 20, 1949	6.43	16
1940	Jan. 8, 1940	-	1,890	1950	Feb. 6, 1950	6.82	40

950. Fox Creek near Colby Ranch, Calif.

Location.--Lat 34°18'30", long 118°10'40", 0.5 mile upstream from mouth and 4 miles west of Colby Ranch, Los Angeles County.

Drainage area.--9.22 sq mi.

Gage.--Recording. Altitude of gage is 2,500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 170 cfs.

Remarks.--Records furnished by Los Angeles County Flood Control District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Feb. 4, 1931	1.12	7	1935	Oct. 18, 1934	3.03	314
1932	Feb. 8, 1932	2.58	400				
1933	Jan. 19, 1933	1.77	115	1936	Feb. 2, 1936	-	410
1934	Jan. 1, 1934	2.58	215	1937	Dec. 27, 1936	-	270

955. Tujunga Creek near Sunland, Calif.

Location.--Lat 34°18'02", long 118°16'02", near center of SW¼ sec.32, T.3 N., R.13 W., on left bank 1,000 ft upstream from Gold Canyon, 2 miles upstream from mouth of canyon, and 4 miles northeast of Sunland.

Drainage area.--106 sq mi.

Gage.--Recording. Prior to Oct. 1, 1932, at site 1,000 ft upstream at different datum. Datum of gage is 1,571.80 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs prior to Oct. 1, 1932; below 6,900 cfs and extended on basis of comparison with record at flood-control dam thereafter.

Bankfull stage.--12 ft.

Remarks.--Records furnished by Los Angeles County Flood Control District since 1932. Peaks regulated by Big Tujunga flood control reservoir (capacity, 4,240 acre-ft) beginning in 1931. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Dec. 24, 1916	3.35	1,960	1942	Dec. 28, 1941	8.53	165
1918	Mar. 11, 1918	3.25	1,760	1943	Jan. 23, 1943	16.85	23,000
1919	Feb. 11, 1919	1.92	136	1944	Feb. 22, 1944	11.76	4,760
1920	Mar. 22, 1920	-	1,400	1945	Feb. 2, 1945	9.01	897
1921	Mar. 13, 1921	2.27	411	1946	Mar. 30, 1946	9.45	1,300
1922	Dec. 19, 1921	6.20	8,600	1947	Dec. 25, 1946	8.76	745
1923	Dec. 13, 1922	2.90	900	1948	Feb. 5, 1948	7.05	53
1924	Mar. 26, 1924	1.24	87	1949	Jan. 20, 1949	6.37	20
1925	Apr. 5, 1925	2.23	325	1950	Nov. 10, 1949	6.83	73
1926	Apr. 7, 1926	-	4,000	1951	Nov. 13, 1950	6.14	10
1927	Feb. 16, 1927	4.55	3,830	1952	Jan. 18, 1952	11.25	2,960
1928	Feb. 4, 1928	-	850	1953	Dec. 2, 1952	9.07	-
1929	Apr. 4, 1929	1.90	216		Nov. 15, 1952	-	108
1930	May 3, 1930	2.07	260	1954	Jan. 25, 1954	9.69	387
				1955	Jan. 18, 1955	9.03	73
1931	Feb. 4, 1931	2.16	228				
1932	Feb. 8, 1932	3.36	1,330	1956	Jan. 27, 1956	10.46	301
1933	Jan. 19, 1933	9.09	1,390	1957	Jan. 13, 1957	9.92	60
1934	Jan. 1, 1934	9.19	1,450	1958	Apr. 3, 1958	12.15	1,670
1935	Apr. 8, 1935	7.96	671	1959	Feb. 11, 1959	10.44	245
				1960	Jan. 12, 1960	9.82	22
1936	Feb. 2, 1936	-	494				
1937	Dec. 27, 1936	-	495	1961	Nov. 5, 1960	10.33	86
1938	Mar. 2, 1938	-	50,000	1962	Feb. 11, 1962	14.27	4,770
1939	Dec. 20, 1938	9.47	380	1963	Feb. 9, 1963	12.42	412
				1964	Jan. 22, 1964	11.66	166
1941	Feb. 21, 1941	12.21	1,650	1965	Apr. 9, 1965	12.31	220

960. Haines Creek near Tujunga, Calif.

Location.--Lat 34°15'50", long 118°16'15", in NE¼NW¼ sec.17, T.2 N., R.13 W., on right bank 0.5 mile upstream from mouth of canyon and 1.5 miles northeast of Tujunga.

Drainage area.--1.2 sq mi, approximately.

Gage.--Recording prior to Sept. 30, 1961; crest-stage gage thereafter. Altitude of gage is 2,430 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3.2 cfs and extended to 265 cfs on basis of velocity-area studies.

Bankfull stage.--Not subject to overflow.

Historical data.--According to T. H. Olmstead in reports of the Board of Engineers for Flood Control to the Board of Supervisors, Los Angeles County, Calif., the flood of February 1914 had a maximum discharge of 4,620 cfs (computed by slope-area method).

Remarks.--City of Los Angeles diverts most of flow through two infiltration galleries upstream from station. Diversion probably has a large effect on all of the low peaks. Fire in 1919 denuded the entire basin. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	February 1914	-	4,620	1941	Dec. 17, 1940	3.10	54
				1942	Dec. 28, 1941	2.04	9
1917	Feb. 22, 1917	0.6	.5	1943	Jan. 23, 1943	3.93	142
1918	Mar. 10, 1918	1.37	6.8	1944	Feb. 22, 1944	3.35	74
1919	Feb. 11, 1919	.73	.8	1945	Feb. 2, 1945	2.39	18
1920	Mar. 22, 1920	1.16	4.0				
				1946	Mar. 30, 1946	2.20	12
1921	May 21, 1921	1.15	3.8	1947	Dec. 25, 1946	1.88	6.2
1922	Jan. 2, 1922	1.74	15	1948	Feb. 5, 1948	1.32	.3
1923	Dec. 12, 1922	.70	.8				
1924	Mar. 2, 1924	.47	.2	1950	Jan. 8, 1950	1.15	.1
1925	Apr. 4, 1925	.80	1.1				
				1951	Apr. 25, 1951	1.11	.1
1926	Apr. 5, 1926	1.59	11	1952	Jan. 15, 1952	3.51	89
1927	Feb. 16, 1927	1.13	4.3	1953	Dec. 1, 1952	2.13	11
1928	Feb. 4, 1928	.37	.1	1954	Mar. 16, 1954	1.77	4.4
1929	Apr. 4, 1929	.43	.1	1955	Apr. 30, 1955	1.80	5.6
1932	Feb. 9, 1932	.96	3.8	1956	Jan. 26, 1956	1.63	3.6
1933	Jan. 19, 1933	1.60	12	1957	Feb. 23, 1957	1.17	.3
1934	Jan. 1, 1934	all.0	-	1958	Apr. 3, 1958	2.56	20
				1959	Jan. 6, 1959	2.58	22
1937	Dec. 27, 1936	-	40	1960	Jan. 11, 1960	1.23	.6
1938	Mar. 2, 1938	4.6	265				
1939	Mar. 9, 1939	2.16	12	1961	Nov. 5, 1960	1.70	4.3
1940	Jan. 8, 1940	4.30	-				

a Caused by mud flow.

965. Little Tujunga Creek near San Fernando, Calif.

Location.--Lat 34°16'30", long 118°22'20", in Tujunga Grant, on downstream side of Foothill Boulevard Bridge, 4 miles east of San Fernando, Los Angeles County.

Drainage area.--21.1 sq mi.

Gage.--Recording. Datum of gage is 1,067.89 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 1,850 cfs and extended to 3,810 cfs on basis of float measurements.

Bankfull stage.--5 ft.

Historical data.--Peak discharge for the flood of January or February 1914 was 4,100 cfs, as determined by slope-conveyance study.

Remarks.--Records furnished by Los Angeles County Flood Control District. Only annual peaks are shown.

Peak stages and discharges of Little Tujunga Creek near San Fernando, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	-	-	0	1947	Nov. 20, 1946	4.05	200
1930	-	-	0	1948	Mar. 24, 1948	3.33	16
				1949	May 19, 1949	3.13	.9
1931	Feb. 4, 1931	3.20	30	1950	Dec. 18, 1949	3.22	9.8
1932	Feb. 9, 1932	5.21	660				
1933	Jan. 19, 1933	5.10	450	1951	Jan. 11, 1951	3.40	13
1934	Jan. 1, 1934	6.06	1,360	1952	Jan. 16, 1952	5.60	2,110
1935	Dec. 13, 1934	3.32	89	1953	Dec. 1, 1952	3.70	138
				1954	Feb. 13, 1954	3.88	198
1936	Feb. 2, 1936	-	653	1955	Jan. 18, 1955	3.51	35
1937	Feb. 14, 1937	4.75	964				
1938	Mar. 2, 1938	-	8,500	1956	Jan. 26, 1956	4.17	445
1939	Mar. 9, 1939	3.46	175	1957	Feb. 28, 1957	3.82	112
1940	Jan. 8, 1940	5.90	2,090	1958	Apr. 3, 1958	4.72	559
				1959	Jan. 6, 1959	3.86	84
1941	Mar. 4, 1941	5.06	1,310	1960	Feb. 1, 1960	3.20	6.7
1942	Dec. 28, 1941	3.98	198				
1943	Jan. 23, 1943	5.45	3,700	1961	Nov. 5, 1960	4.23	266
1944	Feb. 22, 1944	5.60	4,220	1962	Feb. 11, 1962	5.40	1,630
1945	Nov. 11, 1944	4.62	244	1963	Feb. 10, 1963	3.59	52
				1964	Jan. 22, 1964	4.20	256
1946	Mar. 30, 1946	4.00	156	1965	Apr. 9, 1965	2.79	223

975. Los Angeles River at Los Angeles, Calif.

Location.--Lat 34°04'55", long 118°13'35", on right bank near Figueroa Street, Los Angeles, 800 ft upstream from Arroyo Seco.

Drainage area.--514 sq mi.

Gage.--Recording. Prior to May 26, 1938, at site 150 ft downstream at different datum. May 26, 1938, to Dec. 8, 1939, at site 350 ft downstream at different datum. Datum of gage is 292.58 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 22,000 cfs and extended on basis of slope-conveyance studies prior to May 26, 1938. Peak of Mar. 2, 1938, determined by slope-area measurement. Defined by current-meter measurements below 3,710 cfs for period May 26, 1938, to Dec. 8, 1939; below 20,200 cfs thereafter.

Bankfull stage.--30 ft.

Remarks.--Records furnished by Los Angeles County Flood Control District. Peaks regulated by Pacoima flood-control reservoir (capacity, 4,710 acre-ft) beginning February 1929, Big Tujunga flood-control reservoir (capacity, 4,240 acre-ft) beginning July 1931, Hansen flood-control reservoir (capacity, 32,000 acre-ft) beginning September 1940, Sepulveda flood-control reservoir (capacity, 17,400 acre-ft) beginning Decmeber 1941, and several debris basins. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 15, 1930	3.54	500	1948	Mar. 24, 1948	3.15	4,900
				1949	Dec. 17, 1948	2.10	1,530
1931	Feb. 4, 1931	7.35	4,540	1950	Feb. 6, 1950	2.33	2,840
1932	Feb. 8, 1932	6.75	3,020				
1933	Jan. 19, 1933	7.71	5,780	1951	Jan. 11, 1951	2.82	3,600
1934	Jan. 1, 1934	16.4	22,000	1952	Jan. 16, 1952	7.76	25,300
1935	Apr. 8, 1935	-	2,400	1953	Dec. 20, 1952	4.04	7,270
				1954	Feb. 13, 1954	4.62	9,580
1936	Mar. 30, 1936	6.85	2,420	1955	Jan. 18, 1955	3.93	6,850
1937	Feb. 14, 1937	-	2,410				
1938	Mar. 2, 1938	-	67,000	1956	Jan. 26, 1956	5.90	15,300
1939	Jan. 5, 1939	11.15	3,710	1957	Feb. 23, 1957	7.24	22,200
1940	Jan. 8, 1940	4.40	8,900	1958	Feb. 19, 1958	7.14	19,700
				1959	Jan. 6, 1959	6.53	17,200
1941	Feb. 20, 1941	7.04	11,900	1960	Jan. 12, 1960	4.44	8,960
1942	Dec. 10, 1941	4.26	5,260				
1943	Jan. 23, 1943	8.38	23,900	1961	Nov. 5, 1960	4.15	7,890
1944	Feb. 22, 1944	5.90	14,600	1962	Feb. 12, 1962	10.20	32,500
1945	Feb. 2, 1945	3.33	4,900	1963	Feb. 9, 1963	7.06	18,070
				1964	Jan. 22, 1964	5.43	12,250
1946	Dec. 22, 1945	3.33	5,240	1965	Apr. 9, 1965	5.55	12,500
1947	Dec. 25, 1946	3.25	5,320				

980. Arroyo Seco near Pasadena, Calif.

Location.--Lat 34°13'20", long 118°10'36", near north line of sec.31, T.2 N., R.12 W., on right bank 1.5 miles upstream from Millard Canyon and 5.5 miles northwest of Pasadena.

Drainage area.--16.0 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1916; recording thereafter. Prior to Oct. 1, 1916, at different datum. Oct. 1, 1916, to Oct. 19, 1945, at datum 4.00 ft lower. Datum of gage is 1,397.88 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,170 cfs and extended above on basis of slope-area measurement at 8,620 cfs.

Bankfull stage.--8.8 ft.

Remarks.--Peaks for the years 1914-16 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1946. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Feb. 20, 1914	12.5	5,800	1951	Apr. 29, 1951	1.70	12
1915	Feb. 3, 1915	5.6	634	1952	Dec. 30, 1951	3.25	241
1916	Jan. 17, 1916	9.3	3,150		Jan. 12, 1952	4.03	474
1917	Dec. 24, 1916	4.79	760		Jan. 16, 1952	4.75	1,090
1918	Mar. 10, 1918	4.10	570		Jan. 18, 1952	4.10	589
1919	Feb. 11, 1919	2.72	92		Mar. 15, 1952	3.89	510
1920	Mar. 2, 1920	3.74	450	1953	Dec. 2, 1952	1.80	49
1921	Mar. 13, 1921	4.30	650				
1922	Dec. 19, 1921	7.75	2,800	1954	Jan. 24, 1954	4.00	571
1923	Dec. 13, 1922	3.5	370		Feb. 13, 1954	3.09	241
1924	Mar. 26, 1924	2.35	81				
1925	Apr. 4, 1925	2.95	210	1955	Apr. 30, 1955	2.39	107
1926	Apr. 7, 1926	5.95	1,450	1956	Jan. 26, 1956	4.30	815
1927	Feb. 16, 1927	5.9	1,400				
1928	Feb. 4, 1928	3.45	298	1957	Feb. 23, 1957	2.84	158
1929	Apr. 4, 1929	2.78	155				
1930	May 3, 1930	2.65	143	1958	Dec. 15, 1957	3.00	197
					Jan. 26, 1958	3.13	223
1931	Feb. 3, 1931	2.70	151		Feb. 3, 1958	4.17	680
1932	Dec. 28, 1931	3.95	480		Feb. 19, 1958	3.21	233
1933	Jan. 19, 1933	4.85	-		Mar. 16, 1958	3.63	385
1934	Jan. 1, 1934	6.38	950		Mar. 22, 1958	2.93	183
1935	Oct. 17, 1934	8.60	2,000		Apr. 3, 1958	4.23	715
1936	Feb. 12, 1936	5.20	706	1959	Jan. 6, 1959	3.34	281
1937	Feb. 6, 1937	4.50	640		Feb. 11, 1959	3.35	284
1938	Mar. 2, 1938	-	8,620		Feb. 16, 1959	3.54	351
1939	Dec. 18, 1938	7.70	375				
1940	Jan. 8, 1940	7.92	452	1960	Jan. 12, 1960	2.88	170
1941	Feb. 20, 1941	8.57	1,340	1961	Nov. 6, 1960	4.30	768
1942	Dec. 10, 1941	6.57	146		Jan. 26, 1961	2.75	162
1943	Jan. 23, 1943	11.86	5,660				
1944	Feb. 22, 1944	9.00	1,800	1962	Dec. 2, 1961	3.98	558
1945	Nov. 11, 1944	8.38	1,210		Jan. 20, 1962	3.40	290
					Feb. 9, 1962	2.85	200
1946	Mar. 30, 1946	4.17	680		Feb. 11, 1962	5.06	1,500
					Feb. 15, 1962	2.93	180
1947	Nov. 13, 1946	3.75	420				
	Nov. 20, 1946	4.07	580	1963	Feb. 9, 1963	3.75	464
	Dec. 25, 1946	4.05	600				
				1964	Jan. 21, 1964	2.94	182
1948	Apr. 29, 1948	1.84	45				
				1965	Apr. 9, 1965	3.00	194
1949	Jan. 20, 1949	1.60	35				
1950	Nov. 10, 1949	2.76	150				

985. Los Angeles River near Downey, Calif.

Location.--Lat 33°56'57", long 118°10'24", in San Antonio Grant, on right bank 400 ft downstream from Firestone Boulevard Bridge, 1 mile upstream from Rio Hondo, and 2.5 miles west of Downey, Los Angeles County.

Drainage area.--599 sq mi.

Gage.--Recording. Prior to Apr. 11, 1938, at site 1,600 ft downstream at different datum. Apr. 11, 1938, to Nov. 3, 1949, at datum 0.96 ft lower and Nov. 4, 1949, to Dec. 11, 1956, at datum 2.25 ft higher, both at site 400 ft upstream. Datum of gage is 96.12 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs and extended above on basis of slope-area measurement at 79,700 cfs prior to Apr. 11, 1938. Defined below 22,000 cfs for period Apr. 11, 1938, to Dec. 11, 1956; below 19,800 cfs thereafter.

Bankfull stage.--23 ft.

Remarks.--Records furnished by Los Angeles County Flood Control District. Peaks regulated by Devils Gate, Upper San Fernando, and Pacoima reservoirs (combined capacity, 16,300 acre-ft) beginning prior to 1929; by Tujunga Reservoir (capacity, 4,240 acre-ft) beginning in 1931; by Hansen flood-control reservoir (capacity, 32,000 acre-ft) beginning in 1940; by Lower San Fernando reservoir (capacity, 20,500 acre-ft) beginning in 1941; and by Sepulveda flood-control reservoir (capacity, 17,400 acre-ft) beginning in December 1941. City of Los Angeles at times discharges imported Owens River water into Los Angeles River. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Nov. 14, 1928	4.76	2,010	1947	Dec. 25, 1946	7.30	14,900
1930	Mar. 15, 1930	4.41	2,210	1948	Mar. 24, 1948	6.95	8,980
				1949	Dec. 17, 1948	6.43	5,300
1931	Feb. 4, 1931	6.49	4,360	1950	Feb. 6, 1950	2.67	8,480
1932	Feb. 8, 1932	8.17	4,780				
1933	Jan. 19, 1933	9.66	7,070	1951	Jan. 11, 1951	2.25	5,480
1934	Jan. 1, 1934	11.2	29,400	1952	Jan. 16, 1952	7.98	32,900
1935	Jan. 5, 1935	6.71	10,400	1953	Nov. 15, 1952	4.95	14,100
				1954	Feb. 13, 1954	5.75	19,500
1936	Feb. 12, 1936	-	5,730	1955	Jan. 18, 1955	4.60	13,700
1937	Dec. 30, 1936	-	10,100				
1938	Mar. 2, 1938	-	79,700	1956	Jan. 26, 1956	8.35	28,900
1939	Sept.25, 1939	-	10,800	1957	Feb. 23, 1957	5.90	24,600
1940	Jan. 8, 1940	6.80	7,610	1958	Feb. 19, 1958	6.89	34,100
				1959	Jan. 6, 1959	6.12	24,200
1941	Feb. 20, 1941	8.15	14,800	1960	Jan. 12, 1960	4.51	10,700
1942	Dec. 10, 1941	6.42	8,210				
1943	Jan. 23, 1943	10.60	27,500	1961	Nov. 5, 1960	3.93	7,810
1944	Feb. 22, 1944	8.25	24,800	1962	Feb. 12, 1962	7.08	28,400
1945	Feb. 2, 1945	5.75	6,970	1963	Feb. 9, 1963	5.93	19,340
				1964	Jan. 21, 1964	4.62	11,400
1946	Dec. 22, 1945	6.57	12,500	1965	Apr. 9, 1965	5.80	18,700

995. Sawpit Creek near Monrovia, Calif.

Location.--Lat 34°10'23", long 117°59'18", in SW¼SE¼NW¼ sec.13, T.1 N., R.11 W., 0.1 mile downstream from Monrovia Creek, 0.3 mile downstream from Sawpit Dam, and 1.7 miles north of Monrovia.

Drainage area.--5.3 sq mi.

Gage.--Recording. Prior to Nov. 20, 1925, and Apr. 12 to Oct. 29, 1938, at site 0.1 mile upstream at different datum. Nov. 20, 1925, to Mar. 2, 1938, at site 0.1 mile downstream at different datum (datum raised 0.69 ft Dec. 15, 1927). Oct. 30, 1938, to Oct. 3, 1951, at present site at datum 1.00 ft higher. Altitude of gage is 1,100 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurement below 100 cfs prior to Nov. 20, 1925; below 150 cfs Nov. 20, 1925, to Mar. 2, 1938; below 120 cfs and extended on basis of computation of flow over dam at 441 cfs thereafter.

Remarks.--Peaks regulated by Sawpit flood-control reservoir (capacity, 320 acre-ft) beginning in June 1927. Low peaks may be affected by city of Monrovia diversion about 1 mile upstream from Monrovia Creek. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Dec. 24, 1916	2.64	228	1938	Mar. 2, 1938	-	1,800
1918	Mar. 10, 1918	2.65	256				
1919	-	-	0	1943	Jan. 23, 1943	3.90	441
1920	Mar. 2, 1920	2.01	58	1944	Feb. 22, 1944	2.22	124
				1945	Nov. 11, 1944	1.75	75
1921	Mar. 14, 1921	2.45	130				
1922	Dec. 21, 1921	-	184	1946	Dec. 23, 1945	2.23	125
	Feb. 9, 1922	4.35	-	1947	Dec. 26, 1946	1.39	46
1923	Dec. 13, 1922	2.73	47	1948	Mar. 14, 1948	.16	.8
1924	Mar. 26, 1924	1.75	4.6	1949	Feb. 9, 1949	.76	16
1925	Apr. 4, 1925	-	950	1950	Nov. 10, 1949	.77	13
1926	Apr. 7, 1926	-	-	1951	Jan. 15, 1951	1.30	47
1927	Feb. 16, 1927	7.4	900	1952	Jan. 16, 1952	3.48	154
1928	Feb. 4, 1928	.7	4	1953	Dec. 1, 1952	2.62	61
1929	Mar. 10, 1929	1.27	8.0	1954	Jan. 24, 1954	-	-
1930	Mar. 17, 1930	1.86	-	1955	Jan. 18, 1955	5.48	32
1931	Apr. 26, 1931	1.14	12	1956	Jan. 26, 1956	4.25	113
1932	Feb. 9, 1932	2.02	52	1957	Jan. 13, 1957	2.65	14
1933	Jan. 19, 1933	1.67	34	1958	Apr. 1, 1958	3.75	165
1934	Jan. 1, 1934	5.00	350	1959	Jan. 6, 1959	3.95	181
1935	Apr. 8, 1935	3.15	145	1960	Apr. 27, 1960	4.15	109
1936	Feb. 12, 1936	3.60	202	1961	Nov. 12, 1960	3.52	19
1937	Feb. 6, 1937	3.54	100				

1000. Santa Anita Creek near Sierra Madre, Calif.

Location.--Lat 34°11'30", long 118°00'59", in SW¼NE¼NE¼ sec.10, T.1 N., R.11 W., on right bank at head of Hermits Falls, 0.9 mile upstream from Big Santa Anita Dam and 3 miles northeast of Sierra Madre.

Drainage area.--9.71 sq mi.

Gage.--Recording. Prior to Mar. 2, 1938, at datum 0.4 ft lower. Mar. 18 to Sept. 27, 1938, at datum 0.7 ft higher. Datum of gage is 1,475.3 ft above mean sea level (levels by U.S. Forest Service).

Stage-discharge relation.--Defined by current-meter measurements below 450 cfs and extended above on basis of a velocity-area study at 2,530 cfs. Peak discharge on Mar. 2, 1938 (5,200 cfs) based on inflow to Big Santa Anita flood-control reservoir.

Remarks.--Fire in 1953 denuded the entire basin. Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 40 cfs.

Peak stages and discharges of Santa Anita Creek near Sierra Madre, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Dec. 24, 1916	4.50	335	1952	Jan. 18, 1952	4.40	373
1918	Mar. 11, 1918	4.75	372		Mar. 7, 1952	2.03	76
1919	Feb. 11, 1919	1.93	34		Mar. 10, 1952	1.92	62
1920	Mar. 2, 1920	4.30	292		Mar. 15, 1952	3.68	250
1921	Mar. 13, 1921	5.65	496	1953	Dec. 1, 1952	2.94	169
1922	Feb. 9, 1922	7.30	781				
1923	Dec. 13, 1922	4.00	250	1954	Jan. 19, 1954	-	(a)
1924	Mar. 26, 1924	2.05	40		Jan. 24, 1954	-	(a)
1925	Apr. 4, 1925	2.50	70		Feb. 13, 1954	-	(a)
					Mar. 16, 1954	-	(a)
1926	Apr. 7, 1926	10.7	1,880		Mar. 20, 1954	2.65	58
1927	Feb. 16, 1927	6.5	645		Mar. 30, 1954	-	(a)
1928	Feb. 4, 1928	2.08	42				
1929	Mar. 10, 1929	2.40	61	1955	Nov. 11, 1954	3.20	76
1930	Jan. 15, 1930	2.04	39		Jan. 18, 1955	2.36	50
					Apr. 30, 1955	2.41	52
1931	Apr. 26, 1931	2.80	98				
1932	Feb. 9, 1932	4.60	336	1956	Jan. 26, 1956	5.82	661
1933	Jan. 19, 1933	5.02	390				
1934	Jan. 1, 1934	6.10	564	1957	Jan. 13, 1957	2.88	169
1935	Apr. 8, 1935	5.60	630		Feb. 23, 1957	2.80	159
1936	Feb. 12, 1936	4.52	349	1958	Feb. 25, 1958	2.20	71
1937	Dec. 27, 1936	5.40	570		Mar. 16, 1958	3.97	358
1938	Mar. 2, 1938	-	5,200		Mar. 22, 1958	2.65	122
1939	Sept.25, 1939	3.60	252		Mar. 27, 1958	2.25	76
1940	Jan. 8, 1940	4.10	349		Apr. 1, 1958	4.20	415
					Apr. 3, 1958	5.84	867
1941	Apr. 4, 1941	4.45	465				
1942	Dec. 28, 1941	1.71	42	1959	Jan. 6, 1959	5.32	710
1943	Jan. 23, 1943	12.33	2,530		Feb. 11, 1959	3.15	195
1944	Feb. 22, 1944	6.00	704		Feb. 16, 1959	3.55	269
1945	Nov. 11, 1944	4.20	340				
				1960	Feb. 1, 1960	1.57	17
1946	Dec. 23, 1945	4.86	460				
1947	Nov. 20, 1946	4.32	346	1961	Nov. 5, 1960	2.18	60
					Jan. 26, 1961	2.14	57
1948	Apr. 28, 1948	1.64	47				
				1962	Dec. 2, 1961	2.97	152
1949	Jan. 20, 1949	1.41	32		Jan. 20, 1962	2.39	91
					Feb. 11, 1962	7.46	1,300
1950	Nov. 10, 1949	2.44	115		Feb. 15, 1962	2.73	135
	Dec. 18, 1949	2.54	125		Feb. 19, 1962	2.18	71
	Feb. 6, 1950	1.68	50				
	Apr. 8, 1950	1.70	51	1963	Feb. 9, 1963	4.90	590
1951	Jan. 11, 1951	1.11	18	1964	Jan. 22, 1964	1.76	46
					Apr. 1, 1964	1.94	64
1952	Dec. 30, 1951	2.78	146				
	Jan. 12, 1952	3.85	286	1965	Apr. 1, 1965	2.39	121
	Jan. 16, 1952	8.15	1,260		Apr. 9, 1965	2.58	133

a Discharge unknown; exceeded base.

1005. Little Santa Anita Creek near Sierra Madre, Calif.

Location.--Lat 34°11'13", long 118°02'35", in SE¼SW¼NW¼ sec.9, T.1 N., R.11 W., on right bank 1.3 miles upstream from Sierra Madre Dam and 2 miles north of Sierra Madre.

Drainage area.--1.84 sq mi.

Gage.--Recording. Prior to Apr. 7, 1926, at different datum. Altitude of gage is 2,200 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 75 cfs and extended above on basis of inflow to Sierra Madre flood-control reservoir.

Remarks.--Fire in 1953 denuded the entire drainage basin. Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 7.0 cfs.

Peak stages and discharges of Little Santa Anita Creek near Sierra Madre, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Dec. 24, 1916	2.32	32	1952	Jan. 16, 1952	2.25	105
1918	Mar. 10, 1918	2.30	58		Jan. 18, 1952	1.66	31
1919	Feb. 11, 1919	1.75	5.9		Mar. 7, 1952	1.24	8.9
1920	Mar. 2, 1920	2.28	55		Mar. 10, 1952	1.22	8.6
					Mar. 15, 1952	1.72	35
1921	Mar. 13, 1921	2.55	98		Apr. 7, 1952	1.35	16
1922	Feb. 9, 1922	2.74	93				
1923	Dec. 13, 1922	2.25	36	1953	Nov. 15, 1952	1.15	8.3
1924	Mar. 26, 1924	1.62	3.0		Dec. 1, 1952	1.64	30
1925	Apr. 5, 1925	1.73	5.5				
				1954	Jan. 19, 1954	-	(a)
1926	Apr. 7, 1926	11.75	300		Jan. 24, 1954	-	(a)
1927	Feb. 16, 1927	2.40	100		Feb. 13, 1954	-	(a)
1928	Feb. 4, 1928	1.55	25		Mar. 16, 1954	1.22	11
1929	Apr. 4, 1929	1.42	14		Mar. 30, 1954	1.65	36
1930	Jan. 15, 1930	1.34	5				
				1955	Nov. 11, 1954	1.17	8.0
1931	Apr. 26, 1931	1.40	12		Jan. 18, 1955	1.16	7.8
1932	Feb. 9, 1932	1.92	47				
1933	Jan. 19, 1933	2.20	72	1956	Jan. 26, 1956	1.87	46
1934	Dec. 31, 1933	2.40	89				
1935	Apr. 8, 1935	2.20	80	1957	Jan. 13, 1957	1.60	30
					Feb. 23, 1957	1.75	37
1936	Feb. 12, 1936	1.80	42		Mar. 9, 1957	1.17	7.8
1937	Dec. 27, 1936	2.00	60				
1938	Mar. 2, 1938	-	536	1958	Dec. 12, 1957	1.33	14
1939	Sept.25, 1939	1.45	9		Dec. 16, 1957	1.40	17
1940	Jan. 8, 1940	1.85	35		Jan. 26, 1958	1.21	9.4
					Feb. 4, 1958	1.79	39
1941	Apr. 4, 1941	2.13	75		Feb. 19, 1958	1.94	52
1942	Dec. 10, 1941	1.16	8.6		Mar. 16, 1958	1.45	19
1943	Mar. 4, 1943	3.75	324		Mar. 21, 1958	1.30	12
1944	Feb. 22, 1944	2.07	63		Apr. 3, 1958	1.86	45
1945	Nov. 11, 1944	1.92	50				
				1959	Jan. 6, 1959	2.10	67
1946	Dec. 21, 1945	2.05	62		Feb. 11, 1959	1.40	17
1947	Nov. 13, 1946	2.11	60		Feb. 16, 1959	1.32	16
1948	Apr. 28, 1948	1.27	12	1960	Apr. 26, 1960	.88	2.3
1949	Jan. 20, 1949	.94	3.1	1961	Nov. 5, 1960	1.43	18
					Jan. 26, 1961	1.28	12
1950	Nov. 10, 1949	1.62	26				
	Dec. 18, 1949	1.51	22	1962	Dec. 2, 1961	1.40	17
	Feb. 6, 1950	1.13	7.0		Jan. 20, 1962	1.20	9.2
	Mar. 24, 1950	1.20	10		Feb. 11, 1962	2.80	147
	Apr. 8, 1950	1.25	13		Feb. 15, 1962	1.26	11
					Feb. 19, 1962	1.26	11
1951	Jan. 11, 1951	.95	3.2		Mar. 6, 1962	1.20	9.2

a Discharge unknown; exceeded base.

1010. Eaton Creek near Pasadena, Calif.

Location.--Lat 34°11'37", long 118°06'13", in SW¼SE¼SE¼ sec.2, T.1 N., R.12 W., on right bank at mouth of canyon just upstream from bridge on old Mount Wilson toll road, and 4.5 miles northeast of Pasadena.

Drainage area.--6.47 sq mi.

Gage.--Recording. Prior to Oct. 28, 1938, at site 75 ft downstream at different datum. Oct. 28, 1938, to Nov. 4, 1959, at present site at datum 1.00 ft higher. Altitude of gage is 1,230 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 330 cfs prior to Oct. 28, 1938; below 813 cfs and extended on basis of inflow to Eaton flood-control reservoir thereafter.

Bankfull stage.--4 ft.

Historical data.--Flood of January 1916 reached 1,500 cfs, from slope-area measurement by local engineering student.

Remarks.--Peaks may be affected by diversion above station by city of Pasadena since beginning of record. Only annual peaks are shown prior to Oct. 1, 1941. Base for partial-duration series, 55 cfs.

Peak stages and discharges of Eaton Creek near Pasadena, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	January 1916	-	1,500
1918	Mar. 11, 1918	3.47	470
1919	Feb. 11, 1919	2.16	54
1920	Mar. 2, 1920	2.77	180
1921	Mar. 13, 1921	3.18	421
1922	Dec. 19, 1921	4.60	1,120
1923	Dec. 13, 1922	2.33	149
1924	Mar. 26, 1924	1.80	37
1925	Apr. 4, 1925	2.0	43
1926	Apr. 7, 1926	5.0	1,360
1927	Feb. 16, 1927	4.10	863
1928	Feb. 4, 1928	3.5	569
1929	Apr. 4, 1929	2.90	235
1930	May 3, 1930	2.37	81
1931	Apr. 26, 1931	2.27	61
1932	Feb. 9, 1932	3.65	361
1933	Jan. 19, 1933	2.96	182
1934	Jan. 1, 1934	3.52	330
1935	Apr. 8, 1935	3.30	274
1936	Feb. 12, 1936	2.85	143
1937	Dec. 27, 1936	3.50	305
1938	Mar. 2, 1938	-	2,400
1939	Dec. 18, 1938	2.32	201
1940	Jan. 8, 1940	2.40	220
1941	Feb. 20, 1941	2.80	317
1942	Dec. 10, 1941	1.33	54
1943	Jan. 23, 1943	3.49	813
	Jan. 31, 1943	1.65	110
	Feb. 22, 1943	1.85	160
	Feb. 22, 1943	1.83	155
	Feb. 24, 1943	1.70	120
	Mar. 4, 1943	2.40	344
1944	Dec. 20, 1943	1.45	74
	Feb. 22, 1944	2.49	390
	Mar. 1, 1944	2.05	203
1945	Nov. 11, 1944	2.16	251
	Feb. 2, 1945	1.92	177
	Mar. 15, 1945	1.56	92
1946	Dec. 22, 1945	1.83	186
	Dec. 23, 1945	2.12	271
	Mar. 30, 1946	2.06	268
1947	Nov. 13, 1946	2.10	230
1947	Nov. 20, 1946	1.92	210
	Dec. 26, 1946	1.80	160
	Dec. 27, 1946	1.53	86
1948	Apr. 29, 1948	1.10	42
1949	Jan. 20, 1949	.75	18
1950	Nov. 10, 1949	1.44	75
1951	Apr. 28, 1951	.61	12
1952	Dec. 30, 1951	1.33	118
	Jan. 12, 1952	1.42	107
	Jan. 16, 1952	2.02	454
	Mar. 15, 1952	1.84	168
1953	Dec. 1, 1952	1.28	52
1954	Jan. 24, 1954	1.75	225
	Feb. 13, 1954	1.11	56
1955	Apr. 30, 1955	1.10	35
1956	Jan. 26, 1956	2.70	429
1957	Jan. 13, 1957	1.39	65
	Feb. 23, 1957	1.38	64
1958	Dec. 17, 1957	1.44	72
	Jan. 26, 1958	1.47	76
	Feb. 3, 1958	2.28	292
	Feb. 19, 1958	1.87	163
	Mar. 16, 1958	1.92	178
	Apr. 1, 1958	2.73	465
1959	Jan. 6, 1959	1.87	163
	Feb. 11, 1959	1.65	110
	Feb. 16, 1959	1.63	105
1960	Jan. 12, 1960	1.29	4.0
1961	Jan. 26, 1961	1.64	13
1962	Dec. 2, 1961	2.35	60
	Feb. 11, 1962	3.90	539
1963	Feb. 9, 1963	2.85	158
1964	Apr. 1, 1964	2.32	56
1965	Apr. 1, 1965	2.48	78
	Apr. 9, 1965	2.47	64

1030. Los Angeles River at Long Beach, Calif.

Location.--Lat 33°49'05", long 118°12'15", in Los Cerritos Grant, on right bank 5,000 ft upstream from Willow Street, 3.4 miles north of Long Beach, Los Angeles County, and 3.7 miles upstream from mouth.

Gage.--Recording. Prior to Oct. 31, 1931, at site 3 miles downstream at different datum. Oct. 31, 1931, to Jan. 19, 1956, at site 2 miles downstream at datum 11.01 ft lower. Datum of gage is 11.91 ft above mean sea level (levels by Los Angeles County Flood Control District)

Stage-discharge relation.--Defined by current-meter measurements below 2,800 cfs prior to Oct. 31, 1931; below 35,000 cfs thereafter.

Bankfull stage.--23 ft.

Remarks.--Records furnished by Los Angeles County Flood Control District. Peaks regulated by Hansen flood-control reservoir (capacity, 33,500 acre-ft) beginning in 1940, Sepulveda flood-control reservoir (capacity, 17,000 acre-ft) beginning in 1941, and several small flood-control reservoirs. Peaks may be affected by occasional discharges of imported Owens River water in San Fernando and Chatsworth Reservoirs by the city of Los Angeles and by many small diversions above station for domestic use and irrigation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 10, 1929	10.15	2,870	1947	Dec. 26, 1946	7.88	18,800
1930	Mar. 15, 1930	9.70	1,970	1948	Mar. 24, 1948	6.45	9,310
				1949	Dec. 17, 1948	5.48	5,520
1931	Feb. 3, 1931	11.50	3,700	1950	Feb. 6, 1950	6.80	9,090
1932	Feb. 9, 1932	9.87	8,380				
1933	Jan. 19, 1933	10.14	8,710	1951	Jan. 29, 1951	7.37	9,040
1934	Jan. 1, 1934	12.55	37,500	1952	Jan. 16, 1952	11.05	47,800
1935	Apr. 8, 1935	9.12	11,100	1953	Nov. 15, 1952	8.62	21,100
				1954	Feb. 13, 1954	9.42	34,800
1936	Feb. 12, 1936	-	10,400	1955	Jan. 18, 1955	6.85	17,800
1937	Feb. 14, 1937	-	20,500				
1938	Mar. 2, 1938	-	99,000	1956	Jan. 26, 1956	-	40,500
1939	Sept.25, 1939	10.65	17,300	1957	Feb. 23, 1957	7.45	23,000
1940	Feb. 2, 1940	9.00	8,440	1958	Feb. 19, 1958	9.84	43,800
				1959	Jan. 6, 1959	8.17	31,000
1941	Mar. 4, 1941	11.10	18,200	1960	Jan. 12, 1960	6.80	21,700
1942	Dec. 10, 1941	11.24	10,800				
1943	Jan. 23, 1943	17.44	37,900	1961	Jan. 26, 1961	4.60	9,450
1944	Feb. 22, 1944	13.70	34,000	1962	Feb. 12, 1962	9.64	42,200
1945	Nov. 12, 1944	11.10	11,600	1963	Feb. 9, 1963	8.18	31,400
				1964	Jan. 22, 1964	5.84	15,980
1946	Dec. 22, 1945	10.20	12,800	1965	Apr. 9, 1965	8.05	30,100

1035. Ballona Creek near Culver City, Calif.

Location.--Lat 33°59'48", long 118°24'07", in La Ballona Grant, on downstream side of Sawtelle Boulevard Bridge, 1.7 miles south of Culver City, Los Angeles County, and 4 miles upstream from mouth.

Drainage area.--Prior to January 1951, 111 sq mi; 89.5 sq mi thereafter (change due to tributary channel realignment).

Gage.--Recording. Prior to May 14, 1936, at site 1 mile downstream at different datum. May 14, 1936, to Oct. 23, 1961, at datum 0.2 ft higher. Datum of gage is 11.06 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 9,000 cfs prior to May 14, 1936; below 18,300 cfs thereafter.

Bankfull stage.--22 ft.

Historical data.--Peak discharge for flood of January or February 1914 was 6,480 cfs, as determined by slope-conveyance study at site 2.4 miles upstream.

Remarks.--Records furnished by Los Angeles County Flood Control District. Peaks may be affected by occasional discharge of imported Owens River water into the creek above station from several distribution reservoirs of the City of Los Angeles Department of Water and Power. After December 1950, flow of Sepulveda Creek excluded. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	May 8, 1928	10.0	1,170	1947	Dec. 25, 1946	12.42	9,630
1929	Mar. 10, 1929	14.15	4,990	1948	Mar. 24, 1948	13.47	12,700
1930	Jan. 11, 1930	14.07	4,460	1949	Feb. 7, 1949	10.40	5,740
				1950	Feb. 6, 1950	12.19	7,670
1931	Apr. 26, 1931	14.1	6,280				
1932	Dec. 28, 1931	15.07	6,130	1951	Jan. 10, 1951	10.13	5,460
1933	Jan. 19, 1933	14.96	7,000	1952	Jan. 16, 1952	13.75	12,800
1934	Jan. 1, 1934	18.5	11,300	1953	Nov. 15, 1952	13.15	11,500
1935	Apr. 8, 1935	17.83	11,200	1954	Feb. 13, 1954	15.16	18,900
				1955	Jan. 18, 1955	11.93	9,370
1936	Feb. 12, 1936	-	8,070				
1937	Dec. 12, 1936	-	8,940	1956	Jan. 26, 1956	15.10	18,700
1938	Mar. 2, 1938	-	19,000	1957	Feb. 23, 1957	13.62	13,860
1939	Dec. 18, 1938	12.1	9,920	1958	Feb. 19, 1958	14.06	15,200
1940	Feb. 3, 1940	12.05	9,730	1959	Jan. 6, 1959	11.40	8,170
				1960	Jan. 11, 1960	13.65	12,500
1941	Dec. 23, 1940	14.63	17,300				
1942	Dec. 10, 1941	10.80	7,500	1961	Nov. 5, 1960	11.46	7,700
1943	Jan. 22, 1943	13.00	13,210	1962	Feb. 19, 1962	9.75	12,900
1944	Feb. 22, 1944	11.60	8,800	1963	Mar. 16, 1963	9.44	12,100
1945	Nov. 11, 1944	12.02	9,380	1964	Jan. 22, 1964	6.70	6,420
				1965	Apr. 9, 1965	11.82	17,600
1946	Dec. 22, 1945	11.0	7,750				

TOPANGA CREEK BASIN

1040. Topanga Creek near Topanga Beach, Calif.

Location.--Lat 34°03'50", long 118°35'10", in Boca de Santa Monica Grant, on downstream side of right abutment of highway bridge, 1.7 miles north of Topanga Beach, Los Angeles County.

Drainage area.--18.0 sq mi.

Gage.--Recording. Prior to June 5, 1940, at different datum. June 5, 1940, to Dec. 9, 1941, at site 400 ft upstream at different datum. Datum of gage is 265.60 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 5,100 cfs prior to June 5, 1940; below 3,900 cfs thereafter.

Remarks.--Records furnished by Los Angeles County Flood Control District. Only annual peaks are shown.

Peak stages and discharges of Topanga Creek near Topanga Beach, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 15, 1930	3.10	340	1948	Mar. 24, 1948	4.36	276
				1949	Dec. 26, 1948	3.45	63
1931	Feb. 4, 1931	6.40	1,370	1950	Dec. 18, 1949	4.02	275
1932	Feb. 8, 1932	5.40	1,250				
1933	Jan. 19, 1933	5.87	1,430	1951	Jan. 11, 1951	3.09	21
1934	Dec. 31, 1933	11.27	4,510	1952	Jan. 15, 1952	10.04	6,050
1935	Jan. 5, 1935	5.44	1,200	1953	Dec. 1, 1952	5.15	702
				1954	Feb. 13, 1954	7.07	2,090
1936	Feb. 22, 1936	-	528	1955	Jan. 18, 1955	3.93	151
1937	Mar. 15, 1937	5.83	1,130				
1938	Mar. 2, 1938	11.20	7,960	1956	Jan. 26, 1956	6.11	1,540
				1957	Feb. 23, 1957	5.08	655
1940	Feb. 1, 1940	9.65	1,280	1958	Apr. 3, 1958	7.57	3,950
				1959	Jan. 6, 1959	6.08	1,510
1941	Feb. 20, 1941	-	1,100	1960	Apr. 27, 1960	5.39	539
1942	Dec. 28, 1941	5.69	385				
1943	Jan. 22, 1943	8.60	2,200	1961	Jan. 26, 1961	3.30	28
1944	Feb. 22, 1944	8.85	5,070	1962	Feb. 10, 1962	7.73	2,790
1945	Feb. 2, 1945	5.67	964	1963	Feb. 9, 1963	5.11	569
				1964	Jan. 21, 1964	4.15	196
1946	Dec. 23, 1945	5.40	905	1965	Apr. 9, 1965	5.16	716
1947	Nov. 20, 1946	5.03	567				

MALIBU CREEK BASIN

1055. Malibu Creek at Crater Camp, near Calabasas, Calif.

Location.--Lat 34°04'38", long 118°42'03", in SW¼ sec.18, T.1 S., R.17 W., on right bank 700 ft downstream from Cold Creek, 0.2 mile downstream from Crater Camp, and 6 miles southwest of Calabasas.

Drainage area.--105 sq mi.

Gage.--Recording. Datum of gage is 430.51 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs.

Remarks.--Records furnished by Los Angeles County Flood Control District. Peaks regulated by many small recreational reservoirs. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Feb. 4, 1931	8.88	1,070	1949	May 18, 1949	4.36	0.6
1932	Feb. 9, 1932	10.88	3,100	1950	Feb. 6, 1950	7.80	674
1933	Jan. 19, 1933	10.81	4,460				
1934	Jan. 1, 1934	13.73	9,650	1951	Jan. 11, 1951	4.45	2.9
1935	Jan. 5, 1935	-	2,060	1952	Mar. 15, 1952	19.1	13,560
				1953	Nov. 15, 1952	6.66	322
1936	Feb. 23, 1936	-	147	1954	Feb. 13, 1954	9.23	2,250
1937	Feb. 14, 1937	10.98	2,760	1955	Jan. 18, 1955	2.60	45
1938	Mar. 2, 1938	15.90	10,000				
1939	Dec. 20, 1938	5.95	331	1956	Jan. 26, 1956	7.30	3,600
1940	Feb. 2, 1940	7.15	690	1957	Feb. 23, 1957	2.53	46
				1958	Apr. 3, 1958	10.03	4,260
1941	Feb. 20, 1941	11.30	3,620	1959	Jan. 6, 1959	8.90	3,180
1942	Dec. 28, 1941	4.58	140	1960	Apr. 27, 1960	2.88	84
1943	Jan. 22, 1943	18.31	12,200				
1944	Feb. 22, 1944	16.36	7,700	1961	Jan. 26, 1961	2.04	8.0
1945	Feb. 2, 1945	5.96	516	1962	Feb. 10, 1962	12.50	7,060
				1963	Mar. 16, 1963	3.15	104
1946	Mar. 30, 1946	6.63	506	1964	Jan. 22, 1964	2.73	65
1947	Nov. 13, 1946	8.86	820	1965	Apr. 9, 1965	5.17	521
1948	Mar. 24, 1948	5.26	113				

1065. Conejo Creek near Camarillo, Calif.

Location.--Lat 34°12'34", long 118°59'37", in Calleguas Grant, at U.S. Highway 101 bridge, 2.7 miles east of Camarillo, Ventura County.

Drainage area.--69.8 sq mi.

Gage.--Nonrecording. Altitude of gage is 110 ft (from topographic map).

Remarks.--No flow during entire period of record, 1927-31.

CALLEGUAS CREEK BASIN

1070. Honda Barranca near Somis, Calif.

Location.--Lat 34°16'08", long 119°02'56", in Las Posas Grant, on upstream side of left abutment of bridge on Price Road, 1,600 ft upstream from Arroyo Colorado and 3.1 miles west of Somis, Ventura County.

Drainage area.--2.57 sq mi.

Gage.--Recording and, since 1960, crest-stage gage. Altitude of gage is 350 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 35 cfs and extended above on basis of field estimate at 450 cfs.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 15 cfs. Only annual peak shown for 1965.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Jan. 18, 1955	2.50	23	1960	Feb. 1, 1960	2.10	9.3
1956	Jan. 26, 1956	3.40	79	1961	Nov. 6, 1960	2.00	7.0
1957	Feb. 28, 1957	2.32	16	1962	Feb. 10, 1962	4.71	184
					Feb. 15, 1962	4.35	151
1958	Feb. 19, 1958	3.38	77		Feb. 19, 1962	8.21	450
	Feb. 25, 1958	3.92	130				
	Mar. 15, 1958	3.19	62	1963	Feb. 9, 1963	3.20	63
	Mar. 22, 1958	3.42	81		Mar. 16, 1963	2.41	19
	Mar. 27, 1958	3.12	57				
	Mar. 30, 1958	3.47	85	1964	Jan. 21, 1964	4.65	180
	Apr. 3, 1958	3.26	68				
	Apr. 6, 1958	4.09	150	1965	Apr. 9, 1965	5.93	285
1959	Feb. 16, 1959	1.80	3.3				

1080. Santa Clara River near Saugus, Calif.

Location.--Lat 34°25'35", long 118°35'08", in San Francisco Grant, at bridge on U.S. Highway 99 and 2.8 miles northwest of Saugus, Los Angeles County.

Drainage area.--411 sq mi.

Gage.--Recording. Prior to Sept. 21, 1938, at site 1,000 ft downstream at different datum. Datum of gage is 1,038.24 ft above mean sea level (levels by Los Angeles County Flood Control District).

Stage-discharge relation.--Defined by current-meter measurements below 2,100 cfs prior to Sept. 21, 1938; below 4,700 cfs and extended above on basis of float measurements to 8,700 cfs thereafter.

Remarks.--Records furnished by Los Angeles County Flood Control District. Low peak discharges may be affected by diversion above station for irrigation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 15, 1930	5.05	193	1943	Jan. 23, 1943	12.5	15,000
				1944	Feb. 22, 1944	11.24	22,200
1931	Feb. 7, 1931	7.20	2,310	1945	Feb. 2, 1945	6.83	317
1932	Feb. 9, 1932	9.98	2,090				
1933	Jan. 19, 1933	12.84	618	1946	Mar. 30, 1946	6.62	500
1934	Jan. 1, 1934	15.07	3,870	1947	Dec. 26, 1946	7.77	1,620
1935	Jan. 5, 1935	14.43	608	1948	Mar. 24, 1948	-	350
				1949	Mar. 11, 1949	5.97	9.9
1936	Feb. 23, 1936	-	833	1950	Feb. 6, 1950	6.22	8.5
1937	Dec. 27, 1936	-	3,410				
1938	Mar. 2, 1938	-	24,000	1951	Jan. 29, 1951	5.93	6.2
1939	Dec. 15, 1938	9.48	4,620	1952	Jan. 16, 1952	13.32	7,600
1940	Feb. 1, 1940	6.47	676	1953	Dec. 1, 1952	10.78	-
				1954	Jan. 19, 1954	9.05	626
1941	Mar. 4, 1941	9.43	5,050	1955	Jan. 18, 1955	9.12	746
1942	Dec. 28, 1941	6.25	443				

1085. Santa Clara River at Los Angeles-Ventura County line, Calif.

Location.--Lat 34°23'59", long 118°42'14", in San Francisco Grant, on downstream end of old diversion weir on right bank, 0.8 mile west of Los Angeles-Ventura County line.

Drainage area.--644 sq mi.

Gage.--Recording. Datum of gage is 794.93 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,200 cfs and extended above on basis of slope-area measurement at 9,100 cfs.

Bankfull stage.--20 ft.

Remarks.--Gage-height record and discharge measurements furnished by Ventura County Water Resources Division. Base for partial-duration series, 750 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Nov. 15, 1952	1.53	490	1958	Dec. 15, 1957	5.00	2,910
					Feb. 4, 1958	4.85	2,360
1954	Feb. 13, 1954	3.92	755		Feb. 19, 1958	3.68	997
					Feb. 25, 1958	4.20	1,880
1955	Jan. 18, 1955	3.31	548		Mar. 16, 1958	4.08	1,980
					Apr. 3, 1958	6.75	7,070
1956	Jan. 26, 1956	3.38	878		Apr. 7, 1958	4.95	2,620
1957	Mar. 1, 1957	3.99	1,580				

Peak stages and discharges of Santa Clara River at Los Angeles-Ventura County line, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Jan. 6, 1959	4.85	2,040	1962	Feb. 19, 1962	-	(a)
1960	Apr. 27, 1960	3.88	109	1963	Feb. 9, 1963	6.90	718
					Mar. 16, 1963	7.47	1,340
1961	Nov. 6, 1960	4.80	190	1964	Jan. 22, 1964	6.78	536
1962	Dec. 2, 1961	6.35	1,800				
	Feb. 11, 1962	9.65	9,100	1965	Apr. 9, 1965	7.18	1,390

a Discharge unknown; exceeded base.

1096. Piru Creek above Lake Piru, Calif.

Location.--Lat 34°31'40", long 118°45'21", in SE¼SW¼ sec.10, T.5 N., R.18 W., on right bank at Blue Point, 1.0 mile downstream from Aqua Blanca Creek, 4.6 miles upstream from Santa Felicia Dam, and 8.0 miles northeast of Piru.

Drainage area.--372 sq mi.

Gage.--Recording. Datum of gage is 1,063.62 ft above mean sea level (levels by Ventura County Water Resources Division).

Stage-discharge relation.--Defined by current-meter measurements below 4,020 cfs and extended above on basis of slope-area measurement at 12,200 cfs.

Bankfull stage.--14 ft.

Historical data.--Maximum discharge known, 35,000 cfs, occurred Mar. 2, 1938.

Remarks.--Base for partial-duration series, 800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Mar. 2, 1938	-	35,000	1960	Jan. 10, 1960	3.19	292
1956	Jan. 27, 1956	6.21	1,230	1961	Nov. 6, 1960	3.78	528
1957	Jan. 13, 1957	7.70	3,600	1962	Dec. 2, 1961	5.26	1,390
					Feb. 10, 1962	12.20	12,200
1958	Dec. 17, 1957	5.26	1,120		Feb. 19, 1962	-	-
	Feb. 4, 1958	8.14	4,530				
	Feb. 19, 1958	6.68	2,400	1963	Feb. 9, 1963	3.73	512
	Mar. 16, 1958	6.48	2,100				
	Mar. 22, 1958	6.20	1,900	1964	Nov. 20, 1963	3.26	318
	Apr. 1, 1958	7.24	3,130				
	Apr. 3, 1958	10.35	8,600	1965	Apr. 9, 1965	3.56	484
	Apr. 7, 1958	5.40	1,610				
1959	Feb. 16, 1959	7.35	3,820				

1100. Piru Creek near Piru, Calif.
(Published as "at Piru" prior to 1935)

Location.--Lat 34°25'32", long 118°45'39", in southern part of Temescal Grant, 2.0 miles northeast of Piru, Ventura County, and 3 miles upstream from mouth.

Drainage area.--432 sq mi.

Gage.--Recording. Prior to Sept. 30, 1934, at site 2.0 miles downstream at different datum Oct. 1, 1934, to Sept. 30, 1940, at site 60 ft downstream at different datum; datum lowered 2.00 ft Feb. 20, 1939. Altitude of gage is 750 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 490 cfs and extended above on basis of slope-area measurement at 35,600 cfs prior to Sept. 30, 1934; defined by current-meter measurements below 6,500 cfs thereafter.

Remarks.--Peaks regulated by Lake Piru (capacity, 101,220 acre-ft) beginning Nov. 3, 1955. Only annual peaks are shown.

Peak stages and discharges of Piru Creek near Piru, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Jan. 19, 1933	2.90	1,200	1946	Dec. 22, 1945	5.48	3,000
1934	Jan. 1, 1934	5.20	12,000	1947	Dec. 25, 1946	4.93	2,500
1935	Jan. 5, 1935	6.1	3,660	1948	Mar. 24, 1948	2.81	420
				1949	Mar. 12, 1949	1.98	165
1936	Feb. 12, 1936	3.90	1,040	1950	Feb. 6, 1950	2.92	472
1937	Feb. 14, 1937	6.90	5,000				
1938	Mar. 2, 1938	-	35,600	1951	Jan. 11, 1951	.60	30
1939	Dec. 19, 1938	2.00	2,600	1952	Jan. 15, 1952	7.75	7,010
1940	Feb. 1, 1940	4.75	1,470	1953	Dec. 20, 1952	3.22	618
				1954	Feb. 13, 1954	3.87	1,150
1941	Feb. 21, 1941	a8.75	7,500	1955	Apr. 30, 1955	2.79	330
1942	Dec. 29, 1941	3.91	948				
1943	Jan. 22, 1943	12.27	20,000	1956	May 15, 1956	1.60	103
1944	Feb. 22, 1944	8.45	8,500				
1945	Feb. 2, 1945	5.65	3,350				

a Occurred Mar. 4, 1941.

1105. Hopper Creek near Piru, Calif.

Location.--Lat 34°24'03", long 118°49'32", in NE¼NE¼SW¼ sec.25, T.4 N., R.19 W., on downstream end of center pier of bridge on State Highway 126, 1 mile upstream from mouth and 2.1 miles southwest of Piru.

Drainage area.--23.6 sq mi.

Gage.--Recording. Altitude of gage is 590 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 690 cfs and extended above on basis of slope-area measurements at 1,840, 3,690, and 8,000 cfs.

Bankfull stage.--11 ft.

Remarks.--Water-stage recorder graph and discharge measurements furnished by Ventura County Water Resources Division. Only annual peaks are shown prior to Oct. 1, 1955. Base for partial-duration series, 90 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Dec. 31, 1933	-	5,300	1958	Feb. 19, 1958	4.63	540
1935	Jan. 5, 1935	-	750		Feb. 25, 1958	4.17	430
					Mar. 16, 1958	5.69	1,270
1936	Feb. 2, 1936	5.60	810		Mar. 22, 1958	4.30	562
					Mar. 27, 1958	3.13	154
1938	Mar. 2, 1938	-	8,000		Apr. 1, 1958	4.40	835
1939	Jan. 5, 1939	-	1,250		Apr. 3, 1958	8.66	3,690
1940	Feb. 25, 1940	-	221		Apr. 7, 1958	3.74	374
1941	Feb. 21, 1941	-	1,340	1959	Jan. 6, 1959	3.59	268
					Feb. 11, 1959	3.03	418
1943	Jan. 22, 1943	-	4,200		Feb. 16, 1959	3.34	496
1944	Feb. 22, 1944	-	1,350				
1945	Feb. 2, 1945	5.58	1,020	1960	Jan. 10, 1960	2.23	184
					Feb. 1, 1960	1.99	118
1946	Dec. 21, 1945	5.10	710		Apr. 27, 1960	2.44	249
1947	Nov. 13, 1946	-	578				
1948	Mar. 24, 1948	-	100	1961	Nov. 6, 1960	1.71	61
1949	Mar. 11, 1949	-	90				
1950	Feb. 6, 1950	-	1,000	1962	Nov. 20, 1961	2.85	300
					Dec. 2, 1961	3.56	535
1951	Jan. 19, 1951	-	18		Feb. 10, 1962	5.35	1,840
1952	Jan. 15, 1952	-	2,200		Feb. 15, 1962	3.65	390
1953	Dec. 1, 1952	-	126		Feb. 19, 1962	4.10	499
1954	Feb. 13, 1954	-	146				
1955	Feb. 27, 1955	4.68	255	1963	Feb. 9, 1963	4.15	470
					Mar. 28, 1963	3.13	138
1956	Dec. 25, 1955	4.19	149		Sept.19, 1963	3.01	110
	Jan. 26, 1956	4.92	992				
				1964	Nov. 20, 1963	3.72	307
1957	Jan. 13, 1957	5.85	1,160		Jan. 21, 1964	3.50	235
	Feb. 23, 1957	4.36	458		Apr. 1, 1964	3.24	151
	Feb. 28, 1957	3.32	114				
				1965	Dec. 20, 1964	3.81	304
1958	Dec. 16, 1957	5.66	1,020		Apr. 1, 1965	3.28	142
	Jan. 25, 1958	3.88	268		Apr. 9, 1965	4.28	504
	Feb. 3, 1958	5.76	1,180				

1115. Sespe Creek near Wheeler Springs, Calif.

Location.--Lat 34°34'40", long 119°15'25", in SW¼SW¼ sec.30, T.6 N., R.22 W., on right bank at Sespe Gorge, 1.6 miles upstream from Tule Creek, 5 miles upstream from Cold Springs damsite, and 5 miles northeast of Wheeler Springs.

Drainage area.--49.5 sq mi.

Gage.--Recording. Datum of gage is 3,500.65 ft above mean sea level (levels by Ventura County Water Resources Division).

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs and extended above on basis of field estimate at 3,800 cfs.

Bankfull stage.--Not subject to overflow.

Remarks --Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Mar. 10, 1949	3.07	21	1958	Feb. 3, 1958	9.00	2,820
					Feb. 19, 1958	8.20	2,050
1950	Feb. 6, 1950	3.56	53		Feb. 25, 1958	5.15	318
					Mar. 15, 1958	6.28	739
1951	Mar. 1, 1951	3.04	16		Mar. 21, 1958	6.67	954
					Apr. 3, 1958	9.16	3,010
1952	Jan. 12, 1952	6.53	972		Apr. 8, 1958	6.12	674
	Jan. 15, 1952	9.52	2,260		Sept. 7, 1958	4.79	177
	Jan. 25, 1952	4.37	210				
	Mar. 10, 1952	3.62	64	1959	Jan. 6, 1959	5.78	527
	Mar. 19, 1952	4.40	215		Feb. 11, 1959	4.65	169
	Mar. 25, 1952	5.29	496		Feb. 16, 1959	8.02	1,880
	Apr. 7, 1952	3.83	109		Apr. 25, 1959	4.44	126
	Apr. 25, 1952	3.48	51				
				1960	Jan. 10, 1960	4.44	128
1953	Dec. 1, 1952	4.13	151		Feb. 1, 1960	4.31	105
	Dec. 20, 1952	3.93	115				
				1961	Nov. 5, 1960	6.13	674
1954	Nov. 14, 1953	4.08	142		Jan. 26, 1961	4.58	154
	Jan. 25, 1954	4.86	353				
	Feb. 13, 1954	5.63	616	1962	Nov. 25, 1961	4.21	73
					Dec. 2, 1961	6.17	500
1955	Dec. 3, 1954	3.72	69		Feb. 10, 1962	10.6	3,800
					Mar. 6, 1962	4.33	105
1956	Dec. 24, 1955	4.17	117				
	Jan. 26, 1956	5.51	468	1963	Feb. 9, 1963	6.83	978
	May 9, 1956	3.93	74		Mar. 28, 1963	4.95	180
1957	Jan. 12, 1957	8.55	1,720	1964	Nov. 20, 1963	4.55	100
	Feb. 23, 1957	5.23	336		Jan. 21, 1964	4.39	69
	Mar. 1, 1957	4.26	121		Apr. 1, 1964	5.61	376
1958	Dec. 16, 1957	7.16	1,260	1965	Apr. 16, 1965	4.79	69

1120. Sespe Creek near Sespe, Calif.

Location.--Lat 34°30'02", long 118°56'50", in Los Padres National Forest, 1.0 mile downstream from West Fork Sespe Creek, 3.7 miles upstream from intake of Fillmore Canal, and 8 miles north of Sespe.

Drainage area.--210 sq mi.

Gage.--Nonrecording prior to Feb. 16, 1924; recording thereafter. Prior to Oct. 10, 1920, at site 200 ft upstream at different datum. Oct. 10, 1920, to Feb. 16, 1924, at datum 3.0 ft higher. Altitude of gage is 1,350 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 17,400 cfs prior to Oct. 10, 1920; below 3,160 cfs and extended above on basis of float-measurements thereafter.

Remarks.--Peaks prior to 1924 are maximum observed. Only annual peaks are shown.

Peak stages and discharges of Sespe Creek near Sespe, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 17, 1916	18.7	18,600	1922	Feb. 9, 1922	11.2	17,500
1917	Feb. 24, 1917	12.0	3,830	1923	Dec. 13, 1922	6.40	1,540
1918	Feb. 22, 1918	14.7	7,500	1924	Mar. 26, 1924	6.12	270
				1925	Apr. 4, 1925	6.45	360
1920	Mar. 22, 1920	11.0	2,900				
				1926	Apr. 7, 1926	16.0	27,000
1921	Mar. 13, 1921	5.50	1,190	1927	Nov. 26, 1926	10.20	3,460

1130. Sespe Creek near Fillmore, Calif.
(Published as "at Sespe" prior to 1935)

Location.--Lat 34°27'03", long 118°55'30", in NE¼NW¼NE¼ sec.12, T.4 N., R.20 W., on right bank 0.1 mile downstream from Little Sespe Creek and 3.5 miles north of Fillmore.

Drainage area.--251 sq mi.

Gage.--Recording. Prior to Nov. 5, 1934, at site 3 miles downstream at different datum. Nov. 5, 1934, to Mar. 2, 1938, at present site at different datum. Altitude of gage is 580 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 8,760 cfs prior to Nov. 4, 1934; below 16,200 cfs and extended above on basis of slope-area measurements at 44,000 and 56,000 cfs thereafter.

Bankfull stage.--17 ft.

Remarks.--Low peaks may be affected by diversion 1 mile upstream by Fillmore Irrigation Co. beginning prior to 1928. Only annual peaks are shown prior to Oct. 1, 1944. Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Jan. 19, 1933	11.00	12,000	1954	Jan. 24, 1954	10.52	4,350
1934	Dec. 31, 1933	16.2	34,000		Feb. 13, 1954	10.54	4,400
1935	Jan. 5, 1935	8.70	12,500		Mar. 20, 1954	9.57	2,570
1936	Feb. 12, 1936	6.42	7,200	1955	Apr. 30, 1955	9.55	785
1937	Feb. 14, 1937	9.00	12,800				
1938	Mar. 2, 1938	-	56,000	1956	Jan. 26, 1956	11.39	3,900
1939	Mar. 9, 1939	9.45	5,000				
1940	Feb. 25, 1940	9.70	5,500	1957	Jan. 13, 1957	12.80	7,650
					Feb. 23, 1957	10.08	2,970
1941	Mar. 4, 1941	13.40	17,300				
1942	Dec. 28, 1941	7.82	3,150	1958	Dec. 17, 1957	11.58	6,080
1943	Jan. 23, 1943	19.10	44,000		Feb. 4, 1958	13.35	12,100
1944	Feb. 22, 1944	13.45	13,000		Feb. 19, 1958	12.13	7,690
					Feb. 25, 1958	9.95	2,610
1945	Nov. 11, 1944	10.20	4,100		Mar. 16, 1958	11.95	7,150
	Feb. 2, 1945	13.00	11,500		Mar. 22, 1958	12.04	7,420
					Apr. 1, 1958	13.20	11,500
1946	Dec. 22, 1945	12.40	9,600		Apr. 3, 1958	16.15	28,400
	Feb. 3, 1946	8.22	1,350				
	Mar. 30, 1946	12.95	11,300	1959	Jan. 6, 1959	8.89	2,440
					Feb. 11, 1959	9.38	2,900
1947	Nov. 13, 1946	9.59	3,150		Feb. 16, 1959	11.56	8,280
	Nov. 20, 1946	9.52	3,040				
	Nov. 23, 1946	8.56	1,720	1960	Jan. 10, 1960	7.90	1,330
	Dec. 25, 1946	10.52	4,850				
				1961	Nov. 6, 1960	7.57	836
1948	Mar. 24, 1948	7.53	748				
				1962	Dec. 2, 1961	9.27	2,730
1949	Mar. 11, 1949	7.50	725		Feb. 10, 1962	14.25	25,600
					Feb. 15, 1962	6.97	2,720
1950	Feb. 6, 1950	-	3,000		Feb. 19, 1962	6.79	2,510
1951	Jan. 11, 1951	6.02	47	1963	Feb. 10, 1963	7.80	4,400
1952	Jan. 12, 1952	11.59	7,070	1964	Nov. 20, 1963	6.73	2,410
	Jan. 15, 1952	15.65	23,200		Jan. 21, 1964	5.70	1,340
	Jan. 18, 1952	11.41	6,530		Apr. 1, 1964	6.71	2,590
	Mar. 15, 1952	12.90	11,400				
	Mar. 26, 1952	9.45	2,150	1965	Dec. 20, 1964	6.45	1,710
					Apr. 9, 1965	6.70	2,440
1953	Dec. 1, 1952	10.02	3,370				
	Dec. 20, 1952	9.92	3,090				

1135. Santa Paula Creek near Santa Paula, Calif.

Location.--Lat 34°23'44", long 119°04'32", in NW¼SW¼SW¼ sec.27, T.4 N., R.21 W., on right bank 15 ft upstream from Santa Paula Water Works diversion dam, 150 ft upstream from Mud Creek, and 3 miles north of Santa Paula.

Drainage area.--40.0 sq mi.

Gage.--Recording. Altitude of gage is 650 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of slope-area measurement at 13,500 cfs.

Bankfull stage.--12 ft.

Remarks.--Only annual peaks shown prior to Oct. 1, 1944. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Jan. 19, 1933	4.86	2,650	1953	Dec. 20, 1952	3.05	219
1934	Dec. 31, 1933	8.30	8,500				
1935	Jan. 5, 1935	4.00	1,530	1954	Jan. 24, 1954	3.84	977
					Feb. 13, 1954	3.32	575
1936	Feb. 12, 1936	4.95	2,900		Mar. 20, 1954	3.07	336
1937	Feb. 14, 1937	4.32	1,350				
1938	Mar. 2, 1938	10.56	13,500	1955	Apr. 30, 1955	2.63	78
1939	Mar. 9, 1939	3.26	371				
1940	Feb. 25, 1940	3.34	364	1956	Jan. 26, 1956	3.87	835
1941	Mar. 4, 1941	5.00	3,150	1957	Jan. 13, 1957	3.92	825
1942	Dec. 29, 1941	3.10	554				
1943	Jan. 22, 1943	9.30	10,000	1958	Dec. 16, 1957	4.20	1,360
1944	Feb. 22, 1944	4.51	1,900		Feb. 4, 1958	4.75	2,000
					Feb. 19, 1958	3.64	787
1945	Nov. 11, 1944	3.98	1,200		Feb. 25, 1958	3.42	609
	Feb. 2, 1945	5.05	2,500		Mar. 15, 1958	4.14	1,290
	Mar. 17, 1945	3.14	213		Mar. 22, 1958	4.04	1,180
					Apr. 1, 1958	5.03	2,330
1946	Dec. 21, 1945	4.08	1,100		Apr. 3, 1958	8.80	9,130
	Mar. 30, 1946	4.30	1,350				
				1959	Jan. 6, 1959	3.65	787
1947	Nov. 13, 1946	3.55	530		Feb. 11, 1959	3.80	934
	Nov. 20, 1946	3.90	850		Feb. 16, 1959	3.82	954
	Nov. 23, 1946	3.20	300				
	Dec. 25, 1946	3.47	a470	1960	Feb. 2, 1960	2.82	156
	Dec. 27, 1946	3.13	265				
				1961	Nov. 12, 1960	2.95	178
1948	Mar. 24, 1948	2.59	85				
				1962	Nov. 20, 1961	3.02	219
1949	Mar. 11, 1949	2.79	147		Feb. 10, 1962	5.40	3,150
					Feb. 15, 1962	3.55	580
1950	Feb. 6, 1950	3.70	660		Feb. 19, 1962	3.67	676
1951	Apr. 28, 1951	1.82	7.9	1963	Feb. 9, 1963	3.78	684
1952	Dec. 30, 1951	3.29	316	1964	Nov. 20, 1963	3.26	396
	Jan. 12, 1952	4.44	1,620		Jan. 21, 1964	3.01	270
	Jan. 15, 1952	8.00	7,300		Apr. 1, 1964	3.54	572
	Jan. 18, 1952	4.16	1,310				
	Mar. 7, 1952	3.14	231	1965	Dec. 20, 1964	3.35	305
	Mar. 15, 1952	4.55	1,740		Apr. 9, 1965	3.76	548
	Mar. 24, 1952	2.86	354				

a A second peak of equal magnitude occurred on this day.

1145. Matilija Creek above reservoir, near Matilija Hot Springs, Calif.
(Published as "near Matilija" prior to 1954)

Location.--Lat 34°29'41", long 119°19'48", in SW¼SE¼SW¼ sec.19, T.5 N., R.23 W., on left bank 1.6 miles upstream from Matilija Dam and 1.7 miles northwest of Matilija Hot Springs.

Drainage area.--50.7 sq mi.

Gage.--Recording. Datum of gage is 1,160.20 ft above mean sea level (levels by Ventura County Water Resources Division).

Stage-discharge relation.--Defined by current-meter measurements below 5,050 cfs and extended above on basis of slope-area measurements at 5,480 and 8,800 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Mar. 11, 1949	3.73	60	1958	Feb. 3, 1958	9.67	3,120
					Feb. 19, 1958	8.70	2,060
1950	Feb. 6, 1950	3.94	155		Feb. 25, 1958	5.68	394
					Mar. 15, 1958	7.73	1,280
1951	Apr. 28, 1951	2.85	5.7		Mar. 21, 1958	7.98	1,430
					Apr. 1, 1958	8.97	2,290
1952	Jan. 12, 1952	8.80	2,540		Apr. 3, 1958	11.30	5,440
	Jan. 15, 1952	12.1	8,800				
	Jan. 18, 1952	7.27	1,500	1959	Jan. 6, 1959	6.35	565
	Mar. 15, 1952	10.0	4,100		Feb. 11, 1959	6.35	505
	Mar. 25, 1952	4.99	346		Feb. 16, 1959	8.75	2,500
1953	Dec. 1, 1952	4.85	223	1960	Jan. 10, 1960	4.32	73
	Dec. 20, 1952	4.80	235				
				1961	Jan. 26, 1961	3.95	42
1954	Jan. 24, 1954	5.50	420				
	Feb. 13, 1954	5.85	582	1962	Dec. 2, 1961	5.49	280
					Feb. 9, 1962	11.60	6,570
1955	Jan. 18, 1955	3.78	66		Feb. 19, 1962	4.12	496
1956	Jan. 26, 1956	6.30	1,040	1963	Feb. 9, 1963	4.71	863
1957	Jan. 13, 1957	7.13	1,820	1964	Apr. 1, 1964	3.94	344
	Feb. 23, 1957	5.05	322				
				1965	Dec. 20, 1964	3.93	292
1958	Dec. 16, 1957	8.73	2,080		Apr. 9, 1965	4.05	328

1155. Matilija Creek at Matilija Hot Springs, Calif.
(Published as "at Matilija" prior to October 1953)

Location.--Lat 34°28'58", long 119°18'03", in SW¼NW¼SW¼ sec.28, T.5 N., R.23 W., on right bank 0.2 mile east of Matilija Hot Springs, 0.2 mile upstream from North Fork, and 0.45 mile downstream from Matilija Dam.

Drainage area.--54.6 sq mi.

Gage.--Recording. Prior to Feb. 11, 1939, at site 0.6 mile upstream at different datum. Altitude of gage is 900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs and extended above on basis of slope-area measurement at 15,900 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by Matilija Reservoir (capacity, 7,020 acre-ft) beginning Mar. 14, 1948. Low peaks may be affected by water diverted at dam to Ventura River basin and Ojai Valley for irrigation beginning May 1951. Only annual peaks are shown.

Peak stages and discharges of Matilija Creek at Matilija Hot Springs, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Jan. 19, 1933	6.40	4,460	1951	July 26, 1951	4.38	127
1934	Dec. 31, 1933	7.20	7,000	1952	Jan. 15, 1952	8.0	3,530
1935	Jan. 15, 1935	4.94	2,050	1953	Jan. 26, 1953	2.87	64
				1954	Mar. 20, 1954	3.35	164
1936	Feb. 2, 1936	4.35	1,430	1955	Apr. 30, 1955	2.11	8.5
1937	Feb. 14, 1937	5.65	2,180				
1938	Mar. 2, 1938	-	15,900	1956	May 9, 1956	2.97	70
1939	Mar. 9, 1939	4.75	1,040	1957	Apr. 17, 1957	3.29	97
1940	Feb. 25, 1940	5.12	1,320	1958	Apr. 3, 1958	8.40	5,130
				1959	Feb. 16, 1959	6.05	1,990
1941	Mar. 4, 1941	7.25	4,290	1960	Oct. 29, 1959	2.44	50
1942	Dec. 28, 1941	4.52	780				
1943	Jan. 22, 1943	11.90	15,000	1961	Jan. 26, 1961	1.53	6.6
1944	Feb. 22, 1944	7.60	4,900	1962	Feb. 10, 1962	7.95	5,130
1945	Feb. 2, 1945	6.30	2,800	1963	Feb. 9, 1963	2.35	68
				1964	Apr. 8, 1964	2.24	49
1946	Mar. 30, 1946	7.20	4,500	1965	Apr. 3, 1965	3.93	460
1947	Nov. 20, 1946	6.7	3,500				
1950	Nov. 3, 1949	3.72	85				

1160. North Fork Matilija Creek at Matilija Hot Springs, Calif.

Location.--Lat 34°29'33", long 119°18'20", in NE¼NW¼NE¼ sec.29, T.5 N., R.23 W., on right bank at bridge on U.S. Highway 399, 0.7 mile north of Matilija Hot Springs and 0.8 mile upstream from mouth.

Drainage area.--15.6 sq mi.

Gage.--Recording. Prior to Nov. 12, 1948, at site 0.3 mile downstream at different datum. Datum of gage is 1,142.02 ft above mean sea level (levels by Ventura County Water Resources Division).

Stage-discharge relation.--Defined by current-meter measurements below 730 cfs prior to Nov. 12, 1948; below 1,450 cfs and extended above on basis of slope-area measurement at 4,530 cfs thereafter.

Remarks.--Gage-height record and discharge measurements furnished by Ventura County Water Resources Division. Only annual peaks are shown prior to Oct. 1, 1955. Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Dec. 31, 1933	-	2,770	1958	Feb. 4, 1958	4.85	1,160
1935	Jan. 14, 1935	-	1,160		Feb. 19, 1958	4.45	965
					Feb. 25, 1958	2.34	161
1936	Feb. 2, 1936	-	460		Mar. 15, 1958	3.62	618
1937	Dec. 27, 1936	-	920		Mar. 21, 1958	4.47	975
1938	Mar. 2, 1938	-	5,580		Apr. 1, 1958	4.45	965
1939	Mar. 9, 1939	-	154		Apr. 3, 1958	9.00	4,530
1940	Feb. 25, 1940	-	349		Apr. 7, 1958	3.55	590
1941	Mar. 4, 1941	-	1,100	1959	Jan. 6, 1959	2.98	319
					Feb. 10, 1959	3.88	722
1943	Jan. 22, 1943	-	2,700		Feb. 16, 1959	4.35	915
1944	Feb. 22, 1944	-	1,380		Feb. 21, 1959	2.19	66
1945	Feb. 2, 1945	10.50	557		Apr. 25, 1959	2.65	198
1946	Mar. 30, 1946	9.85	750	1960	Feb. 1, 1960	2.17	62
1947	Dec. 25, 1946	-	415				
1948	Apr. 28, 1948	-	18	1961	Jan. 26, 1961	2.26	74
1949	Mar. 10, 1949	-	91				
1950	Feb. 6, 1950	-	157	1962	Dec. 2, 1961	2.96	205
					Feb. 9, 1962	4.95	1,940
1951	Jan. 11, 1951	-	3.5		Feb. 15, 1962	2.55	272
1952	Jan. 15, 1952	-	2,820		Feb. 19, 1962	2.22	190
1953	Dec. 1, 1952	-	268		Mar. 6, 1962	1.50	57
1954	Feb. 13, 1954	-	280				
1955	Apr. 30, 1955	-	31	1963	Feb. 9, 1963	3.90	730
					Mar. 28, 1963	1.39	49
1956	Dec. 25, 1955	1.84	72				
	Jan. 26, 1956	2.80	340	1964	Nov. 20, 1963	1.42	47
	May 9, 1956	1.75	96		Jan. 21, 1964	1.95	120
					Apr. 1, 1964	3.55	563
1957	Jan. 13, 1957	4.05	795				
	Feb. 23, 1957	2.68	288	1965	Dec. 20, 1964	2.43	205
	Feb. 28, 1957	1.88	117		Apr. 9, 1965	2.37	190
1958	Dec. 16, 1957	5.12	1,300				

1175. San Antonio Creek at Casitas Springs, Calif.

Location.--Lat 34°22'49", long 119°18'13", in Santa Ana Grant, on downstream side of bridge on U.S. Highway 399, 0.2 mile upstream from mouth and 0.9 mile north of Casitas Springs, Ventura County.

Drainage area.--51.2 sq mi.

Gage.--Recording. Datum of gage is 307.55 ft above mean sea level (levels by Ventura County Water Resources Division).

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of slope-area measurement at 5,240 cfs.

Bankfull stage.--11 ft.

Remarks.--Gage-height records furnished by Ventura County Water Resources Division. Only annual peaks are shown prior to Oct. 1, 1957. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Feb. 6, 1950	4.95	1,200	1959	Jan. 6, 1959	-	200
					Feb. 11, 1959	6.42	252
1951	-	-	0		Feb. 16, 1959	6.59	356
1952	Jan. 15, 1952	13.1	3,800				
1953	Nov. 15, 1952	5.58	283	1960	Feb. 1, 1960	6.52	196
1954	Feb. 13, 1954	6.31	381				
1955	Jan. 18, 1955	5.25	130	1961	Nov. 5, 1960	6.72	217
1956	Jan. 26, 1956	6.86	690	1962	Nov. 20, 1961	7.73	698
1957	Feb. 23, 1957	6.61	570		Feb. 8, 1962	7.74	848
					Feb. 10, 1962	9.75	2,260
1958	Dec. 17, 1957	6.25	340		Feb. 15, 1962	8.17	962
	Feb. 4, 1958	7.19	814		Feb. 19, 1962	8.80	1,510
	Feb. 19, 1958	6.95	980				
	Feb. 25, 1958	6.95	980	1963	Feb. 9, 1963	7.91	1,150
	Mar. 16, 1958	6.92	976		Mar. 16, 1963	6.10	325
	Mar. 22, 1958	6.86	904				
	Mar. 27, 1958	5.17	294	1964	Nov. 20, 1963	5.65	155
	Apr. 1, 1958	9.84	2,870				
	Apr. 3, 1958	12.50	5,240	1965	Apr. 9, 1965	7.08	710
	Apr. 6, 1958	8.84	1,920				

1176. Coyote Creek near Oak View, Calif.

Location.--Lat 34°25'00", long 119°22'00", in Santa Ana Grant, on right bank 1,000 ft downstream from Los Padres National Forest boundary, 0.6 mile upstream from Poplin Creek, and 4.2 miles west of Oak View, Ventura County.

Drainage area.--13.2 sq mi.

Gage.--Recording. Altitude of gage is 560 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs and extended above on basis of slope-area measurement at 1,700 cfs.

Remarks.--Discharge measurements furnished by Ventura River Municipal Water District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	4.55	222	1963	Feb. 9, 1963	4.68	299
1960	Feb. 1, 1960	3.79	119	1964	Apr. 1, 1964	4.79	302
				1965	Dec. 20, 1964	4.57	268
1961	Nov. 12, 1960	2.02	1.6		Apr. 9, 1965	6.00	925
1962	Feb. 9, 1962	7.45	1,700				

1178. Santa Ana Creek near Oak View, Calif.

Location.--Lat 34°25'25", long 119°20'25", in Santa Ana Grant, on downstream end of right abutment of bridge, 400 ft upstream from unnamed tributary and 3.0 miles northwest of Oak View, Ventura County.

Drainage area.--9.11 sq mi.

Gage.--Recording. Altitude of gage is 610 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Remarks.--Discharge measurements furnished by Ventura River Municipal Water District. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	4.65	340	1963	Feb. 9, 1963	4.69	485
1960	Feb. 2, 1960	3.43	70	1964	Apr. 1, 1964	3.95	202
				1965	Dec. 20, 1964	4.25	215
1961	Nov. 12, 1960	2.57	1.2		Apr. 9, 1965	4.68	362
1962	Feb. 9, 1962	6.77	2,220				

1180. Coyote Creek near Ventura, Calif.

Location.--Lat 34°21'26", long 119°18'46", near southeast corner of Santa Ana Grant, on right bank 200 ft downstream from county highway bridge, 0.3 mile upstream from mouth, and 5.5 miles northwest of Ventura, Ventura County.

Drainage area.--41.2 sq mi.

Gage.--Recording. Prior to Aug. 20, 1952, at datum 1.16 ft higher. Altitude of gage is 230 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,000 cfs and extended above on basis of slope-area measurement at 11,500 cfs.

Bankfull stage.--8 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1944. Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Jan. 5, 1935	5.7	2,900	1951	Jan. 11, 1951	0.68	1.6
1936	Feb. 12, 1936	4.55	1,410	1952	Jan. 12, 1952	5.94	2,250
1937	Feb. 14, 1937	6.50	5,600		Jan. 15, 1952	11.6	9,180
1938	Mar. 2, 1938	12.00	11,500		Mar. 15, 1952	9.15	7,690
1939	Mar. 9, 1939	3.95	598				
1940	Feb. 25, 1940	5.39	2,240	1953	Dec. 20, 1952	-	(a)
					Dec. 30, 1952	-	(a)
1941	Mar. 1, 1941	8.05	8,900				
1942	Dec. 28, 1941	3.61	435	1954	Jan. 25, 1954	4.3	1,280
1943	Jan. 22, 1943	9.82	11,000		Feb. 13, 1954	4.1	1,140
1944	Feb. 22, 1944	9.05	9,000				
				1955	Jan. 18, 1955	2.60	199
1945	Feb. 2, 1945	8.65	8,000				
	Mar. 17, 1945	3.58	520	1956	Jan. 26, 1956	6.35	2,650
1946	Dec. 21, 1945	3.88	650	1957	Mar. 1, 1957	4.76	620
	Dec. 22, 1945	3.99	700				
	Mar. 30, 1946	4.91	1,500	1958	Feb. 4, 1958	5.66	1,070
					Feb. 19, 1958	5.72	1,100
1947	Nov. 20, 1946	5.30	1,800		Feb. 25, 1958	5.36	912
	Dec. 25, 1946	3.9	600		Mar. 16, 1958	5.23	1,120
					Mar. 22, 1958	4.59	764
1948	Mar. 24, 1948	1.53	8.0		Apr. 1, 1958	5.36	1,160
					Apr. 3, 1958	6.18	1,690
1949	Dec. 16, 1948	1.34	2.0		Apr. 7, 1958	4.61	1,110
1950	Feb. 6, 1950	3.54	1,000				

a Discharge unknown; exceeded base.

1185. Ventura River near Ventura, Calif.

Location.--Lat 34°21'05", long 119°18'23", in southeast corner of Santa Ana Grant, on right bank 500 ft downstream from county highway bridge at Foster Memorial Park, 0.2 mile downstream from Coyote Creek, and 5 miles north of Ventura, Ventura County.

Drainage area.--188 sq mi.

Gage.--Recording. Prior to Nov. 2, 1949, at site 370 ft upstream. Altitude of gage is 200 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,700 cfs and extended above on basis of slope-area and contracted-opening measurements at 39,200 cfs prior to Nov. 2, 1949; below 15,000 cfs and extended above on basis of slope-area measurement at 18,700 cfs thereafter.

Bankfull stage.--13 ft.

Remarks.--Flow regulated by Matilija Reservoir (capacity, 7,020 acre-ft) since Mar. 14, 1948, and by Casitas Reservoir (capacity, 267,000 acre-ft) since Oct. 1, 1959. Only annual peaks are shown prior to Oct. 1, 1944. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Jan. 19, 1933	12.20	13,000	1953	Dec. 30, 1952	6.19	801
1934	Dec. 31, 1933	14.8	23,000				
1935	Jan. 5, 1935	9.40	6,010	1954	Jan. 25, 1954	s.17	2,120
					Feb. 13, 1954	s.78	3,030
1936	Feb. 12, 1936	8.18	3,330		Mar. 20, 1954	7.60	1,460
1937	Feb. 14, 1937	10.68	13,900				
1938	Mar. 2, 1938	19.2	39,200	1955	Jan. 18, 1955	5.94	203
1939	Mar. 9, 1939	6.90	2,840				
1940	Feb. 25, 1940	6.98	4,330	1956	Jan. 26, 1956	9.95	4,050
1941	Mar. 1, 1941	10.65	15,200	1957	Jan. 13, 1957	7.66	936
1942	Dec. 28, 1941	5.12	1,190		Mar. 1, 1957	7.41	790
1943	Jan. 22, 1943	14.58	35,000				
1944	Feb. 22, 1944	9.96	20,000	1958	Dec. 17, 1957	8.85	1,890
					Feb. 4, 1958	11.83	4,840
1945	Nov. 11, 1944	4.07	1,200		Feb. 19, 1958	11.95	5,000
	Feb. 2, 1945	9.20	17,000		Feb. 25, 1958	10.65	3,350
	Mar. 17, 1945	3.80	870		Mar. 16, 1958	11.70	4,670
					Mar. 22, 1958	11.55	4,740
1946	Dec. 21, 1945	5.55	4,500		Mar. 27, 1958	7.88	1,070
	Mar. 30, 1946	6.5	8,000		Apr. 3, 1958	17.25	18,700
					Apr. 7, 1958	10.72	4,930
1947	Nov. 20, 1946	4.87	2,400				
	Nov. 23, 1946	3.92	800	1959	Jan. 6, 1959	8.19	1,910
	Dec. 25, 1946	4.21	1,150		Feb. 11, 1959	7.65	1,420
	Dec. 25, 1946	4.41	1,500		Feb. 16, 1959	9.50	3,220
1948	Mar. 24, 1948	2.16	2.4	1960	Feb. 1, 1960	7.38	966
1950	Feb. 6, 1950	8.36	2,000	1961	Nov. 6, 1960	6.77	308
1951	Mar. 1, 1951	3.53	.3	1962	Feb. 10, 1962	13.55	12,400
					Feb. 15, 1962	10.57	3,840
1952	Jan. 15, 1952	15.5	29,500		Feb. 19, 1962	10.70	4,100
	Mar. 7, 1952	7.08	1,440				
	Mar. 15, 1952	14.45	24,600	1963	Feb. 9, 1963	9.86	1,060
1953	Nov. 15, 1952	5.86	539	1964	Nov. 20, 1963	7.83	132
	Dec. 1, 1952	6.00	640				
	Dec. 20, 1952	6.44	1,040	1965	Apr. 9, 1965	11.43	398
	Dec. 28, 1952	6.09	712				

1195. Carpinteria Creek near Carpinteria, Calif.

Location.--Lat 34°24'04", long 119°29'08", in El Rincon Grant, on left bank at upstream side of bridge on State Highway 150, 200 ft downstream from Gobernado Creek and 1.8 miles northeast of Carpinteria, Santa Barbara County.

Drainage area.--13.1 sq mi.

Gage.--Recording. Prior to July 1, 1958, at datum 2.00 ft higher. Altitude of gage is 130 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 500 cfs and extended above on basis of slope-area measurement at 2,440 cfs.

Bankfull stage.--8 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 25 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 3, 1941	a5.65	803	1954	Mar. 20, 1954	2.23	62
1942	Dec. 29, 1941	2.83	29				
1943	Jan. 22, 1943	7.30	1,450	1955	Jan. 18, 1955	2.12	31
1944	Feb. 22, 1944	4.45	450				
1945	Feb. 2, 1945	6.35	1,100	1956	Jan. 26, 1956	3.45	230
1946	Mar. 30, 1946	3.67	208	1957	Feb. 28, 1957	2.74	77
1947	Nov. 20, 1946	5.25	700				
				1958	Dec. 16, 1957	4.45	588
1948	Mar. 24, 1948	2.64	22		Jan. 26, 1958	2.78	105
					Feb. 4, 1958	3.52	335
1949	Dec. 17, 1948	3.00	61		Feb. 19, 1958	3.40	299
					Feb. 25, 1958	4.60	742
1950	Dec. 8, 1949	2.31	28		Mar. 15, 1958	3.08	210
	Jan. 11, 1950	3.12	35		Mar. 21, 1958	4.20	591
	Feb. 6, 1950	3.70	215		Apr. 3, 1958	6.59	1,980
1951	Jan. 11, 1951	2.15	.8	1959	Feb. 11, 1959	3.32	31
					Feb. 16, 1959	4.17	149
1952	Dec. 30, 1951	3.50	120				
	Jan. 12, 1952	5.20	683	1960	Feb. 1, 1960	3.25	44
	Jan. 15, 1952	7.75	2,440				
	Jan. 18, 1952	3.48	358	1961	Nov. 5, 1960	4.04	146
	Mar. 7, 1952	2.00	34				
	Mar. 15, 1952	4.95	1,000	1962	Feb. 10, 1962	7.01	1,160
	Apr. 7, 1952	1.90	36		Feb. 15, 1962	5.88	462
					Feb. 19, 1962	6.71	856
1953	Nov. 15, 1952	2.29	72				
	Dec. 20, 1952	2.04	41	1963	Feb. 9, 1963	4.50	105
	Dec. 28, 1952	1.94	32				
	Dec. 30, 1952	2.26	62	1964	Apr. 1, 1964	4.55	89
1954	Jan. 19, 1954	2.04	35	1965	Dec. 20, 1964	4.29	58
	Jan. 24, 1954	3.07	227		Apr. 9, 1965	5.62	326
	Feb. 13, 1954	2.37	55				

a Occurred Mar. 28, 1941.

ATASCADERO CREEK BASIN

1200. Atascadero Creek near Goleta, Calif.
(Published as "Alascadero Creek" prior to 1948)

Location.--Lat 34°25'29", long 119°48'39", in La Goleta Grant, on downstream side of left-bank abutment of private road bridge, 400 ft downstream from Maria Ygnacio Creek, 1.3 miles upstream from mouth, and 1.3 miles southeast of Goleta, Santa Barbara County.

Drainage area.--18.8 sq mi.

Gage.--Recording. Altitude of gage is 20 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 950 cfs and extended above on basis of comparison with records for nearby streams.

Bankfull stage.--11 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1949. Base for partial-duration series, 60 cfs.

Peak stages and discharges of Atascadero Creek near Goleta, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 14, 1942	4.92	118	1958	Jan. 26, 1958	6.64	152
1943	Jan. 22, 1943	10.6	1,900		Feb. 4, 1958	8.65	646
1944	Feb. 22, 1944	9.0	1,050		Feb. 19, 1958	8.75	675
1945	Feb. 2, 1945	9.0	1,050		Feb. 25, 1958	10.06	1,060
					Mar. 15, 1958	6.96	245
1946	Dec. 22, 1945	5.98	265		Mar. 21, 1958	6.60	190
1947	Nov. 20, 1946	8.60	920		Mar. 27, 1958	6.19	139
1948	Mar. 24, 1948	5.72	60		Apr. 1, 1958	10.03	1,070
1949	Mar. 4, 1949	6.41	84		Apr. 3, 1958	11.30	1,600
					Apr. 6, 1958	7.62	376
1950	Feb. 6, 1950	7.23	180				
				1959	Jan. 5, 1959	5.77	66
1951	Mar. 1, 1951	4.54	2.1		Feb. 16, 1959	6.58	182
					Feb. 21, 1959	6.55	172
1952	Dec. 30, 1951	7.84	242				
	Jan. 12, 1952	10.62	1,300	1960	Feb. 1, 1960	6.67	128
	Jan. 15, 1952	10.85	4,500				
	Jan. 18, 1952	9.64	500	1961	Nov. 5, 1960	8.03	331
	Jan. 25, 1952	7.78	400		Nov. 12, 1960	7.38	210
	Mar. 7, 1952	6.86	100		Jan. 26, 1961	3.92	137
	Mar. 15, 1952	10.57	2,000				
				1962	Nov. 20, 1961	8.66	438
1953	Nov. 15, 1952	6.63	95		Dec. 2, 1961	7.80	230
	Dec. 20, 1952	5.95	74		Jan. 20, 1962	7.18	107
	Dec. 28, 1952	6.09	170		Feb. 9, 1962	12.00	1,950
	Dec. 30, 1952	6.33	232		Feb. 15, 1962	10.38	1,170
	Jan. 13, 1953	5.63	89		Feb. 19, 1962	11.85	1,880
					Mar. 6, 1962	7.08	77
1954	Jan. 24, 1954	6.47	235				
	Mar. 20, 1954	5.74	68	1963	Feb. 9, 1963	8.78	732
	Feb. 13, 1954	5.65	67		Mar. 16, 1963	7.77	382
					Mar. 28, 1963	7.34	275
1955	Dec. 9, 1954	6.00	67		Apr. 14, 1963	6.44	102
	Jan. 18, 1955	6.34	102		Apr. 25, 1963	7.08	216
1956	Dec. 24, 1955	7.50	432	1964	Nov. 19, 1963	7.82	345
	Dec. 26, 1955	6.56	172		Jan. 21, 1964	6.98	148
	Jan. 26, 1956	8.36	1,090		Mar. 22, 1964	8.50	529
					Apr. 1, 1964	6.80	122
1957	Jan. 13, 1957	6.89	408				
	Feb. 23, 1957	6.58	288	1965	Nov. 9, 1964	11.61	1,530
	Feb. 28, 1957	6.37	201		Dec. 20, 1964	8.40	480
					Mar. 31, 1965	7.12	238
1958	Dec. 5, 1957	5.90	70		Apr. 4, 1965	6.05	124
	Dec. 16, 1957	7.98	382		Apr. 9, 1965	10.75	1,220

SAN JOSE CREEK BASIN

1205. San Jose Creek near Goleta, Calif.

Location.--Lat 34°27'33", long 119°48'29", in La Goleta Grant, on left pier of Patterson Avenue Bridge, 1.1 miles downstream from unnamed tributary and 1.7 miles northeast of Goleta, Santa Barbara County.

Drainage area.--5.51 sq mi.

Gage.--Recording. Prior to Dec. 24, 1955, at datum 5.50 ft higher. Dec. 24, 1955, to Jan. 10, 1960, at datum 1.5 ft higher. Altitude of gage is 100 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 850 cfs and extended above on basis of slope-area measurements at 978 and 1,340 cfs.

Bankfull stage.--13 ft.

Remarks.--Low peaks may be affected by numerous small diversions upstream for irrigation. Only annual peaks are shown prior to Oct. 1, 1942. Base for partial-duration series, 100 cfs.

Peak stages and discharges of San Jose Creek near Goleta, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Apr. 4, 1941	6.95	1,960	1956	Dec. 26, 1955	4.80	440
1942	Apr. 14, 1942	3.13	210		Jan. 26, 1956	4.06	489
					Apr. 11, 1956	2.87	108
1943	Jan. 21, 1943	7.24	1,780				
	Jan. 22, 1943	6.95	1,750	1957	Jan. 13, 1957	3.54	210
	Feb. 22, 1943	2.39	132		Feb. 23, 1957	3.02	276
	Mar. 4, 1943	2.65	232		Feb. 28, 1957	2.66	167
					Apr. 17, 1957	3.05	286
1944	Feb. 22, 1944	2.76	200				
	Mar. 4, 1944	2.46	147	1958	Dec. 16, 1957	3.69	463
					Jan. 25, 1958	3.05	268
1945	Nov. 11, 1944	3.92	330		Feb. 3, 1958	3.04	264
	Feb. 2, 1945	4.40	390		Feb. 19, 1958	3.41	383
	Feb. 2, 1945	4.70	500		Feb. 25, 1958	4.17	585
					Mar. 15, 1958	2.90	215
1947	Nov. 20, 1946	4.48	500		Mar. 21, 1958	3.49	407
					Apr. 1, 1958	3.52	416
1948	Mar. 24, 1948	1.93	23		Apr. 3, 1958	5.00	790
1949	Mar. 4, 1949	3.10	150	1959	Jan. 5, 1959	2.86	254
	Mar. 10, 1949	2.87	114		Feb. 16, 1959	2.58	174
1950	Feb. 6, 1950	3.63	230	1960	Apr. 27, 1960	3.22	51
1951	Jan. 11, 1951	1.32	5.2	1961	Nov. 12, 1960	4.08	102
1952	Dec. 30, 1951	3.78	285	1962	Dec. 2, 1961	3.98	123
	Jan. 12, 1952	4.21	524		Feb. 9, 1962	8.10	1,150
	Jan. 15, 1952	6.60	1,340		Feb. 15, 1962	5.35	700
	Jan. 18, 1952	2.41	258		Feb. 19, 1962	7.15	1,010
	Mar. 15, 1952	4.32	713				
				1963	Feb. 9, 1963	3.94	258
1953	Dec. 20, 1952	1.86	120				
				1964	Nov. 20, 1963	3.37	148
1954	Jan. 24, 1954	2.19	162		Apr. 1, 1964	3.08	102
1955	Jan. 18, 1955	1.82	119	1965	Dec. 20, 1964	3.42	157
					Apr. 9, 1965	4.40	360
1956	Dec. 24, 1955	8.02	978				

SANTA YNEZ RIVER BASIN

1245. Santa Cruz Creek near Santa Ynez, Calif.

Location.--Lat 34°35'48", long 119°54'28", in San Marcos Grant, on right bank 0.6 mile downstream from Pine Canyon and 9.9 miles east of Santa Ynez, Santa Barbara County.

Drainage area.--73.9 sq mi.

Gage.--Recording. Prior to Jan. 22, 1943, at site 1.9 miles downstream at different datum. Jan. 22, 1943, to Sept. 26, 1952, at site 1.7 miles downstream at different datum. Datum of gage is 786.63 ft above mean sea level (levels by Bureau of Reclamation).

Stage-discharge relation.--Defined by current-meter measurements below 210 cfs prior to Jan. 22, 1943; below 750 cfs for period Jan. 22, 1943, to Sept. 26, 1952; and below 2,100 cfs thereafter.

Bankfull stage.--9 ft.

Remarks.--Only annual peak for water year 1942. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Dec. 28, 1941	3.96	a472	1945	Mar. 17, 1945	3.07	253
1944	Feb. 22, 1944	5.20	2,500	1946	Dec. 21, 1945	4.09	900
	Mar. 4, 1944	3.49	680		Mar. 30, 1946	4.50	1,300
	Mar. 10, 1944	2.99	395				
				1947	Nov. 20, 1946	4.05	910
1945	Nov. 11, 1944	3.46	660		Nov. 23, 1946	3.65	625
	Feb. 1, 1945	3.99	1,050		Dec. 25, 1946	3.10	350
	Feb. 2, 1945	5.33	2,700		Dec. 25, 1946	2.71	200

a Annual peak only.

Peak stages and discharges of Santa Cruz Creek near Santa Ynez, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Dec. 27, 1946	2.32	110	1958	Dec. 17, 1957	6.75	533
					Jan. 26, 1958	6.62	491
1948	Apr. 10, 1948	1.67	19		Feb. 4, 1958	9.05	1,950
					Feb. 8, 1958	5.90	254
1949	Mar. 4, 1949	2.61	130		Feb. 19, 1958	7.18	838
	Mar. 11, 1949	2.63	140		Feb. 25, 1958	6.91	700
					Mar. 15, 1958	7.29	803
1950	Feb. 6, 1950	4.40	1,160		Mar. 22, 1958	9.22	2,080
					Mar. 27, 1958	6.28	348
1951	Mar. 2, 1951	1.53	1.5		Apr. 1, 1958	10.20	3,080
					Apr. 3, 1958	10.27	3,580
1952	Dec. 30, 1951	4.37	655		Apr. 6, 1958	6.89	1,240
	Jan. 12, 1952	5.95	1,670				
	Jan. 15, 1952	7.00	2,690	1959	Jan. 6, 1959	5.11	288
	Jan. 18, 1952	4.57	1,120		Feb. 11, 1959	6.05	713
	Jan. 25, 1952	2.40	243		Feb. 16, 1959	6.45	930
	Mar. 7, 1952	1.79	106		Feb. 21, 1959	5.03	259
	Mar. 10, 1952	1.84	114				
	Mar. 15, 1952	5.15	1,340	1960	Feb. 1, 1960	6.40	918
	Mar. 25, 1952	2.39	182				
				1961	Dec. 2, 1960	4.03	35
1953	Dec. 2, 1952	5.48	102				
	Jan. 8, 1953	5.83	214	1962	Feb. 9, 1962	9.75	4,520
	Jan. 13, 1953	5.90	261		Feb. 15, 1962	5.17	298
					Feb. 19, 1962	5.57	458
1954	Jan. 24, 1954	9.30	1,540				
	Feb. 13, 1954	6.27	354	1963	Feb. 9, 1963	5.29	398
	Mar. 20, 1954	5.50	128				
				1964	Apr. 1, 1964	4.50	145
1955	Feb. 17, 1955	5.65	168				
				1965	Dec. 20, 1964	4.39	125
1956	Dec. 25, 1955	6.70	650		Jan. 7, 1965	4.49	143
	Jan. 26, 1956	8.95	2,040		Apr. 9, 1965	5.16	308
					Apr. 16, 1965	4.53	151
1957	Jan. 13, 1957	6.50	559				
	Feb. 28, 1957	5.40	112				

1250. Cachuma Creek near Santa Ynez, Calif.

Location.--Lat 34°36'30", long 119°56'04", in Tequepis Grant, on right bank 3.2 miles downstream from Lazaro Canyon and 8.3 miles east of Santa Ynez, Santa Barbara County.

Drainage area.--23.8 sq mi.

Gage.--Recording. Prior to Aug. 13, 1953, at site 1.3 miles upstream at different datum. Altitude of gage is 758.5 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 172 cfs prior to Aug. 13, 1953; below 780 cfs thereafter.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 19, 1950	3.24	56	1958	Dec. 17, 1957	4.80	170
					Jan. 26, 1958	4.97	238
1952	Dec. 30, 1951	3.90	143		Feb. 4, 1958	5.52	633
	Jan. 12, 1952	4.44	630		Feb. 14, 1958	5.09	354
	Jan. 15, 1952	6.05	4,300		Feb. 25, 1958	4.72	218
	Jan. 18, 1952	4.75	1,010		Mar. 15, 1958	4.37	178
	Mar. 15, 1952	5.23	1,850		Mar. 21, 1958	6.09	1,270
	Mar. 19, 1952	3.75	182		Apr. 1, 1958	6.10	1,280
					Apr. 6, 1958	5.63	824
1953	Jan. 13, 1953	3.51	105				
				1959	Feb. 10, 1959	5.09	344
1954	Jan. 24, 1954	5.36	462		Feb. 21, 1959	4.71	135
	Mar. 20, 1954	4.59	104				
				1960	Feb. 2, 1960	4.68	123
1955	Jan. 18, 1955	4.37	54				
				1961	Nov. 6, 1960	4.25	27
1956	Dec. 24, 1955	4.86	155				
	Jan. 26, 1956	5.41	448	1962	Feb. 11, 1962	6.02	780
					Feb. 19, 1962	5.05	220
1957	Feb. 28, 1957	4.26	51				

1260. Santa Ynez River near Santa Ynez, Calif.

Location.--Lat 34°35'30", long 119°59'45", on boundary between Canada de los Pinos and Lomas de la Purification Grants on right bank, 1.1 miles downstream from Cachuma Dam and 5 miles southeast of Santa Ynez, Santa Barbara County.

Drainage area.--422 sq mi.

Gage.--Recording. Prior to Oct. 1, 1955, at site 2.1 miles downstream at different datum. Datum of gage is 552.9 ft, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs and extended on basis of float measurement at 34,100 cfs prior to Sept. 30, 1955; defined by current-meter measurements below 1,350 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by Jameson Lake (capacity, 6,900 acre-ft) since 1930, Gibraltar Reservoir (capacity, 7,490 acre-ft prior to 1949 and 14,777 acre-ft thereafter) since 1920, and Cachuma Reservoir (capacity, 204,874 acre-ft) since November 1952. Water diverted out of basin from Jameson Lake and Gibraltar and Cachuma Reservoirs for municipal supply. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Jan. 15, 1935	8.40	3,600	1949	Mar. 20, 1949	2.73	9.0
				1950	Feb. 6, 1950	5.05	700
1936	Feb. 15, 1936	7.75	1,890				
1937	Feb. 6, 1937	10.67	7,990	1951	-	-	0
1938	Mar. 2, 1938	17.90	43,700	1952	Jan. 15, 1952	17.07	39,400
1939	Mar. 10, 1939	6.87	1,410				
1940	Feb. 26, 1940	6.18	710	1956	Apr. 18, 1956	4.15	170
1941	Mar. 4, 1941	13.2	21,200	1958	Apr. 13, 1958	5.97	1,760
1942	Dec. 28, 1941	5.71	1,210	1959	Jan. 8, 1959	4.02	444
1943	Jan. 23, 1943	16.45	33,000				
1944	Feb. 22, 1944	11.58	16,000	1961	Apr. 11, 1961	2.35	48
1945	Feb. 2, 1945	10.48	9,700	1962	Feb. 25, 1962	4.45	845
				1963	Feb. 10, 1963	3.06	280
1946	Mar. 30, 1946	9.05	7,000	1964	Feb. 20, 1964	a1.75	33
1947	Nov. 20, 1946	5.73	1,300	1965	Apr. 11, 1965	2.86	182
1948	-	-	0				

a Occurred Apr. 23, 1964.

1265. Santa Agueda Creek near Santa Ynez, Calif.

Location.--Lat 34°35'40", long 120°01'30", in Canada de los Pinos Grant, on left downstream wingwall of highway bridge, 0.8 mile upstream from mouth and 3.5 miles southeast of Santa Ynez, Santa Barbara County.

Drainage area.--55.8 sq mi.

Gage.--Recording. Prior to Oct. 1, 1955, at datum 1.0 ft higher. Altitude of gage is 520 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 3, 1941	4.60	1,580	1945	Nov. 11, 1944	1.90	200
1942	Dec. 29, 1941	2.63	327		Feb. 2, 1945	3.25	960
1943	Jan. 22, 1943	3.40	1,280		Mar. 15, 1945	1.87	222
					Mar. 17, 1945	1.90	233
1944	Feb. 22, 1944	3.34	1,120				
	Mar. 4, 1944	2.57	560	1946	Dec. 22, 1945	1.59	115

Peak stages and discharges of Santa Agueda Creek near Santa Ynez, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Mar. 29, 1946	2.35	400	1957	Feb. 28, 1957	1.92	19
1947	Nov. 20, 1946	1.90	250	1958	Dec. 17, 1957	3.25	425
	Nov. 23, 1946	1.45	150		Jan. 26, 1958	2.94	285
					Feb. 4, 1958	4.63	1,480
1948	Mar. 24, 1948	.86	5.0		Feb. 19, 1958	6.14	5,560
					Feb. 25, 1958	3.25	787
1949	Dec. 26, 1948	1.67	138		Mar. 15, 1958	2.18	189
					Mar. 21, 1958	5.99	5,260
1950	Feb. 6, 1950	1.94	225		Mar. 27, 1958	2.40	359
					Apr. 1, 1958	5.00	2,660
1951	Nov. 19, 1950	1.94	125		Apr. 6, 1958	4.72	2,180
1952	Dec. 30, 1951	2.22	73	1959	Feb. 11, 1959	2.53	140
	Jan. 12, 1952	4.48	1,480		Feb. 16, 1959	2.17	57
	Jan. 15, 1952	4.83	1,670		Feb. 21, 1959	2.37	135
	Jan. 18, 1952	4.29	1,380				
	Mar. 7, 1952	1.75	133	1960	Feb. 1, 1960	2.37	57
	Mar. 10, 1952	1.67	114		Feb. 10, 1960	2.20	64
	Mar. 15, 1952	4.54	1,540				
	Mar. 19, 1952	1.81	227	1961	Nov. 6, 1960	2.55	148
					Jan. 26, 1961	2.19	51
1953	Dec. 1, 1952	1.56	123				
	Dec. 28, 1952	1.74	172	1962	Feb. 9, 1962	4.88	2,470
	Dec. 30, 1952	2.06	324		Feb. 15, 1962	2.45	205
	Jan. 13, 1953	2.12	350		Feb. 19, 1962	3.01	487
1954	Jan. 25, 1954	2.89	475	1963	Feb. 10, 1963	2.25	64
	Mar. 20, 1954	1.34	131				
				1964	-	-	0
1955	Jan. 18, 1955	1.84	238				
				1965	Apr. 9, 1965	3.00	355
1956	Dec. 24, 1955	2.46	265				
	Jan. 26, 1956	4.00	880				

1275. Zanja de Cota Creek near Santa Ynez, Calif.
(Published as Zanja Cota near Santa Ynez prior to October 1960)

Location.--Lat 34°35'10", long 120°05'42", in Canada de los Pinos Grant (on boundary), on right bank 75 ft downstream from Mitchell Ranch Road, 0.2 mile upstream from mouth, and 2.0 miles southwest of Santa Ynez, Santa Barbara County.

Drainage area.--13.8 sq mi.

Gage.--Recording. Prior to Aug. 6, 1959, at site 700 ft upstream at different datum. Altitude of gage is 430 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 170 cfs prior to Aug. 6, 1959; below 5.3 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by small reservoir 0.2 mile upstream since August 1959. Low peaks may be affected by small diversions upstream for irrigation of about 300 acres. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Jan. 18, 1955	2.04	25	1958	Mar. 27, 1958	4.27	117
					Apr. 1, 1958	7.44	334
1956	Jan. 26, 1956	4.02	53		Apr. 6, 1958	6.71	271
1957	Oct. 10, 1956	2.95	40	1959	Jan. 5, 1959	4.49	67
					Feb. 2, 1959	3.90	53
1958	Dec. 8, 1957	3.18	a52				
	Feb. 19, 1958	7.50	295	1960	Jan. 10, 1960	2.36	5.1
	Feb. 25, 1958	3.90	74				
	Mar. 21, 1958	9.4	460	1961	May 15, 1961	2.87	7.6

a Due in part to failure of dam 0.2 mile upstream.

1284. Alisal Creek near Solvang, Calif.

Location.--Lat 34°34'55", long 120°08'40", in Nojoqui Grant, on right bank at footbridge, 0.3 mile upstream from mouth and 1.1 miles southwest of Solvang, Santa Barbara County.

Drainage area.--11.5 sq mi.

Gage.--Recording. Prior to Dec. 25, 1955, at different datum. Oct. 1, 1956, to Jan. 23, 1961, at datum 1.0 ft higher. Altitude of gage is 380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,000 cfs and extended above on basis of area-velocity studies.

Bankfull stage.--16 ft.

Remarks.--Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Jan. 18, 1955	6.63	428	1959	Feb. 21, 1959	2.57	271
1956	Dec. 25, 1955	8.25	2,200	1960	Apr. 27, 1960	1.94	121
	Jan. 26, 1956	-	(a)	1961	Jan. 26, 1961	3.50	250
1957	Jan. 12, 1957	2.76	172				
	Feb. 23, 1957	2.96	215	1962	Dec. 2, 1961	6.30	1,480
					Feb. 9, 1962	8.15	2,500
1958	Dec. 16, 1957	2.77	174		Feb. 15, 1962	6.86	1,760
	Jan. 25, 1958	2.39	100		Feb. 18, 1962	6.15	1,400
	Feb. 3, 1958	4.30	720		Mar. 6, 1962	3.11	122
	Feb. 19, 1958	7.10	2,900				
	Feb. 25, 1958	3.83	502	1963	Feb. 9, 1963	4.75	722
	Mar. 15, 1958	3.70	450		Mar. 16, 1963	3.62	267
	Mar. 21, 1958	5.85	1,730		Mar. 28, 1963	3.93	376
	Mar. 27, 1958	3.09	456				
	Apr. 3, 1958	5.62	2,140	1964	Nov. 19, 1963	3.23	152
1959	Jan. 6, 1959	1.92	117	1965	Jan. 6, 1965	3.25	139
	Feb. 10, 1959	2.68	304		Apr. 9, 1965	3.88	307
	Feb. 16, 1959	4.25	1,060				

a Discharge unknown; exceeded base.

1285. Santa Ynez River at Solvang, Calif.

Location.--Lat 34°35'05", long 120°08'35", in San Carlos de Jonata Grant, on downstream side of right abutment of Mission Bridge, 25 ft downstream from Alisal Creek and 0.9 mile south of Solvang, Santa Barbara County.

Drainage area.--579 sq mi.

Gage.--Recording. Prior to Nov. 30, 1940, on former Mission Bridge at different datum. Oct. 1, 1946, to July 28, 1953, at datum 0.66 ft higher. Altitude of gage is 350 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs.

Bankfull stage.--10 ft.

Remarks.--Peaks regulated by Jameson Lake (capacity, 6,900 acre-ft) beginning in December 1930, Gibraltar Reservoir (capacity, 7,490 acre-ft prior to 1949 and 14,777 acre-ft thereafter) beginning in 1920, and Lake Cachuma (capacity, 204,874 acre-ft) beginning in November 1952. Water diverted out of basin from Jameson Lake and Gibraltar and Cachuma Reservoirs for municipal supply. Peak for the year 1932 is maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Feb. 9, 1932	-	18,700	1947	Nov. 20, 1946	6.15	1,250
				1948	Mar. 24, 1948	4.65	13
1935	Apr. 8, 1935	6.14	4,810	1949	Mar. 10, 1949	5.80	525
				1950	Dec. 7, 1949	6.32	750
1936	Feb. 15, 1936	6.10	2,700				

Peak stages and discharges of Santa Ynez River at Solvang, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Mar. 1, 1951	3.66	12	1959	Feb. 16, 1959	5.50	1,150
1952	Jan. 15, 1952	14.80	37,000	1960	Apr. 27, 1960	2.91	137
1953	Dec. 28, 1952	5.44	625				
1954	Jan. 25, 1954	a3.08	380	1961	Jan. 26, 1961	3.47	273
1955	Jan. 18, 1955	2.56	218	1962	Feb. 11, 1962	7.20	3,600
				1963	Feb. 9, 1963	5.16	612
1956	Dec. 25, 1955	7.18	-	1964	Nov. 20, 1963	5.08	150
1957	Feb. 23, 1957	4.53	271	1965	Apr. 9, 1965	5.58	402
1958	Mar. 21, 1958	8.60	8,300				

a Occurred Mar. 20, 1954.

1300. Zaca Creek at Buellton, Calif.
(Published as La Zaca Creek at Buellton, prior to October 1960)

Location.--Lat 34°36'50", long 120°11'30", in San Carlos de Jonata Grant, on right bank upstream from culvert on State Highway 150 in Buellton, Santa Barbara County, 1 mile upstream from mouth.

Drainage area.--39.4 sq mi.

Gage.--Recording. Altitude of gage is 340 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 300 cfs and extended above on basis of velocity-area study.

Bankfull stage.--12 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1950. Base for partial-duration series, 10 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 3, 1941	6.60	874	1956	Dec. 24, 1955	3.45	10
1942	Dec. 28, 1941	3.39	44		Jan. 26, 1956	3.61	23
1943	Jan. 22, 1943	4.32	340				
1944	Feb. 22 1944	3.93	225	1957	May 11, 1957	3.45	8.3
1945	Feb. 2, 1945	2.92	32				
				1958	Feb. 4, 1958	4.25	52
1946	Mar. 29, 1946	2.89	21		Feb. 19, 1958	4.23	52
1947	Nov. 20, 1946	2.51	8		Feb. 25, 1958	4.34	54
1948	Mar. 24, 1948	2.34	.4		Mar. 21, 1958	4.68	85
1949	Mar. 4, 1949	3.78	185		Mar. 27, 1958	4.10	47
1950	Dec. 8, 1949	3.34	88		Apr. 3, 1958	5.24	273
					Apr. 6, 1958	5.12	254
1951	Oct. 26, 1950	2.64	6.8				
				1959	Feb. 21, 1959	2.99	30
1952	Jan. 12, 1952	3.68	86				
	Jan. 15, 1952	5.30	622	1960	Feb. 1, 1960	2.40	7.7
	Jan. 18, 1952	3.65	126				
	Jan. 25, 1952	3.07	51	1961	Jan. 26, 1961	2.58	5.0
	Mar. 15, 1952	4.88	364				
				1962	Dec. 2, 1961	2.69	11
1953	Dec. 27, 1952	2.71	13		Feb. 9, 1962	4.85	320
	Dec. 30, 1952	3.23	70		Feb. 11, 1962	5.65	560
					Feb. 16, 1962	3.38	99
1954	Jan. 19, 1954	2.44	8.0		Feb. 18, 1962	5.15	392
					Mar. 6, 1962	2.78	17
1955	Dec. 3, 1954	2.79	17				
	Jan. 9, 1955	2.88	24	1963	Feb. 9, 1963	2.95	30
	Jan. 18, 1955	2.76	15		Mar. 28, 1963	3.16	49

1325. Salsipuedes Creek near Lompoc, Calif.

Location.--Lat 34°35'20", long 120°24'27", in W½ sec.24, T.6 N., R.34 W., on right bank at highway bridge on Jalama Road, 0.4 mile downstream from El Jaro Creek and 4.4 miles southeast of Lompoc.

Drainage area.--47.1 sq mi.

Gage.--Recording. Altitude of gage is 240 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,400 cfs and extended above on basis of slope-area measurement at 11,400 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1944. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 3, 1941	19.95	6,100	1955	Jan. 18, 1955	3.09	382
1942	Dec. 28, 1941	15.9	4,810		Apr. 21, 1955	2.27	129
1943	Jan. 22, 1943	9.90	1,950				
1944	Feb. 29, 1944	10.85	2,340	1956	Dec. 26, 1955	7.65	2,400
					Jan. 25, 1956	7.75	2,440
1945	Feb. 2, 1945	6.00	600				
	Mar. 25, 1945	5.50	430	1957	Feb. 23, 1957	3.62	780
1946	Mar. 29, 1946	6.24	630	1958	Jan. 25, 1958	3.20	328
	Mar. 30, 1946	5.08	310		Feb. 3, 1958	7.43	2,490
	Mar. 31, 1946	5.32	370		Feb. 19, 1958	8.70	3,210
					Feb. 25, 1958	8.60	3,150
1947	Nov. 23, 1946	3.99	96		Mar. 15, 1958	6.00	1,730
					Mar. 21, 1958	9.10	3,450
1948	Mar. 24, 1948	4.61	200		Mar. 27, 1958	5.25	1,200
					Apr. 3, 1958	6.65	2,060
1949	Dec. 26, 1948	5.33	373		Apr. 7, 1958	8.03	2,820
	Mar. 3, 1949	5.80	500				
	Mar. 10, 1949	8.63	1,450	1959	Jan. 5, 1959	2.40	152
					Feb. 11, 1959	2.12	104
1950	Dec. 7, 1949	4.62	240		Feb. 16, 1959	8.74	b3,230
	Jan. 11, 1950	4.08	141		Feb. 21, 1959	3.20	366
	Jan. 14, 1950	3.97	124				
	Feb. 6, 1950	5.76	513	1960	Feb. 1, 1960	4.58	815
					Apr. 27, 1960	2.95	262
1951	Mar. 1, 1951	3.32	32				
				1961	Nov. 26, 1960	3.52	402
1952	Dec. 30, 1951	4.14	108		Dec. 1, 1960	3.78	483
	Jan. 12, 1952	6.61	732		Jan. 26, 1961	2.28	114
	Jan. 15, 1952	10.3	2,200				
	Jan. 17, 1952	4.83	341	1962	Dec. 2, 1961	5.97	1,670
	Jan. 25, 1952	4.66	301		Jan. 20, 1962	3.34	356
	Mar. 6, 1952	4.99	381		Jan. 22, 1962	3.28	341
	Mar. 15, 1952	20.8	11,400		Feb. 9, 1962	14.90	7,400
					Feb. 15, 1962	8.70	3,210
1953	Nov. 15, 1952	1.99	112		Feb. 18, 1962	8.70	3,210
	Dec. 1, 1952	-	(a)		Feb. 20, 1962	4.40	720
	Dec. 20, 1952	-	(a)		Mar. 5, 1962	8.25	2,940
	Dec. 27, 1952	5.00	1,320				
	Dec. 30, 1952	7.70	3,060	1963	Feb. 9, 1963	6.19	1,800
	Jan. 13, 1953	-	(a)		Mar. 16, 1963	3.92	532
					Mar. 28, 1963	7.57	2,540
1954	Nov. 14, 1953	-	150		Apr. 14, 1963	3.20	344
	Jan. 24, 1954	2.14	106		Apr. 25, 1963	2.97	288
	Feb. 13, 1954	2.45	182				
	Mar. 19, 1954	4.48	1,030	1964	Nov. 20, 1963	2.31	134
	Mar. 29, 1954	-	500				
				1965	Jan. 6, 1965	3.24	346
1955	Jan. 10, 1955	2.51	192		Apr. 9, 1965	4.97	1,060

a Discharge unknown; exceeded base.
b Partly caused by failure of temporary dam 0.5 mile upstream.

1335. Santa Ynez River near Lompoc, Calif.

Location.--Lat 34°38'39", long 120°25'48", near east boundary of La Mission Vieja de la Purisima Grant, on downstream end of center pier of bridge on State Highway 150, 1.5 miles east of Lompoc, Santa Barbara County, and 2.5 miles downstream from Salsipuedes Creek.

Drainage area.--790 sq mi.

Gage.--Nonrecording prior to Dec. 14, 1928; recording thereafter. Prior to June 26, 1917, at site 600 ft upstream at datum 11.29 ft higher. May 28, 1926, to Mar. 11, 1932, at site 600 ft upstream at datum 5.77 ft higher. Mar. 11, 1932, to Dec. 1, 1939, at site 600 ft upstream at datum 4.23 ft lower. Datum of gage is 79.28 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Prior to Dec. 2, 1939, defined by current-meter measurements below 18,500 cfs and extended above on basis of float measurement at 38,000 cfs and discharge vs mean-depth studies; defined by current-meter measurements below 9,200 cfs and extended above on basis of float-measurements at gage heights 9.88, 12.42, and 17.6 ft thereafter.

Bankfull stage.--15 ft.

Remarks.--Flow regulated by Jameson Lake (capacity, 6,900 acre-ft) beginning in December 1930, Gibraltar Reservoir (capacity, 7,490 acre-ft prior to 1949 and 14,777 acre-ft thereafter) beginning in 1920, and Cachuma Reservoir (capacity, 204,874 acre-ft) beginning in November 1952. Water diverted out of basin from Jameson Lake and Gibraltar and Cachuma Reservoirs for municipal supply. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907	Jan. 9, 1907	22.0	120,000	1943	Jan. 23, 1943	19.65	32,000
				1944	Feb. 22, 1944	13.06	15,000
1914	Jan. 25, 1914	13.0	75,000	1945	Feb. 3, 1945	10.89	6,800
1929	Feb. 3, 1929	5.15	1,520	1946	Mar. 30, 1946	10.05	5,000
1930	Mar. 15, 1930	4.37	396	1947	Dec. 26, 1946	6.75	575
				1948	Mar. 24, 1948	5.61	80
1931	Jan. 7, 1931	3.76	177	1949	Mar. 10, 1949	7.55	1,500
1932	Feb. 9, 1932	14.0	22,600	1950	Feb. 6, 1950	5.38	850
1933	Jan. 20, 1933	13.15	1,930				
1934	Jan. 1, 1934	15.9	4,280	1951	-	-	0
1935	Apr. 9, 1935	14.96	2,980	1952	Jan. 16, 1952	17.6	39,000
				1953	Dec. 30, 1952	8.68	1,940
1936	Feb. 16, 1936	15.20	2,530	1954	Mar. 19, 1954	8.05	1,040
1937	Feb. 7, 1937	19.10	10,700	1955	Jan. 18, 1955	7.09	394
1938	Mar. 3, 1938	28.10	45,000				
1939	Mar. 10, 1939	15.20	1,700	1956	Dec. 25, 1955	11.25	6,070
1940	Feb. 28, 1940	8.42	752	1957	Feb. 23, 1957	6.72	267
				1958	Mar. 22, 1958	11.63	6,520
1941	Mar. 5, 1941	18.90	20,200	1959	Feb. 16, 1959	7.32	1,770
1942	Dec. 28, 1941	10.56	3,880	1960	Feb. 1, 1960	5.78	654

1355. Santa Ynez River at barrier, near Surf, Calif.

Location.--Lat 34°41'20", long 120°35'05", in Lompoc Grant, on upstream side at center of salt-water barrier, 1.0 mile upstream from mouth and 1.2 miles east of Surf, Santa Barbara County.

Drainage area.--895 sq mi.

Gage.--Recording. Datum of gage is 5.5 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 790 cfs and extended above on basis of weir formula.

Historical data.--Flood of Jan. 9, 1907, had a mean daily discharge in excess of 60,000 cfs. Flood of Mar. 3, 1938, produced a peak discharge of about 45,000 cfs.

Remarks.--Peaks regulated by Jameson Lake (capacity, 6,900 acre-ft) beginning in 1930, Gibraltar Reservoir (capacity, 7,490 acre-ft prior to 1949 and 14,777 acre-ft thereafter) beginning in 1920, and Lake Cachuma (capacity, 204,874 acre-ft) beginning in November 1952. Water diverted out of the basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma for municipal supply. Only annual peaks are shown.

Peak stages and discharges of Santa Ynez River at barrier, near Surf, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1907	Jan. 9, 1907	-	60,000	1956	Dec. 25, 1955	a4.78	5,240
				1957	Feb. 23, 1957	1.37	12
1938	Mar. 3, 1938	-	45,000	1958	Apr. 3, 1958	a3.60	6,500
				1959	Feb. 17, 1959	2.62	1,390
1948	Mar. 25, 1948	0.77	1.9	1960	Feb. 2, 1960	-	50
1949	Mar. 11, 1949	2.58	1,250				
1950	Feb. 6, 1950	2.05	250	1961	Dec. 3, 1960	-	5
				1962	Feb. 11, 1962	3.26	4,260
1951	Mar. 1, 1951	1.17	1.6	1963	Feb. 10, 1963	2.55	1,180
1952	Jan. 16, 1952	6.50	36,000	1964	Apr. 2, 1964	1.13	6.5
1953	Dec. 30, 1952	3.04	3,100	1965	Apr. 10, 1965	2.05	250
1954	Mar. 20, 1954	2.23	468				
1955	Jan. 19, 1955	1.84	102				

a Occurred at different time than peak discharge.

SAN ANTONIO CREEK BASIN

1360. San Antonio Creek at Harris, Calif.

Location.--Lat 34°45'45", long 120°25'25", in Los Alamos Grant, on left bank just downstream from highway bridge, 0.25 mile south of Harris, Santa Barbara County, and 0.6 mile upstream from Harris Canyon Creek.

Drainage area.--93.5 sq mi.

Gage.--Recording. Prior to May 5, 1942, at site 0.5 mile downstream at datum 17.62 ft lower. Datum of gage is 306.56 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 480 cfs prior to May 5, 1942; below 110 cfs thereafter.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1949. Base for partial-duration series, 5.0 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 3, 1941	10.1	1,580	1952	Mar. 6, 1952	4.98	120
1942	Dec. 28, 1941	7.90	740		Mar. 10, 1952	3.62	13
1943	Jan. 23, 1943	4.74	336		Mar. 15, 1952	10.19	1,800
1944	Feb. 22, 1944	5.71	700				
1945	Feb. 2, 1945	4.77	350	1953	Nov. 15, 1952	3.43	29
					Nov. 22, 1952	2.88	6.6
1946	Mar. 31, 1946	4.48	145		Dec. 1, 1952	4.75	177
1947	Nov. 20, 1946	3.28	7.0		Dec. 20, 1952	3.52	36
1948	Mar. 24, 1948	3.00	2.1		Dec. 28, 1952	3.93	70
1949	Mar. 3, 1949	4.19	77		Dec. 30, 1952	4.35	117
					Jan. 13, 1953	3.43	30
1950	Feb. 6, 1950	3.18	5.0				
				1954	Nov. 14, 1953	3.45	28
1951	-	-	0		Jan. 19, 1954	3.15	13
					Jan. 24, 1954	3.68	39
1952	Jan. 6, 1952	3.67	9.6		Mar. 16, 1954	3.25	20
	Jan. 12, 1952	4.22	31		Mar. 20, 1954	3.37	21
	Jan. 15, 1952	6.39	403				
	Jan. 18, 1952	4.53	68	1955	Jan. 16, 1955	3.54	7.0
	Jan. 25, 1952	4.76	93		Jan. 18, 1955	4.99	128

1361. San Antonio Creek near Casmalia, Calif.

Location.--Lat 34°46'56", long 120°31'47", in Jesus Maria Grant, on Camp Cook Military Reservation on downstream side of left center pile bent of San Antonio road bridge, 0.7 mile east of junction of San Antonio road with Lompoc-Casmalia road and 3.8 miles south of Casmalia, Santa Barbara County.

Drainage area.--135 sq mi.

Gage.--Recording. Prior to June 27, 1958, at datum 2.00 ft higher. Altitude of gage is 160 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,090 cfs.

Bankfull stage.--20 ft.

Historical data.--Flood of January 1952 reached a stage of 13.0 ft.

Remarks.--Only annual peak is shown for 1952. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	January 1952	13.0	-	1960	Feb. 2, 1960	6.00	267
					Apr. 27, 1960	4.00	68
1956	Nov. 14, 1955	3.43	66				
	Dec. 25, 1955	3.96	130	1961	Dec. 1, 1960	4.02	42
	Jan. 25, 1956	6.15	463				
				1962	Nov. 20, 1961	3.84	51
1957	Feb. 28, 1957	2.52	27		Dec. 2, 1961	5.19	141
					Jan. 20, 1962	4.16	66
1958	Jan. 26, 1958	3.29	66		Feb. 11, 1962	9.22	1,250
	Feb. 3, 1958	3.15	74		Feb. 15, 1962	6.80	545
	Feb. 19, 1958	4.50	133		Feb. 19, 1962	9.35	1,300
	Feb. 25, 1958	6.42	389		Mar. 6, 1962	4.72	158
	Mar. 16, 1958	3.10	86				
	Mar. 22, 1958	4.73	283	1963	Feb. 9, 1963	3.98	58
	Mar. 27, 1958	5.23	400		Mar. 17, 1963	4.08	66
	Apr. 1, 1958	9.25	1,200		Mar. 28, 1963	4.58	105
	Apr. 6, 1958	8.05	1,180				
				1964	Nov. 20, 1963	6.73	326
1959	Jan. 6, 1959	3.92	100				
	Feb. 21, 1959	3.98	105	1965	Apr. 10, 1965	4.38	86
	Apr. 7, 1959	3.36	60				

SANTA MARIA RIVER BASIN

1365. Cuyama River near Ventucopa, Calif.

Location.--Lat 34°41'20", long 119°21'25", in NE¼NW¼ sec.19, T.7 N., R.23 W., on downstream side near left end of Ozena Bridge on U.S. Highway 399, 4.5 miles downstream from confluence of Dry Canyon and Alamo Creek and 12 miles southeast of Ventucopa.

Drainage area.--89.9 sq mi.

Gage.--Recording. Subsequent to Mar. 15, 1946, two gages were in operation concurrently, depending on location of flow in the channel. The gages are at different datums. Altitude of gage is 3,500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 50 cfs.

Peak stages and discharges of Cuyama River near Ventucopa, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Feb. 2, 1945	4.03	-	1954	Mar. 20, 1954	2.86	57
1946	Mar. 30, 1946	5.40	1,000	1955	Dec. 3, 1954	3.32	112
					Dec. 9, 1954	3.05	60
1948	Mar. 24, 1948	4.00	47		Feb. 17, 1955	3.25	103
					Apr. 30, 1955	3.03	68
1949	Mar. 10, 1949	4.39	101				
				1956	Dec. 24, 1955	3.78	287
1950	Dec. 8, 1949	4.97	300		Jan. 26, 1956	4.03	400
	Jan. 17, 1950	-	121		Apr. 12, 1956	3.47	79
	Feb. 6, 1950	-	256		Apr. 15, 1956	3.43	90
1951	Jan. 20, 1951	4.37	80	1957	Jan. 12, 1957	5.65	1,840
	Apr. 30, 1951	4.40	52		Feb. 23, 1957	4.90	1,020
					Feb. 28, 1957	3.82	79
1952	Jan. 15, 1952	6.3	2,000		Mar. 10, 1957	3.71	52
					Apr. 16, 1957	3.75	62
1953	Dec. 1, 1952	3.25	225				
	Dec. 20, 1952	2.87	144	1958	Dec. 16, 1957	4.88	1,440
	Dec. 28, 1952	-	(a)		Jan. 26, 1958	3.73	84
	Jan. 13, 1953	2.32	51		Feb. 4, 1958	5.13	2,060
					Feb. 19, 1958	6.23	7,210
1954	Nov. 14, 1953	4.33	974		Feb. 25, 1958	5.25	285
	Jan. 19, 1954	3.33	196		Mar. 16, 1958	5.30	320
	Jan. 21, 1954	2.80	57		Mar. 22, 1958	5.69	689
	Jan. 24, 1954	4.26	652		Apr. 3, 1958	7.54	6,640
	Feb. 13, 1954	4.55	592		Sept. 7, 1958	7.30	3,150

a Discharge unknown; exceeded base.

1370. Cuyama River near Santa Maria, Calif.

Location.--Lat 35°00'42", long 120°16'43", in Suey Grant, on right bank 60 ft downstream from highway bridge, 2.6 miles upstream from Alamo Creek, and 8.9 miles northeast of Santa Maria, Santa Barbara County.

Drainage area.--904 sq mi.

Gage.--Recording. Prior to Oct. 3, 1936, at different datum. Oct. 3, 1936, to Feb. 2, 1945, at site 200 ft upstream at datum 1.31 ft higher. Feb. 3 to June 21, 1945, at datum 0.78 ft higher. June 21, 1945, to July 8, 1947, at datum 1.00 ft higher. Datum of gage is 608.93 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs and extended above on basis of slope-area measurement at 17,300 cfs Oct. 3, 1936, to Feb. 2, 1945; defined by current-meter measurements below 2,900 cfs and extended above on basis of peak discharge at station below Buckhorn Canyon thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 14, 1930	1.52	101	1946	Dec. 22, 1945	4.65	1,000
				1947	Nov. 13, 1946	2.95	500
1931	Feb. 5, 1931	2.56	450				
1932	Feb. 9, 1932	4.72	4,480	1948	Mar. 26, 1948	2.08	23
1933	Jan. 19, 1933	2.67	511				
1934	Jan. 2, 1934	2.36	382	1949	Mar. 4, 1949	2.23	31
1935	Apr. 8, 1935	3.10	820				
				1950	Feb. 6, 1950	3.24	150
1936	Feb. 16, 1936	2.27	492				
1937	Feb. 6, 1937	7.60	5,220	1951	Jan. 12, 1951	b2.51	18
1938	Mar. 3, 1938	16.6	17,300				
1939	Dec. 15, 1938	4.62	415	1952	Jan. 12, 1952	5.28	670
1940	Feb. 26, 1940	3.78	224		Jan. 16, 1952	7.70	6,200
					Jan. 26, 1952	3.28	340
1941	Mar. 5, 1941	a7.90	4,600		Mar. 7, 1952	3.60	510
1942	Apr. 22, 1942	4.68	782		Mar. 10, 1952	2.97	204
1943	Jan. 23, 1943	11.30	8,400		Mar. 16, 1952	7.06	4,850
1944	Feb. 22, 1944	6.20	1,900		Mar. 25, 1952	4.04	338
1945	Feb. 3, 1945	5.67	1,400				

a Occurred Mar. 4, 1941.
b Occurred Mar. 2, 1951.

Peak stages and discharges of Cuyama River near Santa Maria, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Jan. 13, 1953	3.65	207	1958	Feb. 25, 1958	5.28	728
					Mar. 17, 1958	5.08	550
1954	Jan. 24, 1954	5.90	1,350		Mar. 23, 1958	5.28	632
	Feb. 14, 1954	4.10	375		Mar. 27, 1958	5.24	662
	Mar. 16, 1954	5.59	1,130		Apr. 4, 1958	7.70	7,200
	Mar. 20, 1954	3.73	253		Sept. 8, 1958	7.28	2,870
1955	Jan. 18, 1955	3.53	151	1959	Jan. 7, 1959	4.92	944
					Feb. 11, 1959	3.62	224
1956	Jan. 25, 1956	5.25	770		Feb. 17, 1959	5.22	1,130
1957	Jan. 14, 1957	4.34	272	1960	Feb. 10, 1960	2.86	69
1958	Dec. 17, 1957	4.25	221	1961	Nov. 7, 1960	4.57	259
	Jan. 26, 1958	4.50	312				
	Feb. 5, 1958	5.56	928	1962	Feb. 11, 1962	7.90	8,800
	Feb. 20, 1958	6.81	2,230				

1375. Alamo Creek near Santa Maria, Calif.

Location.--Lat 35°01'20", long 120°18'10", in Suey Grant, on downstream side of center pier of highway bridge, 1.2 miles upstream from mouth and 9 miles northeast of Santa Maria, Santa Barbara County.

Drainage area.--86.6 sq mi.

Gage.--Recording. Prior to May 12, 1958, at datum 2.00 ft higher. Datum of gage is 579.14 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,820 cfs.

Bankfull stage.--7 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1950. Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Mar. 4, 1944	4.14	560	1955	Jan. 18, 1955	2.16	8.8
1945	Feb. 2, 1945	4.34	700				
				1956	Jan. 26, 1956	4.66	1,360
1946	Dec. 22, 1945	2.14	10				
1947	Nov. 20, 1946	2.13	8.7	1957	Apr. 17, 1957	1.75	2.3
1948	Mar. 24, 1948	2.33	2.6				
1949	Dec. 26, 1948	2.30	4.1	1958	Jan. 26, 1958	4.01	520
1950	Feb. 6, 1950	4.16	614		Feb. 3, 1958	3.51	464
					Feb. 20, 1958	4.23	740
1951	Oct. 27, 1950	3.92	248		Feb. 25, 1958	4.81	1,000
	Nov. 19, 1950	3.83	209		Mar. 15, 1958	4.02	760
					Mar. 22, 1958	4.12	810
1952	Dec. 30, 1951	4.48	302		Mar. 27, 1958	3.67	608
	Jan. 12, 1952	5.54	810		Apr. 3, 1958	7.65	3,120
	Jan. 15, 1952	8.00	2,820				
	Jan. 18, 1952	4.39	388	1959	Feb. 10, 1959	3.73	4.2
	Jan. 25, 1952	3.94	292				
	Mar. 7, 1952	4.03	292	1960	Feb. 1, 1960	5.06	5.6
	Mar. 10, 1952	3.14	93				
	Mar. 15, 1952	6.59	2,690	1961	Jan. 26, 1961	5.23	3.3
	Mar. 19, 1952	3.60	585				
				1962	Feb. 9, 1962	7.50	1,620
1953	Dec. 3, 1952	2.58	60		Feb. 15, 1962	-	250
	Jan. 8, 1953	2.84	91		Feb. 19, 1962	-	450
	Jan. 14, 1953	3.00	124		Mar. 6, 1962	-	250
1954	Jan. 25, 1954	4.43	598				

1380. Huasna River near Santa Maria, Calif.

Location.--Lat 35°01'16", long 120°19'18", in Suey Grant, at State Highway 166 bridge, on downstream side of first pier from right bank, 0.3 mile upstream from mouth and 8 miles northeast of Santa Maria, Santa Barbara County.

Drainage area.--117 sq mi.

Gage.--Recording prior to Oct. 1, 1959, at sites within 0.1 mile upstream and 50 ft downstream at different datums.

Stage-discharge relation.--Defined by current-meter measurements below 1,100 cfs and extended above on basis of slope-area measurement at 11,400 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1946. Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 14, 1930	1.92	10	1952	Mar. 19, 1952	2.98	822
					Apr. 8, 1952	1.45	116
1931	Jan. 2, 1931	1.68	11				
1932	Dec. 28, 1931	8.30	4,900	1953	Dec. 2, 1952	1.49	71
1933	Jan. 19, 1933	4.80	1,240		Dec. 28, 1952	1.24	46
1934	Dec. 31, 1933	2.70	37		Dec. 31, 1952	1.53	82
1935	Apr. 8, 1935	6.78	3,110		Jan. 8, 1953	2.63	359
					Jan. 14, 1953	2.04	202
1936	Feb. 23, 1936	5.80	2,360				
1937	Feb. 6, 1937	10.93	10,000	1954	Jan. 25, 1954	4.88	811
1938	Feb. 11, 1938	11.26	11,400		Feb. 14, 1954	2.45	86
1939	Mar. 9, 1939	1.37	16		Feb. 18, 1954	2.31	75
1940	Jan. 10, 1940	3.24	493		Mar. 21, 1954	2.10	54
					Mar. 30, 1954	2.62	133
1941	Mar. 4, 1941	6.60	4,000				
1942	Dec. 28, 1941	3.43	701	1955	Jan. 10, 1955	2.70	144
1943	Jan. 23, 1943	7.44	4,700		Jan. 18, 1955	1.99	41
1944	Mar. 4, 1944	4.53	1,500				
1945	Feb. 2, 1945	4.75	1,000	1956	Dec. 24, 1955	3.17	187
					Dec. 27, 1955	2.93	144
1946	Mar. 30, 1946	3.80	480		Jan. 25, 1956	7.06	2,260
1947	Nov. 20, 1946	2.01	32	1957	Dec. 2, 1956	2.87	129
1948	Mar. 24, 1948	1.73	6.5	1958	Dec. 20, 1957	3.05	163
					Jan. 27, 1958	2.52	71
1949	Mar. 4, 1949	1.63	7.1		Feb. 5, 1958	3.25	208
					Feb. 20, 1958	3.29	218
1950	Feb. 6, 1950	4.72	900		Feb. 25, 1958	6.18	1,530
	Apr. 9, 1950	-	139		Mar. 15, 1958	5.60	1,150
					Mar. 22, 1958	5.48	980
1951	Nov. 19, 1950	3.54	414		Mar. 27, 1958	5.07	775
	Jan. 19, 1951	2.63	137		Apr. 3, 1958	8.42	4,230
					Apr. 6, 1958	7.52	2,640
1952	Dec. 5, 1951	2.94	182				
	Dec. 30, 1951	4.96	1,320	1959	Feb. 11, 1959	2.67	60
	Jan. 12, 1952	-	900				
	Jan. 15, 1952	8.12	4,060	1960	Feb. 2, 1960	4.00	300
	Jan. 25, 1952	3.17	654		Feb. 10, 1960	2.61	67
	Mar. 7, 1952	2.45	346				
	Mar. 10, 1952	1.77	174	1961	Dec. 1, 1960	3.16	58
	Mar. 15, 1952	5.55	2,510		Jan. 2, 1961	3.34	142

1385. Sisquoc River near Sisquoc, Calif.

Location.--Lat 34°50'25", long 120°10'00", in sec.20, T.9 N., R.31 W., on left bank 2.2 miles upstream from La Brea Creek and 7 miles east of Sisquoc.

Drainage area.--281 sq mi.

Gage.--Recording. Prior to Aug. 24, 1951, at site 0.2 mile downstream at datum 3.70 ft lower. Datum of gage is 624.30 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 2,800 cfs prior to Aug. 24, 1951; below 1,400 cfs and extended above on basis of slope-area measurement at 6,880 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Historical data.--Maximum discharge known, 11,000 cfs Mar. 2, 1938 (gage height, 8.1 ft from high-water mark in well).

Remarks.--Low peaks occurring since 1944 are not equivalent to those prior to 1934 as point of diversion above station was moved below station in 1938. Only annual peaks are shown prior to Oct. 1, 1945. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 17, 1930	2.14	126	1954	Feb. 13, 1954	4.72	986
					Mar. 20, 1954	4.06	386
1931	Feb. 5, 1931	2.00	93				
1932	Feb. 8, 1932	6.17	6,240	1955	Feb. 17, 1955	3.97	408
1933	Jan. 19, 1933	3.18	800				
				1956	Dec. 25, 1955	5.26	865
1938	Mar. 2, 1938	8.1	11,000		Jan. 26, 1956	6.30	1,750
					May 10, 1956	3.50	165
1944	Feb. 22, 1944	5.43	4,700				
1945	Feb. 2, 1945	5.33	4,500	1957	Jan. 13, 1957	4.58	743
					Feb. 23, 1957	3.65	214
1946	Dec. 22, 1945	3.69	1,600		Mar. 1, 1957	3.57	138
	Mar. 30, 1946	4.57	3,900				
				1958	Dec. 17, 1957	5.12	958
1947	Nov. 20, 1946	3.37	1,100		Jan. 26, 1958	4.77	656
	Nov. 23, 1946	3.21	1,150		Feb. 4, 1958	6.75	2,620
	Dec. 25, 1946	2.61	500		Feb. 19, 1958	7.05	2,980
	Dec. 26, 1946	2.56	460		Feb. 25, 1958	5.45	1,280
					Mar. 16, 1958	5.78	1,610
1948	Apr. 28, 1948	.88	2.9		Mar. 22, 1958	7.20	3,160
					Apr. 3, 1958	10.62	7,640
1949	Mar. 11, 1949	1.98	200				
				1959	Jan. 6, 1959	4.55	342
1950	Feb. 6, 1950	a3.14	1,210		Feb. 11, 1959	5.43	1,260
	Feb. 11, 1950	a1.95	178		Feb. 16, 1959	5.70	1,530
	Apr. 9, 1950	1.82	165		Feb. 21, 1959	4.07	198
1951	Nov. 19, 1950	.78	4.5	1960	Feb. 2, 1960	5.10	850
1952	Dec. 30, 1951	4.15	332	1961	Nov. 26, 1960	3.33	5.1
	Jan. 12, 1952	6.76	2,860				
	Jan. 15, 1952	10.08	6,880	1962	Dec. 2, 1961	4.50	310
	Jan. 18, 1952	6.45	2,450		Feb. 9, 1962	9.00	5,360
	Jan. 25, 1952	5.13	1,100		Feb. 15, 1962	4.35	730
	Mar. 7, 1952	4.23	484		Feb. 19, 1962	4.55	850
	Mar. 15, 1952	7.44	3,580		Mar. 7, 1962	3.50	345
	Mar. 26, 1952	4.79	864				
				1963	Feb. 10, 1963	3.70	465
1953	Dec. 2, 1952	3.81	180				
	Dec. 20, 1952	3.79	180	1964	Jan. 22, 1964	3.48	240
	Dec. 31, 1952	3.96	275		Apr. 1, 1964	3.66	338
	Jan. 8, 1953	4.09	354				
	Jan. 14, 1953	4.31	524	1965	Jan. 9, 1965	3.70	294
					Apr. 9, 1965	4.76	800
1954	Jan. 25, 1954	6.90	3,000				

a At site 200 ft downstream at different datum.

1390. La Brea Creek near Sisquoc, Calif.

Location.--Lat 34°51'10", long 120°11'55", in SE¼ sec.13, T.9 N., R.32 W., on right bank 2,100 ft upstream from mouth and 5.5 miles east of Sisquoc.

Drainage area.--93.8 sq mi.

Gage.--Recording. Altitude of gage is 550 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1945. Base for partial-duration series, 30 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Feb. 22, 1944	5.22	1,600	1955	Jan. 18, 1955	3.33	191
1945	Feb. 2, 1945	4.46	785		Feb. 16, 1955	3.21	155
					Feb. 27, 1955	2.61	47
1946	Mar. 30, 1946	3.33	155				
				1956	Jan. 27, 1956	4.18	513
1947	-	-	0				
				1957	-	-	0
1948	-	-	0				
				1958	Feb. 4, 1958	3.28	148
1949	-	-	0		Feb. 19, 1958	3.70	330
					Feb. 25, 1958	3.63	295
1950	Apr. 9, 1950	2.6	12		Mar. 15, 1958	3.65	305
					Mar. 22, 1958	3.83	402
1951	-	-	0		Mar. 27, 1958	3.68	320
					Apr. 1, 1958	5.30	1,970
1952	Jan. 12, 1952	4.58	824		Apr. 6, 1958	3.78	560
	Jan. 15, 1952	5.94	3,320				
	Jan. 25, 1952	3.27	78	1959	Feb. 10, 1959	2.13	1.9
	Mar. 7, 1952	3.74	212				
	Mar. 10, 1952	3.48	123	1960	-	-	0
	Mar. 15, 1952	5.63	2,630				
	Apr. 7, 1952	2.43	41	1961	-	-	0
1953	Dec. 31, 1952	2.52	54	1962	Feb. 11, 1962	4.90	1,360
	Jan. 13, 1953	3.12	178		Feb. 16, 1962	2.91	138
					Feb. 19, 1962	3.22	240
1954	Nov. 14, 1953	3.02	109		Mar. 22, 1962	2.45	39
	Jan. 24, 1954	4.95	1,430				
	Feb. 13, 1954	2.74	62	1963	-	-	0
	Mar. 16, 1954	4.50	910				
	Mar. 20, 1954	3.30	181	1964	-	-	0
	Mar. 25, 1954	2.52	39				
	Mar. 30, 1954	3.32	188	1965	Apr. 9, 1965	3.45	275
1955	Dec. 9, 1954	2.82	73				

1395. Tepusquet Creek near Sisquoc, Calif.

Location.--Lat 34°52'20", long 120°14'35", in NE¼ sec.9, T.9 N., R.32 W., on downstream wingwall of right bridge abutment, 1.1 miles upstream from mouth and 3 miles east of Sisquoc.

Drainage area.--28.6 sq mi.

Gage.--Recording. Prior to Dec. 9, 1948, at datum 0.9 ft higher. Altitude of gage is 500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 220 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1945. Base for partial-duration series, 10 cfs.

Peak stages and discharges of Tepusquet Creek near Sisquoc, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Feb. 21, 1944	3.86	200	1954	Mar. 30, 1954	2.06	35
1945	Feb. 2, 1945	2.66	50	1955	Jan. 18, 1955	b2.50	-
1946	Mar. 30, 1946	2.23	7.5	1956	Dec. 24, 1955	3.54	116
1947	Nov. 13, 1946	1.83	1.8		Jan. 25, 1956	4.30	196
1948	Apr. 28, 1948	1.86	1.5	1957	Apr. 17, 1957	1.60	1.5
1949	Mar. 5, 1949	2.03	5	1958	Jan. 26, 1958	2.13	13
					Feb. 3, 1958	2.27	16
1950	Mar. 24, 1950	2.05	3.1		Feb. 25, 1958	3.01	169
					Mar. 15, 1958	2.47	40
1951	Feb. 28, 1951	a1.97	1.5		Mar. 22, 1958	2.54	50
					Mar. 27, 1958	2.49	43
1952	Jan. 12, 1952	4.69	126		Apr. 3, 1958	3.55	295
	Jan. 15, 1952	5.93	318		Apr. 7, 1958	3.28	243
	Mar. 7, 1952	1.77	40				
	Mar. 10, 1952	1.33	19	1959	Feb. 21, 1959	2.12	1.6
	Mar. 13, 1952	1.15	12				
	Mar. 15, 1952	3.57	167	1960	Feb. 2, 1960	2.25	26
	Mar. 19, 1952	1.74	42	1961	Oct. 6, 1960	2.01	.7
1953	Nov. 22, 1952	1.95	25				
	Dec. 1, 1952	1.70	12	1962	Feb. 9, 1962	4.25	500
	Dec. 31, 1952	1.78	18		Feb. 14, 1962	2.90	147
	Jan. 14, 1953	2.02	31		Feb. 19, 1962	2.50	72
1954	Nov. 14, 1953	2.52	64	1963	Feb. 9, 1963	2.11	9.8
	Jan. 24, 1954	4.80	234				
	Feb. 14, 1954	1.89	29	1964	Jan. 22, 1964	1.98	2.6
	Mar. 16, 1954	2.63	72				
	Mar. 20, 1954	2.85	88	1965	Apr. 9, 1965	2.41	36

a Occurred July 27, 1951.
b Backwater from debris.

1400. Sisquoc River near Garey, Calif.

Location.--Lat 34°53'38", long 120°18'20", in SW¼ sec.36, T.10 N., R.33 W., near right bank on downstream side of county road bridge, 0.6 mile northeast of Garey and 3.7 miles downstream from Tepusquet Creek.

Drainage area.--472 sq mi.

Gage.--Recording. Prior to Aug. 27, 1954, at site 3 miles upstream at different datum. Aug. 28, 1954, to Nov. 1, 1956, at site 0.7 mile upstream at different datum. Nov. 1, 1956, to Sept. 30, 1959, at same site at different datums. Datum of gage is 360.8 ft above mean sea level (Santa Barbara County bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of records for upstream stations prior to Nov. 1, 1956; defined below 2,300 cfs thereafter.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1946. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 5, 1941	7.70	7,000	1948	-	-	0
1942	Apr. 22, 1942	4.85	875				
1943	Jan. 23, 1943	8.46	13,000	1949	Mar. 11, 1949	3.48	50
1944	Feb. 22, 1944	6.43	6,600				
1945	Feb. 2, 1945	6.25	5,400	1950	Feb. 6, 1950	4.56	900
1946	Mar. 30, 1946	5.87	4,000	1951	-	-	0
1947	Nov. 20, 1946	4.46	765	1952	Dec. 30, 1951	-	400
	Nov. 23, 1946	4.76	900		Jan. 12, 1952	5.97	2,580
	Dec. 25, 1946	-	375		Jan. 15, 1952	7.46	8,910
	Dec. 26, 1946	4.07	360		Jan. 18, 1952	4.55	2,880

Peak stages and discharges of Sisquoc River near Garey, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 25, 1952	2.62	838	1958	Feb. 4, 1958	6.68	2,180
	Mar. 7, 1952	2.05	511		Feb. 19, 1958	-	2,500
	Mar. 15, 1952	5.75	4,900		Feb. 25, 1958	-	1,000
	Mar. 26, 1952	3.47	618		Mar. 16, 1958	-	2,000
					Mar. 22, 1958	-	3,000
1953	Dec. 20, 1952	1.61	125		Apr. 3, 1958	9.6	8,000
	Dec. 31, 1952	2.03	185				
	Jan. 8, 1953	2.15	228	1959	Feb. 11, 1959	5.44	1,000
	Jan. 14, 1953	3.00	480		Feb. 16, 1959	4.87	594
1954	Jan. 25, 1954	-	(a)	1960	Jan. 12, 1960	4.67	3.6
	Feb. 14, 1954	-	(a)				
	Mar. 16, 1954	2.09	160	1961	-	-	0
	Mar. 20, 1954	2.83	426				
	Mar. 30, 1954	2.48	268	1962	Feb. 10, 1962	7.80	7,200
					Feb. 19, 1962	5.18	920
1955	Feb. 17, 1955	4.22	137		Mar. 7, 1962	4.16	258
					Mar. 22, 1962	5.02	114
1956	Dec. 25, 1955	5.18	740				
	Jan. 27, 1956	b7.38	2,120	1963	Feb. 10, 1963	-	150
1957	Oct. 19, 1956	4.08	105	1964	-	-	0
1958	Dec. 17, 1957	4.32	211	1965	Apr. 10, 1965	5.75	900
	Jan. 26, 1958	4.48	263				

a Discharge unknown; exceeded base.
b Occurred Jan. 25, 1956, backwater from gravel dike.

1410. Santa Maria River at Guadalupe, Calif.

Location.--Lat 34°58'35", long 120°34'15", in Guadalupe Grant, on downstream side of fifth bridge pier from left bank on State Highway 1, 0.5 mile north of Guadalupe, Santa Barbara County, and 4.5 miles upstream from mouth.

Drainage area.--1,742 sq mi.

Gage.--Recording. Prior to Aug. 11, 1955, at site 100 ft upstream at same datum. Datum of gage is 64.92 ft above mean sea level, datum of 1929, supplementary adjustment of 1934 (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs prior to Aug. 11, 1955; below 18,800 cfs thereafter.

Bankfull stage.--7 ft.

Remarks.--Peaks partly regulated by Twitchell Reservoir (capacity, 240,000 acre-ft), beginning in February 1959, on Cuyama River 8 miles upstream from mouth. Only annual peaks are shown prior to Oct. 1, 1945, and after Oct. 1, 1958. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 5, 1941	8.00	14,700	1952	Jan. 18, 1952	4.54	2,490
					Jan. 25, 1952	-	(a)
1943	Jan. 23, 1943	7.36	13,800		Mar. 15, 1952	6.62	13,300
1944	Feb. 22, 1944	6.08	5,000		Mar. 27, 1952	3.31	248
1945	Feb. 2, 1945	5.55	3,700				
				1953	Jan. 14, 1953	3.90	84
1946	Dec. 23, 1945	4.50	2,100				
	Mar. 30, 1946	4.95	3,500	1954	Jan. 25, 1954	4.91	2,090
1948	-	-	0	1955	-	-	0
1949	-	-	0	1956	Jan. 27, 1956	b5.88	-
1950	Feb. 7, 1950	5.10	3,600	1957	-	-	0
1951	-	-	0	1958	Feb. 5, 1958	3.24	123
					Feb. 21, 1958	3.65	385
1952	Jan. 13, 1952	5.55	6,100		Feb. 25, 1958	4.21	2,000
	Jan. 16, 1952	8.18	32,800		Mar. 16, 1958	3.38	625

a Discharge unknown; exceeded base.
b Occurred Jan. 25, 1956, owing to backwater from road enbankment.

Peak stages and discharges of Santa Maria River at Guadalupe, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Mar. 22, 1958	3.66	1,080	1961	-	-	0
	Mar. 28, 1958	3.54	852	1962	Feb. 11, 1962	5.75	7,300
	Apr. 3, 1958	7.30	20,300	1963	-	-	0
				1964	-	-	0
1959	-	-	0	1965	-	-	0
1960	-	-	0				

ARROYO GRANDE BASIN

1413. Arroyo Grande near Arroyo Grande, Calif.

Location.--Lat 35°11'10", long 120°29'55", in NW¼ sec.32, T.31 S., R.14 E., on downstream side of county road bridge, 0.9 mile downstream from Lopez Canyon Creek and 6¼ miles northeast of Arroyo Grande.

Drainage area.--68.3 sq mi.

Gage.--Recording. Altitude of gage is 360 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 570 cfs.

Bankfull stage.--19 ft.

Remarks.--Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Jan. 6, 1959	3.01	45	1962	Feb. 19, 1962	3.16	460
	Feb. 16, 1959	2.66	61		Feb. 26, 1962	2.28	156
					Mar. 6, 1962	1.72	54
1960	Feb. 1, 1960	4.32	700				
				1963	Feb. 10, 1963	1.70	60
1961	-	-	0				
				1964	-	-	0
1962	Jan. 20, 1962	3.89	252				
	Feb. 9, 1962	4.50	1,280	1965	Jan. 6, 1965	-	500
	Feb. 15, 1962	3.87	822		Apr. 10, 1965	6.00	290

1415. Arroyo Grande at Arroyo Grande, Calif.

Location.--Lat 35°07'30", long 120°34'05", in Pismo Grant, on left bank at Arroyo Grande, San Luis Obispo County, 0.7 mile upstream from U.S. Highway 101.

Drainage area.--102 sq mi.

Gage.--Recording. Prior to July 10, 1947, at datum 0.50 ft higher. Datum of gage is 97.77 ft above mean sea level, datum of 1929, supplementary adjustment of 1934.

Stage-discharge relation.--Defined by current-meter measurements below 2,600 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1944. Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Jan. 10, 1940	3.77	565	1944	Mar. 4, 1944	4.78	1,000
1941	Mar. 4, 1941	8.80	3,100	1945	Feb. 2, 1945	4.28	880
1942	Dec. 28, 1941	4.27	775		Mar. 17, 1945	2.93	300
1943	Mar. 9, 1943	8.35	2,800		Mar. 26, 1945	3.31	410

Peak stages and discharges of Arroyo Grande at Arroyo Grande, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Mar. 30, 1946	2.66	230	1956	Jan. 25, 1956	8.53	2,650
					Feb. 23, 1956	2.19	46
1947	Nov. 20, 1946	1.56	62				
				1957	Mar. 23, 1957	1.63	11
1948	Mar. 16, 1948	1.50	31				
				1958	Feb. 3, 1958	2.87	141
1949	Mar. 3, 1949	3.10	216		Feb. 5, 1958	2.39	72
					Feb. 19, 1958	4.78	840
1950	Feb. 6, 1950	5.10	582		Feb. 25, 1958	6.72	1,950
					Mar. 15, 1958	4.76	770
1951	Nov. 20, 1950	1.91	61		Mar. 21, 1958	4.42	650
	May 11, 1951	1.90	64		Mar. 27, 1958	4.70	790
	June 8, 1951	2.00	67		Apr. 1, 1958	10.13	4,030
					Apr. 3, 1958	9.17	3,460
1952	Dec. 3, 1951	1.73	52		Apr. 6, 1958	7.37	2,440
	Dec. 30, 1951	4.91	534				
	Jan. 6, 1952	1.67	47	1959	Jan. 5, 1959	3.68	344
	Jan. 12, 1952	3.80	440		Feb. 16, 1959	2.23	57
	Jan. 15, 1952	11.97	5,370		Feb. 21, 1959	2.09	44
	Jan. 25, 1952	4.66	721				
	Mar. 7, 1952	2.63	155	1960	Feb. 1, 1960	4.30	610
	Mar. 10, 1952	2.42	111		Feb. 10, 1960	2.25	60
	Mar. 15, 1952	7.14	1,900				
	Mar. 19, 1952	3.87	479	1961	Oct. 4, 1960	2.17	51
					Nov. 14, 1960	2.25	59
1953	Nov. 15, 1952	2.38	125		Nov. 26, 1960	2.27	61
	Dec. 1, 1952	2.75	203		Dec. 1, 1960	2.75	122
	Dec. 7, 1952	2.05	70				
	Dec. 28, 1952	2.14	80	1962	Dec. 3, 1961	2.40	85
	Dec. 30, 1952	2.91	252		Jan. 20, 1962	3.54	302
	Jan. 8, 1953	3.42	392		Feb. 9, 1962	6.95	2,130
					Feb. 15, 1962	5.09	1,010
1954	Nov. 14, 1953	2.75	195		Mar. 6, 1962	3.15	248
	Jan. 25, 1954	3.31	308				
	Feb. 18, 1954	1.71	44	1963	Feb. 10, 1963	2.53	97
	Mar. 20, 1954	2.04	52				
	Mar. 30, 1954	2.68	141	1964	Feb. 17, 1964	1.93	28
1955	Jan. 18, 1955	2.37	84	1965	Nov. 1, 1964	2.29	67
					Jan. 7, 1965	3.78	432
1956	Dec. 24, 1955	5.17	812		Apr. 9, 1965	2.81	165

SANTA ROSA CREEK BASIN

1422. Santa Rosa Creek near Cambria, Calif.

Location.--Lat 35°34'35", long 120°59'50", in NE¼ sec.21, T.27 S., R.9 E., on left bank 4.8 miles east of Cambria.

Drainage area.--12.5 sq mi.

Gage.--Recording. Altitude of gage is 270 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 920 cfs and extended above on basis of slope-area measurement at 2,520 cfs.

Bankfull stage.--Not subject to overflow.

Historical data.--Flood of December 1955 reached a stage of 15.2 ft (from floodmarks).

Remarks.--Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	December 1955	15.2	-	1958	Mar. 27, 1958	5.26	448
					Apr. 3, 1958	7.89	1,420
1958	Dec. 16, 1957	6.16	774		Apr. 6, 1958	5.53	529
	Jan. 24, 1958	6.00	710				
	Feb. 2, 1958	5.98	730	1959	Feb. 16, 1959	5.64	563
	Feb. 19, 1958	6.38	902				
	Feb. 24, 1958	7.95	1,440	1960	Feb. 1, 1960	10.36	2,520
	Mar. 15, 1958	5.97	698		Feb. 8, 1960	5.38	484
	Mar. 21, 1958	7.16	1,120				

Peak stages and discharges of Santa Rosa Creek near Cambria, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1961	Dec. 1, 1960	5.26	448	1963	Feb. 9, 1963	-	(a)
	Jan. 26, 1961	5.32	466		Feb. 13, 1963	-	(a)
					Mar. 27, 1963	7.05	1,520
1962	Dec. 1, 1961	4.67	412		Apr. 14, 1963	5.39	676
	Jan. 20, 1962	6.98	1,480				
	Feb. 9, 1962	8.19	2,250	1964	Nov. 19, 1963	5.16	544
	Feb. 15, 1962	6.50	1,200				
	Feb. 19, 1962	4.50	345	1965	Nov. 10, 1964	5.17	457
	Mar. 5, 1962	4.68	408		Dec. 26, 1964	6.01	830
					Jan. 6, 1965	7.40	1,730
1963	Jan. 31, 1963	6.73	1,330		Apr. 9, 1965	5.00	345

a Discharge unknown; exceeded base.

ARROYO DE LA CRUZ BASIN

1425. Arroyo de la Cruz near San Simeon, Calif.

Location.--Lat 35°43'25", long 121°17'00", in Piedra Blanca Grant, on right bank 1.6 miles upstream from mouth and 7 miles northwest of town of San Simeon, San Luis Obispo County.

Drainage area.--41.2 sq mi.

Gage.--Recording. Altitude of gage is 22 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,600 cfs and extended on basis of slope-area measurement at 17,700 cfs.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 3, 1950	7.48	3,350	1957	May 18, 1957	7.03	3,340
	Dec. 8, 1950	5.79	1,390				
	Jan. 11, 1951	6.50	2,120	1958	Dec. 16, 1957	6.70	2,760
	Jan. 18, 1951	6.30	1,900		Jan. 24, 1958	7.06	3,180
					Feb. 2, 1958	7.35	3,570
1952	Dec. 3, 1951	9.95	6,680		Feb. 4, 1958	5.95	2,020
	Dec. 28, 1951	10.75	11,400		Feb. 12, 1958	5.37	1,530
	Jan. 12, 1952	8.40	4,960		Feb. 19, 1958	8.32	5,040
	Jan. 14, 1952	10.80	11,600		Feb. 24, 1958	8.90	6,400
	Jan. 25, 1952	9.00	6,300		Mar. 14, 1958	7.05	3,090
	Mar. 15, 1952	8.03	4,250		Mar. 21, 1958	8.25	5,110
					Mar. 23, 1958	7.35	3,580
1953	Dec. 1, 1952	8.15	3,780		Mar. 27, 1958	5.56	1,460
	Dec. 7, 1952	11.34	11,500		Mar. 30, 1958	6.42	2,340
	Dec. 19, 1952	7.42	2,060		Apr. 3, 1958	8.12	4,980
	Dec. 30, 1952	8.80	4,880		Apr. 5, 1958	7.00	3,220
	Jan. 7, 1953	9.65	7,950				
	Jan. 13, 1953	5.05	1,040	1959	Feb. 10, 1959	7.09	3,220
	Mar. 19, 1953	6.12	1,960		Feb. 16, 1959	8.02	4,830
	Apr. 27, 1953	8.13	4,430		Feb. 21, 1959	5.38	1,390
					Sept.19, 1959	5.94	1,840
1954	Jan. 24, 1954	7.30	3,100				
	Feb. 13, 1954	6.32	1,970	1960	Jan. 24, 1960	7.00	3,080
	Feb. 17, 1954	6.38	2,020		Feb. 1, 1960	12.23	17,000
	Mar. 16, 1954	6.46	2,100		Feb. 8, 1960	7.87	4,430
	Mar. 19, 1954	5.62	1,390				
	Mar. 29, 1954	7.80	3,860	1961	Dec. 1, 1960	5.86	2,080
	Apr. 27, 1954	5.88	1,590		Jan. 26, 1961	6.89	3,170
1955	Dec. 9, 1954	5.95	1,650	1962	Dec. 2, 1961	8.76	6,120
	Jan. 18, 1955	5.90	1,610		Jan. 20, 1962	8.48	5,600
	Apr. 21, 1955	5.40	1,240		Feb. 9, 1962	9.50	7,750
					Feb. 15, 1962	9.38	7,450
1956	Dec. 20, 1955	5.88	1,590		Feb. 18, 1962	6.58	2,470
	Dec. 23, 1955	12.40	17,700		Mar. 5, 1962	6.83	2,820
	Dec. 26, 1955	6.30	2,510				
	Jan. 25, 1956	11.70	14,900	1963	Oct. 14, 1962	5.52	1,250
	Feb. 23, 1956	8.25	5,190		Dec. 16, 1962	6.65	2,620
					Jan. 31, 1963	11.41	13,700
1957	Feb. 24, 1957	7.08	3,410		Feb. 9, 1963	6.23	2,130

Peak stages and discharges of Arroyo de la Cruz near San Simeon, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1963	Feb. 13, 1963	5.90	1,800	1965	Nov. 10, 1964	5.60	1,500
	Mar. 16, 1963	5.14	1,130		Dec. 19, 1964	5.13	1,120
	Mar. 27, 1963	6.30	2,200		Dec. 21, 1964	5.22	1,180
	Apr. 14, 1963	6.46	2,390		Jan. 3, 1965	6.78	2,780
1964	Nov. 14, 1963	5.91	1,810		Jan. 6, 1965	9.04	6,680
	Nov. 19, 1963	11.51	14,100		Apr. 9, 1965	6.17	2,070
	Jan. 21, 1964	6.72	2,700				

BIG SUR RIVER BASIN

1430. Big Sur River near Big Sur, Calif.
(Published as Sur River at Big Sur prior to October 1959)

Location.--Lat 36°14'45", long 121°46'20", in SW¼SW¼ sec.29, T.19 S., R.2 E., on right bank at downstream side of bridge, 0.4 mile upstream from Post Creek and 2.6 miles southeast of Big Sur.

Drainage area.--46.5 sq mi.

Gage.--Nonrecording at site 0.9 mile downstream at different datum prior to Oct. 1, 1951; recording thereafter. Altitude of gage is 400 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs prior to Oct. 1, 1951; below 1,400 cfs and extended above on basis of slope-area measurement at 5,220 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peak is shown for 1951. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 19, 1950	9.8	4,200	1958	Feb. 2, 1958	5.84	1,010
					Feb. 19, 1958	5.85	1,010
1952	Dec. 3, 1951	7.14	1,890		Feb. 24, 1958	6.86	1,700
	Dec. 28, 1951	8.82	3,180		Mar. 15, 1958	6.64	1,510
	Jan. 12, 1952	8.94	3,290		Mar. 21, 1958	6.33	1,290
	Jan. 14, 1952	9.90	4,150		Apr. 2, 1958	11.56	5,680
	Jan. 25, 1952	8.76	3,120		Apr. 5, 1958	7.41	2,050
	Mar. 15, 1952	6.93	1,710				
	Mar. 18, 1952	6.07	1,120	1959	Feb. 16, 1959	6.02	1,030
					Sept.19, 1959	6.22	1,170
1953	Dec. 1, 1952	5.73	945				
	Dec. 7, 1952	8.52	2,920	1960	Jan. 24, 1960	5.58	820
	Jan. 8, 1953	6.52	1,400		Feb. 1, 1960	7.72	2,280
	Jan. 13, 1953	5.32	744		Feb. 8, 1960	6.25	1,280
	Mar. 19, 1953	6.63	1,450				
	Apr. 27, 1953	6.04	1,100	1961	Dec. 1, 1960	5.45	760
1954	Jan. 17, 1954	5.94	1,050	1962	Feb. 10, 1962	8.67	3,040
	Feb. 13, 1954	5.64	900		Feb. 15, 1962	8.80	3,160
	Feb. 17, 1954	5.56	860		Mar. 5, 1962	5.48	820
1955	Dec. 2, 1954	5.18	630	1963	Oct. 13, 1962	7.43	2,040
					Feb. 1, 1963	11.23	5,400
1956	Dec. 20, 1955	5.98	1,070		Feb. 10, 1963	5.68	918
	Dec. 23, 1955	11.05	5,220		Apr. 14, 1963	6.30	1,340
	Dec. 26, 1955	7.14	1,840				
	Jan. 1, 1956	5.82	1,000	1964	Nov. 5, 1963	5.64	924
	Jan. 25, 1956	8.18	2,640		Nov. 14, 1963	5.31	726
	Feb. 22, 1956	8.16	2,630		Nov. 19, 1963	5.71	966
					Jan. 20, 1964	6.48	1,470
1957	Feb. 24, 1957	7.43	2,010				
	May 18, 1957	6.38	1,250	1965	Dec. 22, 1964	5.38	768
					Dec. 26, 1964	5.57	882
1958	Dec. 16, 1957	5.55	741		Jan. 3, 1965	5.40	780
	Jan. 24, 1958	7.15	1,870		Jan. 6, 1965	7.37	2,100

1432. Carmel River at Robles del Rio, Calif.

Location.--Lat 36°28'28", long 121°43'40", in Los Laureles Grant, on downstream side of county road bridge at Robles del Rio, Monterey County, 0.2 mile downstream from Hitchcock Canyon and 11 miles southeast of town of Carmel.

Drainage area.--193 sq mi.

Gage.--Recording. Altitude of gage is 270 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,700 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by Los Padres Reservoir (capacity, 3,000 acre-ft) and San Clemente Reservoir (capacity, 1,600 acre-ft) beginning prior to 1955. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 23, 1955	11.7	6,900	1960	Feb. 2, 1960	5.46	838
1958	Jan. 26, 1958	7.32	1,140	1961	Jan. 26, 1961	3.12	22
	Feb. 3, 1958	7.87	1,660				
	Feb. 19, 1958	8.55	2,250	1962	Feb. 10, 1962	7.70	2,490
	Feb. 24, 1958	8.63	2,330		Feb. 15, 1962	7.58	2,340
	Mar. 16, 1958	8.23	1,960				
	Mar. 21, 1958	8.60	2,300	1963	Jan. 31, 1963	9.60	4,950
	Mar. 27, 1958	6.95	1,040		Apr. 15, 1963	6.46	1,120
	Apr. 2, 1958	10.50	7,100				
	Apr. 6, 1958	8.00	3,040	1964	Jan. 21, 1964	6.60	995
1959	Feb. 16, 1959	7.50	2,500	1965	Jan. 7, 1965	6.95	1,220

SALINAS RIVER BASIN

1435. Salinas River near Pozo, Calif.

Location.--Lat 35°18'20", long 120°24'20", in SW¼SE¼ sec.18, T.30 S., R.15 E., on right bank 0.4 mile downstream from highway bridge, 1.5 miles downstream from Pozo Creek, 1.7 miles west of Pozo, and 7 miles upstream from Salinas Dam.

Drainage area.--74.1 sq mi.

Gage.--Recording. Altitude of gage is 1,350 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,500 cfs.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1948. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Jan. 21, 1943	13.35	7,210	1952	Dec. 5, 1951	6.47	-
1944	Feb. 22, 1944	9.09	2,230		Dec. 30, 1951	9.23	1,730
1945	Feb. 2, 1945	11.35	3,530		Jan. 12, 1952	10.46	3,510
					Jan. 15, 1952	12.5	5,750
1946	Mar. 29, 1946	8.48	1,540		Jan. 25, 1952	6.70	830
1947	Nov. 20, 1946	7.37	966		Mar. 7, 1952	6.05	562
1948	Apr. 10, 1948	4.55	82		Mar. 15, 1952	10.65	3,700
1949	Mar. 4, 1949	5.77	347	1953	Nov. 15, 1952	4.56	137
	Mar. 10, 1949	-	225		Dec. 1, 1952	6.15	638
					Dec. 19, 1952	4.63	125
1950	Feb. 6, 1950	9.60	2,000		Dec. 27, 1952	4.73	170
	Apr. 8, 1950	-	208		Dec. 30, 1952	5.47	443
					Jan. 8, 1953	6.11	624
1951	Jan. 19, 1951	5.71	196				

Peak stages and discharges of Salinas River near Pozo, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 24, 1954	8.05	1,530	1959	Feb. 16, 1959	4.97	354
	Feb. 13, 1954	5.80	553				
	Feb. 17, 1954	5.17	320	1960	Feb. 1, 1960	6.55	805
	Mar. 20, 1954	4.82	217		Feb. 10, 1960	4.08	100
	Mar. 30, 1954	4.94	251				
				1961	Dec. 1, 1960	3.94	68
1955	Jan. 31, 1955	4.62	115				
	Feb. 27, 1955	4.79	142	1962	Dec. 2, 1961	4.15	116
					Jan. 20, 1962	5.52	496
1956	Dec. 23, 1955	6.67	815		Feb. 9, 1962	9.90	2,960
	Jan. 25, 1956	10.65	3,920		Feb. 15, 1962	5.86	598
					Feb. 19, 1962	6.12	676
1957	May 19, 1957	3.79	40		Mar. 6, 1962	4.77	294
1958	Jan. 26, 1958	5.26	371	1963	Feb. 1, 1963	4.01	132
	Feb. 4, 1958	6.34	805		Feb. 10, 1963	5.67	541
	Feb. 19, 1958	5.65	536		Feb. 13, 1963	3.97	116
	Feb. 25, 1958	8.79	2,220		Apr. 15, 1963	4.97	343
	Mar. 15, 1958	8.78	2,090		Apr. 20, 1963	4.48	226
	Mar. 21, 1958	7.38	1,330		Apr. 25, 1963	3.92	105
	Mar. 27, 1958	6.00	643				
	Mar. 30, 1958	5.11	316	1964	Nov. 19, 1963	a3.77	34
	Apr. 3, 1958	11.26	4,360				
	Apr. 6, 1958	8.95	2,200	1965	Jan. 6, 1965	6.12	676
					Apr. 9, 1965	6.95	960
1959	Feb. 11, 1959	4.61	255				

a Occurred May 12, 1964; backwater from beaver dam.

1470. Jack Creek near Templeton, Calif.

Location.--Lat 35°34', long 120°48', in Paso de Robles Grant, on left bank 1.4 miles upstream from mouth, 1.8 miles northwest of Oakdale School, and 5.6 miles west of Templeton, San Luis Obispo County.

Drainage area.--25.3 sq mi.

Gage.--Recording. Altitude of gage is 980 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,500 cfs and extended above on basis of slope-area measurement at 5,040 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 14, 1950	-	1,280	1956	Dec. 26, 1955	5.47	855
	Feb. 6, 1950	6.30	1,350		Dec. 31, 1955	5.11	684
	Mar. 24, 1950	-	707		Jan. 25, 1956	9.56	5,040
					Feb. 23, 1956	4.95	612
1951	Nov. 19, 1950	5.51	911				
				1957	May 18, 1957	4.56	488
1952	Dec. 4, 1951	6.89	1,810				
	Dec. 28, 1951	6.67	1,640	1958	Dec. 16, 1957	4.98	622
	Jan. 12, 1952	5.72	1,040		Jan. 24, 1958	6.14	1,260
	Jan. 15, 1952	7.81	2,690		Feb. 4, 1958	5.00	625
	Jan. 25, 1952	6.58	1,560		Feb. 19, 1958	6.46	1,520
	Mar. 15, 1952	5.68	1,020		Feb. 24, 1958	7.19	2,080
					Mar. 15, 1958	6.15	1,270
1953	Dec. 1, 1952	4.72	516		Mar. 21, 1958	5.83	1,040
	Dec. 7, 1952	6.83	1,760		Mar. 27, 1958	4.80	522
	Dec. 28, 1952	5.00	635		Apr. 3, 1958	8.01	2,940
	Dec. 30, 1952	5.88	1,160		Apr. 6, 1958	5.56	894
	Jan. 7, 1953	5.83	1,120				
				1959	Feb. 16, 1959	6.12	1,270
1954	Jan. 24, 1954	5.41	856				
	Feb. 14, 1954	5.42	861	1960	Feb. 1, 1960	8.48	3,490
	Feb. 17, 1954	4.72	516		Feb. 8, 1960	4.86	545
	Mar. 19, 1954	4.85	569				
				1961	Dec. 1, 1960	5.36	795
1955	Jan. 18, 1955	5.39	815				
	Feb. 27, 1955	6.34	1,380	1962	Dec. 1, 1961	5.17	700
					Jan. 20, 1962	7.62	2,490
1956	Dec. 23, 1955	6.50	1,500		Feb. 9, 1962	9.08	4,320

Peak stages and discharges of Jack Creek near Templeton, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1962	Feb. 15, 1962	7.37	2,240	1964	Nov. 19, 1963	4.65	450
	Mar. 6, 1962	4.83	530	1965	Dec. 26, 1964	5.14	685
1963	Jan. 31, 1963	6.90	1,820		Jan. 6, 1965	6.42	1,440
	Feb. 9, 1963	5.26	745		Apr. 4, 1965	5.01	620
	Mar. 28, 1963	5.91	1,100				

1475. Salinas River at Paso Robles, Calif.

Location.--Lat 35°37'40", long 120°41'05", in Paso de Robles Grant, on downstream side of left pier of bridge on State Highway 41 at Paso Robles, San Luis Obispo County, 3.5 miles upstream from Huerhuero Creek.

Drainage area.--389 sq mi.

Gage.--Nonrecording prior to June 14, 1951; recording thereafter. Datum of gage is 670.61 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs and extended above on basis of velocity-area studies.

Bankfull stage.--Not subject to overflow.

Historical data.--Flood of Feb. 10-13, 1938, reached a stage of 16.9 ft.

Remarks.--Peaks regulated by Salinas Reservoir (capacity, 26,000 acre-ft) beginning in 1941. Peaks in the years 1947 and 1950 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1950. Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Feb. 10-13, 1938	16.9	-	1957	May 19, 1957	7.30	340
1940	Jan. 10, 1940	11.32	4,420	1958	Jan. 25, 1958	9.77	2,030
					Feb. 4, 1958	11.17	2,950
1941	Mar. 5, 1941	13.65	9,870		Feb. 19, 1958	12.25	4,780
1942	Jan. 25, 1942	12.3	6,700		Feb. 25, 1958	12.80	5,600
1943	Mar. 9, 1943	16.2	14,200		Mar. 16, 1958	11.95	4,120
1944	Feb. 22, 1944	12.55	6,590		Mar. 22, 1958	11.52	3,570
1945	Feb. 2, 1945	12.35	6,260		Mar. 27, 1958	10.48	2,410
					Mar. 30, 1958	10.07	2,060
1946	Mar. 30, 1946	9.62	2,500		Apr. 3, 1958	17.24	13,000
1947	Nov. 23, 1946	8.30	1,080		Apr. 7, 1958	14.18	7,530
1948	Apr. 10, 1948	10.0	2,930				
1949	Mar. 4, 1949	11.3	4,650	1959	Feb. 16, 1959	9.26	978
1950	Feb. 6, 1950	11.03	4,260				
				1960	Feb. 1, 1960	11.27	3,060
1951	Dec. 3, 1950	8.74	1,650				
				1961	-	-	0
1952	Dec. 5, 1951	8.68	1,500				
	Dec. 30, 1951	10.58	3,340	1962	Jan. 20, 1962	10.02	2,120
	Jan. 15, 1952	14.45	8,580		Feb. 9, 1962	15.18	9,460
	Jan. 25, 1952	12.54	5,860		Feb. 15, 1962	13.44	6,330
	Mar. 15, 1952	13.85	7,690		Feb. 18, 1962	10.72	2,470
					Mar. 6, 1962	10.38	2,050
1953	Dec. 7, 1952	10.04	2,510				
	Dec. 30, 1952	9.00	1,540	1963	Feb. 1, 1963	11.09	2,530
	Jan. 8, 1953	10.43	2,750		Feb. 10, 1963	10.57	1,960
					Mar. 28, 1963	10.21	1,580
1954	Jan. 25, 1954	8.88	1,460				
				1964	Jan. 22, 1964	8.12	237
1955	Jan. 18, 1955	8.03	1,040				
				1965	Jan. 6, 1965	11.78	3,420
1956	Dec. 24, 1955	10.95	2,900		Apr. 9, 1965	10.21	1,710
	Dec. 26, 1955	9.62	1,710				
	Jan. 25, 1956	16.73	12,000				

1476. Huerhuero Creek near Creston, Calif.

Location.--Lat 35°35'00", long 120°33'15", in NE¼ sec.15, T.27 S., R.13 E., on left bank 1 mile northwest of Geneseo School and 4.6 miles northwest of Creston.

Drainage area.--101 sq mi.

Gage.--Recording. Altitude of gage is 930 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 140 cfs and extended above on basis of slope-area measurement at 808 cfs.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 11, 1959	3.10	78	1962	Feb. 18, 1962	5.37	681
	Feb. 16, 1959	3.20	96		Feb. 20, 1962	4.47	411
					Mar. 6, 1962	3.86	250
1960	Feb. 1, 1960	2.57	2.5				
				1963	Feb. 9, 1963	2.30	4.6
1961	Jan. 26, 1961	2.58	4.8				
				1964	Jan. 22, 1964	2.68	36
1962	Feb. 9, 1962	5.75	808				
	Feb. 11, 1962	3.56	182	1965	Apr. 9, 1965	2.15	1.6
	Feb. 16, 1962	3.57	184				

1485. Estrella Creek near Estrella, Calif.

Location.--Lat 35°42'35", long 120°38'20", in NW¼NW¼ sec.36, T.25 S., R.12 E., on right bank 0.2 mile downstream from mouth of Ranchito Canyon and 1.9 miles northwest of Estrella.

Drainage area.--924 sq mi, not including Carrizo Plains.

Gage.--Recording. Altitude of gage is 710 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of slope-area measurement at 8,850 cfs.

Remarks.--Low peaks may be affected by pumpage upstream for irrigation. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Jan. 19, 1955	2.84	220	1959	Feb. 17, 1959	3.02	395
	Feb. 27, 1955	2.83	250				
				1960	Feb. 1, 1960	2.36	60
1956	Dec. 25, 1955	3.33	637				
	Jan. 25, 1956	3.92	1,310	1961	Dec. 1, 1960	2.14	16
1957	Dec. 24, 1956	2.13	15	1962	Feb. 9, 1962	3.32	628
					Feb. 12, 1962	5.02	3,140
1958	Feb. 4, 1958	2.84	275		Feb. 16, 1962	3.13	474
	Feb. 19, 1958	4.00	1,440		Feb. 19, 1962	4.22	1,730
	Mar. 15, 1958	2.90	305		Mar. 6, 1962	-	(a)
	Mar. 17, 1958	4.26	2,140				
	Mar. 22, 1958	3.85	1,240	1963	Feb. 1, 1963	2.83	278
	Mar. 28, 1958	2.72	214		Feb. 9, 1963	3.48	780
	Apr. 1, 1958	4.10	1,590				
	Apr. 3, 1958	7.05	8,410	1964	Nov. 19, 1963	2.29	48
	Apr. 6, 1958	7.20	8,850	1965	Apr. 10, 1965	2.10	11

a Discharge unknown; exceeded base.

1488. Nacimiento River near Bryson, Calif.

Location.--Lat 35°48'06", long 121°06'50", in NW¼ sec.33, T.24 S., R.8 E., on right bank 0.6 mile upstream from Turtle Creek, 1.6 miles west of Bryson, and 10 miles southwest of Lockwood.

Drainage area.--140 sq mi.

Gage.--Recording. Altitude of gage is 860 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above on basis of slope-area measurement at 30,300 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 27, 1955	24.63	30,300	1960	Feb. 1, 1960	15.52	12,300
	Dec. 26, 1955	14.12	9,790				
	Jan. 25, 1956	17.00	14,700	1961	Dec. 1, 1960	12.98	8,070
	Feb. 23, 1956	11.66	6,260				
				1962	Dec. 2, 1961	12.14	6,900
1957	Jan. 13, 1957	10.12	4,300		Jan. 20, 1962	11.60	5,900
	Feb. 24, 1957	12.60	7,540		Feb. 9, 1962	18.02	16,600
					Feb. 15, 1962	18.45	17,500
1958	Jan. 24, 1958	13.51	9,000		Mar. 6, 1962	10.88	4,860
	Feb. 3, 1958	12.54	7,580				
	Feb. 19, 1958	13.16	8,480	1963	Jan. 31, 1963	21.08	22,800
	Feb. 24, 1958	15.84	12,800		Feb. 9, 1963	10.54	4,420
	Mar. 15, 1958	13.08	8,130				
	Mar. 21, 1958	15.25	11,800	1964	Jan. 21, 1964	11.71	6,070
	Apr. 3, 1958	20.96	23,100				
	Apr. 6, 1958	11.30	5,980	1965	Jan. 3, 1965	10.27	4,080
					Jan. 6, 1965	14.80	11,700
1959	Feb. 16, 1959	14.78	11,100				

1495. Nacimiento River near San Miguel, Calif.

Location.--Lat 35°47'00", long 120°47'24", in SE¼ sec.4, T.25 S., R.11 E., 4 miles upstream from mouth and 5.5 miles northwest of San Miguel.

Drainage area.--343 sq mi.

Gage.--Recording. Datum of gage is 555.48 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 23,000 cfs and extended above on basis of slope-area measurement at 58,600 cfs.

Historical data.--Flood of February 1938 reached a peak stage of 9.2 ft, discharge 41,000 cfs, from slope-area measurement.

Remarks.--Flow regulated by Nacimiento Reservoir (usable capacity, 340,000 acre-ft) beginning in November 1956. Only annual peaks are shown in 1938, 1940-47 and 1957. Base for partial-duration series, 9,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	February 1938	9.2	41,000	1948	Apr. 10, 1948	6.00	9,160
1940	Feb. 28, 1940	6.74	17,100	1949	Mar. 3, 1949	9.24	27,500
1941	Apr. 4, 1941	8.16	28,100	1950	Feb. 5, 1950	-	11,600
1942	Jan. 25, 1942	9.15	36,200		Feb. 6, 1950	7.39	15,000
1943	Jan. 21, 1943	10.45	50,800				
1944	Feb. 29, 1944	7.85	24,600	1951	Nov. 19, 1950	7.60	15,400
1945	Feb. 2, 1945	9.73	42,300				
				1952	Dec. 29, 1951	9.32	27,500
1946	Dec. 22, 1945	6.82	12,200		Jan. 12, 1952	8.72	23,300
1947	Nov. 23, 1946	5.58	7,340		Jan. 15, 1952	12.57	53,100

Peak stages and discharges of Nacimiento River near San Miguel, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 25, 1952	7.87	17,800	1956	Dec. 23, 1955	13.15	58,600
	Mar. 15, 1952	8.80	23,900		Dec. 26, 1955	7.64	16,400
					Jan. 25, 1956	10.27	34,200
1953	Dec. 7, 1952	8.17	19,600		Feb. 23, 1956	6.28	9,820
1954	Feb. 14, 1954	5.73	7,860	1957	Mar. 15-19, 1957	1.64	535
1955	Jan. 18, 1955	5.32	5,460				

1500. San Antonio River at Pleyto, Calif.

Location.--Lat 35°51'55", long 120°59'30", in Pleyto Grant, on downstream side of left abutment of highway bridge at old townsite of Pleyto, Monterey County, 1.1 miles downstream from Copperhead Creek and 15 miles west of Bradley.

Drainage area.--284 sq mi.

Gage.--Recording. Prior to May 10, 1939, at datum 1.00 ft higher. Altitude of gage is 720 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,500 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 470 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Feb. 22, 1930	3.04	1,110	1953	Dec. 7, 1952	3.00	990
					Jan. 8, 1953	3.65	1,570
1931	Jan. 9, 1931	1.21	59		Mar. 20, 1953	2.60	700
1932	Dec. 28, 1931	4.55	7,460				
1933	Jan. 29, 1933	2.03	624	1954	Feb. 14, 1954	3.00	990
1934	Jan. 1, 1934	3.56	3,120		Feb. 18, 1954	2.71	777
1935	Apr. 8, 1935	3.96	4,650				
				1955	Jan. 19, 1955	1.88	324
1936	Feb. 22, 1936	3.83	4,100				
1937	Feb. 14, 1937	4.49	6,390	1956	Dec. 23, 1955	5.84	14,500
1938	Feb. 11, 1938	5.10	12,500		Dec. 26, 1955	4.30	2,850
1939	Mar. 10, 1939	1.14	317		Dec. 31, 1955	3.32	1,110
1940	Feb. 28, 1940	5.47	10,300		Jan. 25, 1956	5.32	8,800
					Feb. 23, 1956	3.10	900
1941	Feb. 11, 1941	5.58	11,400				
1942	Jan. 25, 1942	5.42	9,800	1957	Feb. 25, 1957	4.10	2,500
1943	Jan. 22, 1943	5.54	11,000				
				1958	Jan. 26, 1958	3.81	1,940
1944	Feb. 22, 1944	-	1,200		Feb. 4, 1958	3.64	1,700
	Feb. 29, 1944	-	2,420		Feb. 8, 1958	2.75	743
	Mar. 4, 1944	4.36	3,030		Feb. 13, 1958	2.43	545
					Feb. 19, 1958	4.71	3,840
1945	Feb. 2, 1945	5.85	13,500		Feb. 25, 1958	5.25	5,680
	Mar. 26, 1945	-	958		Mar. 16, 1958	5.08	4,480
					Mar. 22, 1958	5.18	4,970
1946	Dec. 22, 1945	3.82	1,870		Mar. 27, 1958	3.82	1,700
	Dec. 25, 1945	-	1,300		Mar. 30, 1958	3.64	1,480
					Apr. 3, 1958	6.44	19,100
1947	Nov. 23, 1946	2.87	909		Apr. 6, 1958	4.80	3,490
1948	Apr. 10, 1948	1.90	344	1959	Jan. 10, 1959	3.10	1,120
					Feb. 11, 1959	2.51	660
1949	Mar. 4, 1949	3.02	1,420		Feb. 16, 1959	3.84	2,350
	Mar. 11, 1949	-	910		Feb. 21, 1959	3.16	1,200
1950	Feb. 5, 1950	4.56	4,010	1960	Feb. 2, 1960	4.06	2,440
					Feb. 9, 1960	2.84	910
1951	Nov. 19, 1950	4.20	2,940				
	Dec. 4, 1950	3.25	1,390	1961	Jan. 27, 1961	1.23	84
1952	Dec. 5, 1951	2.06	496	1962	Feb. 9, 1962	5.44	6,710
	Dec. 29, 1951	4.82	4,980		Feb. 15, 1962	5.50	7,200
	Jan. 12, 1952	4.43	3,590		Feb. 19, 1962	3.20	940
	Jan. 15, 1952	5.55	11,200		Mar. 6, 1962	3.13	884
	Jan. 25, 1952	5.51	10,700				
	Mar. 15, 1952	4.08	2,250	1963	Jan. 31, 1963	6.35	14,800

Peak stages and discharges of San Antonio River at Pleyto, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1963	Feb. 10, 1963	3.73	1,480	1965	Dec. 27, 1964	2.95	546
	Feb. 13, 1963	3.53	1,240		Jan. 3, 1965	3.74	1,670
	Mar. 28, 1963	2.77	588		Jan. 6, 1965	4.49	3,900
	Apr. 15, 1963	3.20	980				
1964	Jan. 22, 1964	2.71	630				

1505. Salinas River near Bradley, Calif.

Location.--Lat 35°55'40", long 120°52'00", in NE¼ sec.15, T.23 S., R.10 E., on left bank 6 miles northwest of Bradley and 7 miles downstream from San Antonio River.

Drainage area.--2,536 sq mi.

Gage.--Recording. Altitude of gage is 450 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 19,000 cfs.

Bankfull stage.-- Not subject to overflow.

Remarks.--Peaks partly regulated by Salinas Reservoir (usable capacity, 26,000 acre-ft) beginning in December 1941 and Nacimiento Reservoir (usable capacity, 340,000 acre-ft) beginning in November 1956. Only annual peaks are shown subsequent to 1956. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Mar. 3, 1949	10.79	15,200	1954	Feb. 14, 1954	8.77	8,690
	Mar. 11, 1949	-	6,990		Feb. 18, 1954	7.61	4,910
					Mar. 21, 1954	7.30	4,080
1950	Jan. 14, 1950	-	4,440				
	Feb. 6, 1950	10.66	15,500	1955	Jan. 18, 1955	7.76	5,330
1951	Nov. 19, 1950	10.18	12,800	1956	Dec. 24, 1955	12.01	25,000
	Dec. 4, 1950	7.88	4,720		Dec. 26, 1955	10.00	14,000
					Dec. 31, 1955	7.14	4,590
1952	Dec. 5, 1951	7.84	4,630		Jan. 27, 1956	11.22	20,200
	Dec. 30, 1951	10.09	16,200		Feb. 23, 1956	8.23	7,290
	Jan. 12, 1952	10.82	19,400				
	Jan. 15, 1952	12.35	26,800	1957	Feb. 25, 1957	5.58	1,840
	Jan. 25, 1952	10.74	19,100	1958	Apr. 3, 1958	12.53	28,400
	Mar. 16, 1952	11.07	20,600	1959	Feb. 25, 1959	6.58	2,910
				1960	Feb. 2, 1960	5.30	940
1953	Dec. 7, 1952	9.73	14,500				
	Dec. 31, 1952	7.63	5,790	1962	Feb. 10, 1962	9.78	11,700
	Jan. 9, 1953	9.35	11,000	1963	Feb. 1, 1963	9.87	12,200
				1964	Jan. 31, 1964	4.61	708
1954	Jan. 25, 1954	8.22	6,750	1965	Jan. 7, 1965	7.42	4,720

1513. San Lorenzo Creek below Bitterwater Creek, near King City, Calif.

Location.--Lat 36°16'05", long 121°03'50", in NW¼ sec.24, T.19 S., R.8 E., on left bank 1.2 miles downstream from Bitterwater Creek, 5 miles northeast of King City, and 10 miles upstream from mouth.

Drainage area.--233 sq mi.

Gage.--Recording. Altitude of gage is 480 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges of San Lorenzo Creek below Bitterwater Creek, near King City, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 18, 1959	6.39	1,030	1963	Jan. 31, 1963	6.30	940
	Feb. 21, 1959	5.16	504		Feb. 10, 1963	8.13	2,130
					Feb. 13, 1963	5.73	635
1960	Feb. 2, 1960	4.45	133		Mar. 28, 1963	5.29	424
1961	Dec. 1, 1960	4.91	294	1964	Nov. 20, 1963	6.10	585
					Jan. 22, 1964	4.92	145
1962	Dec. 2, 1961	5.03	290				
	Feb. 9, 1962	8.02	2,050	1965	Jan. 6, 1965	5.29	256
	Feb. 15, 1962	7.70	1,830		Apr. 9, 1965	5.28	253
	Feb. 19, 1962	4.69	222				
	Mar. 6, 1962	5.44	498				

1520. Arroyo Seco near Soledad, Calif.

Location.--Lat 36°16'50", long 121°19'20", in sec.16, T.19 S., R.6 E., on left bank just downstream from bridge, 1.5 miles downstream from Vaquero Creek and 10 miles south of Soledad.

Drainage area.--244 sq mi.

Gage.--Nonrecording prior to June 16, 1929; recording thereafter. Prior to Dec. 3, 1941, at site 1 mile upstream at different datum. Dec. 3, 1941, to Sept. 30, 1959, at datum 2.00 ft higher. Datum of gage is 342.20 ft above mean sea level (Corps of Engineers bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 7,500 cfs prior to Dec. 3, 1941; below 4,600 cfs and extended above on basis of slope-area measurement at 27,700 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks for the years 1906-12, 1915-18, 1921-25 and 1929, are maximum observed. Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Jan. 13, 1906	16.4	10,800	1934	Jan. 1, 1934	11.01	7,110
1907	Mar. 23, 1907	16.3	10,700	1935	Apr. 8, 1935	12.12	8,340
1908	Feb. 2, 1908	9.3	2,520				
1909	Jan. 26, 1909	14.0	7,400	1936	Feb. 13, 1936	13.70	11,100
1910	Mar. 21, 1910	10.8	3,710	1937	Feb. 13, 1937	14.42	12,200
				1938	Feb. 11, 1938	16.5	16,000
1911	Mar. 6, 1911	20.0	17,300	1939	Mar. 9, 1939	5.96	1,380
1912	Mar. 12, 1912	7.6	1,350	1940	Feb. 27, 1940	15.0	13,600
1913	Jan. 15, 1913	8.4	1,900				
1914	Jan. 25, 1914	20.5	17,500	1941	Apr. 4, 1941	13.00	10,600
1915	Feb. 9, 1915	12.2	7,200	1942	Jan. 24, 1942	11.10	14,100
				1943	Jan. 21, 1943	11.55	16,100
1916	Jan. 17, 1916	15.3	13,700				
1917	Feb. 21, 1917	16.5	16,000	1944	Feb. 3, 1944	-	2,150
1918	Mar. 12, 1918	9.4	5,030		Feb. 21, 1944	-	1,710
1919	Feb. 10, 1919	10.0	5,800		Feb. 29, 1944	-	5,460
1920	Apr. 15, 1920	9.0	4,550		Mar. 4, 1944	9.20	7,100
1921	Jan. 30, 1921	12.0	8,500	1945	Feb. 2, 1945	12.55	21,100
1922	Feb. 9, 1922	15.8	14,600		Mar. 15, 1945	-	1,680
1923	Dec. 10, 1922	6.75	2,040		Mar. 25, 1945	-	1,660
1924	Jan. 27, 1924	6.70	1,900				
1925	Nov. 9, 1924	-	-	1946	Dec. 5, 1945	-	1,880
	Feb. 23, 1925	5.9	1,300		Dec. 21, 1945	10.47	11,600
					Dec. 25, 1945	-	3,260
1926	Feb. 13, 1926	12.0	8,500				
1927	Nov. 27, 1926	16.5	16,000	1947	Nov. 20, 1946	7.55	3,480
1928	Mar. 24, 1928	10.0	5,800		Nov. 23, 1946	-	3,370
1929	Feb. 3, 1929	9.5	5,150				
1930	Mar. 4, 1930	9.03	4,590	1948	Apr. 9, 1948	5.22	972
				1949	Mar. 3, 1949	7.60	3,460
1931	Jan. 1, 1931	5.35	810		Mar. 11, 1949	-	3,030
1932	Dec. 27, 1931	13.70	11,100				
1933	Jan. 29, 1933	7.31	2,340	1950	Jan. 14, 1950	-	3,030

Peak stages and discharges of Arroyo Seco near Soledad, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Feb. 4, 1950	9.63	8,460
	Feb. 6, 1950	-	4,420
1951	Nov. 19, 1950	12.46	20,600
	Dec. 3, 1950	8.18	4,540
1952	Dec. 3, 1951	7.68	3,590
	Dec. 28, 1951	10.38	11,200
	Jan. 12, 1952	11.14	14,300
	Jan. 14, 1952	11.32	15,000
	Jan. 25, 1952	9.35	7,550
	Mar. 15, 1952	8.77	5,900
1953	Dec. 1, 1952	6.47	2,000
	Dec. 7, 1952	9.80	9,050
	Jan. 8, 1952	6.98	2,640
	Mar. 19, 1953	7.58	3,250
	Apr. 27, 1953	5.95	1,550
1954	Feb. 13, 1954	7.33	3,120
	Feb. 17, 1954	5.82	1,450
1955	Dec. 2, 1954	6.17	1,740
	Apr. 21, 1955	6.50	2,080
1956	Dec. 20, 1955	7.24	2,580
	Dec. 23, 1955	14.30	27,700
	Dec. 26, 1955	9.30	7,400
	Dec. 31, 1955	6.39	1,490
	Jan. 25, 1956	10.52	11,500
	Feb. 23, 1956	8.05	4,320
1957	Jan. 13, 1957	7.12	2,730
	Feb. 25, 1957	8.36	4,950
	May 19, 1957	6.80	2,400
1958	Jan. 24, 1958	9.36	7,220
	Feb. 3, 1958	8.18	4,580
	Feb. 19, 1958	8.47	5,300
1958	Feb. 25, 1958	9.94	9,840
	Mar. 15, 1958	9.67	8,900
	Mar. 21, 1958	9.26	7,700
	Mar. 27, 1958	6.63	2,360
	Apr. 3, 1958	14.40	28,300
	Apr. 6, 1958	9.00	5,600
1959	Jan. 10, 1959	6.82	1,950
	Feb. 16, 1959	9.27	6,120
	Feb. 18, 1959	6.53	1,940
	Feb. 21, 1959	5.95	1,450
1960	Feb. 1, 1960	11.56	6,580
	Feb. 8, 1960	9.80	3,460
1961	Dec. 1, 1960	9.15	2,600
1962	Dec. 2, 1961	8.48	1,880
	Jan. 20, 1962	8.08	1,530
	Feb. 9, 1962	12.77	10,300
	Feb. 15, 1962	12.08	8,240
	Mar. 6, 1962	9.22	2,680
1963	Oct. 14, 1962	9.10	2,800
	Jan. 31, 1963	15.55	24,300
	Feb. 9, 1963	9.71	3,570
	Feb. 13, 1963	8.73	1,850
	Mar. 28, 1963	9.10	2,400
	Apr. 7, 1963	8.45	1,460
	Apr. 14, 1963	9.74	3,630
1964	Nov. 6, 1963	8.73	1,850
	Nov. 19, 1963	9.15	2,480
	Jan. 21, 1964	10.34	4,850
1965	Dec. 23, 1964	8.84	1,700
	Dec. 27, 1964	9.72	3,470
	Jan. 3, 1965	9.36	2,610
	Jan. 6, 1965	11.40	7,700

1525. Salinas River near Spreckels, Calif.

Location.--Lat 36°37'50", long 121°40'40", in El Toro Grant, on right bank 80 ft upstream from bridge on Salinas-Monterey highway, 0.5 mile upstream from Toro Creek, 2 miles west of Spreckels, Monterey County, and 4 miles south of Salinas. Auxiliary gage on first pier near left end of bridge.

Drainage area.--4,156 sq mi.

Gage.--Recording. Datum of gage is 19.87 ft above mean sea level, datum of 1929, supplementary adjustment of 1955.

Stage-discharge relation.--Defined by current-meter measurements below 26,000 cfs and extended above on basis of velocity-area studies.

Bankfull stage.--Not subject to overflow.

Historical data.--The flood of 1862 reached a stage of about 31 ft, referred to the "near Spreckels" gage, from statements of a witness, Charles Bardin.

Remarks.--Low peaks may be affected by diversions for municipal use and irrigation of about 95,000 acres. Peaks partly regulated by Salinas Reservoir (usable capacity, 26,000 acre-ft) beginning Dec. 6, 1941, and Nacimiento Reservoir (usable capacity, 340,000 acre-ft) beginning in November 1956. Peaks in the years 1947 and 1948 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1947, and subsequent to Oct. 1, 1956. Base for partial-duration series, 270 cfs.

Peak stages and discharges of Salinas River near Spreckels, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1862	-	31	-	1951	Dec. 11, 1950	8.68	632
					Dec. 18, 1950	6.42	289
1911	-	26.1	-		Jan. 22, 1951	9.32	1,020
1914	-	25.2	-	1952	Dec. 31, 1951	18.73	5,450
					Jan. 16, 1952	26.85	31,600
1930	Mar. 7, 1930	7.19	2,460		Jan. 26, 1952	24.81	20,700
					Mar. 16, 1952	25.08	24,400
1931	Feb. 18, 1931	3.13	64				
1932	Dec. 29, 1931	20.40	42,100	1953	Dec. 9, 1952	10.47	1,250
1933	Jan. 31, 1933	7.61	2,850		Jan. 1, 1953	13.47	3,140
1934	Jan. 2, 1934	13.50	8,060		Jan. 9, 1953	18.45	8,930
1935	Apr. 9, 1935	18.70	16,900		Jan. 16, 1953	12.27	2,230
					Mar. 23, 1953	8.47	541
1936	Feb. 24, 1936	20.64	20,500				
1937	Feb. 8, 1937	23.90	27,100	1954	Feb. 16, 1954	11.84	1,850
1938	Feb. 12, 1938	25.0	75,000		Feb. 20, 1954	13.02	2,780
1939	Mar. 12, 1939	2.84	1,140		Mar. 23, 1954	13.37	3,060
1940	Feb. 28, 1940	a15.65	26,700		Apr. 2, 1954	12.72	2,540
1941	Mar. 4, 1941	19.9	45,400	1955	Mar. 3, 1955	7.57	(b)
1942	Jan. 26, 1942	16.0	30,000				
1943	Jan. 22, 1943	18.95	42,800	1956	Dec. 25, 1955	24.52	23,600
1944	Mar. 1, 1944	15.0	25,500		Dec. 28, 1955	20.35	10,300
1945	Feb. 3, 1945	21.4	44,800		Jan. 2, 1956	15.54	3,770
					Jan. 26, 1956	23.00	17,800
1946	Dec. 23, 1945	11.7	10,900		Feb. 25, 1956	15.12	3,470
1947	Mar. 10, 1947	3.88	268				
				1957	-	-	(c)
1948	Nov. 17, 1947	2.48	20	1958	Apr. 4, 1958	23.15	35,600
				1959	Feb. 17, 1959	9.96	4,790
1949	Mar. 5, 1949	15.8	5,540	1960	Feb. 10, 1960	7.50	1,750
	Mar. 13, 1949	-	3,050				
				1962	Feb. 17, 1962	13.30	6,550
1950	Feb. 7, 1950	17.71	5,270	1963	Feb. 1, 1963	15.22	7,570
				1964	Jan. 23, 1964	10.25	609
1951	Nov. 20, 1950	11.49	1,300	1965	Jan. 8, 1965	14.25	2,830

a Occurred Jan. 12, 1940.
b Discharge unknown; less than 270 cfs.
c Discharge unknown; less than 50 cfs.

PAJARO RIVER BASIN

1530. Pacheco Creek near Dunneville, Calif.

Location.--Lat 36°58'50", long 121°22'45", in Ausaymas y San Felipe Grant, on right bank 350 ft downstream from private road bridge and 3.3 miles northeast of Dunneville, Santa Clara County.

Drainage area.--146 sq mi.

Gage.--Nonrecording prior to Aug. 19, 1960; recording thereafter. Prior to Nov. 17, 1950, at site 350 ft upstream at datum 6.00 ft higher. Nov. 17, 1950, to Aug. 18, 1960, at site 350 ft upstream at datum 4.00 ft higher. Datum of gage is 230.70 ft above mean sea level, datum of 1947.

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs and extended on basis of slope-area measurement at 12,600 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks partly regulated by Pacheco Lake (capacity 6,150 acre-ft) beginning prior to 1940. Peaks for the years 1941, 1946, 1949 and 1957-58 are maximum observed. Only annual peaks are shown.

Peak stages and discharges of Pacheco Creek near Dunneville, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 27, 1940	9.90	3,650	1953	Dec. 7, 1952	5.65	985
				1954	Mar. 30, 1954	3.08	65
1941	Mar. 3, 1941	10.6	4,070	1955	Jan. 18, 1955	5.40	865
1942	Feb. 6, 1942	6.2	1,740				
1943	Jan. 21, 1943	14.4	6,300	1956	Dec. 23, 1955	18.6	12,600
1944	Mar. 4, 1944	8.6	2,970	1957	Feb. 25, 1957	2.78	103
1945	Feb. 2, 1945	15.8	7,200	1958	Apr. 3, 1958	14.00	7,700
				1959	Feb. 16, 1959	11.95	5,680
1946	Dec. 23, 1945	3.7	642	1960	Feb. 8, 1960	8.6	3,150
1947	Nov. 23, 1946	4.3	890				
1948	-	-	0	1961	-	-	0
1949	Mar. 12, 1949	3.00	350	1962	Feb. 15, 1962	8.11	1,080
1950	Feb. 5, 1950	3.90	710	1963	Feb. 1, 1963	17.7	8,900
				1964	Jan. 22, 1964	6.96	574
1951	Dec. 3, 1950	16.4	6,340	1965	Jan. 7, 1965	8.13	1,220
1952	Jan. 14, 1952	15.0	6,040				

1535. Llagas Creek near Morgan Hill, Calif.

Location.--Lat 37°06'50", long 121°41'25", in Las Uvas Grant, on right bank 500 ft upstream from Llagas Avenue Bridge, 0.3 mile downstream from Chesbro Dam, 0.3 mile upstream from small tributary, and 2.3 miles west of Morgan Hill, Santa Clara County.

Drainage area.--19.6 sq mi.

Gage.--Recording. Altitude of gage is 445 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs and extended above on basis of computation of flow over dam at 3,190 cfs.

Bankfull stage.--10 ft.

Remarks.--Peaks regulated by Chesbro Reservoir (capacity 7,500 acre-ft) beginning in 1955. Only annual peaks are shown subsequent to Oct. 1, 1955. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 4, 1951	4.98	741	1956	Dec. 23, 1955	3.39	334
	Dec. 28, 1951	4.67	608	1957	Oct.1-2, 1956	1.43	25
	Jan. 12, 1952	8.18	2,760	1958	Apr. 2, 1958	8.45	3,190
	Jan. 14, 1952	7.48	2,260	1959	Feb.21-26, 1959	1.95	75
	Jan. 25, 1952	4.87	776	1960	June6-12, 1960	1.39	16
	Mar. 14, 1952	5.87	1,260				
				1961	Nov. 14, 1960	2.66	177
1953	Dec. 7, 1952	6.30	1,500	1962	Mar. 7, 1962	3.10	302
				1963	Feb. 1, 1963	4.51	906
1954	Feb. 13, 1954	4.26	609	1964	Oct.5-8, 1963	1.65	47
				1965	Apr. 16, 1965	2.07	92
1955	Feb. 27, 1955	3.13	249				

1540. Uvas Creek near Morgan Hill, Calif.

Location.--Lat 37°04'00", long 121°41'30" in Las Uvas Grant, on right bank 500 ft upstream from Uvas Dam, 0.6 mile downstream from Eastman Canyon, and 4.8 miles southwest of Morgan Hill, Santa Clara County.

Drainage area.--30.4 sq mi.

Gage.--Recording. Altitude of gage is 390 ft.

Stage-discharge relation.--Defined by current-meter measurements below 4,600 cfs and extended above on basis of slope-area measurements at 6 580 and 10,300 cfs.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1948. Base for partial-duration series 740 cfs.

Peak stages and discharges of Uvas Creek near Morgan Hill, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Jan. 2, 1931	4.30	385	1951	Dec. 3, 1950	9.73	3,550
1932	Dec. 27, 1931	10.82	4,340		Dec. 8, 1950	9.88	3,720
1933	Jan. 29, 1933	5.85	1,020		Jan. 18, 1951	6.22	1,130
1934	Dec. 12, 1933	5.70	970				
1935	Mar. 6, 1935	6.40	1,340	1952	Dec. 1, 1951	7.26	1,630
					Dec. 4, 1951	6.96	1,480
1936	Jan. 11, 1936	9.0	3,020		Dec. 28, 1951	7.40	1,700
1937	Feb. 13, 1937	10.6	4,180		Jan. 12, 1952	10.22	4,090
1938	Dec. 11, 1937	13.70	8,630		Jan. 14, 1952	10.00	3,850
1939	Mar. 8, 1939	5.97	975		Jan. 25, 1952	7.95	2,010
1940	Feb. 27, 1940	11.37	5,720		Mar. 14, 1952	7.70	1,860
					Mar. 18, 1952	6.73	1,360
1941	Apr. 4, 1941	10.75	4,700				
1942	Jan. 24, 1942	10.45	4,340	1953	Dec. 1, 1952	5.37	741
1943	Jan. 21, 1943	12.35	6,740		Dec. 7, 1952	10.76	4,680
1944	Feb. 28, 1944	7.96	1,990		Jan. 7, 1953	5.83	940
1945	Feb. 1, 1945	13.5	8,300		Mar. 19, 1953	6.53	1,280
1946	Dec. 21, 1945	7.46	1,660	1954	Jan. 17, 1954	6.96	1,370
1947	Nov. 22, 1946	7.53	1,700		Feb. 13, 1954	6.54	1,160
1948	Mar. 24, 1948	4.26	305		Feb. 17, 1954	5.55	751
1949	Feb. 7, 1949	-	997	1955	Feb. 27, 1955	6.13	1,090
	Mar. 2, 1949	-	968				
	Mar. 11, 1949	6.97	1,380	1956	Dec. 19, 1955	8.67	2,540
					Dec. 23, 1955	14.3	10,300
1950	Jan. 14, 1950	8.87	2,710		Jan. 25, 1956	8.45	2,300
	Feb. 6, 1950	-	1,050		Feb. 22, 1956	9.90	3,720
1951	Nov. 18, 1950	10.54	4,450	1957	Feb. 24, 1957	6.42	1,040

1560. San Benito River below McCoy Creek, near Hernandez, Calif.

Location.--Lat 36°23'22", long 120°53'42", in SW¼ sec.4, T.18 S., R.10 E., on right bank 0.7 mile upstream from Lorenzo Vasquez Canyon, 3.1 miles downstream from McCoy Creek, 4.3 miles downstream from Hernandez Dam, and 6 miles west of Hernandez.

Drainage area.--108 sq mi.

Gage.--Recording. Altitude of gage is 2,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 630 cfs and extended above on basis of slope-area measurements at 3,140 and 6,690 cfs.

Remarks.--Peaks regulated by Hernandez Dam (capacity 18,700 acre-ft) beginning in December, 1961. Only annual peaks are shown in 1956, 1958 and 1962. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Feb. 6, 1950	3.85	338	1953	Dec. 20, 1952	4.30	540
	Apr. 8, 1950	3.42	196		Dec. 27, 1952	3.98	406
					Dec. 30, 1952	4.42	588
1951	Nov. 19, 1950	3.41	233		Jan. 8, 1953	5.25	1,010
	Dec. 4, 1950	-	121		Jan. 13, 1953	3.13	135
	Dec. 8, 1950	-	116		June 16, 1953	3.01	126
	Dec. 14, 1950	-	136				
	Jan. 18, 1951	-	123	1956	Dec. 24, 1955	7.03	a3,140
1952	Dec. 4, 1951	4.71	715	1958	Apr. 2, 1958	8.93	a6,690
	Dec. 28, 1951	6.42	1,800				
	Jan. 6, 1952	3.82	367	1960	Feb. 1, 1960	4.95	852
	Jan. 12, 1952	6.32	1,730		Feb. 10, 1960	3.58	268
	Jan. 14, 1952	7.5	3,600				
	Jan. 24, 1952	5.75	1,320	1961	Dec. 1, 1960	5.13	981
	Mar. 14, 1952	5.88	1,420		Jan. 26, 1961	3.83	356
	Mar. 18, 1952	4.23	512		May 19, 1961	3.95	387
	Mar. 24, 1952	3.92	402				
				1962	Feb. 9, 1962	4.32	a470
1953	Dec. 1, 1952	3.91	398				
	Dec. 7, 1952	4.52	629	1963	May 13, 1963	3.51	137

a Annual peak only.

1565. San Benito River near Willow Creek School, Calif.

Location.--Lat 36°36'50", long 121°12'50", in SW¼ sec.21, T.15 S., R.7 E., on right bank 1.7 miles downstream from Willow Creek, 1.8 miles northwest of Willow Creek School, and 10.4 miles northwest of San Benito.

Drainage area.--251 sq mi.

Gage.--Recording. Prior to Jan. 28, 1948, at same site at datum 896.8 ft above mean sea level, unadjusted. Jan. 28, 1948, to Nov. 10, 1955, at site 0.9 mile upstream at different datum. Datum of gage is 878.57 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs prior to Jan. 28, 1948; below 2,900 cfs and extended above basis of slope-area measurement at 3,790 cfs for period Jan. 28, 1948, to Nov. 10, 1955; below 600 cfs and extended above on basis of slope-area measurement at 8,210 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Historical data.--Flood of February 1938 reached a stage of about 9.0 ft (former datum), from floodmarks.

Remarks.--Peaks regulated by Hernandez Dam (capacity, 18,700 acre-ft) beginning in December 1961. Only annual peaks are shown prior to Oct. 1, 1946, and subsequent to Oct. 1, 1961. Base for partial-duration series, 150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1938	February 1938	9.0	-
1940	Feb. 25, 1940	4.45	1,750
1941	Apr. 4, 1941	7.8	6,200
1942	Jan. 25, 1942	4.9	2,300
1943	Mar. 9, 1943	4.35	1,680
1944	Feb. 29, 1944	4.06	1,330
1945	Feb. 2, 1945	5.08	2,460
1946	Dec. 22, 1945	3.57	928
1947	Nov.23,24,1946	1.95	150
1948	Apr. 10, 1948	3.92	430
1949	Mar. 3, 1949	6.40	2,000
	Mar. 20, 1949	-	152
1950	Feb. 6, 1950	4.16	214
	Apr. 9, 1950	-	158
1951	Nov. 19, 1950	4.2	67
1952	Dec. 5, 1951	5.90	534
	Dec. 29, 1951	7.15	1,820
	Jan. 12, 1952	7.95	2,850
	Jan. 15, 1952	8.65	3,920
	Jan. 25, 1952	7.35	2,060
	Mar. 15, 1952	8.37	3,470
	Mar. 19, 1952	5.49	555
	Mar. 25, 1952	5.02	343
1953	Dec. 2, 1952	5.28	297
	Dec. 7, 1952	5.72	516
	Dec. 20, 1952	5.64	472
	Dec. 28, 1952	5.20	265
	Dec. 31, 1952	5.63	466
	Jan. 8, 1953	6.13	758
1954	Nov. 14, 1953	5.83	282
	Jan. 25, 1954	5.97	338
1954	Feb. 13, 1954	6.87	798
	Feb. 18, 1954	5.76	256
	Mar. 17, 1954	5.46	154
	Mar. 19, 1954	6.31	494
	Mar. 30, 1954	6.28	479
1955	Dec. 3, 1954	5.89	196
	Jan. 18, 1955	6.57	297
1956	Dec. 24, 1955	5.20	3,790
	Dec. 26, 1955	2.88	666
	Dec. 31, 1955	2.77	590
	Jan. 6, 1956	1.92	191
	Jan. 25, 1956	3.99	1,770
1957	Jan. 13, 1957	2.68	451
	Feb. 25, 1957	2.95	770
	Mar. 1, 1957	1.89	177
1958	Dec. 17, 1957	2.83	355
	Jan. 26, 1958	2.82	572
	Feb. 4, 1958	4.88	3,690
	Feb. 19, 1958	5.08	3,600
	Feb. 25, 1958	3.60	1,370
	Mar. 16, 1958	5.51	4,260
	Mar. 22, 1958	5.21	3,760
	Apr. 3, 1958	8.35	8,210
	Apr. 5, 1958	-	(a)
1959	Feb. 16, 1959	4.70	1,330
	Feb. 21, 1959	3.54	543
1960	Feb. 2, 1960	3.68	423
1961	Dec. 2, 1960	3.49	545
	Jan. 27, 1961	2.32	169
1962	Feb. 15, 1962	4.42	1,090
1963	Feb. 10, 1963	2.83	168
1964	Jan. 21, 1964	3.25	305
1965	Jan. 8, 1965	3.46	-
	Apr. 10, 1965	-	114

a Discharge unknown; exceeded base.

1575. Tres Pinos Creek near Tres Pinos, Calif.

Location.--Lat 36°45'13", long 121°17'03", in Santa Ana y Quien Sabe Grant, on right bank 3.5 miles southeast of Tres Pinos, San Benito County, and 6.2 miles upstream from mouth.

Drainage area.--206 sq mi.

Gage.--Recording. Altitude of gage is 570 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs.

Bankfull stage.--9 ft.

Remarks.--Low peaks may be affected by diversions for irrigation. Only annual peaks are shown prior to Oct. 1, 1945. Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	February 1938	9.0	-	1956	Dec. 31, 1955	4.83	1,800
					Jan. 5, 1956	3.37	522
1940	Feb. 25, 1940	a7.2	4,500		Jan. 15, 1956	3.89	1,070
					Jan. 23, 1956	4.10	1,080
1941	Apr. 4, 1941	7.75	8,060		Jan. 26, 1956	5.23	2,270
1942	Feb. 6, 1942	3.63	896				
1943	Mar. 9, 1943	4.78	2,520	1957	Dec. 16, 1956	2.38	54
1944	Feb. 22, 1944	2.78	506				
1945	Feb. 2, 1945	3.22	749	1958	Feb. 4, 1958	4.36	1,370
					Feb. 19, 1958	4.86	1,310
1946	Jan. 5, 1946	2.55	400		Feb. 25, 1958	3.84	488
					Mar. 16, 1958	7.02	4,670
1947	Nov. 20, 1946	1.24	7.8		Mar. 21, 1958	5.68	2,350
					Mar. 30, 1958	4.08	593
1948	Apr. 10, 1948	1.61	62		Apr. 3, 1958	7.41	5,490
					Apr. 6, 1958	5.92	2,650
1949	Mar. 3, 1949	2.82	525				
				1959	Jan. 8, 1959	3.59	283
1950	Jan. 14, 1950	2.09	218				
				1960	Feb. 10, 1960	4.19	593
1951	Nov. 19, 1950	4.15	642				
				1961	Jan. 26, 1961	2.75	4.1
1952	Dec. 30, 1951	4.36	1,110				
	Jan. 12, 1952	7.54	4,840	1962	Feb. 10, 1962	4.73	607
	Jan. 14, 1952	4.60	1,940		Feb. 15, 1962	5.08	978
	Jan. 25, 1952	5.52	2,680		Feb. 18, 1962	4.79	661
	Mar. 15, 1952	6.76	3,830		Mar. 6, 1962	4.68	564
1953	Jan. 14, 1953	3.04	247	1963	Mar. 28, 1963	4.30	43
1954	Jan. 24, 1954	2.90	292	1964	Jan. 23, 1964	4.53	43
1955	Jan. 18, 1955	2.77	217	1965	Dec. 23, 1964	5.34	1,260
					Dec. 27, 1964	5.05	830
1956	Dec. 23, 1955	6.90	4,750		Jan. 7, 1965	5.58	1,650

a Occurred Jan. 11, 1940.

1585. San Benito River near Hollister, Calif.

Location.--Lat 36°47'17", long 121°22'11", in SW¼ sec.24, T.13 S., R.5 E., on left bank 1,500 ft downstream from Bird Creek, 0.9 mile downstream from Tres Pinos Creek, 2.7 miles west of Tres Pinos, and 4.8 miles southeast of Hollister.

Drainage area.--586 sq mi.

Gage.--Recording. Altitude of gage is 370 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above on basis of flood-routing study.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by Hernandez Dam (capacity, 18,700 acre-ft) beginning in December 1961. Only annual peaks are shown subsequent to December 1961. Base for partial-duration series, 600 cfs.

Peak stages and discharges of San Benito River near Hollister, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Jan. 28, 1950	3.19	108	1958	Feb. 4, 1958	8.84	3,330
					Feb. 19, 1958	9.62	3,810
1951	Nov. 19, 1950	6.56	1,490		Feb. 25, 1958	7.90	2,200
					Mar. 16, 1958	11.90	6,370
1952	Dec. 29, 1951	8.08	2,750		Mar. 22, 1958	10.60	4,860
	Jan. 12, 1952	10.32	4,960		Mar. 28, 1958	5.80	725
	Jan. 15, 1952	9.97	4,610		Apr. 3, 1958	16.30	11,600
	Jan. 25, 1952	9.35	3,990		Apr. 6, 1958	10.88	5,580
	Mar. 15, 1952	10.80	5,490				
				1959	Feb. 16, 1959	6.83	1,740
1953	Jan. 8, 1953	5.43	835		Feb. 21, 1959	5.00	667
1954	Feb. 14, 1954	4.86	595	1960	Feb. 2, 1960	4.63	430
1955	Jan. 19, 1955	4.09	347	1961	Dec. 3, 1960	2.98	26
1956	Dec. 24, 1955	12.55	7,460	1962	Feb. 15, 1962	6.21	1,350
	Dec. 31, 1955	7.39	2,150	1963	Feb. 10, 1963	4.02	339
	Jan. 23, 1956	5.05	680	1964	Jan. 24, 1964	3.11	44
	Jan. 27, 1956	9.08	3,720	1965	Jan. 7, 1965	5.46	906
1957	Feb. 25, 1957	a4.62	489				

a Occurred Jan. 13, 1957.

1590. Pajaro River at Chittenden, Calif.
(Published as "near Chittenden" prior to October 1954)

Location.--Lat 36°54'01", long 121°35'48", in Salsipuedes Grant, on downstream side of right bank pier of State highway bridge, 0.6 mile downstream from Pescadero Creek, 0.6 mile southeast of Chittenden, Santa Cruz County, and 2.3 miles downstream from San Benito River.

Drainage area.--1,186 sq mi.

Gage.--Nonrecording October 1939 to Dec. 19, 1946, June 12-20, 1947, Sept. 24 to Dec. 18, 1947, and May 7, 1948, to May 12, 1949; recording remainder of time. Prior to May 13, 1949, at site 100 ft downstream at same datum. Datum of gage is 81.81 ft above mean sea level (levels by U.S. Weather Bureau).

Stage-discharge relation.--Defined by current-meter measurements below 10,000 cfs prior to May 13, 1949; below 10,100 cfs and extended on basis of slope-conveyance study thereafter.

Bankfull stage.--Not subject to overflow.

Historical data.--Flood in February 1938 reached a stage of 31.3 ft, from flood-marks.

Remarks.--Peaks regulated by Pacheco Lake (capacity, 6,150 acre-ft) beginning in 1960, San Felipe Lake, beginning in 1958, Uvas Reservoir (capacity, 10,000 acre-ft) beginning in 1957 and Chesbro Reservoir (capacity, 7,500 acre-ft) beginning in 1955. Peaks for the years 1942 and 1945-46 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	February 1938	31.3	-	1949	Mar. 12, 1949	14.63	1,980
					Mar. 20, 1949	-	433
1940	Feb. 28, 1940	25.5	9,880				
				1950	Jan. 14, 1950	-	465
1941	Apr. 4, 1941	26.2	11,100		Feb. 5, 1950	11.73	1,430
1942	Jan. 25, 1942	19.2	5,390				
1943	Jan. 21, 1943	24.0	9,000	1951	Nov. 19, 1950	22.68	7,810
1944	Feb. 29, 1944	20.6	6,080		Dec. 4, 1950	19.59	5,310
1945	Feb. 2, 1945	25.8	10,700		Dec. 8, 1950	22.73	7,660
					Dec. 14, 1950	9.10	805
1946	Dec. 25, 1945	11.82	1,500		Jan. 18, 1951	10.46	1,190
1947	Nov. 23, 1946	10.65	896		Mar. 5, 1951	12.24	1,700
1948	Apr. 30, 1948	6.38	220	1952	Dec. 5, 1951	13.80	2,210
					Dec. 30, 1951	17.18	3,620
1949	Mar. 4, 1949	-	1,710		Jan. 12, 1952	24.32	9,220

Peak stages and discharges of Pajaro River at Chittenden, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 15, 1952	25.15	10,000	1958	Apr. 3, 1958	33.11	23,500
	Jan. 25, 1952	22.82	7,740		Apr. 6, 1958	24.43	10,400
	Mar. 7, 1952	10.00	1,080				
	Mar. 15, 1952	22.09	7,080	1959	Jan. 10, 1959	11.31	1,350
					Feb. 11, 1959	-	-
1953	Dec. 7, 1952	16.42	2,870		Feb. 16, 1959	16.04	3,390
	Dec. 31, 1952	9.80	930		Feb. 19, 1959	12.35	1,690
	Jan. 9, 1953	14.08	2,010		Feb. 21, 1959	14.85	2,740
	Jan. 14, 1953	10.74	1,130		Sept.19, 1959	13.14	2,240
	Mar. 20, 1953	9.10	790				
				1960	Feb. 1, 1960	12.08	1,600
1954	Feb. 14, 1954	9.89	682		Feb. 8, 1960	14.96	2,880
	Feb. 18, 1954	8.65	501				
				1961	Mar. 17, 1961	5.56	23
1955	Jan. 18, 1955	9.87	871				
	Feb. 27, 1955	8.79	638	1962	Feb. 10, 1962	9.50	1,180
					Feb. 15, 1962	12.58	2,910
1956	Dec. 20, 1955	11.18	1,180		Feb. 19, 1962	10.30	1,550
	Dec. 24, 1955	32.46	24,000		Mar. 6, 1962	11.76	2,360
	Dec. 31, 1955	17.74	3,380				
	Jan. 6, 1956	13.90	1,850	1963	Feb. 1, 1963	20.76	11,600
	Jan. 16, 1956	13.36	1,710		Feb. 13, 1963	10.82	2,600
	Jan. 27, 1956	24.12	8,830		Mar. 28, 1963	8.50	1,160
	Feb. 23, 1956	13.31	1,700		Apr. 7, 1963	11.22	2,920
					Apr. 14, 1963	8.78	1,300
1957	Feb. 25, 1957	10.91	1,110		Apr. 21, 1963	9.02	1,430
	May 19, 1957	10.40	1,040				
				1964	Jan. 22, 1964	9.24	1,460
1958	Jan. 26, 1958	8.22	506				
	Feb. 5, 1958	15.02	1,890	1965	Dec. 23, 1964	10.86	2,200
	Feb. 12, 1958	8.32	470		Dec. 27, 1964	9.61	1,590
	Feb. 20, 1958	19.80	4,470		Dec. 31, 1964	9.55	1,570
	Feb. 25, 1958	19.59	4,600		Jan. 3, 1964	8.64	1,200
	Mar. 16, 1958	23.66	8,140		Jan. 6, 1965	12.80	3,300
	Mar. 22, 1958	23.14	8,830		Jan. 9, 1965	6.33	462

1591.5. Corralitos Creek near Corralitos, Calif.

Location.--Lat 37°00'20", long 121°48'25", in Los Corralitos Grant, on left bank 0.5 mile downstream from Mormon Gulch, 1.2 miles upstream from Corralitos, Santa Cruz County, and 7 miles northwest of Watsonville.

Drainage area.--10.6 sq mi.

Gage.--Recording. Altitude of gage is 310 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 630 cfs and extended above on basis of estimate of flow over dam at 1,970 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Low peaks may be affected by diversion of 3.9 cfs for municipal supply of city of Watsonville. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Jan. 29, 1958	3.50	216	1962	Feb. 9, 1962	4.79	537
	Feb. 2, 1958	3.85	253		Feb. 14, 1962	5.55	800
	Feb. 12, 1958	3.92	217		Mar. 6, 1962	3.90	306
	Feb. 19, 1958	4.35	353				
	Feb. 24, 1958	3.91	261	1963	Oct. 13, 1962	6.13	1,050
	Mar. 21, 1958	3.90	260		Jan. 31, 1963	7.62	1,920
	Apr. 2, 1958	7.55	1,970		Apr. 6, 1963	4.97	591
	Apr. 5, 1958	3.46	222		Apr. 14, 1963	3.51	259
					Apr. 19, 1963	3.42	244
1959	Jan. 9, 1959	5.10	568				
	Feb. 16, 1959	5.14	588	1964	Jan. 20, 1964	3.74	299
	Sept.18, 1959	4.40	368				
				1965	Dec. 22, 1964	6.00	990
1960	Feb. 1, 1960	5.34	719		Dec. 26, 1964	3.81	312
	Feb. 8, 1960	5.66	844		Jan. 5, 1965	4.60	485
1961	Nov. 26, 1960	1.80	28				

1592. Corralitos Creek at Freedom, Calif.

Location.--Lat 36°56'22", long 121°46'10", in Los Corralitos Grant, on right bank just upstream from Green Valley Road Bridge, 0.25 mile north of Freedom, Santa Cruz County, and 2.3 miles north of Watsonville.

Drainage area.--27.8 sq mi.

Gage.--Recording. Altitude of gage is 80 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 800 cfs and extended on basis of contracted-opening measurement at 3,620 cfs.

Bankfull stage.--16 ft.

Historical data.--Flood of Dec. 22, 1955, reached a stage of 15.6 ft, from floodmarks (discharge, 3,620 cfs, determined on basis of contracted-opening measurement of peak flow).

Remarks.--Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Dec. 22, 1955	15.6	3,620	1961	Nov. 26, 1960	2.74	46
1957	May 18, 1957	7.67	715	1962	Feb. 9, 1962	5.66	738
					Feb. 14, 1962	6.66	1,050
1958	Feb. 2, 1958	4.79	438		Mar. 6, 1962	4.60	435
	Feb. 12, 1958	5.08	510				
	Feb. 19, 1958	5.41	625	1963	Oct. 13, 1962	7.70	1,350
	Feb. 24, 1958	4.85	518		Jan. 31, 1963	11.80	2,580
	Mar. 15, 1958	4.54	440		Feb. 13, 1963	5.04	539
	Mar. 21, 1958	4.94	541		Mar. 27, 1963	4.76	447
	Apr. 2, 1958	12.59	2,680		Apr. 6, 1963	7.48	1,280
	Apr. 5, 1958	5.18	604		Apr. 14, 1963	5.62	726
					Apr. 19, 1963	5.57	711
1959	Jan. 9, 1959	6.30	898				
	Feb. 16, 1959	6.50	950	1964	Jan. 20, 1964	5.54	702
	Sept.19, 1959	6.12	850				
				1965	Dec. 22, 1964	9.65	1,800
1960	Feb. 1, 1960	6.80	962		Dec. 26, 1964	6.18	754
	Feb. 8, 1960	7.50	1,140		Jan. 6, 1965	6.70	910

APTOS CREEK BASIN

1597. Aptos Creek at Aptos, Calif.

Location.--Lat 36°58'35", long 121°54'05", in Aptos Grant, on left bank at Aptos, Santa Cruz County, 0.6 mile upstream from mouth.

Drainage area.--12.2 sq mi.

Gage.--Recording. Altitude of gage is 10 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 980 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Jan. 9, 1959	5.70	299	1962	Feb. 14, 1962	6.02	560
	Feb. 16, 1959	5.72	283		Mar. 6, 1962	5.72	398
	Sept.18, 1959	5.25	223				
				1963	Oct. 13, 1962	6.46	428
1960	Feb. 1, 1960	5.84	299		Jan. 31, 1963	10.82	2,110
	Feb. 8, 1960	5.85	302		Feb. 13, 1963	5.42	213
					Mar. 27, 1963	5.74	315
1961	Nov. 26, 1960	3.41	24		Apr. 6, 1963	7.23	699
					Apr. 14, 1963	6.72	600
1962	Feb. 9, 1962	4.75	244		Apr. 19, 1963	5.78	365

Peak stages and discharges of Aptos Creek at Aptos, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1964	Jan. 21, 1964	5.30	262	1965	Jan. 3, 1965	5.52	255
					Jan. 6, 1965	5.58	275
1965	Dec. 22, 1964	7.55	968		Apr. 9, 1965	5.01	136
	Dec. 26, 1964	5.87	365				

SOQUEL CREEK BASIN

1598. West Branch Soquel Creek near Soquel, Calif.

Location.--Lat 37°03'05", long 121°56'20", in NW¼ sec.23, T.10 S., R.1 W., on left bank 0.5 mile upstream from Soquel Creek and 4.5 miles north of Soquel.

Drainage area.--12.2 sq mi.

Gage.--Recording. Altitude of gage is 220 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 740 cfs and extended above on basis of slope-area measurement at 2,110 cfs.

Bankfull stage.--12 ft.

Remarks.--Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Jan. 9, 1959	6.14	1,130	1963	Feb. 9, 1963	4.87	403
	Feb. 16, 1959	7.05	1,880		Feb. 13, 1963	5.08	500
					Mar. 27, 1963	5.20	560
1960	Feb. 1, 1960	6.03	1,040		Apr. 6, 1963	5.82	880
	Feb. 8, 1960	5.20	565		Apr. 14, 1963	6.72	1,370
					Apr. 19, 1963	4.85	395
1961	Nov. 26, 1960	3.78	91				
				1964	Jan. 20, 1964	5.10	510
1962	Feb. 9, 1962	5.40	665				
	Feb. 14, 1962	7.00	1,620	1965	Dec. 22, 1964	6.64	1,280
	Mar. 6, 1962	4.85	420		Dec. 26, 1964	4.80	320
					Jan. 3, 1965	5.19	486
1963	Oct. 13, 1962	7.96	2,110		Jan. 5, 1965	6.83	1,400
	Jan. 31, 1963	10.88	4,120		Apr. 9, 1965	4.85	340

1600. Soquel Creek at Soquel, Calif.

Location.--Lat 36°59'29", long 121°57'17", in NE¼ sec.10, T.11 S., R.1 W., on left bank 0.2 mile upstream from highway bridge in town of Soquel and 0.4 mile downstream from Bates Creek.

Drainage area.--40.2 sq mi.

Gage.--Nonrecording 1937, 1938; recording subsequent to May 1951. Altitude of gage is 40 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs and extended above on basis of slope-area measurements at 5,120 and 15,800 cfs.

Bankfull stage.--16 ft.

Historical data.--Flood of Feb. 13, 1937, reached a stage of 12.6 ft, from floodmarks, and a discharge of 5,950 cfs, from precipitation records and comparison with nearby streams. Flood of winter of 1950-51 reached a stage of about 15.33 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1951. Base for partial-duration series, 750 cfs.

Peak stages and discharges of Soquel Creek at Soquel, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Feb. 13, 1937	a12.6	5,950	1958	Feb. 19, 1958	10.46	3,030
					Feb. 24, 1958	9.54	2,470
1951	Winter 1951	15.33	-		Mar. 15, 1958	6.80	986
					Mar. 21, 1958	8.45	1,820
1952	Dec. 1, 1951	7.62	1,090		Apr. 2, 1958	13.24	5,080
	Dec. 4, 1951	8.97	1,980		Apr. 5, 1958	7.45	1,370
	Dec. 28, 1951	10.58	3,500				
	Jan. 12, 1952	11.63	4,910	1959	Jan. 9, 1959	8.90	2,370
	Jan. 14, 1952	11.63	4,910		Feb. 16, 1959	9.58	2,770
	Jan. 25, 1952	9.91	2,810		Sept.18, 1959	6.55	835
	Feb. 1, 1952	7.10	820				
	Mar. 14, 1952	9.80	2,700	1960	Feb. 1, 1960	9.15	2,240
					Feb. 8, 1960	8.38	1,780
1953	Dec. 7, 1952	11.45	4,630				
	Dec. 30, 1952	6.99	794	1961	Nov. 26, 1960	4.68	106
	Jan. 7, 1953	8.87	2,030				
	Mar. 19, 1953	7.53	1,080	1962	Feb. 9, 1962	8.61	1,860
	Apr. 27, 1953	6.97	818		Feb. 14, 1962	10.20	2,940
					Mar. 6, 1962	6.89	1,030
1954	Jan. 17, 1954	7.68	1,180				
	Feb. 13, 1954	7.25	945	1963	Oct. 13, 1962	13.34	5,160
					Jan. 31, 1963	16.27	7,950
1955	Nov. 15, 1954	6.35	578		Feb. 9, 1963	6.38	869
					Feb. 13, 1963	6.80	1,060
1956	Dec. 19, 1955	7.82	1,340		Mar. 27, 1963	7.21	1,190
	Dec. 23, 1955	22.33	15,800		Apr. 6, 1963	8.93	2,110
	Dec. 26, 1955	11.17	3,390		Apr. 14, 1963	10.30	2,930
	Jan. 15, 1956	8.54	1,180		Apr. 19, 1963	6.77	977
	Jan. 25, 1956	8.00	1,320				
	Feb. 22, 1956	8.21	1,500	1964	Jan. 21, 1964	7.55	1,390
1957	Oct. 30, 1956	7.09	865	1965	Dec. 22, 1964	10.47	3,180
	Feb. 24, 1957	7.57	1,060		Dec. 26, 1964	6.80	1,140
	May 18, 1957	9.01	2,010		Jan. 3, 1965	7.10	1,280
					Jan. 5, 1965	8.93	2,230
1958	Feb. 2, 1958	7.46	1,440		Apr. 9, 1965	6.57	1,030
	Feb. 12, 1958	6.99	1,100				

a Backwater from log jam.

SAN LORENZO RIVER BASIN

1603. Zayante Creek at Zayante, Calif.

Location.--Lat 37°05'10", long 122°02'45", in SE¼ sec.2, T.10 S., R.2 W., on left bank at Zayante Road Bridge in town of Zayante, 0.4 mile upstream from Lompico Creek, 2.0 miles east of Ben Lomond, and 3.2 miles upstream from mouth.

Drainage area.--11.1 sq mi.

Gage.--Recording. Altitude of gage is 390 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs and extended above on basis of slope-area measurement at 3,700 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Feb. 7, 1958	4.09	486	1963	Oct. 13, 1962	4.50	780
	Feb. 19, 1958	5.23	1,140		Jan. 31, 1963	6.86	2,830
	Feb. 24, 1958	4.00	450		Feb. 10, 1963	2.79	143
	Mar. 21, 1958	4.14	508		Feb. 12, 1963	3.11	214
	Apr. 2, 1958	7.70	3,700		Mar. 27, 1963	3.29	260
					Apr. 6, 1963	3.51	322
1959	Jan. 9, 1959	4.72	783		Apr. 14, 1963	4.03	508
	Feb. 16, 1959	5.40	1,300		Apr. 19, 1963	2.77	132
1960	Feb. 1, 1960	4.86	880	1964	Nov. 19, 1963	3.20	220
					Jan. 20, 1964	4.10	560
1961	Mar. 15, 1961	2.09	45	1965	Dec. 22, 1964	4.10	560
					Dec. 26, 1964	3.06	156
1962	Feb. 9, 1962	4.15	580		Jan. 3, 1965	3.77	410
	Feb. 14, 1962	5.07	1,010		Jan. 5, 1965	5.00	1,100

1605. San Lorenzo River at Big Trees, Calif.

Location.--Lat 37°01'40", long 122°03'30", in Canada del Rincon Grant, on right bank 0.5 mile south of Big Trees station on Southern Pacific Railroad, 1.6 miles downstream from Zayante Creek, and 4 miles north of Santa Cruz, Santa Cruz County.

Drainage area.--111 sq mi.

Gage.--Recording. Datum of gage is 217.0 ft above mean sea level (levels by Topographic Division).

Stage-discharge relation.--Defined by current-meter measurements below 11,000 cfs and extended above on basis of slope-area measurement at 30,400 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Feb. 14, 1937	14.1	9,910	1956	Dec. 23, 1955	22.55	30,400
1938	Jan. 31, 1938	16.3	13,800		Dec. 26, 1955	12.12	7,410
1939	Mar. 9, 1939	4.45	678		Jan. 7, 1956	5.83	1,650
1940	Feb. 27, 1940	21.1	24,000		Jan. 15, 1956	-	2,000
					Jan. 25, 1956	-	2,500
1941	Feb. 9, 1941	17.15	15,500		Feb. 22, 1956	8.30	3,470
1942	Jan. 24, 1942	16.10	13,400				
1943	Jan. 21, 1943	16.35	13,900	1957	Feb. 24, 1957	7.15	2,560
					May 18, 1957	6.01	1,760
1944	Mar. 4, 1944	7.12	1,890				
				1958	Dec. 16, 1957	5.48	1,440
1945	Feb. 1, 1945	-	10,300		Jan. 26, 1958	5.78	1,620
	Feb. 2, 1945	15.98	13,200		Feb. 2, 1958	7.27	2,650
					Feb. 7, 1958	10.03	5,080
1946	Dec. 22, 1945	-	2,140		Feb. 12, 1958	6.32	1,970
	Dec. 24, 1945	-	1,960		Feb. 19, 1958	14.28	10,300
	Dec. 27, 1945	8.35	2,810		Feb. 24, 1958	9.04	4,130
					Mar. 15, 1958	5.97	1,730
1947	Nov. 22, 1946	6.30	1,450		Mar. 21, 1958	8.53	3,670
					Mar. 27, 1958	5.52	1,460
1948	Apr. 29, 1948	6.18	1,390		Apr. 2, 1958	17.76	17,200
					Apr. 5, 1958	7.35	2,710
1949	Mar. 10, 1949	9.56	3,880				
				1959	Jan. 5, 1959	6.06	1,820
1950	Jan. 14, 1950	-	2,180		Jan. 9, 1959	10.05	5,130
	Jan. 17, 1950	-	2,080		Feb. 16, 1959	11.35	6,690
	Feb. 6, 1950	11.58	6,190		Sept.18, 1959	5.59	1,590
1951	Nov. 18, 1950	14.50	10,600	1960	Feb. 1, 1960	7.70	2,990
	Dec. 3, 1950	12.25	7,110		Feb. 8, 1960	6.75	2,280
	Dec. 8, 1950	12.33	7,330				
				1961	Nov. 26, 1960	3.81	639
1952	Dec. 4, 1951	11.93	6,660				
	Dec. 28, 1951	10.95	5,400	1962	Feb. 9, 1962	7.83	3,090
	Jan. 12, 1952	16.85	14,900		Feb. 14, 1962	10.98	6,090
	Jan. 14, 1952	13.66	9,190		Mar. 5, 1962	6.61	2,180
	Jan. 25, 1952	9.77	4,090				
	Feb. 1, 1952	6.59	1,600	1963	Oct. 13, 1962	12.10	7,390
	Mar. 15, 1952	14.81	11,100		Jan. 31, 1963	15.80	13,000
	Mar. 18, 1952	7.24	1,990		Feb. 9, 1963	6.34	1,990
					Feb. 13, 1963	5.68	1,560
1953	Dec. 7, 1952	13.69	9,250		Mar. 27, 1963	6.21	1,900
	Dec. 19, 1952	6.48	1,540		Apr. 6, 1963	5.62	1,520
	Dec. 30, 1952	7.01	1,860		Apr. 14, 1963	6.68	2,230
	Jan. 7, 1953	9.33	3,650				
	Mar. 19, 1953	6.94	1,810	1964	Nov. 19, 1963	6.51	2,110
					Jan. 21, 1964	7.29	2,660
1954	Jan. 17, 1954	8.22	2,710				
	Feb. 17, 1954	6.63	1,630	1965	Dec. 22, 1964	10.53	5,590
					Dec. 26, 1964	5.98	1,560
1955	Dec. 2, 1954	8.95	3,300		Jan. 3, 1965	7.08	2,510
	Jan. 18, 1955	6.48	1,540		Jan. 5, 1965	12.93	8,450
					Apr. 9, 1965	5.49	1,440
1956	Dec. 19, 1955	9.11	3,450				

1615. Branciforte Creek at Santa Cruz, Calif.

Location.--Lat 36°58'00", long 122°01'00", on right bank in Santa Cruz, Santa Cruz County, 15 ft downstream from Market Street Bridge and 1.0 mile upstream from mouth.

Drainage area.--17.3 sq mi.

Gage.--Nonrecording prior to Nov. 25, 1941; recording thereafter. Prior to Nov. 25, 1941, at site 150 ft downstream and Nov. 26, 1941, to Sept. 30, 1943, at site 75 ft downstream, both at datum 4.52 ft higher. Datum of gage is 11.22 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs prior to Sept. 30, 1943; below 530 cfs and extended above on basis of slope-area measurement at 8,100 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1952. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Feb. 9, 1941	15.1	3,910	1959	Jan. 9, 1959	10.78	1,630
					Feb. 16, 1959	9.85	1,240
1942	Jan. 24, 1942	10.72	2,370		Sept. 18, 1959	8.14	662
1943	Jan. 21, 1943	10.88	2,430	1960	Jan. 11, 1960	9.07	954
					Feb. 1, 1960	12.08	2,210
1953	Dec. 7, 1952	12.28	1,890		Feb. 8, 1960	9.67	1,170
	Dec. 30, 1952	8.80	942				
	Jan. 7, 1953	10.34	1,330	1961	Nov. 26, 1960	7.56	503
	Apr. 27, 1953	8.89	964				
				1962	Jan. 19, 1962	8.95	763
1954	Mar. 29, 1954	6.29	426		Feb. 9, 1962	10.22	1,290
					Feb. 13, 1962	10.81	1,640
1955	Jan. 18, 1955	7.82	720		Mar. 6 1962	9.54	987
1956	Dec. 22, 1955	22.04	8,100	1963	Jan. 31, 1963	13.34	2,820
	Dec. 26, 1955	11.14	1,490		Feb. 12, 1963	8.61	819
	Jan. 15, 1956	8.12	690		Mar. 16, 1963	8.15	658
	Jan. 25, 1956	9.37	1,000		Mar. 27, 1963	9.40	1,040
					Apr. 6, 1963	9.14	934
1957	May 18, 1957	6.45	382		Apr. 14, 1963	10.34	1,430
					Apr. 19, 1963	10.00	1,280
1958	Feb. 2, 1958	10.90	1,480				
	Feb. 7, 1958	11.09	1,590	1964	Jan. 20, 1964	9.05	903
	Feb. 12, 1958	10.00	1,370				
	Feb. 19, 1958	14.01	2,760	1965	Dec. 22, 1964	11.98	2,170
	Feb. 24, 1958	9.61	1,090		Dec. 26, 1964	8.91	1,080
	Mar. 15, 1958	8.27	729		Jan. 5, 1965	8.72	963
	Mar. 21, 1958	9.85	1,110		Apr. 9, 1965	8.27	759
	Apr. 2, 1958	13.40	2,230				

1619. Scott Creek above Little Creek, near Davenport, Calif.

Location.--Lat 37°03'50", long 122°13'45", in Agua Puerco y las Trancas Grant, on right bank 600 ft upstream from Little Creek, 2.0 miles upstream from mouth, and 4.2 miles north of Davenport, Santa Cruz County.

Drainage area.--25.0 sq mi.

Gage.--Recording.--Altitude of gage is 30 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 650 cfs and extended on basis of slope-area measurement at 1,060 cfs.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Jan. 9, 1959	6.68	806	1963	Jan. 31, 1963	e.71	1,560
	Feb. 16, 1959	5.36	417		Feb. 9, 1963	7.60	1,150
	Feb. 18, 1959	5.13	360		Feb. 13, 1963	4.60	483
					Mar. 27, 1963	4.30	485
1960	Feb. 1, 1960	5.64	500		Apr. 6, 1963	5.00	673
	Feb. 8, 1960	5.29	412		Apr. 14, 1963	3.36	318
					Apr. 19, 1963	3.65	384
1961	Nov. 26, 1960	3.83	122				
				1964	Nov. 19, 1963	4.84	605
1962	Feb. 9, 1962	5.27	398		Jan. 20, 1964	5.30	720
	Feb. 13, 1962	9.36	1,970				
	Mar. 5, 1962	4.59	342	1965	Dec. 22, 1964	7.98	1,590
					Dec. 26, 1964	4.67	765
1963	Oct. 13, 1962	7.35	1,060		Jan. 5, 1965	7.24	1,390
	Dec. 15, 1962	5.06	326				

PESCADERO CREEK BASIN

1625. Pescadero Creek near Pescadero, Calif.

Location.--Lat 37°15'40", long 122°19'40", in SW¼ sec.5, T.8 S., R.4 W., on left bank at downstream side of highway bridge, 3.0 miles east of Pescadero and 5.3 miles upstream from mouth.

Drainage area.--45.9 sq mi.

Gage.--Recording. Datum of gage is 62.3 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,700 cfs and extended on basis of slope-area measurement at 9,420 cfs.

Bankfull stage.--22 ft.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 4, 1951	12.73	2,310	1956	Dec. 19, 1955	11.58	1,900
	Dec. 28, 1951	10.37	1,480		Dec. 23, 1955	21.27	9,420
	Jan. 12, 1952	14.16	2,860		Dec. 26, 1955	14.15	2,830
	Jan. 14, 1952	12.52	2,230		Jan. 7, 1956	7.72	534
	Jan. 25, 1952	9.47	1,210		Jan. 15, 1956	12.00	1,780
	Feb. 1, 1952	7.13	646		Jan. 25, 1956	9.87	1,030
	Mar. 14, 1952	15.39	3,870		Feb. 22, 1956	10.54	1,110
1953	Dec. 1, 1952	6.45	517	1957	Feb. 24, 1957	8.46	610
	Dec. 7, 1952	15.61	4,030		May 18, 1957	9.43	908
	Dec. 30, 1952	7.00	636				
	Jan. 7, 1953	7.26	683	1958	Jan. 26, 1958	8.17	730
	Mar. 19, 1953	7.46	720		Jan. 29, 1958	7.42	578
					Feb. 2, 1958	10.08	1,470
1954	Jan. 17, 1954	8.51	953		Feb. 7, 1958	9.19	1,210
					Feb. 12, 1958	7.50	734
1955	Dec. 2, 1954	8.04	840		Feb. 19, 1958	13.42	2,860

Peak stages and discharges of Pescadero Creek near Pescadero, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Feb. 24, 1958	10.84	1,740	1962	Feb. 15, 1962	10.80	1,720
	Mar. 15, 1958	6.54	513		Mar. 5, 1962	7.83	808
	Mar. 23, 1958	9.35	1,260				
	Apr. 2, 1958	19.72	7,630	1963	Oct. 13, 1962	16.38	4,620
	Apr. 5, 1958	8.98	1,140		Jan. 31, 1963	18.80	6,700
					Feb. 9, 1963	8.14	946
1959	Jan. 9, 1959	7.32	764		Feb. 13, 1963	-	(a)
	Feb. 16, 1959	9.79	1,380		Mar. 28, 1963	7.10	680
1960	Feb. 1, 1960	6.26	509	1964	Jan. 20, 1964	9.06	1,170
	Feb. 8, 1960	7.83	816				
				1965	Dec. 23, 1964	10.06	1,470
1961	Mar. 15, 1961	4.16	150		Jan. 5, 1965	14.26	3,310
					Apr. 16, 1965	7.24	678
1962	Feb. 9, 1962	7.72	780				

a Discharge unknown; exceeded base.

PURISIMA CREEK BASIN

1626. Purisima Creek near Half Moon Bay, Calif.

Location.--Lat 37°26'06", long 122°22'23", in Canada de Verde y Arroyo de la Purisima Grant, on left bank 15 ft downstream from county road bridge, 3.6 miles southeast of Half Moon Bay, San Mateo County, and 4.0 miles upstream from mouth.

Drainage area.--4.83 sq mi.

Gage.--Recording. Altitude of gage is 380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 65 cfs and extended above on basis of slope-area measurement at 290 cfs.

Remarks.--Base for partial-duration series, 20 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Sept.18, 1959	4.30	32	1963	Jan. 31, 1963	5.31	301
					Feb. 9, 1963	-	(a)
1960	Jan. 11, 1960	4.41	25		Feb. 13, 1963	-	(a)
	Feb. 8, 1960	4.53	49		Mar. 28, 1963	4.05	32
					Apr. 6, 1963	4.32	62
1961	Mar. 14, 1961	3.92	14		Apr. 19, 1963	4.02	29
1962	Feb. 9, 1962	4.50	57	1964	Nov. 19, 1963	3.99	27
	Feb. 13, 1962	4.71	85		Jan. 20, 1964	4.77	142
	Feb. 18, 1962	4.01	22				
	Mar. 5, 1962	4.16	30	1965	Dec. 23, 1964	4.53	107
					Jan. 5, 1965	4.52	105
1963	Oct. 13, 1962	5.28	290		Apr. 9, 1965	4.13	46
	Dec. 16, 1962	3.96	20		Apr. 16, 1965	4.13	46

a Discharge unknown; exceeded base.

1629. Sharon Creek near Menlo Park, Calif.

Location.--Lat 37°25'45", long 122°13'02", in Pulgas Grant, at Atherton city boundary, 900 ft upstream from Atherton drainage channel and 2.6 miles southwest of Menlo Park, San Mateo County.

Drainage area.--0.38 sq mi.

Gage.--Recording. Datum of gage is 146.18 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 18 cfs and extended above on basis of slope-area measurement at 56 cfs.

Historical data.--Flood of Apr. 2, 1958, reached a stage of about 4.2 ft, from floodmarks.

Remarks.--Only annual peak is shown in 1958. Base for partial-duration series, 9 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Apr. 2, 1958	4.2	-	1963	Dec. 15, 1962	2.02	15
					Jan. 31, 1963	3.07	68
1959	Feb. 16, 1959	2.40	27		Feb. 12, 1963	2.07	17
					Apr. 19, 1963	2.03	15
1960	Feb. 8, 1960	2.41	27				
	Feb. 9, 1960	2.01	12	1964	Nov. 5, 1963	2.31	12
					Nov. 19, 1963	2.35	19
1961	Mar. 17, 1961	1.16	.1		Nov. 23, 1963	1.99	14
					Jan. 20, 1964	2.74	48
1962	Nov. 20, 1961	1.90	9.1				
	Nov. 29, 1961	1.94	10	1965	Nov. 10, 1964	2.24	21
	Feb. 9, 1962	1.95	10		Dec. 22, 1964	2.22	27
	Feb. 13, 1962	2.42	26		Dec. 27, 1964	2.05	16
	Feb. 14, 1962	2.60	33		Jan. 5, 1965	2.17	23
	Mar. 5, 1962	3.10	56		Jan. 23, 1965	2.18	25
					Apr. 9, 1965	1.89	9.1
1963	Oct. 13, 1962	2.37	30				

SAN FRANCISQUITO CREEK BASIN

1629.5 San Francisquito Creek tributary near Stanford University, Calif.

Location.--Lat 37°24'43", long 122°11'52", in Pulgas Grant, on left bank 130 ft upstream from mouth, 200 ft downstream from ranch road bridge, 0.4 mile west of gate at Alpine Road, and 1.8 miles southwest of Stanford University Post Office, Santa Clara County.

Drainage area.--0.26 sq mi.

Gage.--Recording. Datum of gage is 174.73 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 16 cfs and extended above on basis of slope-area measurement at 39 cfs.

Remarks.--Base for partial-duration series, 5 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	2.03	9.3	1963	Oct. 13, 1962	2.13	12
					Jan. 31, 1963	2.96	38
1960	Feb. 8, 1960	2.10	11		Feb. 9, 1963	2.42	20
	Feb. 9, 1960	1.86	5.8		Feb. 12, 1963	2.14	12
					Mar. 16, 1963	1.83	5.2
1961	Nov. 25, 1960	1.22	.3		Mar. 27, 1963	2.05	9.8
1962	Feb. 13, 1962	2.09	11	1964	Nov. 5, 1963	1.85	5.6
	Feb. 14, 1962	2.39	19		Nov. 19, 1963	2.21	14
	Feb. 18, 1962	1.9	6.5		Jan. 20, 1964	2.81	33
	Mar. 5, 1962	2.98	39		Jan. 21, 1964	2.20	14

1632. Los Trancos Creek tributary near Stanford University, Calif.

Location.--Lat 37°24'18", long 122°11'09", in El Corte de Madera Grant, on right bank 350 ft east of wooden water tanks, 0.4 mile east of Ladera, 0.6 mile upstream from mouth, and 1.7 miles southwest of Stanford University Post Office, Santa Clara County.

Drainage area.--0.47 sq mi.

Gage.--Recording. Datum of gage is 269.13 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 8 cfs and extended above on basis of slope-area measurement at 57 cfs.

Remarks.--Base for partial-duration series, 6 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	2.32	37	1963	Feb. 9, 1963	2.27	36
					Feb. 12, 1963	1.64	6.7
1960	Feb. 8, 1960	1.80	10		Mar. 27, 1963	1.62	6.1
	Feb. 9, 1960	1.68	7.0				
				1964	Jan. 20, 1964	1.70	8.3
1961	Nov. 25, 1960	1.14	.1		Jan. 21, 1964	1.67	7.5
1962	Feb. 13, 1962	1.70	8.3	1965	Dec. 28, 1964	1.72	7.8
	Feb. 14, 1962	2.17	29		Dec. 30, 1964	1.84	12
	Mar. 5, 1962	2.53	57		Jan. 5, 1965	2.14	25
					Jan. 23, 1965	1.86	12
1963	Jan. 31, 1963	2.63	66				

1635. Los Trancos Creek at Stanford University, Calif.

Location.--Lat 37°24'35", long 122°11'35", in El Corte de Madera Grant, about 800 ft upstream from mouth and 1.6 miles southwest of Stanford University Post Office, Santa Clara County.

Drainage area.--7.50 sq mi.

Gage.--Recording. Altitude of gage is 160 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs.

Remarks.--Medium and low peaks may be affected by diversion for irrigation through Los Trancos Canal, beginning in 1931. Only annual peaks are shown prior to Oct. 1, 1937. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	-	-	0	1938	Mar. 2, 1938	2.79	308
1932	Feb. 8, 1932	2.93	320				
1933	Jan. 27, 1933	1.78	89	1939	Mar. 9, 1939	.73	7
1934	Feb. 26, 1934	1.99	119				
1935	Apr. 7, 1935	2.12	137	1940	Feb. 27, 1940	4.07	647
					Mar. 30, 1940	-	370
1936	Feb. 21, 1936	2.08	131				
1937	Mar. 21, 1937	3.13	399	1941	Feb. 11, 1941	4.05	641
					Apr. 4, 1941	-	568
1938	Feb. 13, 1938	3.10	385				

1645. San Francisquito Creek at Stanford University, Calif.

Location.--Lat 37°25'24", long 122°11'18", in San Francisquito Grant at golf course, on right bank 1.1 miles downstream from Los Trancos Creek and 1.1 miles west of Stanford University Post Office, Santa Clara County.

Drainage area.--37.5 sq mi.

Gage.--Recording. Altitude of gage is 120 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,300 cfs.

Bankfull stage.--17 ft.

Remarks.--Low peaks are partly regulated by Searsville Lake (capacity, 952 acre-ft) since beginning of record. Low peaks may also be affected by diversions to Los Trancos and Lagunita Canals for irrigation on Stanford University campus, subsequent to 1930 and 1931 respectively. Only annual peaks are shown prior to Oct. 1, 1950. Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	-	-	0	1956	Jan. 14, 1956	6.95	1,820
1932	Dec. 27, 1931	5.20	1,160		Jan. 26, 1956	5.10	1,010
1933	Jan. 27, 1933	4.18	730		Feb. 22, 1956	4.76	877
1934	Feb. 26, 1934	4.03	670				
1935	Apr. 8, 1935	6.35	1,560	1957	May 18, 1957	a2.59	-
1936	Feb. 21, 1936	6.72	1,660	1958	Jan. 29, 1958	4.24	756
1937	Feb. 4, 1937	9.15	2,620		Feb. 2, 1958	4.72	964
1938	Feb. 11, 1938	6.02	1,330		Feb. 7, 1958	4.33	792
	Mar. 2, 1938	5.96	1,330		Feb. 12, 1958	4.60	910
	Mar. 13, 1938	6.03	1,330		Feb. 19, 1958	5.14	1,170
1939	Feb. 8, 1939	2.02	120		Feb. 24, 1958	5.55	1,380
1940	Feb. 27, 1940	9.4	3,100		Mar. 16, 1958	4.28	772
					Mar. 20, 1958	5.31	1,260
1941	Feb. 11, 1941	8.08	2,410		Mar. 23, 1958	6.38	1,790
					Apr. 1, 1958	6.45	1,820
1951	Nov. 18, 1950	10.4	3,650		Apr. 2, 1958	11.04	4,460
	Dec. 3, 1950	7.95	2,340		Apr. 5, 1958	5.47	1,340
	Dec. 8, 1950	5.68	1,290				
	Mar. 4, 1951	5.30	1,120	1959	Feb. 16, 1959	4.48	868
1952	Dec. 4, 1951	5.90	1,380	1960	Feb. 8, 1960	4.84	1,020
	Dec. 28, 1951	5.70	1,300				
	Jan. 12, 1952	6.40	1,610	1961	Nov. 26, 1960	.83	12
	Jan. 14, 1952	7.00	1,880				
	Jan. 25, 1952	4.60	836	1962	Feb. 14, 1962	4.54	799
	Feb. 1, 1952	4.87	944		Mar. 5, 1962	5.02	996
	Mar. 14, 1952	7.90	2,320				
				1963	Oct. 13, 1962	5.38	1,130
1953	Dec. 7, 1952	7.15	1,950		Jan. 31, 1963	9.28	3,270
					Mar. 27, 1963	4.32	722
1954	Mar. 19, 1954	3.15	332				
				1964	Jan. 21, 1964	4.92	948
1955	Feb. 27, 1955	4.55	797				
				1965	Dec. 23, 1964	5.35	1,120
1956	Dec. 22, 1955	13.60	5,560		Jan. 5, 1965	5.10	1,020
	Dec. 26, 1955	6.20	1,470		Apr. 9, 1965	4.26	701

a Occurred May 21, 1957.

1655. San Francisquito Creek at Palo Alto, Calif.

Location.--Lat 37°27'10", long 122°08'20", in Rancho de las Pulgas Grant, 175 ft upstream from Newell Avenue Bridge, in Palo Alto, Santa Clara County, and about 2 miles upstream from mouth.

Drainage area.--40.9 sq mi.

Gage.--Recording. Altitude of gage is 5 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,860 cfs.

Remarks.--Low peaks may be partly regulated by Searsville Lake (capacity, 952 acre-ft). Low peaks may also be affected by diversions to Los Trancos and Lagunita Canals, for irrigation on Stanford University campus, subsequent to 1930 and 1931 respectively. Only annual peaks are shown.

Peak stages and discharges of San Francisquito Creek at Palo Alto, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	-	-	0	1937	Feb. 4, 1937	16.05	2,550
1932	Dec. 27, 1931	10.07	1,170	1938	Feb. 11, 1938	11.46	1,400
1933	Jan. 27, 1933	7.30	651	1939	Feb. 8, 1939	3.44	127
1934	Feb. 26, 1934	6.91	582	1940	Feb. 27, 1940	17.22	3,100
1935	Apr. 8, 1935	11.80	1,540	1941	Feb. 11, 1941	14.4	2,200
1936	Feb. 21, 1936	12.20	1,570				

MATADERO CREEK BASIN

1660. Matadero Creek at Palo Alto, Calif.

Location.--Lat 37°25'10", long 122°08'10", in Rinconada de San Francisquito Grant, on right bank on Ash Street, 150 ft upstream from Lambert Avenue Bridge and 2.1 miles southeast of post office at Palo Alto, Santa Clara County.

Drainage area.--7.24 sq mi.

Gage.--Recording. Prior to Sept. 25, 1958, at site 150 ft downstream at different datum. Altitude of gage is 25 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 390 cfs and extended on basis of slope-area measurement at 854 cfs prior to Sept. 25, 1958; defined by current-meter measurements below 60 cfs and extended on basis of critical-depth determination at 340 cfs thereafter.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 50 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Dec. 6, 1952	7.1	535	1959	Jan. 5, 1959	1.21	60
	Dec. 27, 1952	5.74	188		Jan. 9, 1959	1.25	66
	Dec. 30, 1952	5.74	188		Feb. 16, 1959	2.85	340
	Jan. 7, 1953	5.83	205	1960	Feb. 8, 1960	1.70	139
1954	Mar. 19, 1954	4.30	26	1961	Nov. 25, 1960	1.10	45
1955	Jan. 18, 1955	5.63	170	1962	Feb. 9, 1962	1.51	82
	Feb. 27, 1955	5.57	160		Feb. 14, 1962	2.58	275
1956	Dec. 19, 1955	4.75	64		Feb. 18, 1962	1.65	102
	Dec. 22, 1955	a9.88	s54		Mar. 5, 1962	2.94	365
	Dec. 26, 1955	7.50	590				
	Jan. 7, 1956	5.39	135	1963	Oct. 13, 1962	1.61	96
	Jan. 15, 1956	6.44	336		Jan. 31, 1963	3.97	641
	Jan. 20, 1956	5.42	139		Feb. 9, 1963	2.40	235
	Jan. 27, 1956	6.18	284		Mar. 16, 1963	1.39	67
	Feb. 22, 1956	5.08	97		Mar. 27, 1963	1.83	130
1957	Feb. 24, 1957	4.31	28	1964	Nov. 19, 1963	1.65	102
					Jan. 20, 1964	2.34	223
1958	Jan. 26, 1958	5.86	218				
	Feb. 2, 1958	6.56	312	1965	Nov. 8, 1964	1.49	88
	Feb. 12, 1958	5.34	145		Nov. 10, 1964	1.44	81
	Feb. 19, 1958	7.10	376		Dec. 23, 1964	1.88	153
	Feb. 24, 1958	7.61	431		Dec. 28, 1964	1.37	71
	Mar. 16, 1958	6.97	361		Dec. 30, 1964	1.36	70
	Mar. 20, 1958	9.92	625		Jan. 5, 1965	2.24	219
	Mar. 23, 1958	6.77	310		Jan. 24, 1965	1.45	82
	Apr. 2, 1958	10.30	672				
	Apr. 5, 1958	8.11	476				

a Occurred Dec. 23, 1955, backwater from culvert.

1665. Stevens Creek near Cupertino, Calif.

Location.--Lat 37°18'20", long 122°04'25", in SW¼ sec.22, T.7 S., R.2 W., on left bank on downstream side of highway bridge, 0.6 mile downstream from Stevens Creek Dam and 2.5 miles southwest of Cupertino.

Drainage area.--18.1 sq mi.

Gage.--Recording. Altitude of gage is 385 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurement below 1,410 cfs.

Remarks.--Peaks regulated by Stevens Creek Reservoir (capacity 3,860 acre-ft) beginning in December 1935. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 4, 1930	3.75	500	1945	Apr. 27, 1945	2.45	90
1931	Jan. 1, 1931	1.93	104	1946	Dec. 5, 1945	2.02	39
1932	Dec. 27, 1931	4.57	709	1947	June 17, 1947	1.78	18
1933	Jan. 27, 1933	2.73	200	1948	Apr. 4, 1948	2.07	42
1934	Jan. 1, 1934	3.63	389	1949	Dec. 26, 1948	2.15	50
1935	Apr. 8, 1935	3.60	409	1950	July 24, 1950	1.93	27
1936	Feb. 18, 1936	2.96	242	1951	Mar. 5, 1951	3.44	362
1937	Mar. 25, 1937	2.64	124	1952	Mar. 15, 1952	6.10	810
1938	Feb. 13, 1938	4.66	494	1953	Mar. 19, 1953	3.09	217
1939	June 1, 1939	2.52	103	1954	Jan. 17, 1954	1.91	25
1940	Feb. 28, 1940	7.05	1,090	1955	May 4, 1955	2.47	90
1941	Feb. 11, 1941	5.40	700	1956	Dec. 23, 1955	8.25	1,420
1942	Feb. 6, 1942	3.42	346	1957	Dec. 2, 1956	3.30	173
1943	Jan. 21, 1943	2.65	128	1958	Apr. 2, 1958	7.58	1,220
1944	Apr. 11, 1944	1.97	32	1959	Feb. 16, 1959	2.79	87

GUADALUPE RIVER BASIN

1670. Alamitos Creek near Edenvale, Calif.

Location.--Lat 37°14'08", long 121°52'08", in SW¼ sec.16, T.8 S., R.1 E., on right bank 0.6 mile upstream from confluence with Guadalupe Creek and 3.2 miles southwest of Edenvale.

Drainage area.--34.6 sq mi.

Gage.--Recording prior to Jan. 14, 1952, Dec. 19, 1952, to Sept. 30, 1953, and subsequent to May 18, 1956; nonrecording Jan. 14 to Dec. 18, 1952, Oct. 1, 1953, to Dec. 23, 1955, and Jan. 3 to May 17, 1956. Prior to Dec. 18, 1952, at site 1,400 ft downstream at different datums. Dec. 19, 1952, to Dec. 23, 1955, at site 0.2 mile downstream; Jan. 3 to May 17, 1956, at site 0.2 mile upstream at different datums. Altitude of gage is 200 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,800 cfs prior to Dec. 18, 1952, below 110 cfs and extended above on basis of slope-area measurement at 4,140 cfs for period Dec. 19, 1952, to Dec. 23, 1955. Defined by current-meter measurements below 240 cfs subsequent to May 17, 1956. Peak of Apr. 2, 1958, estimated on basis of peak outflows of Calero and Almaden Reservoirs plus estimated inflow between the reservoirs and the gage.

Remarks.--Peaks regulated by Calero Reservoir (capacity, 9,213 acre-ft) and Almaden Reservoir (capacity, 2,000 acre-ft) beginning in 1935. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 5, 1930	6.04	1,770	1935	Mar. 7, 1935	4.77	582
1931	-	-	0	1936	Feb. 12, 1936	4.08	270
1932	Dec. 27, 1931	6.60	2,670	1937	Feb. 13, 1937	6.05	1,840
1933	Jan. 29, 1933	3.75	175	1938	Dec. 11, 1937	6.35	2,280
1934	Jan. 1, 1934	5.78	1,490	1939	Apr. 13, 1939	3.20	47

Peak stages and discharges of Alamitos Creek near Edenvale, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 28, 1940	6.60	2,440	1950	Feb. 6, 1950	3.26	83
1941	Apr. 4, 1941	6.60	2,520	1951	Dec. 8, 1950	5.75	650
1942	Jan. 24, 1942	5.24	815	1952	Jan. 12, 1952	5.20	2,000
1943	Jan. 22, 1943	6.52	2,390	1953	Dec. 7, 1952	10.20	268
1944	Mar. 4, 1944	4.40	314	1954	Feb. 13, 1954	.76	98
1945	Feb. 2, 1945	6.07	1,700	1955	Jan. 18, 1955	.89	136
1946	Dec. 21, 1945	4.81	500	1956	Dec. 23, 1955	6.6	4,140
1947	Feb. 16, 1947	3.54	36	1957	Feb. 24, 1957	3.82	262
1948	Apr. 6, 1948	3.68	45	1958	Apr. 2, 1958	-	4,500
1949	Mar. 11, 1949	4.36	269				

1675. Guadalupe Creek at Guadalupe, Calif.
(Published as Los Capitancillos Creek 1945-53)

Location.--Lat 37°13'05", long 121°54'35", in SW¼ sec.19, T.8 S., R.1 E., on left bank 0.5 mile northwest of Guadalupe and 3.5 miles upstream from confluence with Alamitos Creek.

Drainage area.--12.7 sq mi.

Gage.--Recording. Altitude of gage is 325 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 840 cfs.

Remarks.--Peaks regulated by Guadalupe Reservoir (capacity, 3,500 acre-ft) beginning in 1936. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 5, 1930	3.55	982	1945	Feb. 1, 1945	3.45	850
1931	Jan. 1, 1931	1.51	50	1946	Dec. 21, 1945	2.04	181
1932	Dec. 28, 1931	4.05	1,160	1947	Nov. 23, 1946	1.31	52
1933	Jan. 29, 1933	2.20	234	1948	Apr. 29, 1948	2.10	205
1934	Jan. 1, 1934	2.90	525	1949	Mar. 11, 1949	2.20	238
1935	Mar. 6, 1935	2.43	370	1950	Jan. 14, 1950	1.85	102
1936	Feb. 11, 1936	1.90	182	1951	Dec. 8, 1950	2.09	202
1937	Feb. 13, 1937	2.80	520	1952	Jan. 12, 1952	4.22	1,330
1938	Feb. 10, 1938	3.95	1,150	1953	Dec. 7, 1952	1.94	161
1939	Mar. 8, 1939	1.59	84	1954	Feb. 13, 1954	1.94	161
1940	Feb. 27, 1940	3.20	705	1955	Feb. 26, 1955	2.14	230
1941	Apr. 4, 1941	3.68	988	1956	Dec. 22, 1955	4.20	1,320
1942	Jan. 24, 1942	2.40	310	1957	Feb. 24, 1957	2.10	216
1943	Jan. 21, 1943	3.23	722	1958	Apr. 2, 1958	6.31	2,750
1944	Mar. 4, 1944	1.91	152	1959	Feb. 16, 1959	2.95	571

1680. Los Gatos Creek at Los Gatos, Calif.

Location.--Lat 37°12'30", long 121°59'15", in NE¼ sec.29, T.8 S., R.1 W., on left bank 0.3 mile downstream from Trout Creek, 0.5 mile downstream from Lexington Reservoir, and 1.0 mile south of Los Gatos.

Drainage area.--38.6 sq mi.

Gage.--Recording. Prior to Oct. 1, 1943, at site 1 mile downstream at different datum. Oct. 1, 1943, to May 31, 1944, at site 0.5 mile downstream at different datum. Altitude of gage is 460 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs and extended above on basis of field estimate and velocity-area study at 7,100 cfs prior to 1943. Defined by current-meter measurements below 970 cfs for period Oct. 1, 1943, to May 31, 1944; below 1,700 cfs and extended on basis of computation of flow over dam at 3,540 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by Lake Elsman (capacity, 6,150 acre-ft) beginning in 1951 and Lexington Reservoir (capacity, 21,430 acre-ft) beginning in 1952. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 5, 1930	8.33	2,160	1944	Mar. 4, 1944	3.98	1,270
1931	Jan. 1, 1931	3.45	221	1954	Nov. 13, 1953	4.71	175
1932	Dec. 27, 1931	9.75	3,340	1955	May 19, 1955	3.85	81
1933	Jan. 29, 1933	4.63	582				
1934	Jan. 1, 1934	6.00	1,080	1956	Feb. 23, 1956	7.45	1,460
1935	Jan. 9, 1935	6.15	1,040	1957	Apr. 17, 1957	3.90	73
				1958	Apr. 2, 1958	9.90	3,540
1936	Feb. 11, 1936	6.90	1,310	1959	Sept.18, 1959	5.46	311
1937	Feb. 13, 1937	12.90	5,500	1960	Feb. 21, 1960	4.55	103
1938	Dec. 11, 1937	12.20	4,800				
1939	Mar. 9, 1939	4.76	485	1961	Mar. 17, 1961	4.43	92
1940	Feb. 27, 1940	14.71	7,110	1962	July 6, 1962	5.05	181
				1963	Feb. 2, 1963	7.77	1,660
1941	Apr. 4, 1941	11.60	4,150	1964	July 8, 1964	5.32	198
1942	Jan. 24, 1942	9.65	2,700	1965	Apr.4-6, 1965	5.13	153
1943	Jan. 21, 1943	12.07	4,610				

1685. Los Gatos Creek below Los Gatos, Calif.

Location.--Lat 37°14', long 121°58', in Rinconada de Los Gatos Grant, 350 ft downstream from Cypress Road Bridge and 0.9 mile northeast of railroad station in Los Gatos, Santa Clara County.

Drainage area.--42.6 sq mi.

Gage.--Recording. Altitude of gage is 310 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,600 cfs and extended above on basis of comparison with station at Los Gatos to 5,800 cfs.

Remarks.--Peaks regulated by Lake Elsman (capacity, 6,150 acre-ft) beginning in 1951 and Lexington Reservoir (capacity, 21,430 acre-ft) beginning in 1952. Only annual peaks are shown prior to Oct. 1, 1946, and subsequent to Oct. 1, 1952. Base for partial-duration series, 600 cfs.

Peak stages and discharges of Los Gatos Creek below Los Gatos, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Feb. 1, 1945	10.55	5,600	1951	Nov. 18, 1950	8.59	3,810
					Dec. 3, 1950	6.45	1,780
1946	Dec. 21, 1945	7.05	1,980		Dec. 8, 1950	6.60	1,930
1947	Nov. 23, 1946	-	604	1952	Dec. 4, 1951	5.38	1,410
	Feb. 12, 1947	5.74	664		Dec. 28, 1951	5.02	1,120
					Jan. 12, 1952	10.00	5,800
1948	Apr. 29, 1948	6.76	1,530		Jan. 14, 1952	5.45	3,050
					Jan. 16, 1952	3.24	1,270
1949	Mar. 3, 1949	-	1,070		Jan. 25, 1952	2.98	1,120
	Mar. 11, 1949	7.58	2,550		Mar. 15, 1952	5.40	3,000
					Mar. 18, 1952	2.95	1,100
1950	Jan. 14, 1950	-	872				
	Feb. 6, 1950	7.25	2,230	1953	Dec. 7, 1952	6.93	672
1951	Nov. 16, 1950	5.88	880				

1690. Guadalupe River at San Jose, Calif.
(Published as Guadalupe Creek prior to 1944)

Location.--Lat 37°20'00", long 121°54'00", at San Jose, Santa Clara County, on right bank 100 ft downstream from Los Gatos Creek.

Drainage area.--146 sq mi.

Gage.--Recording. Altitude of gage is 80 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,200 cfs.

Bankfull stage.--4 ft.

Remarks.--Peaks regulated by Almaden Reservoir (capacity, 1,960 acre-ft) beginning in 1936, Calero Reservoir (capacity, 9,630 acre-ft) beginning in 1936, Guadalupe Reservoir (capacity, 3,460 acre-ft) beginning in 1936, Lake Elsman (capacity, 6,150 acre-ft) beginning in 1951, and Lexington Reservoir (capacity, 21,460 acre-ft) beginning in 1952. Peaks may be affected by diversions upstream by San Jose Water Works for urban use and by diversions to percolation ponds. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 5, 1930	7.64	4,330	1948	Apr. 29, 1948	4.40	890
				1949	Mar. 10, 1949	7.29	2,500
1931	-	-	0	1950	Feb. 6, 1950	6.65	1,340
1932	Dec. 27, 1931	11.12	6,700				
1933	Jan. 29, 1933	2.07	365	1951	Nov. 18, 1950	9.0	2,730
1934	Jan. 1, 1934	5.37	2,450	1952	Jan. 12, 1952	15.2	8,000
1935	Jan. 9, 1935	4.35	1,650	1953	Dec. 7, 1952	7.07	738
				1954	Feb. 13, 1954	6.35	485
1936	Feb. 21, 1936	3.45	910	1955	Jan. 18, 1955	6.71	608
1937	Feb. 13, 1937	9.64	6,070				
1938	Dec. 11, 1937	9.80	6,660	1956	Dec. 23, 1955	13.94	5,570
1939	Mar. 9, 1939	2.67	338	1957	Feb. 24, 1957	7.04	666
1940	Feb. 27, 1940	11.88	8,680	1958	Apr. 2, 1958	16.55	9,150
				1959	Feb. 16, 1959	5.44	1,590
1941	Apr. 4, 1941	9.50	6,330	1960	Feb. 1, 1960	2.18	125
1942	Jan. 24, 1942	7.73	4,090				
1943	Jan. 23, 1943	10.68	6,350	1961	Dec. 1, 1960	2.68	279
1944	Mar. 4, 1944	5.37	1,960	1962	Feb. 15, 1962	4.10	1,380
1945	Feb. 2, 1945	11.25	6,600	1963	Oct. 13, 1962	10.86	6,300
				1964	Jan. 20, 1964	5.10	1,980
1946	Dec. 22, 1945	5.52	1,640	1965	Jan. 5, 1965	4.26	1,340
1947	Nov. 23, 1946	3.03	394				

1695. Saratoga Creek at Saratoga, Calif.
(Published as Campbell Creek prior to October 1951)

Location.--Lat 37°15'15", long 122°02'25", in Quito Grant, on right bank on downstream side of private road bridge, 0.5 mile southwest of Saratoga, Santa Clara County, and 0.7 mile downstream from diversion dam.

Drainage area.--9.22 sq mi.

Gage.--Recording. Altitude of gage is 500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 510 cfs and extended above on basis of slope-area measurement at 2,730 cfs.

Bankfull stage.--7 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1956. Base for partial-duration series, 110 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Jan. 1, 1934	3.13	314	1958	Feb. 19, 1958	4.15	442
1935	Jan. 4, 1935	2.90	254		Feb. 24, 1958	4.25	478
					Mar. 16, 1958	3.35	204
1936	Feb. 21, 1936	2.80	268		Mar. 21, 1958	4.12	432
1937	Feb. 13, 1937	3.8	910		Apr. 2, 1958	4.95	772
1938	Feb. 2, 1938	3.71	611		Apr. 5, 1958	3.93	367
1939	Mar. 8, 1939	2.41	110				
1940	Feb. 27, 1940	a5.90	2,540	1959	Jan. 9, 1959	3.10	147
					Feb. 16, 1959	4.75	683
1941	Apr. 4, 1941	3.78	608		Feb. 18, 1959	3.10	147
1942	Jan. 24, 1942	3.80	620				
1943	Jan. 21, 1943	4.80	1,650	1960	Feb. 1, 1960	3.02	133
1944	Mar. 4, 1944	2.68	175		Feb. 8, 1960	3.24	178
1945	Feb. 1, 1945	4.15	898				
				1961	Dec. 1, 1960	3.00	129
1946	Dec. 21, 1945	3.13	287				
1947	Nov. 22, 1946	2.46	100	1962	Feb. 9, 1962	3.96	377
1948	Apr. 29, 1948	2.63	134		Feb. 14, 1962	4.12	432
1949	Mar. 11, 1949	3.08	293		Feb. 18, 1962	2.99	127
1950	Feb. 5, 1950	2.95	222		Mar. 5, 1962	3.47	234
1951	Nov. 18, 1950	4.07	826	1963	Oct. 13, 1962	4.78	696
1952	Jan. 12, 1952	4.63	1,240		Jan. 31, 1963	5.68	1,160
1953	Dec. 7, 1952	3.58	494		Feb. 12, 1963	3.00	129
1954	Jan. 17, 1954	2.98	232		Mar. 27, 1963	3.08	144
1955	Feb. 26, 1955	2.50	107		Apr. 14, 1963	2.96	135
1956	Dec. 22, 1955	6.40	2,730	1964	Jan. 20, 1964	3.84	338
1957	Feb. 24, 1957	3.42	225	1965	Nov. 10, 1964	2.90	137
					Dec. 23, 1964	3.98	388
1958	Dec. 16, 1957	3.05	138		Jan. 5, 1965	4.40	535
	Jan. 26, 1958	3.33	199		Jan. 23, 1965	2.80	121
	Feb. 3, 1958	3.81	328		Apr. 9, 1965	3.10	172

a Occurred Mar. 1, 1940.

1700. Coyote Creek near Madrone, Calif.

Location.--Lat 37°10'06", long 121°38'55", near southeast corner of La Laguna Seca Grant, on right bank 1.2 miles downstream from Anderson Dam and 1.8 miles northeast of Madrone, Santa Clara County.

Drainage area.--196 sq mi.

Gage.--Nonrecording prior to Feb. 4, 1930; recording for periods of high water in 1907-12 and subsequent to Feb. 4, 1930. Prior to Oct. 1, 1912, 1.1 miles upstream at different datum. Dec. 15, 1916, to Mar. 1, 1950, at site 1.4 miles upstream at different datum. Altitude of gage is 375 ft (from topographic map).

Stage-discharge relation.--Basic data not available for period 1902-12, as records were furnished by Duryea, Haehl and Gilman. Defined by current-meter measurements below 8,700 cfs for period Dec. 15, 1916, to Mar. 1, 1950; below 3,400 cfs thereafter.

Remarks.--Peaks regulated by Coyote Lake (capacity, 24,510 acre-ft) beginning in February 1936 and Anderson Lake (capacity, 91,310 acre-ft) beginning in December 1950. Peaks for the years 1918, 1920, and 1924-25 are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	Mar. 31, 1903	-	15,000	1937	Mar. 22, 1937	10.40	4,060
				1938	Feb. 11, 1938	12.2	6,670
1905	Mar. 19, 1905a	-	3,000	1939	Mar. 9, 1939	5.21	283
				1940	Feb. 29, 1940	10.28	3,920
1906	Jan. 19, 1906a	-	8,350				
1907	Dec. 11, 1906a	-	8,210	1941	Apr. 4, 1941	10.48	4,180
1908	Jan. 25, 1908a	-	2,150	1942	Feb. 6, 1942	8.67	2,230
1909	Jan. 21, 1909a	-	8,230	1943	Jan. 21, 1943	11.42	5,450
1910	Dec. 9, 1909a	-	3,000	1944	Mar. 4, 1944	9.5	3,050
				1945	Feb. 2, 1945	12.15	6,580
1911	Mar. 7, 1911a	-	25,000				
1912	Mar. 12, 1912a	-	1,210	1946	Jan. 5, 1946	5.96	504
				1947	Nov. 23, 1946	4.85	196
1917	Feb. 21, 1917	14.5	10,100	1948	Apr. 12, 1948	4.97	221
1918	Mar. 12, 1918	8.5	2,090	1949	Mar. 11, 1949	6.34	663
1919	Feb. 10, 1919	13.0	8,030	1950	Jan. 28, 1950	5.60	365
1920	Mar. 22, 1920	6.9	970				
				1951	Nov. 22, 1950	4.00	230
1921	Jan. 30, 1921	11.2	5,130	1952	Mar. 31, 1952	2.70	93
1922	Feb. 10, 1922	14.0	9,760	1953	Dec. 7, 1952	2.70	93
1923	Jan. 24, 1923	-	9,200	1954	Sept.17, 1954	5.20	460
1924	Jan. 27, 1924	2.62	8	1955	Apr.17,18,	2.80	113
1925	Feb. 23, 1925	7.0	1,000		June 11,12,1955		
1926	Feb. 13, 1926	12.5	7,180	1956	May 16,17,1956	2.70	98
1927	Feb. 16, 1927	12.0	6,340	1957	July 14, 1957	2.97	127
1928	Mar. 27, 1928	10.0	3,580	1958	Apr. 3, 1958	9.65	5,750
1929	Feb. 3, 1929	6.80	920	1959	Apr. 5, 1959	2.77	176
1930	Mar. 5, 1930	12.10	6,500	1960	Oct. 20, 1959	2.78	170
1931	Feb. 15, 1931	4.61	178	1961	Apr. 13, 1961	2.81	180
1932	Dec. 28, 1931	14.48	10,600	1962	Feb. 22, 1962	2.79	183
1933	Jan. 29, 1933	8.72	2,080	1963	July 17, 1963	3.05	245
1934	Jan. 1, 1934	8.65	2,010	1964	Mar. 25, 1964	2.94	217
1935	Apr. 8, 1935	11.35	5,340	1965	June 19, 1965	2.74	113
1936	Feb. 22, 1936	6.85	1,020				

a Month in which peak occurred is known; date in month is that on which maximum daily discharge, and presumably the peak, occurred.

1705. Coyote Creek at Coyote, Calif.
(Published as "Coyote River" prior to Oct. 1, 1923)

Location.--Lat 37°13'45", long 121°44'20", near north end of La Laguna Seca Grant, a quarter of a mile upstream from ford and 1,000 ft east of Coyote, Santa Clara County.

Drainage area.--204 sq mi.

Gage.--Nonrecording. Altitude of gage is 250 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 5,200 cfs and extended above on basis of surface-float measurements at 8,420 and 9,260 cfs.

Remarks.--Peaks in the years 1917-18 and 1920, are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Feb. 21, 1917	15.2	9,900	1921	Jan. 17, 1921	14	6,080
1918	Mar. 12, 1918	10.5	1,470	1922	Feb. 10, 1922	15.4	10,300
1919	Feb. 10, 1919	14.5	8,300	1923	Jan. 24, 1923	15.0	9,000
1920	Mar. 22, 1920	9.4	1,030				

1715. Coyote Creek near Edenvale, Calif.
(Published as "Coyote River" prior to Oct. 1, 1926)

Location.--Lat 37°16'15", long 121°47'47", at east boundary of Santa Teresa Grant, on left bank at "The Narrows," 1.5 miles northeast of Edenvale, Santa Clara County, and 7 miles south of San Jose.

Drainage area.--229 sq mi.

Gage.--Nonrecording prior to Dec. 14, 1934; recording thereafter. Prior to Dec. 14, 1934, at site 250 ft upstream at same datum. Altitude of gage is 190 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 8,400 cfs prior to Dec. 14, 1934; below 5,200 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by Coyote Reservoir (capacity, 24,510 acre-ft) beginning in February 1936, a percolating reservoir beginning in January 1935, and Anderson Reservoir (capacity, 91,310 acre-ft) beginning in December 1950. Peak in the year 1919 is maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Feb. 21, 1917	12.2	8,590	1931	-	-	0
1918	Mar. 12, 1918	5.6	915	1932	Dec. 28, 1931	11.2	8,520
1919	Feb. 11, 1919	10.0	5,940	1933	Jan. 29, 1933	6.0	1,820
1920	Mar. 22, 1920	5.35	800	1934	Jan. 1, 1934	5.80	1,620
				1935	Apr. 8, 1935	7.00	4,250
1921	Jan. 30, 1921	8.90	4,430				
1922	Feb. 10, 1922	12.8	10,000	1936	Feb. 23, 1936	4.39	861
1923	Jan. 24, 1923	-	8,800	1937	Mar. 21, 1937	6.78	4,220
1924	-	-	0	1938	Feb. 11, 1938	8.7	7,920
1925	Feb. 13, 1925	5.70	1,130	1939	Mar. 9, 1939	3.31	162
				1940	Feb. 29, 1940	6.72	3,230
1926	Feb. 13, 1926	9.3	5,010				
1927	Feb. 16, 1927	9.0	4,630	1941	Apr. 4, 1941	7.05	3,810
1928	Mar. 27, 1928	7.80	3,430	1942	Jan. 24, 1942	5.60	2,420
1929	Feb. 4, 1929	4.05	326	1943	Jan. 21, 1943	7.25	5,350
1930	Mar. 5, 1930	8.5	4,200	1944	Mar. 5, 1944	5.60	2,420

Peak stages and discharges of Coyote Creek near Edenvale, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Feb. 2, 1945	7.35	5,550	1954	July 18, 1954	2.73	24
				1955	May 28, 1955	2.81	34
1946	Jan. 5, 1946	3.71	346				
1947	Nov. 25, 1946	3.14	95	1956	Dec. 23, 1955	5.02	1,610
1948	-	-	0	1957	Feb. 25, 1957	2.91	47
1949	Mar. 12, 1949	3.77	329	1958	Apr. 3, 1958	7.80	6,250
1950	Jan. 28, 1950	3.29	143	1959	Feb. 16, 1959	4.97	1,410
				1960	Jan. 13, 1960	3.05	71
1951	Dec. 8, 1950	3.80	400				
1952	Jan. 12, 1952	4.77	768	1961	Oct. 4, 1960	2.68	16
1953	Jan. 9, 1953	3.16	102	1962	Mar. 7, 1962	3.33	159

ALAMEDA CREEK BASIN

1765. Arroyo Valle near Livermore, Calif.

Location.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, on right bank 900 ft downstream from highway bridge, 1.1 miles upstream from Dry Creek, 4.1 miles south of Livermore, Alameda County, and 6.9 miles southeast of Pleasanton.

Drainage area.--147 sq mi.

Gage.--Recording. Altitude of gage is 500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6,300 cfs.

Bankfull stage.--14 ft.

Historical data.--Flood of Dec. 23, 1955, reached a stage of 13.93 ft (discharge, 18,200 cfs, as determined from contracted-opening and slope-area measurements of peak flow).

Remarks.--Only annual peak is shown for 1956. Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 23, 1955	13.93	18,200	1962	Feb. 10, 1962	5.20	1,450
					Feb. 15, 1962	6.05	2,590
1958	Jan. 26, 1958	5.88	1,820		Mar. 6, 1962	5.23	1,610
	Feb. 3, 1958	4.43	590				
	Feb. 5, 1958	4.37	552	1963	Feb. 1, 1963	9.34	8,810
	Feb. 12, 1958	4.10	406		Feb. 13, 1963	4.61	834
	Feb. 19, 1958	8.23	5,770		Mar. 28, 1963	4.10	475
	Feb. 25, 1958	6.38	2,450		Apr. 7, 1963	4.11	481
	Mar. 16, 1958	5.83	1,850		Apr. 15, 1963	3.82	325
	Mar. 22, 1958	6.58	2,730				
	Apr. 2, 1958	10.91	12,200	1964	Jan. 21, 1964	3.74	288
	Apr. 6, 1958	5.22	1,670				
				1965	Dec. 23, 1964	5.62	1,980
1959	Jan. 10, 1959	3.55	358		Dec. 28, 1964	4.14	499
	Feb. 16, 1959	8.15	6,680		Jan. 6, 1965	4.82	1,020
	Feb. 21, 1959	4.77	1,180		Jan. 24, 1965	3.95	392
					Apr. 10, 1965	4.77	973
1960	Feb. 9, 1960	5.10	1,330				
1961	Mar. 18, 1961	2.54	14				

1766. Arroyo Valle at Pleasanton, Calif.

Location.--Lat 37°40'02", long 121°53'02", in Valle de San Jose Grant, on right bank 0.4 mile northwest of Pleasanton, Alameda County, and 5.8 miles west of Livermore.

Drainage area.--171 sq mi.

Gage.--Recording. Altitude of gage is 350 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs.

Bankfull stage.--31 ft.

Remarks.--Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Jan. 27, 1958	8.55	782	1962	Feb. 11, 1962	9.12	523
	Feb. 3, 1958	7.80	545		Feb. 15, 1962	14.90	2,180
	Feb. 5, 1958	7.55	478		Mar. 6, 1962	12.34	1,610
	Feb. 13, 1958	6.90	340				
	Feb. 19, 1958	17.40	5,340	1963	Feb. 1, 1963	23.70	8,860
	Feb. 25, 1958	12.62	2,540		Feb. 13, 1963	9.84	799
	Mar. 16, 1958	11.01	1,750		Mar. 28, 1963	8.33	352
	Mar. 22, 1958	13.51	3,010		Apr. 7, 1963	8.24	333
	Apr. 3, 1958	25.36	11,300		Apr. 15, 1963	8.08	300
	Apr. 6, 1958	11.01	1,750				
				1964	Jan. 23, 1964	7.66	217
1959	Feb. 16, 1959	16.94	5,040				
	Feb. 18, 1959	7.77	581	1965	Dec. 23, 1964	14.35	2,040
	Feb. 21, 1959	9.24	1,070		Dec. 28, 1964	8.98	575
					Jan. 6, 1965	11.09	1,180
1960	Feb. 9, 1960	10.55	1,080		Jan. 24, 1965	8.20	374
					Apr. 11, 1965	10.43	969
1961	-	-	0				

1790. Alameda Creek near Niles, Calif.
(Published as "at Sunolglen" prior to 1922)

Location.--Lat 37°35'14", long 121°57'35", in NW¼ sec.15, T.4 S., R.1 W., on right bank 0.3 mile downstream from railroad bridge and 1.2 miles northeast of Niles.

Drainage area.--633 sq mi.

Gage.--Recording. Prior to Dec. 17, 1923, at site 800 ft upstream at different datum. Datum of gage is 85.65 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 16,900 cfs.

Bankfull stage.--16 ft.

Historical data.--The mean daily discharge for the flood of Nov. 30, 1892, was 16,200 cfs, from records furnished by Spring Valley Water Co.

Remarks.--Peaks regulated by Calaveras Resvervoir (usable capacity, 96,800 acre-ft) beginning in 1916. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Feb. 25, 1917	10.45	10,200	1926	Feb. 13, 1926	9.65	6,630
				1927	Feb. 18, 1927	7.40	3,650
1919	Feb. 10, 1919	11.99	13,600	1928	Mar. 27, 1928	8.50	4,850
1920	Apr. 15, 1920	3.57	1,070	1929	Feb. 4, 1929	4.02	288
				1930	Mar. 5, 1930	8.45	4,720
1921	Jan. 19, 1921	6.33	3,860				
1922	Feb. 10, 1922	12.44	13,900	1931	May 1, 1931	3.52	107
1923	Dec. 13, 1922	5.88	3,190	1932	Dec. 28, 1931	9.87	6,300
1924	Oct. 10, 1923	1.00	40	1933	Jan. 27, 1933	5.05	905
1925	Feb. 6, 1925	7.10	2,900	1934	Jan. 1, 1934	6.51	2,100

Peak stages and discharges of Alameda Creek near Niles, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Apr. 8, 1935	5.95	1,800	1951	Nov. 19, 1950	12.5	18,400
				1952	Jan. 12, 1952	13.92	24,300
1936	Feb. 14, 1936	8.80	5,450	1953	Dec. 7, 1952	5.62	1,470
1937	Mar. 22, 1937	10.30	7,350	1954	Feb. 14, 1954	4.56	592
1938	Feb. 11, 1938	11.46	10,500	1955	Jan. 18, 1955	4.70	690
1939	Feb. 8, 1939	4.79	783				
1940	Feb. 27, 1940	10.60	8,600	1956	Dec. 23, 1955	14.9	29,000
				1957	Feb. 25, 1957	5.05	970
1941	Apr. 5, 1941	9.62	6,720	1958	Apr. 3, 1958	14.17	25,500
1942	Jan. 25, 1942	8.90	5,510	1959	Feb. 16, 1959	7.46	4,260
1943	Jan. 23, 1943	9.94	7,290	1960	Feb. 8, 1960	6.12	2,120
1944	Mar. 5, 1944	6.97	2,820				
1945	Feb. 2, 1945	10.54	10,700	1961	Dec. 31, 1960	2.88	22
				1962	Feb. 15, 1962	6.96	3,340
1946	Dec. 25, 1945	4.69	713	1963	Feb. 1, 1963	10.48	11,500
1947	Mar. 10, 1947	3.61	167	1964	Jan. 22, 1964	5.89	1,850
1948	Mar. 24, 1948	3.36	104	1965	Dec. 23, 1964	8.01	5,320
1949	Mar. 12, 1949	4.76	755				
1950	Jan. 17, 1950	5.55	1,380				

SAN LORENZO CREEK BASIN

1810. San Lorenzo Creek at Hayward, Calif.

Location.--Lat 37°41'11", long 122°03'44", in San Lorenzo Grant, on right bank of bridge on B Street, just outside city limits of Hayward, Alameda County, 0.5 mile downstream from Crow Creek.

Drainage area.--37.5 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1946; recording thereafter. Datum of gage is 133.16 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,700 cfs and extended above on basis of slope-area measurements at 3,440, 4,790 and 7,460 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peak for the year 1940 is maximum observed. Only annual peaks are shown prior to Oct. 1, 1946. Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 27, 1940	13.13	2,990	1952	Dec. 29, 1951	9.83	1,520
					Jan. 12, 1952	11.10	1,990
1942	Jan. 24, 1942	15.7	4,200		Jan. 14, 1952	10.58	1,790
					Jan. 25, 1952	7.31	734
1947	Mar. 10, 1947	5.30	390		Feb. 1, 1952	8.63	1,120
					Mar. 14, 1952	6.73	585
1948	Mar. 23, 1948	3.48	98		Mar. 18, 1952	7.34	741
1949	Feb. 6, 1949	-	366	1953	Dec. 7, 1952	9.01	1,330
	Mar. 11, 1949	5.64	461		Jan. 7, 1953	6.27	537
					Jan. 20, 1953	5.71	408
1950	Jan. 17, 1950	7.64	921				
	Jan. 28, 1950	-	376	1954	Feb. 14, 1954	6.16	491
	Feb. 6, 1950	-	371				
				1955	Jan. 18, 1955	5.51	348
1951	Nov. 18, 1950	6.75	731				
	Dec. 3, 1950	12.70	2,610	1956	Dec. 22, 1955	20.82	4,790
	Dec. 8, 1950	7.80	983		Dec. 26, 1955	9.97	1,390
	Jan. 11, 1951	5.56	408		Jan. 7, 1956	9.50	1,260
	Jan. 18, 1951	9.23	1,400		Jan. 15, 1956	11.57	1,850
	Jan. 22, 1951	7.27	818		Jan. 25, 1956	9.66	1,300
	Feb. 5, 1951	6.90	718		Jan. 27, 1956	7.03	608
	Mar. 5, 1951	6.98	739		Feb. 22, 1956	7.50	730
1952	Dec. 1, 1951	6.10	502	1957	May 18, 1957	5.97	332
	Dec. 3, 1951	7.50	857				

Peak stages and discharges of San Lorenzo Creek at Hayward, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Jan. 26, 1958	6.78	718	1962	Feb. 9, 1962	6.90	495
	Jan. 29, 1958	8.36	1,270		Feb. 15, 1962	8.17	1,030
	Feb. 2, 1958	7.60	1,000		Feb. 18, 1962	7.75	843
	Feb. 9, 1958	6.10	500		Mar. 5, 1962	6.68	413
	Feb. 12, 1958	10.02	1,910				
	Feb. 19, 1958	8.06	1,170	1963	Oct. 13, 1962	19.73	7,460
	Feb. 24, 1958	8.64	1,370		Jan. 31, 1963	14.38	3,630
	Mar. 16, 1958	5.64	362		Mar. 27, 1963	7.16	382
	Mar. 21, 1958	7.27	890				
	Mar. 30, 1958	9.31	1,620	1964	Jan. 20, 1964	8.58	768
	Apr. 2, 1958	17.45	5,100				
	Apr. 5, 1958	10.87	2,250	1965	Dec. 24, 1964	8.32	597
					Dec. 29, 1964	8.14	542
1959	Feb. 16, 1959	5.79	312		Jan. 3, 1965	7.49	357
					Jan. 5, 1965	10.35	1,420
1960	Feb. 8, 1960	8.43	1,270				
1961	Nov. 26, 1960	5.23	147				

PINOLE CREEK BASIN

1821. Pinole Creek at Pinole, Calif.

Location.--Lat 37°58'21", long 122°14'43", in Pinole Grant, on left bank 0.2 mile downstream from county bridge on Pinole Valley Road and 0.8 mile upstream from Pinole city boundary, Contra Costa County.

Drainage area.--10.0 sq mi.

Gage.--Recording. Altitude of gage is 170 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 680 cfs.

Remarks.--Records furnished by East Bay Municipal Utility District. Only annual peaks are shown prior to Oct. 1, 1959. Base for partial-duration series 80 cfs

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Mar. 8, 1939	2.10	11	1960	Feb. 8, 1960	4.05	243
1940	Feb. 28, 1940	9.85	1,070				
				1961	Jan. 26, 1961	2.16	18
1941	Apr. 4, 1941	8.49	866				
1942	Feb. 6, 1942	9.3	1,000	1962	Feb. 9, 1962	4.50	344
1943	Jan. 22, 1943	7.80	753		Feb. 14, 1962	5.96	554
1944	Mar. 4, 1944	4.32	243		Mar. 5, 1962	5.15	440
1945	Feb. 1, 1945	5.40	383				
				1963	Oct. 13, 1962	7.18	797
1946	Dec. 22, 1945	4.70	292		Jan. 30, 1963	6.30	639
1947	Mar. 3, 1947	2.10	31		Feb. 9, 1963	4.32	314
1948	Mar. 22, 1948	1.67	13		Feb. 12, 1963	3.80	224
1949	Mar. 11, 1949	3.32	197		Mar. 28, 1963	4.86	398
1950	Feb. 4, 1950	3.65	252		Apr. 6, 1963	4.01	261
					Apr. 14, 1963	3.75	215
1951	Dec. 3, 1950	5.15	607		Apr. 18, 1963	3.37	150
1952	Jan. 14, 1952	8.44	924				
1953	Dec. 7, 1952	7.04	705	1964	Jan. 20, 1964	4.85	390
1954	Feb. 17, 1954	4.04	226				
1955	Feb. 26, 1955	3.35	145	1965	Dec. 23, 1964	3.09	113
					Dec. 26, 1964	3.11	115
1956	Dec. 22, 1955	6.99	697		Dec. 29, 1964	3.58	187
1957	Feb. 28, 1957	3.47	162		Jan. 3, 1965	3.78	219
1958	Apr. 2, 1958	11.63	1,660		Jan. 5, 1965	6.77	724
1959	Jan. 17, 1959	4.36	288				

1825. San Ramon Creek at San Ramon, Calif.

Location.--Lat 37°46'20", long 121°59'40", in sec.8, T.2 S., R.1 W., on right bank 0.2 mile downstream from Bollinger Creek and 1.0 mile southwest of San Ramon.

Drainage area.--5.89 sq mi.

Gage.--Recording. Altitude of gage is 530 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 140 cfs and extended above on basis of computations of flow through a culvert at 1,350 and 1,600 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Dec. 7, 1952	3.72	212	1958	Mar. 20, 1958	3.35	133
	Jan. 7, 1953	3.09	149		Mar. 23, 1958	3.17	117
	Jan. 20, 1953	2.66	106		Mar. 29, 1958	5.09	294
					Apr. 2, 1958	15.30	1,490
1954	Jan. 17, 1954	2.71	111		Apr. 5, 1958	4.25	214
	Feb. 14, 1954	3.17	157				
	Feb. 17, 1954	3.47	187	1959	Feb. 16, 1959	2.86	96
1955	Jan. 18, 1955	3.04	97	1960	Feb. 8, 1960	5.96	381
1956	Dec. 22, 1955	14.2	1,350	1961	Mar. 14, 1961	2.50	25
	Dec. 26, 1955	3.83	173				
	Jan. 7, 1956	3.88	228	1962	Feb. 9, 1962	4.54	233
	Jan. 15, 1956	3.78	218		Feb. 14, 1962	5.32	343
	Jan. 25, 1956	4.30	270				
	Feb. 22, 1956	3.76	216	1963	Oct. 13, 1962	16.98	1,600
					Jan. 31, 1963	12.09	1,250
1957	May 18, 1957	3.74	169		Apr. 14, 1963	3.11	110
1958	Jan. 26, 1958	4.88	273	1964	Jan. 20, 1964	5.57	480
	Jan. 29, 1958	4.24	214				
	Feb. 2, 1958	3.76	170	1965	Dec. 23, 1964	6.30	579
	Feb. 8, 1958	3.12	113		Dec. 26, 1964	3.60	196
	Feb. 12, 1958	4.55	242		Jan. 5, 1965	5.40	456
	Feb. 19, 1958	3.79	173		Jan. 23, 1965	3.88	231
	Feb. 24, 1958	4.90	275				

1830. San Ramon Creek at Walnut Creek, Calif.

Location.--Lat 37°53'04", long 122°03'00", on boundary between Arroyo de las Nueces y Bolbones and San Ramon Grants, on left bank 0.3 mile downstream from small tributary, 1.1 miles south of town of Walnut Creek, Contra Costa County, and 1.2 miles upstream from confluence with Las Trampas Creek.

Drainage area.--50.8 sq mi.

Gage.--Recording. Altitude of gage is 170 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,200 cfs and extended above on basis of slope-area measurements at 4,500 and 6,890 cfs.

Bankfull stage.--17 ft.

Remarks.--Base for partial-duration series, 500 cfs.

Peak stages and discharges of San Ramon Creek at Walnut Creek, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Dec. 7, 1952	7.60	1,880	1958	Mar. 22, 1958	5.84	1,020
	Jan. 7, 1953	6.64	1,400		Mar. 30, 1958	6.57	1,310
	Jan. 14, 1953	5.18	562		Apr. 2, 1958	13.16	6,530
	Jan. 20, 1953	5.16	554		Apr. 5, 1958	7.00	1,500
1954	Feb. 17, 1954	5.07	520	1959	Feb. 16, 1959	3.49	356
1955	Jan. 18, 1955	4.19	252	1960	Feb. 8, 1960	7.40	2,070
1956	Dec. 23, 1955	14.55	6,890	1961	Nov. 26, 1960	2.35	59
	Dec. 26, 1955	6.70	1,370				
	Jan. 7, 1956	6.35	1,180	1962	Feb. 14, 1962	6.53	1,550
	Jan. 15, 1956	6.80	1,420		Feb. 18, 1962	5.10	810
	Jan. 20, 1956	5.05	530		Mar. 5, 1962	4.54	594
	Jan. 25, 1956	8.85	2,630				
	Jan. 27, 1956	5.25	618	1963	Oct. 13, 1962	9.02	4,500
	Feb. 22, 1956	6.16	1,070		Jan. 31, 1963	14.40	7,980
					Feb. 12, 1963	4.78	652
1957	May 18, 1957	3.50	124		Mar. 27, 1963	4.90	700
					Apr. 14, 1963	4.58	578
1958	Jan. 26, 1958	5.33	834				
	Jan. 29, 1958	5.23	804	1964	Jan. 20, 1964	7.82	2,130
	Feb. 2, 1958	5.60	925				
	Feb. 7, 1958	4.43	582	1965	Dec. 23, 1964	8.47	2,550
	Feb. 12, 1958	7.64	1,830		Dec. 29, 1964	4.91	714
	Feb. 19, 1958	8.17	2,150		Jan. 3, 1965	5.06	774
	Feb. 24, 1958	8.12	2,120		Jan. 5, 1965	8.05	2,270
	Mar. 16, 1958	4.81	678		Jan. 23, 1965	5.73	1,050

1835. Walnut Creek at Walnut Creek, Calif.

Location.--Lat 37°54'21", long 122°03'22", in Arroyo de las Nueces y Bolbones Grant, on right bank at Southern Pacific Railroad bridge at town of Walnut Creek, Contra Costa County, 0.7 mile downstream from confluence of San Ramon and Las Trampas Creeks.

Drainage area.--79.2 sq mi.

Gage.--Recording. Prior to June 20, 1957, at site 0.6 mile upstream at different datum. Altitude of gage is 120 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,400 cfs and extended above on basis of records for upstream station prior to June 20, 1957; by current-meter measurements below 12,100 cfs and extended above on basis of records for upstream stations thereafter.

Bankfull stage.--21 ft.

Remarks.--Peaks slightly regulated by Lafayette Reservoir (capacity, 5,220 acre-ft) beginning in 1932. Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Dec. 7, 1952	11.15	3,660	1956	Feb. 22, 1956	9.48	2,740
	Dec. 30, 1952	5.40	643				
	Jan. 7, 1953	7.84	1,840	1957	May 18, 1957	6.06	624
	Jan. 14, 1953	5.70	775				
	Jan. 20, 1953	5.84	841	1958	Jan. 26, 1958	6.15	2,200
					Jan. 29, 1958	5.34	1,590
1954	Feb. 17, 1954	6.23	1,040		Feb. 2, 1958	5.96	2,070
					Feb. 7, 1958	5.00	1,210
1955	Jan. 18, 1955	4.98	476		Feb. 12, 1958	8.00	3,500
					Feb. 19, 1958	7.30	3,010
1956	Dec. 19, 1955	5.56	727		Feb. 24, 1958	8.58	3,910
	Dec. 23, 1955	23.22	11,000		Mar. 16, 1958	5.20	1,430
	Dec. 26, 1955	9.95	3,000		Mar. 20, 1958	6.30	2,310
	Jan. 7, 1956	8.01	1,940		Mar. 23, 1958	5.30	1,550
	Jan. 15, 1956	9.42	2,710		Mar. 30, 1958	5.99	2,090
	Jan. 20, 1956	5.68	781		Apr. 2, 1958	20.2	12,200
	Jan. 25, 1956	12.26	4,270		Apr. 5, 1958	7.47	3,130
	Jan. 27, 1956	5.85	858				
	Feb. 19, 1956	5.52	709	1959	Feb. 16, 1959	a11.96	857

a Occurred Sept. 18, 1959; backwater from temporary road crossing.

Peak stages and discharges of Walnut Creek at Walnut Creek, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1960	Feb. 8, 1960	7.88	3,420	1963	Feb. 12, 1963	4.82	1,040
					Mar. 27, 1963	5.00	1,170
1961	Mar. 14, 1961	3.96	360		Apr. 14, 1963	4.23	682
1962	Jan. 19, 1962	4.44	617	1964	Jan. 20, 1964	6.95	2,760
	Feb. 9, 1962	5.67	1,750				
	Feb. 13, 1962	5.55	1,660	1965	Dec. 23, 1964	6.24	3,340
	Feb. 14, 1962	7.55	3,200		Dec. 29, 1964	4.00	735
	Feb. 18, 1962	4.82	962		Jan. 3, 1965	4.47	1,100
	Mar. 5, 1962	5.22	1,400		Jan. 5, 1965	6.72	4,200
					Jan. 23, 1965	4.85	1,450
1963	Oct. 13, 1962	13.68	10,900		Apr. 9, 1965	3.98	721
	Jan. 31, 1963	12.55	9,180				

TULARE LAKE BASIN

2245. Los Gatos Creek above Nunez Canyon, near Coalinga, Calif.

Location.--Lat 36°12'55", long 120°28'10", in NE¼SW¼ sec.5, T.20 S., R.14 E., on right bank 50 ft downstream from highway bridge, 1.1 miles upstream from Nunez Canyon, 3.0 miles downstream from White Creek, and 8 miles northwest of Coalinga.

Drainage area.--95.8 sq mi.

Gage.--Recording. Prior to Aug. 2, 1959, at site 100 ft downstream at same datum. Altitude of gage is 1,100 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 260 cfs and extended above on basis of contracted-opening measurement at 2,560 cfs prior to Aug. 2, 1959; defined by current-meter measurements below 110 cfs and extended on basis of contracted-opening measurement at 2,560 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Feb. 6, 1950	1.96	61	1957	Apr. 17, 1957	2.16	113
1951	Oct. 27, 1950	1.88	39	1958	Jan. 26, 1958	2.18	108
					Feb. 4, 1958	3.65	670
1952	Dec. 5, 1951	2.26	145		Feb. 19, 1958	4.61	1,210
	Dec. 29, 1951	3.40	890		Feb. 25, 1958	2.97	368
	Jan. 12, 1952	3.15	645		Mar. 15, 1958	4.18	949
	Jan. 15, 1952	3.60	1,120		Mar. 21, 1958	4.58	1,190
	Jan. 25, 1952	3.70	1,250		Mar. 27, 1958	2.83	232
	Mar. 15, 1952	3.10	600		Apr. 3, 1958	6.51	2,560
	Mar. 18, 1952	2.40	194		Apr. 6, 1958	4.10	900
1953	Dec. 1, 1952	2.78	373	1959	Feb. 16, 1959	4.32	854
	Dec. 7, 1952	2.52	243		Feb. 21, 1959	3.23	168
	Dec. 20, 1952	1.93	48				
	Dec. 28, 1952	2.12	100	1960	Feb. 1, 1960	3.68	231
	Dec. 30, 1952	2.35	176				
	Jan. 8, 1953	2.90	410	1961	Dec. 1, 1960	3.39	117
1954	Nov. 14, 1953	2.62	288	1962	Dec. 2, 1961	3.97	124
	Jan. 24, 1954	2.71	334		Feb. 9, 1962	7.25	2,560
	Feb. 13, 1954	2.57	265		Feb. 15, 1962	4.75	365
	Mar. 16, 1954	2.24	138		Mar. 6, 1962	4.14	152
	Mar. 19, 1954	2.31	162				
				1963	Jan. 31, 1963	4.79	381
1955	Feb. 27, 1955	1.96	50		Feb. 9, 1963	5.18	570
					Feb. 13, 1963	4.19	167
1956	Dec. 23, 1955	3.09	592				
	Dec. 26, 1955	2.34	172	1964	Nov. 20, 1963	4.65	325
	Dec. 31, 1955	2.38	187		Jan. 22, 1964	3.91	55
	Jan. 25, 1956	3.19	681				
				1965	Jan. 6, 1965	4.39	119
1957	Jan. 13, 1957	2.39	190		Apr. 12, 1965	4.13	61
	Feb. 24, 1957	1.95	48				

2250. Los Gatos Creek near Coalinga, Calif.

Location.--Lat 37°13', long 120°27', in SW¼ sec.4, T.20 S., R.14 E., at mouth of canyon, 3 miles downstream from Diaz Creek and 7½ miles northwest of Coalinga.

Drainage area.--105 sq mi.

Gage.--Recording. Prior to Oct. 13, 1933, at datum 1 ft higher. Altitude of gage is 1,000 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 150 cfs and extended on basis of velocity-area and intake-drawdown studies.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Dec. 28, 1931	3.66	1,050	1937	Feb. 6, 1937	3.6	700
1933	Jan. 29, 1933	.9	20	1938	Feb. 11, 1938	6.23	4,520
1934	Dec. 31, 1933	3.15	900	1939	Mar. 21, 1939	4.50	1,900
1935	Nov. 15, 1934	2.45	510	1940	Feb. 25, 1940	3.46	1,100
1936	Feb. 22, 1936	3.50	940	1941	Apr. 4, 1941	5.58	4,000

2250.5. Warthan Creek tributary No. 1 near Coalinga, Calif.

Location.--Lat 36°05'55", long 120°32'00", in SE¼ sec.14, T.21 S., R.13 E., at culvert on State Highway 198, 10.5 miles southwest of Coalinga.

Drainage area.--0.13 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 1,500 ft (from topographic map).

Stage-discharge relation.--Defined by culvert computations.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	5.38	4.5	1963	Feb. 9, 1963	5.85	9.2
1960	Feb. 1, 1960	-	.3	1964	-	-	0
				1965	-	-	0
1961	Nov. 5, 1960	-	0				
1962	Feb. 6, 1962	5.68	7.2				

2250.75. Warthan Creek tributary No. 2 near Coalinga, Calif.

Location.--Lat 36°05'30", long 120°28'50", in N½ sec.20, T.21 S., R.14 E., at culvert on State Highway 198, 7.5 miles southwest of Coalinga.

Drainage area.--0.012 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 1,200 ft (from topographic map),

Stage-discharge relation.--No flow for entire period of record, 1959-65.

2480. Fine Gold Creek near Friant, Calif.

Location.--Lat 37°04'00", long 119°38'50", in NW¼NE¼ sec.14, T.10 S., R.21 E., on right bank 1,500 ft downstream from Willow Creek and 5.5 miles northeast of Friant.

Drainage area.--92.6 sq mi.

Gage.--Recording. Altitude of gage is 620 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6,500 cfs.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1944. Base for partial-duration series, 500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Feb. 6, 1937	16.45	6,780	1951	Dec. 4, 1950	14.00	4,900
1938	Mar. 12, 1938	20.4	10,300		Jan. 18, 1951	7.22	1,140
1939	Mar. 27, 1939	3.55	238				
1940	Jan. 25, 1940	13.53	4,550	1952	Dec. 29, 1951	7.88	1,310
					Jan. 15, 1952	9.22	1,880
1941	Feb. 12, 1941	-	4,000		Jan. 25, 1952	10.80	2,730
1942	Dec. 30, 1941	9.34	1,950		Mar. 16, 1952	9.03	1,790
1943	Jan. 21, 1943	14.56	5,320		Mar. 18, 1952	7.14	1,050
1944	Mar. 4, 1944	4.98	548				
				1953	Dec. 31, 1952	5.30	615
1945	Feb. 2, 1945	13.63	4,630		Jan. 13, 1953	6.76	1,050
	Feb. 3, 1945	-	1,570				
	Mar. 15, 1945	-	1,680	1954	Feb. 14, 1954	5.06	548
	Mar. 23, 1945	-	1,010				
	Mar. 26, 1945	-	1,360	1955	Jan. 1, 1955	4.75	334
1946	Dec. 22, 1945	-	636	1956	Dec. 23, 1955	17.94	7,450
	Dec. 25, 1945	-	514		Dec. 26, 1955	8.12	1,370
	Mar. 30, 1946	6.55	942		Jan. 23, 1956	6.52	831
					Jan. 25, 1956	13.38	3,940
1947	Dec. 27, 1946	7.93	1,480				
				1957	May 19, 1957	4.97	407
1948	Apr. 10, 1948	5.95	810				
				1958	Feb. 3, 1958	8.87	1,660
1949	Mar. 4, 1949	6.58	1,010		Feb. 25, 1958	9.79	2,050
					Mar. 16, 1958	13.83	4,230
1950	Feb. 5, 1950	5.67	726		Mar. 22, 1958	13.12	3,800
					Apr. 3, 1958	13.52	4,040
1951	Nov. 19, 1950	15.58	6,110		Apr. 6, 1958	8.02	1,330

2555. Panoche Creek below Silver Creek, near Panoche, Calif.

Location.--Lat 36°37'08", long 120°40'22", in SW¼SW¼ sec.16, T.15 S., R.12 E., on right bank 1.1 miles downstream from Silver Creek, 9 miles east of Panoche, and 18 miles southwest of Mendota.

Drainage area.--293 sq mi.

Gage.--Recording. Datum of gage is 558.26 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 870 cfs and extended above on basis of slope-area measurements at 2,510 and 5,090 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peak is shown for 1958. Base for partial-duration series, 50 cfs.

Peak stages and discharges of Panoche Creek below Silver Creek, near Panoche, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Sept.18, 1950	6.25	2,510	1958	Apr. 2, 1958	7.01	5,090
1951	Oct. 26, 1950	2.59	148	1959	Feb. 16, 1959	3.25	410
					Feb. 21, 1959	3.04	313
1952	Dec. 5, 1951	2.22	55				
	Dec. 28, 1951	3.10	332	1960	Jan. 9, 1960	1.15	.3
	Jan. 12, 1952	7.05	3,160				
	Jan. 15, 1952	4.21	1,090	1961	Jan. 26, 1961	1.44	1.0
	Jan. 25, 1952	4.38	1,080				
	Mar. 15, 1952	6.00	2,300	1962	Feb. 9, 1962	4.53	1,330
	Mar. 19, 1952	2.09	80		Feb. 15, 1962	4.46	1,260
	Apr. 9, 1952	2.17	95		Mar. 6, 1962	3.26	415
1953	Nov. 15, 1952	-	640	1963	Feb. 9, 1963	2.85	170
	Dec. 1, 1952	3.3	470				
	Dec. 17, 1952	2.3	119				
	Dec. 20, 1952	-	(a)	1964	Jan. 22, 1964	2.16	25
	Dec. 28, 1952	4.34	1,050				
	Dec. 30, 1952	2.28	114	1965	Oct. 28, 1964	2.96	147
	Jan. 8, 1953	2.25	107				

a Discharge unknown, exceeded base.

2555.5. Little Panoche Creek tributary No. 1 near Panoche, Calif.

Location.--Lat 36°43'05", long 120°51'50", in SW¼SE¼ sec.10, T.14 S., R.10 E., on right bank 1.0 mile north of Mercy Hot Springs and 8.7 miles north of Panoche.

Drainage area.--0.33 sq mi.

Gage.--Recording. Altitude of gage is 1,080 ft (from topographic map).

Stage-discharge relation.--Defined by computations of flow through a culvert at 0.73 and 4.9 cfs and extended on basis of estimate based on field survey of flow through a culvert at 58 cfs.

Bankfull stage.--13 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 20, 1959	5.32	0.7	1963	Feb. 9, 1963	5.47	2.2
1960	Feb. 9, 1960	5.30	.6	1964	Jan. 21, 1964	5.33	1.0
				1965	Apr. 10, 1965	5.54	3.0
1961	Nov. 6, 1960	5.65	4.9				
1962	Jan. 19, 1962	7.16	58				

2629.5. Wolf Creek near Volta, Calif.

Location.--Lat 37°04'05", long 121°09'40", in San Louis Gonzaga Grant, at culvert on State Highway 152, 13 miles west of Volta.

Drainage area.--2.82 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 410 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements to 13 cfs and extended above on basis of slope-area measurement at 207 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Wolf Creek near Volta, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 21, 1959	3.14	15	1962	Feb. 18, 1962	4.06	56
1960	Feb. 10, 1960	3.28	19	1963	Feb. 1, 1963	5.70	207
				1964	-	-	0
1961	-	-	0	1965	Jan. 20, 1965	3.17	16

2630. San Luis Creek near Los Banos, Calif.

Location.--Lat 37°03'55", long 121°04'15", in San Luis Gonzaga Grant, on left bank 300 ft downstream from Cottonwood Creek and 11.5 miles west of Los Banos, Merced County.

Drainage area.--84.6 sq mi.

Gage.--Recording. Altitude of gage is 231 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 470 cfs and extended above on basis of slope-area measurements at 2,760 and 3,420 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown in 1956 and 1958. Base for partial-duration series, 100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	-	-	0	1956	Dec. 23, 1955	7.07	2,640
				1958	Apr. 2, 1958	7.99	3,420
1951	Nov. 19, 1950	5.60	2,760				
	Dec. 3, 1950	5.08	1,680	1959	Feb. 16, 1959	4.16	305
	Dec. 8, 1950	3.87	504		Feb. 21, 1959	4.23	328
1952	Dec. 4, 1951	3.45	296	1960	Feb. 10, 1960	3.98	344
	Dec. 28, 1951	3.62	372				
	Jan. 12, 1952	3.96	556	1961	Jan. 26, 1961	2.03	2.6
	Jan. 14, 1952	5.52	2,560				
	Jan. 25, 1952	4.77	1,250	1962	Feb. 11, 1962	3.10	117
	Mar. 15, 1952	3.00	156		Feb. 15, 1962	4.93	798
	Mar. 19, 1952	4.41	879		Feb. 18, 1962	4.15	410
1953	Dec. 7, 1952	3.14	191	1963	Feb. 1, 1963	7.41	2,930
	Jan. 13, 1953	3.17	200		Feb. 13, 1963	3.58	255

2745. Orestimba Creek near Newman, Calif.

Location.--Lat 37°19'09", long 121°07'12", on line between secs.17 and 20, T.7 S., R.8 E., at left bank peir of county road bridge, 3 miles downstream from Oso Creek and 5 miles west of Newman.

Drainage area.--134 sq mi.

Gage.--Recording. Prior to Oct. 1, 1958, at datum 3.00 ft higher. Datum of gage is 188.86 ft above mean sea level, adjustment of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 5,000 cfs.

Bankfull stage.--10 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1946. Base for partial-duration series, 50 cfs.

Peak stages and discharges of Orestimba Creek near Newman, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Feb. 8, 1932	5.15	4,260	1956	Dec. 26, 1955	2.12	421
1933	Jan. 29, 1933	2.3	345		Dec. 31, 1955	1.92	310
1934	Jan. 1, 1934	2.61	516		Jan. 5, 1956	1.74	231
1935	Apr. 8, 1935	3.56	1,320		Jan. 8, 1956	1.85	278
					Jan. 20, 1956	1.30	100
1936	Feb. 13, 1936	3.45	1,200		Jan. 25, 1956	2.76	956
1937	Feb. 13, 1937	4.28	2,180		Feb. 23, 1956	1.68	208
1938	Feb. 11, 1938	4.80	3,230				
1939	Mar. 9, 1939	1.82	115	1957	Feb. 24, 1957	3.15	1,440
1940	Feb. 27, 1940	4.90	3,440		Mar. 1, 1957	1.12	60
1941	Apr. 4, 1941	4.72	3,070	1958	Jan. 26, 1958	2.17	564
1942	Jan. 24, 1942	4.05	1,880		Feb. 5, 1958	1.56	189
1943	Jan. 21, 1943	5.95	6,450		Feb. 12, 1958	1.40	130
1944	Feb. 29, 1944	3.53	1,290		Feb. 19, 1958	4.05	3,200
1945	Feb. 2, 1945	5.74	5,970		Feb. 25, 1958	2.69	1,070
					Mar. 16, 1958	3.56	2,240
1946	Dec. 25, 1945	2.87	782		Mar. 21, 1958	2.85	1,250
					Apr. 2, 1958	6.57	10,200
1947	-	-	0		Apr. 6, 1958	3.05	1,240
1948	-	-	0	1959	Jan. 10, 1959	5.42	120
					Feb. 12, 1959	5.24	73
1949	Mar. 12, 1949	2.19	335		Feb. 16, 1959	8.85	5,380
					Feb. 21, 1959	6.82	1,290
1950	Feb. 5, 1950	1.80	175				
				1960	Feb. 5, 1960	5.37	109
1951	Nov. 19, 1950	3.65	1,470		Feb. 10, 1960	6.06	448
	Dec. 3, 1950	4.49	2,920				
	Dec. 8, 1950	3.87	1,710	1961	-	-	0
	Jan. 19, 1951	1.41	77				
	Mar. 5, 1951	1.40	75	1962	Feb. 10, 1962	6.43	796
					Feb. 15, 1962	7.14	1,740
1952	Dec. 4, 1951	3.12	1,010		Mar. 2, 1962	5.27	80
	Dec. 30, 1951	2.15	345		Mar. 6, 1962	5.91	337
	Jan. 12, 1952	4.70	3,660				
	Jan. 14, 1952	3.87	2,110	1963	Feb. 1, 1963	9.72	8,300
	Jan. 25, 1952	3.93	2,210		Feb. 10, 1963	5.42	209
	Mar. 7, 1952	1.76	206		Feb. 13, 1963	6.31	810
	Mar. 15, 1952	3.72	1,880		Mar. 28, 1963	5.66	202
	Mar. 18, 1952	2.00	295		Apr. 7, 1963	6.10	480
	Apr. 10, 1952	1.34	92		Apr. 14, 1963	5.36	86
					Apr. 21, 1963	5.40	100
1953	Dec. 7, 1952	1.71	147				
	Dec. 31, 1952	1.29	59	1964	Jan. 22, 1964	5.59	156
	Jan. 9, 1953	1.22	50				
				1965	Dec. 31, 1964	5.57	148
1954	-	-	0		Jan. 3, 1965	5.75	240
					Jan. 6, 1965	6.20	560
1955	Jan. 19, 1955	.86	16		Jan. 24, 1965	5.30	62
					Apr. 10, 1965	5.80	270
1956	Dec. 23, 1955	5.18	5,620				

2746. Del Puerto Creek tributary No. 1 near Patterson, Calif.

Location.--Lat 37°24'15", long 121°26'10", in NE¼NW¼ sec.21, T.6 S., R.5 E., at culvert on county road 17.5 miles southwest of Patterson.

Drainage area.--0.71 sq mi.

Gage.--Crest-stage gage prior to Oct. 1, 1963; recording thereafter. Altitude of gage is 1,730 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6 cfs and extended above on basis of culvert computations.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Del Puerto Creek tributary No. 1 near Patterson, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	93.57	17	1962	Mar. 7, 1962	93.56	17
1960	Feb. 10, 1960	93.05	5.0	1963	Feb. 1, 1963	93.73	20
				1964	Jan. 20, 1964	7.61	1.3
1961	-	-	0	1965	Dec. 22, 1964	7.94	9.0

2746.1 Del Puerto Creek tributary No. 2 near Patterson, Calif.

Location.--Lat 37°25'25", long 121°20'30", in NE¼SW¼ sec.8, T.6 S., R.6 E., on left bank 0.5 mile downstream from Fall Canyon and 12 miles southwest of Patterson.

Drainage area.--0.02 sq mi.

Gage.--Recording. Altitude of gage is 1,020 ft (from topographic map).

Stage-discharge relation.--Defined by culvert computation to 0.5 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	5.73	0.5	1962	-	-	0
1960	-	-	0	1963	-	-	0
				1964	-	-	0
1961	-	-	0	1965	-	-	0

3040. Corral Hollow Creek near Tracy, Calif.

Location.--37°39'24", long 121°28'40", in SE¼NE¼ sec.24, T.3 S., R.4 E., on left bank just upstream from highway bridge, 0.8 mile downstream from Elk Ravine and 6.3 miles southwest of Tracy.

Drainage area.--61.6 sq mi.

Gage.--Recording. Altitude of gage is 330 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 135 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 40 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	2.78	129	1962	Mar. 6, 1962	2.54	145
	Feb. 21, 1959	2.58	94	1963	Feb. 1, 1963	2.04	56
1960	Feb. 10, 1960	2.28	91	1964	Jan. 21, 1964	1.39	4.2
1961	Jan. 26, 1961	1.69	8.5	1965	Jan. 7, 1965	2.10	54
1962	Feb. 15, 1962	2.45	74				

3129.25 Mountain House Creek tributary near Altamont, Calif.

Location.--Lat 37°44'42", long 121°37'50", in SW¼NE¼ sec.22, T.2 S., R.3 E., at culvert on old U.S. Highway 50, 1.8 miles east of Altamont.

Drainage area.--0.27 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 506 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 0.34 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	-	0.5	1962	Feb. 9, 1962	-	0.2
1960	Feb. 1, 1960	-	2	1963	Feb. 1, 1963	6.25	.5
				1964	June 9, 1964	5.81	.1
1961	Jan. 31, 1961	5.84	.2	1965	Jan. 19, 1965	-	.3

3129.5. Mountain House Creek near Midway, Calif.

Location.--Lat 37°44'45", long 121°35'00", in SW¼NW¼ sec.19, T.2 S., R.4 E., at culvert on county road 2.5 miles northwest of Midway.

Drainage area.--11.7 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 265 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2 cfs and extended on basis of culvert computations to 38 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	2.92	10	1962	Mar. 6, 1962	2.74	22
1960	Feb. 8, 1960	4.12	60	1963	Feb. 1, 1963	2.65	19
				1964	Jan. 21, 1964	2.60	8
1961	Jan. 31, 1961	2.64	3.6	1965	Dec. 23, 1964	2.30	5.9

3375. Marsh Creek near Byron, Calif.

Location.--Lat 37°52'25", long 121°43'35", in Los Meganos Grant, on right bank 40 ft downstream from highway bridge on Marsh Creek road and 5.0 miles west of Byron, Contra Costa County.

Drainage area.--42.6 sq mi.

Gage.--Recording. Datum of gage is 177.87 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs and extended above on basis of slope-area measurement at 3,800 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1958. Base for partial-duration series, 40 cfs.

Peak stages and discharges of Marsh Creek near Byron, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Feb. 14, 1954	4.53	32	1963	Oct. 13, 1962	4.14	200
1955	Feb. 27, 1955	4.48	86		Jan. 31, 1963	11.62	3,880
					Feb. 13, 1963	4.38	235
1956	Dec. 23, 1955	12.98	3,800		Mar. 28, 1963	4.66	305
1957	Feb. 24, 1957	4.38	144		Apr. 7, 1963	4.32	221
1958	Apr. 2, 1958	10.90	3,380		Apr. 14, 1963	5.07	436
					Apr. 20, 1963	3.95	139
1959	Feb. 11, 1959	2.11	53				
	Feb. 16, 1959	3.11	186	1964	Jan. 21, 1964	4.93	391
	Feb. 21, 1959	2.33	74				
				1965	Dec. 23, 1964	7.84	1,570
1960	Feb. 8, 1960	5.57	590		Dec. 29, 1964	5.05	372
					Jan. 3, 1965	5.08	380
1961	-	-	0		Jan. 6, 1965	5.27	442
					Jan. 24, 1965	3.88	111
1962	Feb. 10, 1962	3.55	92		Apr. 9, 1965	4.16	160
	Feb. 14, 1962	5.30	505		Apr. 16, 1965	3.85	106
	Feb. 18, 1962	4.17	206				
	Mar. 5, 1962	3.92	156				

SACRAMENTO RIVER BASIN

3744. Middle Fork Cottonwood Creek near Ono, Calif.

Location.--Lat 40°23'25", long 122°31'15", in SE¼SE¼ sec.3, T.29 N., R.6 W., on left bank 0.4 mile upstream from North Fork and 7.8 miles southeast of Ono.

Drainage area.--249 sq mi.

Gage.--Recording. Altitude of gage is 550 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,700 cfs.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 1,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Feb. 24, 1957	11.45	4,920	1960	Mar. 8, 1960	8.57	2,100
1958	Oct. 13, 1957	10.65	4,000	1961	Jan. 31, 1961	11.08	4,480
	Dec. 21, 1957	9.32	2,550		Feb. 9, 1961	8.72	1,980
	Dec. 28, 1957	9.61	2,850				
	Jan. 26, 1958	12.09	5,690	1962	Feb. 14, 1962	9.45	2,680
	Jan. 29, 1958	12.13	5,740		Mar. 5, 1962	9.72	2,970
	Feb. 4, 1958	11.27	4,700				
	Feb. 7, 1958	10.07	3,360	1963	Oct. 13, 1962	8.67	1,940
	Feb. 12, 1958	13.22	7,050		Jan. 31, 1963	11.71	5,230
	Feb. 15, 1958	11.47	4,940		Feb. 10, 1963	10.47	3,800
	Feb. 18, 1958	14.74	9,090		Feb. 12, 1963	9.34	2,570
	Feb. 24, 1958	14.64	8,950		Mar. 27, 1963	9.52	2,750
	Mar. 22, 1958	9.39	2,620		Apr. 8, 1963	9.86	3,130
	Mar. 24, 1958	9.11	2,340		Apr. 14, 1963	9.24	2,470
	Mar. 29, 1958	9.19	2,420				
	Apr. 2, 1958	9.06	2,290	1964	Jan. 20, 1964	12.74	6,470
	Apr. 5, 1958	11.88	5,440				
				1965	Dec. 22, 1964	19.08	13,500
1959	Jan. 12, 1959	9.70	2,940		Jan. 5, 1965	11.56	5,280
	Feb. 16, 1959	10.24	3,530		Jan. 23, 1965	8.74	2,400
					Apr. 8, 1965	8.52	2,200
1960	Feb. 8, 1960	13.66	7,620		Apr. 20, 1965	11.98	5,740

3755. North Fork Cottonwood Creek at Ono, Calif.

Location.--Lat 40°28'20", long 122°37'20", near center of sec.11, T.30 N., R.7 W., at highway bridge 250 ft downstream from Rector (formerly Byron) Creek, 0.3 mile southwest of Ono, and 0.5 mile upstream from Eagle Creek.

Drainage area.--58.8 sq mi.

Gage.--Nonrecording. Altitude of gage is 850 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,200 cfs.

Bankfull stage.--18 ft.

Remarks.--All peaks are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	Feb. 9, 1908	7.5	2,200	1911	Mar. 6, 1911	8.0	3,000
1909	Feb. 2, 1909	9.8	7,400	1912	Jan. 25, 1912	7.4	2,050
1910	Dec. 8, 1909,			1913	Jan. 18, 1913	6.7	1,160
	Mar. 22, 1910	6.8	1,270	1914	Dec. 31, 1913	9.0	5,200

3757. North Fork Cottonwood Creek near Igo, Calif.

Location.--Lat 40°26'32", long 122°32'57", in SE¼NW¼ sec.21, T.30 N., R.6 W., near right bank on downstream side of bridge on Gas Point Road, 1.2 miles downstream from Huling Creek, 4.4 miles south of Igo, and 4.5 miles upstream from Middle Fork.

Drainage area.--88.7 sq mi.

Gage.--Recording. Altitude of gage is 630 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6,400 cfs.

Bankfull stage.--Not subject to overflow.

Historical data.--Flood of Dec. 21, 1955, reached a peak discharge of 12,100 cfs, by slope-area measurement at site 1.2 miles upstream (above Huling Creek).

Remarks.--Records furnished by the California Department of Water Resources. Peaks regulated by Rainbow Lake (capacity, 4,800 acre-ft) beginning prior to 1957. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 21, 1955	-	12,100	1961	Jan. 31, 1961	36.38	9,130
1957	Feb. 24, 1957	33.97	3,590	1962	Jan. 31, 1962	35.20	5,960
1958	Feb. 18, 1958	35.59	6,930	1963	Jan. 31, 1963	35.92	7,810
1959	Feb. 16, 1959	33.69	2,930	1964	Jan. 20, 1964	35.89	7,910
1960	Feb. 8, 1960	35.70	7,210	1965	Dec. 22, 1964	41.7	11,000

3760. Cottonwood Creek near Cottonwood, Calif.

Location.--Lat 40°23'10", long 122°14'15", in NE¼ sec.7, T.29 N., R.3 W., on right bank 2 miles east of Cottonwood and 2.4 miles upstream from mouth.

Drainage area.--922 sq mi.

Gage.--Recording. Altitude of gage is 370 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 43,000 cfs.

Bankfull stage.--20 ft.

Historical data.--Flood of December 1937 or February 1940 reached a stage of about 15.5 ft, by levels obtained Aug. 18, 1940.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 7,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 1, 1941	15.4	52,300	1956	Dec. 6, 1955	8.44	9,100
1942	Feb. 5, 1942	14.10	42,600		Dec. 19, 1955	13.54	30,900
1943	Jan. 21, 1943	13.42	32,000		Dec. 22, 1955	15.23	49,000
					Jan. 7, 1956	7.75	7,400
1944	Feb. 3, 1944	6.70	5,800		Jan. 15, 1956	12.91	26,200
					Jan. 20, 1956	7.96	7,900
1945	Feb. 1, 1945	-	8,160		Jan. 26, 1956	8.58	9,470
	Feb. 2, 1945	9.88	16,100		Feb. 21, 1956	15.14	47,900
1946	Dec. 4, 1945	-	13,100	1957	Feb. 24, 1957	10.80	15,900
	Dec. 22, 1945	-	11,300				
	Dec. 23, 1945	-	12,300	1958	Oct. 13, 1957	9.02	11,000
	Dec. 25, 1945	-	13,000		Dec. 21, 1957	7.26	7,120
	Dec. 27, 1945	12.06	22,000		Dec. 28, 1957	7.91	8,500
	Jan. 4, 1946	-	17,400		Jan. 26, 1958	12.95	26,400
					Jan. 29, 1958	10.69	15,700
1947	Feb. 12, 1947	9.84	13,200		Feb. 4, 1958	11.00	16,700
	Mar. 3, 1947	-	12,100		Feb. 7, 1958	9.10	11,200
					Feb. 9, 1958	8.46	9,710
1948	Apr. 29, 1948	8.40	9,870		Feb. 12, 1958	12.50	23,600
					Feb. 14, 1958	10.50	15,100
1949	Mar. 3, 1949	-	8,730		Feb. 19, 1958	15.20	48,600
	Mar. 4, 1949	-	7,310		Feb. 24, 1958	14.58	41,200
	Mar. 19, 1949	12.04	21,900		Mar. 22, 1958	9.41	11,800
					Mar. 24, 1958	8.93	10,500
1950	Feb. 6, 1950	8.63	10,700		Mar. 29, 1958	9.51	12,100
					Apr. 2, 1958	9.48	12,000
1951	Dec. 4, 1950	9.55	12,400		Apr. 6, 1958	11.42	18,200
	Dec. 14, 1950	10.31	14,800				
	Jan. 22, 1951	10.15	14,200	1959	Jan. 12, 1959	8.54	9,370
	Feb. 4, 1951	-	-		Feb. 16, 1959	11.40	18,900
1952	Dec. 1, 1951	8.94	10,500	1960	Feb. 1, 1960	8.10	7,980
	Dec. 27, 1951	14.15	32,600		Feb. 3, 1960	7.90	7,440
	Jan. 11, 1952	9.45	12,300		Feb. 8, 1960	12.78	26,100
	Jan. 14, 1952	11.24	20,100				
	Jan. 24, 1952	8.35	8,870	1961	Dec. 1, 1960	8.08	8,090
	Feb. 2, 1952	9.59	12,900		Jan. 31, 1961	10.80	16,700
					Feb. 9, 1961	7.79	8,350
1953	Dec. 7, 1952	12.03	20,300				
	Dec. 10, 1952	8.12	8,290	1962	Dec. 1, 1961	7.67	8,040
	Dec. 20, 1952	9.15	11,000		Feb. 15, 1962	11.26	18,300
	Dec. 27, 1952	9.15	11,000		Mar. 6, 1962	10.96	17,200
	Dec. 30, 1952	9.03	10,600				
	Jan. 7, 1953	9.07	10,800	1963	Oct. 12, 1962	7.32	7,150
	Jan. 9, 1953	9.06	10,700		Jan. 31, 1963	12.28	23,100
	Jan. 13, 1953	11.15	17,000		Feb. 10, 1963	9.08	10,000
	Jan. 18, 1953	9.87	13,000		Mar. 27, 1963	9.45	12,200
					Apr. 14, 1963	9.42	12,100
1954	Jan. 17, 1954	11.70	19,000				
	Jan. 23, 1954	8.65	9,600	1964	Jan. 20, 1964	13.25	13,000
	Jan. 28, 1954	11.82	19,500				
	Feb. 12, 1954	10.52	15,000	1965	Nov. 11, 1964	11.10	7,250
	Feb. 17, 1954	8.57	9,440		Dec. 22, 1964	19.64	60,000
	Mar. 9, 1954	9.78	12,700		Jan. 5, 1965	16.69	28,500
	Mar. 21, 1954	9.04	10,700		Apr. 9, 1965	12.96	10,300
	Apr. 5, 1954	8.49	9,230		Apr. 21, 1965	13.45	12,200
1955	Jan. 19, 1955	7.59	7,020				

3795. Elder Creek near Paskenta, Calif.

Location.--Lat 40°01'30", long 122°30'30", in NW¼ sec.14, T.25 N., R.6 W., on right bank 2.5 miles downstream from South Fork, 8 miles northeast of Flournoy, and 11 miles north of Paskenta.

Drainage area.--92.9 sq mi.

Gage.--Recording. Altitude of gage is 720 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,200 cfs and extended above on basis of slope-area measurements at 7,160 and 10,700 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Mar. 2, 1949	-	1,220	1958	Jan. 25, 1958	9.93	4,390
	Mar. 11, 1949	8.78	3,690		Jan. 29, 1958	8.58	2,820
	Mar. 19, 1949	-	1,490		Feb. 2, 1958	11.20	6,340
	Mar. 22, 1949	-	1,940		Feb. 7, 1958	8.83	3,070
					Feb. 9, 1958	8.07	2,310
1950	Feb. 5, 1950	6.13	928		Feb. 12, 1958	9.80	4,230
					Feb. 15, 1958	10.15	4,710
1951	Oct. 29, 1950	7.77	1,910		Feb. 18, 1958	13.64	11,200
	Nov. 16, 1950	7.48	1,670		Feb. 24, 1958	13.90	11,700
	Dec. 3, 1950	7.11	1,410		Mar. 20, 1958	10.25	4,840
	Jan. 21, 1951	8.28	2,350		Mar. 23, 1958	10.42	5,070
	Feb. 4, 1951	7.79	1,920		Mar. 29, 1958	8.24	2,600
					Apr. 2, 1958	8.24	2,590
1952	Dec. 3, 1951	7.62	1,870		Apr. 5, 1958	10.35	5,020
	Dec. 27, 1951	9.77	4,700				
	Jan. 11, 1952	7.08	1,410	1959	Jan. 8, 1959	8.15	2,250
	Jan. 14, 1952	8.89	3,300		Feb. 16, 1959	9.66	4,050
	Feb. 1, 1952	8.28	2,530				
				1960	Feb. 1, 1960	8.75	2,900
1953	Dec. 6, 1952	10.97	7,160		Feb. 8, 1960	10.45	5,120
	Dec. 19, 1952	7.37	1,650				
	Dec. 26, 1952	7.30	1,590	1961	Dec. 1, 1960	8.58	2,760
	Dec. 30, 1952	7.43	1,700		Feb. 2, 1961	8.50	2,670
	Jan. 7, 1953	8.62	2,930				
	Jan. 9, 1953	7.46	1,720	1962	Dec. 1, 1961	6.82	1,210
	Jan. 12, 1953	7.8	2,030		Feb. 13, 1962	9.33	3,610
					Mar. 5, 1962	9.52	3,840
1954	Nov. 13, 1953	6.78	1,200				
	Jan. 17, 1954	10.58	6,290	1963	Oct. 12, 1962	7.00	1,330
	Jan. 23, 1954	6.87	1,360		Jan. 31, 1963	10.29	4,890
	Jan. 28, 1954	9.04	3,590		Feb. 9, 1963	9.85	4,270
	Feb. 12, 1954	8.64	3,100		Mar. 27, 1963	9.64	3,990
					Apr. 14, 1963	9.46	3,760
1955	Nov. 15, 1954	7.65	2,020				
	Dec. 5, 1954	6.82	1,320	1964	Nov. 23, 1963	6.87	1,240
					Jan. 20, 1964	8.11	2,280
1956	Dec. 19, 1955	10.97	7,160				
	Dec. 21, 1955	12.52	8,840	1965	Nov. 10, 1964	9.90	4,340
	Jan. 15, 1956	8.17	2,540		Dec. 22, 1964	13.23	10,300
	Feb. 21, 1956	11.08	7,420		Jan. 5, 1965	12.84	9,480
					Jan. 23, 1965	7.14	1,360
1957	Feb. 23, 1957	9.63	4,020		Apr. 8, 1965	9.53	3,850
					Apr. 15, 1965	8.01	2,080
1958	Oct. 13, 1957	7.83	2,110				

3800. Elder Creek near Henleyville, Calif.

Location.--Lat 40°01'55", long 122°17'30", on line between secs.10 and 11, T.25 N., R.4 W., at bridge on Paskenta-Red Bluff road, 0.7 mile upstream from Spring Branch and 6 miles northeast of Henleyville.

Drainage area.--130 sq mi.

Gage.--Recording. Altitude of gage is 360 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,200 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Jan. 23, 1931	3.97	910	1937	Mar. 12, 1937	6.44	6,210
1932	Dec. 26, 1931	6.35	4,020	1938	Dec. 10, 1937	10.4	10,700
1933	Jan. 29, 1933	4.1	1,150	1939	Oct. 2, 1938	3.40	535
1934	Jan. 1, 1934	7.26	6,300	1940	Feb. 28, 1940	10.3	13,100
1935	Feb. 7, 1935	4.85	2,310				
				1941	Feb. 28, 1941	10.8	14,000
1936	Feb. 21, 1936	6.9	5,750				

3805. Elder Creek at Gerber, Calif.

Location.--Lat 40°03'05", long 122°09'53", in Saucos Grant, on right bank 1.0 mile west of Gerber, Tehama County, and 3.5 miles upstream from mouth.

Drainage area.--136 sq mi.

Gage.--Recording. Prior to Oct. 1, 1961, at site about 150 ft upstream at datum 4.32 ft higher. Datum of gage is 232.14 ft above mean sea level (from Bureau of Reclamation bench mark).

Stage-discharge relation.--Defined by current-meter measurements below 9,600 cfs prior to Oct. 1, 1961; below 1,600 cfs thereafter.

Bankfull stage.--23 ft.

Remarks.--Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1950	Feb. 6, 1950	5.72	1,160	1954	Jan. 28, 1954	8.59	3,800
					Feb. 12, 1954	9.29	4,640
1951	Oct. 30, 1950	6.18	1,460		Feb. 17, 1954	6.60	1,940
	Nov. 16, 1950	6.30	1,540		Mar. 21, 1954	5.84	1,420
	Dec. 3, 1950	6.47	1,660				
	Dec. 14, 1950	5.97	1,320	1955	Nov. 15, 1954	8.31	3,490
	Jan. 21, 1951	9.81	5,310		Dec. 5, 1954	6.33	1,730
	Feb. 5, 1951	7.32	2,380				
				1956	Dec. 19, 1955	11.60	7,760
1952	Dec. 3, 1951	7.80	2,850		Dec. 22, 1955	13.38	9,480
	Dec. 27, 1951	11.36	7,420		Jan. 15, 1956	7.48	2,980
	Jan. 11, 1952	7.09	2,160		Jan. 25, 1956	5.56	1,470
	Jan. 14, 1952	9.24	4,570		Feb. 21, 1956	10.81	6,670
	Jan. 24, 1952	6.24	1,500				
	Feb. 1, 1952	7.46	2,510	1957	Feb. 24, 1957	8.60	4,090
	Mar. 14, 1952	6.40	1,610		Mar. 15, 1957	5.36	1,240
1953	Dec. 1, 1952	6.31	1,550	1958	Oct. 13, 1957	6.49	1,950
	Dec. 7, 1952	11.55	7,690		Dec. 16, 1957	5.42	1,270
	Dec. 19, 1952	7.48	2,530		Jan. 26, 1958	10.70	5,980
	Dec. 27, 1952	7.02	2,110		Jan. 29, 1958	8.05	3,180
	Dec. 30, 1952	7.52	2,570		Feb. 2, 1958	12.02	7,660
	Jan. 7, 1953	8.12	3,200		Feb. 7, 1958	9.02	4,150
	Jan. 12, 1953	8.14	3,220		Feb. 9, 1958	8.85	3,980
					Feb. 12, 1958	10.98	6,320
1954	Jan. 17, 1954	12.25	8,720		Feb. 15, 1958	8.07	3,300
	Jan. 23, 1954	5.52	1,230		Feb. 19, 1958	14.40	11,000

Peak stages and discharges of Elder Creek at Gerber, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Feb. 24, 1958	13.95	10,300	1962	Mar. 6, 1962	10.02	5,000
	Mar. 21, 1958	9.33	4,880				
	Mar. 23, 1958	6.93	3,030	1963	Oct. 12, 1962	7.42	1,310
	Mar. 29, 1958	8.82	4,480		Jan. 31, 1963	10.60	6,200
	Apr. 2, 1958	8.00	3,830		Feb. 10, 1963	9.57	4,170
	Apr. 6, 1958	10.25	5,710		Feb. 12, 1963	7.94	1,870
					Mar. 27, 1963	9.72	4,440
1959	Jan. 8, 1959	5.99	2,340		Apr. 6, 1963	8.55	2,620
	Feb. 16, 1959	10.20	5,660		Apr. 14, 1963	9.58	4,190
1960	Feb. 1, 1960	7.00	2,790	1964	Nov. 23, 1963	7.35	1,240
	Feb. 8, 1960	8.65	4,120		Jan. 20, 1964	8.53	2,600
1961	Dec. 1, 1960	6.43	2,610	1965	Nov. 10, 1964	9.64	3,800
	Jan. 31, 1961	-	2,320		Dec. 22, 1964	13.90	11,700
	Feb. 2, 1961	7.01	2,960		Jan. 5, 1965	14.90	14,100
					Jan. 23, 1965	7.54	1,510
1962	Feb. 9, 1962	7.66	1,570		Apr. 8, 1965	10.75	5,420
	Feb. 13, 1962	9.57	4,170		Apr. 15, 1965	8.25	2,170

3820. Thomes Creek at Paskenta, Calif.
(Published as Thomas Creek prior to 1943)

Location.--Lat 39°52'55", long 122°33'05", in NW¼ sec.4, T.23 N., R.6 W., on left bank 0.25 mile upstream from Digger Creek and 0.3 mile upstream from highway bridge at Paskenta.

Drainage area.--194 sq mi.

Gage.--Nonrecording prior to Oct. 1, 1930; recording thereafter. Prior to Oct. 1, 1930, at site 0.3 mile downstream; Oct. 1, 1930, to Dec. 28, 1938, at site 1,300 ft upstream; and Dec. 29, 1938, to June 20, 1942, at site 1,000 ft upstream. All gages at different datums. June 21, 1942, to Sept. 30, 1959, at datum 1.75 ft higher. Altitude of gage is 750 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs prior to Oct. 1, 1930, and Oct. 1, 1930, to Dec. 28, 1938; defined below 6,800 cfs, for period Dec. 29, 1938, to June 20, 1942; below 10,400 cfs thereafter.

Bankfull stage.--13 ft.

Remarks.--Peaks for the years 1921-24, 1926, 1929 and 1930 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Nov. 18, 1920	8.9	13,100	1940	Feb. 28, 1940	14.3	17,000
1922	Dec. 26, 1921	7.0	7,100				
1923	Dec. 28, 1922	5.6	3,900	1941	Feb. 28, 1941	13.7	13,200
1924	Feb. 7, 1924	4.65	2,000	1942	Feb. 5, 1942	11.62	8,120
1925	Feb. 4, 1925	9.0	13,500	1943	Jan. 21, 1943	10.92	18,600
1926	Feb. 4, 1926	8.50	11,700	1944	Mar. 10, 1944	4.98	1,160
1927	Feb. 20, 1927	9.1	13,900				
1928	Mar. 26, 1928	10.5	19,600	1945	Feb. 2, 1945	-	1,680
1929	Dec. 25, 1928	5.0	2,620		Feb. 5, 1945	-	1,640
1930	Dec. 14, 1929	6.00	4,750		Feb. 8, 1945	5.79	2,310
1931	Jan. 23, 1931	8.00	3,460	1946	Nov. 28, 1945	-	2,990
1932	Dec. 26, 1931	6.39	2,080		Dec. 22, 1945	-	2,180
1933	Apr. 4, 1933	5.00	1,140		Dec. 24, 1945	-	2,240
1934	Mar. 28, 1934	6.18	1,970		Dec. 27, 1945	-	6,980
1935	Apr. 8, 1935	7.80	3,170		Dec. 28, 1945	8.48	8,990
					Jan. 4, 1946	-	3,410
1936	Jan. 15, 1936	12.45	8,290				
1937	Mar. 12, 1937	6.13	2,180	1947	Feb. 12, 1947	7.20	5,210
1938	Dec. 10, 1937	16.8	16,500		Mar. 10, 1947	-	2,400
1939	Dec. 3, 1938	7.10	1,550				

Peak stages and discharges of Thomes Creek at Paskenta, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Oct. 16, 1947	-	2,600
	Jan. 2, 1948	-	1,820
	Jan. 7, 1948	7.30	5,470
	Apr. 16, 1948	-	1,700
	Apr. 21, 1948	-	2,020
1949	Mar. 18, 1949	5.20	1,660
1950	Jan. 23, 1950	-	2,300
	Mar. 17, 1950	-	2,340
	Mar. 19, 1950	6.20	3,040
1951	Oct. 29, 1950	6.69	4,000
	Dec. 3, 1950	7.85	6,980
	Jan. 21, 1951	7.98	7,360
	Feb. 4, 1951	8.02	7,480
	Feb. 11, 1951	5.28	1,760
1952	Dec. 1, 1951	6.70	4,020
	Dec. 27, 1951	7.38	5,680
	Jan. 14, 1952	-	(a)
	Feb. 1, 1952	8.44	8,860
	Feb. 16, 1952	5.40	1,930
	Mar. 25, 1952	5.89	2,560
	Apr. 6, 1952	5.31	1,830
1953	Dec. 6, 1952	5.26	1,780
	Jan. 9, 1953	8.98	10,800
	Jan. 12, 1953	7.40	5,730
	Jan. 18, 1953	6.98	4,660
	Apr. 27, 1953	6.26	3,160
1954	Jan. 17, 1954	6.63	3,870
	Jan. 23, 1954	6.44	3,490
	Jan. 28, 1954	6.78	4,200
	Feb. 12, 1954	7.18	5,160
	Mar. 9, 1954	7.27	5,390
	Apr. 4, 1954	6.18	3,020
1955	Nov. 15, 1954	5.64	2,190
1956	Dec. 6, 1955	5.26	1,750
	Dec. 19, 1955	9.11	10,300
	Dec. 21, 1955	12.14	23,500
	Jan. 15, 1956	9.28	10,900
	Jan. 23, 1956	6.36	2,950
	Feb. 21, 1956	7.67	5,880
1957	Oct. 30, 1956	5.00	1,640
	Feb. 24, 1957	7.79	7,870
	Mar. 5, 1957	4.85	2,200
	May 18, 1957	4.67	1,970
1958	Oct. 9, 1957	4.59	1,880
	Oct. 13, 1957	6.30	4,460
	Nov. 13, 1957	6.70	5,260
1958	Dec. 21, 1957	5.20	2,680
	Dec. 28, 1957	5.74	3,480
	Jan. 25, 1958	5.18	2,650
	Jan. 29, 1958	8.02	8,520
	Feb. 2, 1958	5.35	2,890
	Feb. 4, 1958	5.28	2,790
	Feb. 7, 1958	5.20	2,680
	Feb. 9, 1958	4.85	2,200
	Feb. 12, 1958	7.90	8,180
	Feb. 16, 1958	6.48	4,820
	Feb. 18, 1958	8.96	11,400
	Feb. 24, 1958	9.78	14,300
	Mar. 20, 1958	4.93	2,610
	Apr. 5, 1958	4.81	2,430
1959	Jan. 8, 1959	4.62	2,170
	Jan. 12, 1959	6.82	5,520
	Feb. 16, 1959	4.47	1,830
1960	Feb. 1, 1960	6.66	2,310
	Feb. 8, 1960	12.32	18,700
	Mar. 7, 1960	8.16	5,200
1961	Dec. 1, 1960	7.02	2,810
	Dec. 17, 1960	6.88	2,130
	Jan. 31, 1961	8.39	4,990
	Feb. 2, 1961	7.37	3,000
	Feb. 9, 1961	7.06	2,520
1962	Feb. 9, 1962	6.14	1,330
1963	Oct. 12, 1962	8.50	5,620
	Nov. 26, 1962	6.90	2,660
	Dec. 2, 1962	8.65	5,960
	Dec. 15, 1962	6.00	1,620
	Jan. 31, 1963	12.63	19,200
	Feb. 10, 1963	8.43	5,470
	Feb. 12, 1963	6.58	1,940
	Mar. 27, 1963	7.58	3.380
	Apr. 6, 1963	8.33	5,020
	Apr. 14, 1963	7.83	4,030
1964	Nov. 14, 1963	6.90	1,900
	Nov. 23, 1963	7.54	2,940
	Jan. 20, 1964	7.79	3,390
1965	Nov. 10, 1964	6.34	1,650
	Dec. 1, 1964	6.55	1,900
	Dec. 11, 1964	6.30	1,600
	Dec. 22, 1964	15.32	37,800
	Jan. 5, 1965	7.36	5,100
	Jan. 23, 1965	7.61	5,700
	Apr. 8, 1965	6.18	1,910
	Apr. 15, 1965	6.08	1,770
	Apr. 19, 1965	7.50	4,200

a Discharge unknown; exceeded base.

3855. Stony Creek above Stony Gorge Reservoir, Calif.
(Published as "near Elk Creek" prior to 1934)

Location.--Lat 39°30'05", long 122°30'30", in NE¼ sec.15, T.19 N., R.6 W., 6 miles downstream from Little Stony Creek and 6 miles upstream from Stony Gorge Dam.

Drainage area.--280 sq mi.

Gage.--Nonrecording prior to Oct. 29, 1933; recording thereafter. Prior to Nov. 15, 1928, at site 4.5 miles downstream at different datum. Nov. 15, 1928, to Oct. 29, 1933, at site 6 miles downstream at different datum. Altitude of gage is 950 ft (from topographic map).

Stage-discharge relation.--Information not available prior to 1932. Defined by current-meter measurements below 7,100 cfs and extended above on basis of studies of change in contents in Stony Gorge Reservoir thereafter.

Remarks.--Records for 1919-34 furnished by Bureau of Reclamation. Peaks partly regulated by East Park Reservoir (usable capacity, 50,600 acre-ft), beginning in 1910. Peaks may be affected by diversion during winter months to East Park feeder canal for storage in East Park Reservoir. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Jan. 31, 1921	-	10,200	1937	Feb. 4, 1937	7.5	6,090
				1938	Dec. 10, 1937	13.1	28,000
1934	Dec. 30, 1933	6.43	3,820	1939	Dec. 3, 1938	3.94	712
1935	Mar. 6, 1935	5.73	2,810	1940	Feb. 28, 1940	12.40	18,100
1936	Feb. 21, 1936	8.60	9,000	1941	Feb. 28, 1941	10.85	12,800

3870. Stony Creek near Fruto, Calif.

Location.--Lat 39°40'15", long 122°31'05", in SW¼SE¼ sec.15, T.21 N., R.6 W., on right bank 0.3 mile downstream from Grindstone Creek and 6.5 miles northwest of Fruto.

Drainage area.--599 sq mi.

Gage.--Nonrecording prior to Oct. 6, 1912; recording thereafter. Prior to Oct. 6, 1912, at site 1.0 mile downstream at different datum. Altitude of gage is 600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 18,000 cfs prior to Oct. 6, 1912; below 5,400 cfs thereafter.

Bankfull stage.--5 ft.

Historical data.--Floodmark at 12.2 ft was found in 1959 and is believed to be for peak of Feb. 24, 1958.

Remarks.--All peaks prior to Oct. 6, 1912, are maximum observed. Peaks regulated by East Park Reservoir (usable capacity, 50,600 acre-ft) beginning in 1910 and by Stony Gorge Reservoir (usable capacity, 50,100 acre-ft) beginning in 1928. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1901	Feb. 19, 1901	14.0	18,000	1911	Mar. 6, 1911	15.0	25,000
1902	Feb. 24, 1902	15.1	25,700	1912	Jan. 26, 1912	7.1	1,830
1903	Nov. 9, 1902	11.5	11,600				
1904	Feb.16,24,1904	14.0	23,200	1961	Dec. 1, 1960	8.00	4,740
1905	Jan. 22, 1905	11.5	11,600	1962	Mar. 6, 1962	8.98	6,910
				1963	Jan. 31, 1963	11.64	16,000
1906	Jan. 18, 1906	14.5	22,200	1964	Jan. 20, 1964	6.47	3,400
1907	Mar. 18, 1907	14.5	22,200	1965	Dec. 23, 1964	14.48	18,700
1908	Feb. 9, 1908	11.5	11,600		Jan. 6, 1965	13.56	15,100
1909	Feb. 2, 1909	16.3	36,000				
1910	Mar. 21, 1910	12.0	13,000				

3880. Stony Creek below Black Butte Dam, near Orland, Calif.
(Published as "at Black Butte damsite" prior to Oct. 1, 1962)

Location.--Lat 39°49'00", long 122°19'25" in SW¼ sec.28, T.23 N., R.4 W., on downstream side of road bridge, 0.6 mile downstream from diversion dam and 8.1 miles northwest of Orland.

Drainage area.--740 sq mi.

Gage.--Recording prior to Dec. 12, 1960; nonrecording thereafter. Prior to Dec. 12, 1960, at site 0.6 mile upstream at different datum. Altitude of gage is 360 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,500 cfs and extended on basis of slope-area measurement at 36,300 cfs prior to Dec. 12, 1960; defined by current-meter measurements below 5,500 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by East Park Reservoir (usable capacity, 50,600 acre-ft) beginning in 1910 and Stony Gorge Reservoir (usable capacity, 50,100 acre-ft) beginning in 1928. Peaks may be affected by many diversions above station for irrigation and by diversion 0.6 mile above station to South Diversion Canal (capacity, about 300 cfs) since beginning of record. Peaks in the years 1962 and 1964 are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 22, 1955	11.33	19,300	1961	Feb. 2, 1961	9.27	3,880
1957	Feb. 24, 1957	7.26	5,360	1962	Mar. 6, 1962	9.35	5,870
1958	Feb. 24, 1958	11.82	36,300	1963	Feb. 1, 1963	13.37	10,700
1959	Feb. 16, 1959	9.13	13,000	1964	Oct. 29, 1963	8.33	426
1960	Feb. 8, 1960	9.06	12,500	1965	Dec. 25, 1964	10.41	19,400

3885. Stony Creek near Hamilton City, Calif.

Location.--Lat 39°43'25", long 122°02'47", in Capay Grant, on right bank 2.3 miles southwest of Hamilton City, 6 miles upstream from mouth, and 8 miles east of Orland, Glenn County.

Drainage area.--777 sq mi.

Gage.--Recording. Prior to February 1946, at site 3 miles upstream at different datum. Altitude of gage is 150 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 30,100 cfs prior to February 1946; below 30,000 cfs thereafter.

Bankfull stage.--18 ft.

Historical data.--According to a resident, T. J. Bennett, whose family has lived near the stream and 3 miles downstream from the gage since 1862, the flood of 1937 or of 1940 was the greatest of knowledge. Both the flood of 1937 and that of 1940 are believed to be somewhat higher than that of Mar. 1, 1941.

Remarks.--Peaks regulated by East Park Reservoir (usable capacity, 50,620 acre-ft) beginning in 1910 and Stony Gorge Reservoir (usable capacity, 50,100 acre-ft) beginning in 1928. Peaks may be affected by diversions for irrigation of about 17,200 acres in Orland Project, Bureau of Reclamation. Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges of Stony Creek near Hamilton City, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Mar. 1, 1941	6.35	37,500
1942	Feb. 6, 1942	4.57	23,800
1943	Jan. 21, 1943	a4.55	22,100
1944	Feb. 3, 1944	2.00	2,820
1945	Feb. 3, 1945	3.26	2,360
1946	Dec. 25, 1945	5.7	18,100
1947	Feb. 12, 1947	9.55	3,170
1948	Apr. 15, 1948	9.20	1,980
1949	Mar. 11, 1949	13.59	11,000
	Mar. 20, 1949	-	3,830
	Mar. 24, 1949	-	2,540
1950	Feb. 6, 1950	8.45	1,810
1951	Dec. 4, 1950	11.25	5,390
	Dec. 7, 1950	9.10	2,470
	Dec. 14, 1950	9.78	3,260
	Jan. 22, 1951	14.10	11,600
	Feb. 5, 1951	10.98	4,930
	Feb. 12, 1951	9.28	2,480
1952	Dec. 28, 1951	10.47	4,590
	Jan. 15, 1952	11.81	6,920
	Jan. 25, 1952	10.24	4,220
	Feb. 2, 1952	13.67	11,200
	Feb. 17, 1952	9.20	2,640
	Mar. 15, 1952	10.04	3,900
	Mar. 27, 1952	9.25	2,720
1953	Dec. 7, 1952	12.74	10,300
	Dec. 20, 1952	10.80	5,380
	Dec. 27, 1952	10.21	4,140
	Dec. 30, 1952	10.75	5,270
	Jan. 7, 1953	11.62	7,310
	Jan. 10, 1953	13.58	12,800
	Jan. 13, 1953	12.28	9,040
	Jan. 19, 1953	10.73	5,230
1954	Jan. 17, 1954	12.10	7,980
	Jan. 24, 1954	9.11	2,770
	Jan. 29, 1954	9.02	2,660
	Feb. 13, 1954	10.67	5,130
	Feb. 17, 1954	10.01	4,060
	Mar. 10, 1954	9.06	2,710
	Mar. 22, 1954	8.71	2,250
	Apr. 5, 1954	10.04	4,100
1955	Dec. 6, 1954	8.12	1,520
1956	Dec. 20, 1955	13.33	11,300
	Dec. 22, 1955	15.96	22,100
	Jan. 1, 1956	9.20	2,460
	Jan. 5, 1956	9.18	2,440
	Jan. 8, 1956	10.63	4,470
	Jan. 11, 1956	10.41	4,120
	Jan. 16, 1956	13.19	10,300
	Jan. 27, 1956	11.05	5,190
	Feb. 22, 1956	14.92	17,900
1957	Feb. 24, 1957	10.72	5,500
1958	Jan. 26, 1958	12.35	8,690
	Jan. 30, 1958	10.80	5,100
	Feb. 3, 1958	12.76	9,330
	Feb. 5, 1958	13.86	13,300
	Feb. 7, 1958	11.86	8,460
	Feb. 9, 1958	12.84	11,500
	Feb. 12, 1958	13.96	15,300
	Feb. 19, 1958	17.52	35,100
	Feb. 25, 1958	18.31	39,900
	Mar. 3, 1958	9.10	4,060
	Mar. 22, 1958	12.64	12,200
	Mar. 30, 1958	10.35	6,120
	Apr. 2, 1958	11.82	9,760
	Apr. 6, 1958	12.29	10,600
1959	Jan. 9, 1959	9.34	3,720
	Feb. 16, 1959	12.81	11,400
1960	Feb. 8, 1960	12.63	10,800
	Mar. 8, 1960	9.19	3,410
	Mar. 13, 1960	8.15	2,150
1961	Dec. 1, 1960	9.27	3,520
	Feb. 2, 1961	10.56	5,890
1962	Feb. 15, 1962	11.06	5,910
	Mar. 6, 1962	11.46	6,780
1963	Feb. 1, 1963	12.32	9,300
	Feb. 10, 1963	11.15	7,240
	Mar. 28, 1963	11.14	7,220
	Apr. 7, 1963	10.06	4,890
	Apr. 15, 1963	11.23	7,430
1964	Oct. 12, 1963	4.97	52
1965	Dec. 23, 1964	15.49	40,200
	Jan. 5, 1965	13.07	23,700

a Occurred Jan. 23, 1943.

4485. Adobe Creek near Kelseyville, Calif.

Location.--Lat 38°55'40", long 122°52'45", in SE¼ sec.5, T.12 N., R.9 W., on left bank 2.5 miles upstream from Highland Creek and 4.2 miles south of Kelseyville.

Drainage area.--6.36 sq mi.

Gage.--Recording. Datum of gage is 1,478.1 ft above mean sea level (levels by Topographic Division).

Stage-discharge relation.--Defined by current-meter measurements below 380 cfs and extended above on basis of computed flow over dam at 1,250 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Nov. 15, 1954	6.32	416	1960	Feb. 1, 1960	6.50	470
	Dec. 5, 1954	5.85	281		Feb. 8, 1960	7.76	891
					Mar. 7, 1960	5.90	294
1956	Dec. 19, 1955	8.00	975				
	Dec. 21, 1955	8.72	1,250	1961	Dec. 1, 1960	7.40	765
	Jan. 7, 1956	7.70	870		Jan. 31, 1961	7.03	636
	Jan. 15, 1956	5.92	299		Feb. 11, 1961	6.11	353
	Feb. 21, 1956	-	(a)		Mar. 14, 1961	5.87	286
					Mar. 16, 1961	5.83	276
1957	Feb. 24, 1957	7.39	762				
				1962	Dec. 1, 1961	6.51	473
1958	Dec. 17, 1957	6.78	554		Feb. 9, 1962	6.21	383
	Jan. 26, 1958	6.12	356		Feb. 13, 1962	7.55	818
	Jan. 29, 1958	6.85	575		Mar. 5, 1962	6.68	524
	Feb. 4, 1958	6.49	467				
	Feb. 9, 1958	6.14	362	1963	Oct. 12, 1962	9.18	1,430
	Feb. 12, 1958	7.08	653		Dec. 15, 1962	6.10	350
	Feb. 18, 1958	6.14	362		Jan. 31, 1963	9.22	1,450
	Feb. 24, 1958	8.57	1,190		Mar. 27, 1963	6.76	548
	Mar. 21, 1958	6.59	497		Apr. 6, 1963	5.87	286
	Mar. 29, 1958	6.80	560		Apr. 14, 1963	6.60	500
	Apr. 2, 1958	7.67	860				
	Apr. 5, 1958	6.24	392	1964	Jan. 20, 1964	7.50	800
1959	Jan. 5, 1959	5.88	289	1965	Nov. 10, 1964	6.65	515
	Jan. 8, 1959	6.28	404		Dec. 22, 1964	9.11	1,500
	Jan. 12, 1959	6.96	611		Jan. 5, 1965	8.38	1,170
	Feb. 16, 1959	6.76	548		Jan. 23, 1965	5.92	299
	Feb. 18, 1959	5.94	304		Apr. 15, 1965	6.28	404

a Discharge unknown; exceeded base.

4490. Highland Creek near Kelseyville, Calif.

Location.--Lat 38°56'10", long 122°54'25", in NW¼ sec.31, T.13 N., R.9 W., on downstream side of middle pier of Highland Springs Road bridge at Highland Springs, 1.6 miles upstream from mouth and 4.8 miles southwest of Kelseyville.

Drainage area.--12.6 sq mi (revised).

Gage.--Recording. Datum of gage is 1,444.46 ft above mean sea level (levels by Topographic Division).

Stage-discharge relation.--Defined by current-meter measurements below 1,640 cfs.

Remarks.--Base for partial-duration series, 300 cfs. Only annual peaks are shown for 1963-65.

Peak stages and discharges of Highland Creek near Kelseyville, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Nov. 15, 1954	6.4	408	1958	Apr. 2, 1958	10.55	1,690
	Dec. 5, 1954	5.95	306		Apr. 5, 1958	7.66	738
1956	Dec. 19, 1955	10.92	1,820	1959	Jan. 5, 1959	6.85	530
	Dec. 21, 1955	-	1,800		Jan. 8, 1959	7.77	771
	Dec. 26, 1955	7.90	800		Jan. 12, 1959	8.93	1,130
	Jan. 7, 1956	9.68	1,390		Feb. 16, 1959	9.83	1,440
	Jan. 15, 1956	7.50	680		Feb. 18, 1959	5.90	318
	Feb. 21, 1956	11.04	1,860				
	Feb. 25, 1956	6.41	373	1960	Feb. 1, 1960	7.72	756
1957	Jan. 13, 1957	7.04	545		Feb. 8, 1960	9.40	1,290
	Feb. 24, 1957	9.63	1,370	1961	Dec. 1, 1960	10.85	1,800
					Jan. 31, 1961	7.92	806
1958	Oct. 9, 1957	7.50	680		Feb. 11, 1961	7.22	596
	Dec. 17, 1957	9.03	1,160		Mar. 14, 1961	6.81	488
	Jan. 25, 1958	8.08	854		Mar. 16, 1961	6.61	442
	Jan. 29, 1958	7.62	716				
	Feb. 4, 1958	8.40	950	1962	Dec. 1, 1961	a12.08	-
	Feb. 12, 1958	8.13	869		Feb. 13, 1962	-	-
	Feb. 18, 1958	7.97	821				
	Feb. 24, 1958	12.19	2,280	1963	Oct. 12, 1962	10.90	2,320
	Mar. 21, 1958	8.24	912	1964	Jan. 20, 1964	9.70	1,520
	Mar. 29, 1958	9.83	1,440	1965	Dec. 22, 1964	12.15	3,080

a Backwater from dam construction.

4495. Kelsey Creek near Kelseyville, Calif.

Location.--Lat 38°55'45", long 122°50'35", in SE¼ sec.34, T.13 N., R.9 W., on left bank 1.6 miles downstream from Widow Creek and 3.5 miles south of Kelseyville.

Drainage area.--36.6 sq mi.

Gage.--Recording. Prior to July 16, 1955, at site 600 ft upstream at different datum. Datum of gage is 1,475.1 ft above mean sea level (levels by Topographic Division).

Stage-discharge relation.--Defined by current-meter measurements below 2,000 cfs and extended above on basis of computation of flow over dam at 8,150 cfs prior to July 16, 1955; defined below 2,600 cfs and extended above on basis of computation of flow over dam at 8,800 cfs thereafter.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Nov. 22, 1946	9.38	2,940	1953	Dec. 1, 1952	8.60	2,420
	Feb. 11, 1947	-	1,610		Dec. 6, 1952	13.85	7,040
					Dec. 26, 1952	7.25	1,720
1948	Mar. 23, 1948	8.06	2,110		Jan. 9, 1953	12.58	5,700
					Mar. 19, 1953	7.51	1,840
1949	Mar. 10, 1949	7.22	1,570				
				1954	Jan. 17, 1954	14.8	8,150
1950	Jan. 13, 1950	8.65	2,450		Feb. 12, 1954	7.58	1,870
	Feb. 6, 1950	8.14	2,150				
				1955	Nov. 15, 1954	7.72	1,940
1951	Oct. 29, 1950	8.09	2,120				
	Nov. 16, 1950	10.00	3,400	1956	Dec. 19, 1955	12.32	7,840
	Dec. 3, 1950	11.38	4,560		Dec. 21, 1955	12.80	8,800
	Jan. 18, 1951	7.66	1,910		Dec. 26, 1955	9.05	2,410
	Jan. 21, 1951	-	(a)		Jan. 7, 1956	10.15	3,940
					Feb. 21, 1956	11.56	6,410
1952	Dec. 1, 1951	9.71	3,170				
	Dec. 26, 1951	9.98	3,380	1957	Feb. 24, 1957	11.19	5,740
	Jan. 14, 1952	10.52	3,820				
	Feb. 1, 1952	9.37	2,930	1958	Dec. 17, 1957	8.91	2,290

a Discharge unknown; exceeded base.

Peak stages and discharges of Kelsey Creek near Kelseyville, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Jan. 26, 1958	8.68	2,020	1961	Jan. 31, 1961	8.92	2,260
	Jan. 29, 1958	8.89	2,270				
	Feb. 2, 1958	8.55	1,860	1962	Dec. 1, 1961	9.03	2,390
	Feb. 12, 1958	9.15	2,530		Feb. 9, 1962	8.72	2,050
	Feb. 18, 1958	8.58	1,910		Feb. 14, 1962	10.02	3,730
	Feb. 24, 1958	12.48	8,160		Mar. 5, 1962	9.25	2,690
	Mar. 20, 1958	10.88	5,160				
	Mar. 29, 1958	9.99	3,700	1963	Oct. 12, 1962	11.63	6,530
	Apr. 2, 1958	10.40	4,370		Jan. 31, 1963	12.80	6,300
					Mar. 27, 1963	9.46	2,930
1959	Jan. 5, 1959	8.34	1,720		Apr. 6, 1963	8.40	1,750
	Jan. 8, 1959	8.22	1,610		Apr. 14, 1963	8.77	2,100
	Jan. 12, 1959	9.42	2,890				
	Feb. 17, 1959	10.12	3,880	1964	Jan. 20, 1964	10.95	5,310
1960	Feb. 1, 1960	8.69	2,020	1965	Nov. 10, 1964	8.92	2,200
	Feb. 8, 1960	11.02	5,440		Dec. 22, 1964	12.85	7,640
					Jan. 5, 1965	13.48	8,750
1961	Dec. 1, 1960	10.89	5,200		Apr. 15, 1965	8.42	1,760

4515. North Fork Cache Creek near Lower Lake, Calif.

Location.--Lat 39°01'10", long 122°34'00", in NE¼ sec.31, T.14 N., R.6 W., on right bank 500 ft upstream from Sweet Hollow Creek, 5 miles upstream from mouth, and 7 miles northeast of Lower Lake.

Drainage area.--197 sq mi.

Gage.--Recording. Prior to June 15, 1939, at datum 1.00 ft higher. Datum of gage is 1,035.60 ft above mean sea level, preliminary adjustment of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 7,200 cfs and extended above on basis of slope-area measurement at 20,000 cfs.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Jan. 23, 1931	4.68	1,300	1951	Nov. 16, 1950	7.82	3,790
1932	Dec. 26, 1931	9.65	11,000		Dec. 3, 1950	10.54	10,200
1933	Jan. 27, 1933	5.40	2,540		Jan. 18, 1951	7.72	3,630
1934	Dec. 30, 1933	6.28	3,880		Jan. 21, 1951	10.09	8,990
1935	Mar. 6, 1935	6.53	3,100		Feb. 4, 1951	7.96	4,030
					Feb. 11, 1951	7.98	4,060
1936	Feb. 21, 1936	8.45	7,480				
1937	Feb. 4, 1937	10.06	11,700	1952	Dec. 1, 1951	8.99	6,180
1938	Dec. 11, 1937	12.98	20,300		Dec. 3, 1951	8.33	4,810
1939	Dec. 3, 1938	2.78	536		Dec. 26, 1951	8.94	6,070
1940	Feb. 28, 1940	13.9	20,000		Jan. 14, 1952	8.39	4,920
					Feb. 1, 1952	10.27	9,460
1941	Apr. 4, 1941	10.60	10,400				
1942	Feb. 6, 1942	11.5	12,800	1953	Dec. 7, 1952	11.04	11,500
1943	Jan. 21, 1943	11.90	13,900		Dec. 27, 1952	7.56	3,800
					Jan. 9, 1953	9.29	6,940
1944	Mar. 4, 1944	9.82	8,290				
				1954	Jan. 17, 1954	11.02	11,500
1945	Feb. 1, 1945	-	3,600		Jan. 23, 1954	7.69	3,990
	Feb. 3, 1945	8.21	4,480				
	Feb. 5, 1945	-	4,320	1955	Dec. 6, 1954	5.44	1,670
1946	Dec. 25, 1945	-	4,560	1956	Dec. 19, 1955	10.53	10,100
	Dec. 27, 1945	10.20	9,280		Dec. 22, 1955	12.56	15,900
					Dec. 26, 1955	8.12	4,560
1947	Feb. 12, 1947	7.51	3,310		Jan. 7, 1956	9.76	8,140
					Jan. 15, 1956	8.81	5,880
1948	Mar. 23, 1948	7.18	2,880		Jan. 26, 1956	7.64	3,740
					Feb. 22, 1956	10.72	10,600
1949	Mar. 10, 1949	7.80	3,720				
				1957	Feb. 24, 1957	8.75	5,760
1950	Feb. 6, 1950	8.01	4,120				

Peak stages and discharges of North Fork Cache Creek near Lower Lake, Calif.--Con.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Dec. 18, 1957	7.84	4,060	1961	Dec. 1, 1960	8.51	5,100
	Jan. 26, 1958	8.37	5,010				
	Jan. 29, 1958	8.23	4,750	1962	Feb. 13, 1962	9.17	7,520
	Feb. 4, 1958	8.11	4,540		Mar. 5, 1962	7.97	4,780
	Feb. 9, 1958	8.70	5,660				
	Feb. 12, 1958	10.00	8,760	1963	Oct. 12, 1962	8.50	5,900
	Feb. 18, 1958	9.25	6,840		Jan. 31, 1963	11.44	13,400
	Feb. 24, 1958	11.75	13,500		Mar. 27, 1963	7.74	4,340
	Mar. 21, 1958	8.50	5,080				
	Mar. 29, 1958	8.26	4,580	1964	Jan. 20, 1964	8.55	6,020
	Apr. 2, 1958	9.87	8,420				
				1965	Dec. 22, 1964	12.7	19,700
1959	Feb. 16, 1959	9.01	6,230		Jan. 5, 1965	11.47	15,700
1960	Feb. 8, 1960	11.03	11,500				

4517.2. Bear Creek near Rumsey, Calif.

Location.--Lat 39°56'35", long 122°20'40", in NE¼SW¼ sec.30, T.13 N., R.4 W., on left bank 0.3 mile downstream from Brophy Canyon, 1.4 miles upstream from mouth, and 7.3 miles northwest of Rumsey.

Drainage area.--100 sq mi.

Gage.--Recording. Altitude of gage is 750 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Records furnished by California Department of Water Resources. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Feb. 24, 1958	a12.33	8,100	1962	Feb. 14, 1962	9.59	5,040
1959	Feb. 16, 1959	9.42	5,340	1963	Jan. 31, 1963	9.95	5,600
1960	Feb. 8, 1960	8.37	3,770	1964	Jan. 20, 1964	7.41	2,640
				1965	Jan. 5, 1965	11.93	9,720
1961	Dec. 1, 1960	6.85	2,360				

a Maximum stage since 1955.

4525. Cache Creek at Yolo, Calif.

Location.--Lat 38°43'30", long 121°48'25", in Rio Jesus Maria Grant, on left bank 800 ft upstream from highway bridge and 0.5 mile south of Yolo, Yolo County.

Drainage area.--1,138 sq mi.

Gage.--Nonrecording prior to summer of 1930; recording thereafter. Prior to summer of 1930, at datum 5.97 ft higher. Summer of 1930 to June 11, 1954, at datum 4.00 ft higher. Datum of gage is 52.27 ft above mean sea level, adjustment of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 34,800 cfs.

Bankfull stage.--30 ft.

Remarks.--Peaks regulated by Clear Lake (usable capacity, 319,000 acre-ft) beginning in 1915. Peaks may be affected by diversion above station for irrigation. Peaks for the years 1903, 1905, 1906, 1908, 1910, 1912, 1913, 1917-20, 1923, 1924, and 1929 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1943, and subsequent to Sept. 30, 1955. Base for partial-duration series, 2,200 cfs.

Peak stages and discharges of Cache Creek at Yolo, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	Jan. 28, 1903	-	7,300	1947	Feb. 12, 1947	8.45	4,160
1904	Mar. 10, 1904	a28.2	17,000		Mar. 4, 1947	-	3,090
1905	Dec. 31, 1904	-	14,000				
				1948	Apr. 16, 1948	5.94	2,310
1906	Jan. 19, 1906	-	19,000				
1907	Mar. 23, 1907	27.2	20,300	1949	Mar. 12, 1949	12.97	8,520
1908	Feb. 3, 1908	-	7,730				
1909	Feb. 3, 1909	27.8	20,800	1950	Feb. 5, 1950	9.02	4,970
1910	Jan. 24, 1910	-	6,800				
				1951	Nov. 17, 1950	5.85	2,740
1911	Mar. 7, 1911	-	20,800		Dec. 4, 1950	17.63	11,700
1912	Mar. 13, 1912	-	925		Dec. 14, 1950	6.49	3,390
1913	Jan. 19, 1913	-	4,800		Jan. 19, 1951	-	(d)
1914	Feb. 21, 1914	-	20,800		Jan. 22, 1951	15.24	10,500
1915	Feb. 2, 1915	27.8	21,100		Feb. 5, 1951	7.77	4,400
					Feb. 12, 1951	12.84	8,450
1916	Jan. 3, 1916	26.9	20,300		Mar. 7, 1951	7.54	4,210
1917	Feb. 25, 1917	25.1	18,800				
1918	Feb. 24, 1918	3.9	1,170	1952	Dec. 2, 1951	9.18	5,540
1919	Feb. 11, 1919	12.1	7,750		Dec. 4, 1951	8.76	4,970
1920	Apr. 17, 1920	3.1	862		Dec. 28, 1951	10.70	6,600
					Jan. 8, 1952	5.80	2,680
1921	Jan. 30, 1921	24.3	18,000		Jan. 12, 1952	12.15	7,340
1922	Feb. 20, 1922	11.5	7,100		Jan. 14, 1952	19.10	14,900
1923	Dec. 13, 1922	5.6	2,340		Jan. 20, 1952	10.00	5,600
1924	Feb. 9, 1924	3.3	1,190		Jan. 25, 1952	14.44	9,490
1925	Feb. 12, 1925	23.7	18,400		Feb. 2, 1952	19.72	15,700
					Mar. 16, 1952	9.34	5,140
1926	Apr. 8, 1926	18.4	14,200		Mar. 19, 1952	9.09	4,960
1927	Feb. 18, 1927	22.8	17,200				
1928	Mar. 27, 1928	20.3	15,100	1953	Dec. 7, 1952	18.53	15,200
1929	Feb. 4, 1929	4.5	2,050		Dec. 20, 1952	5.90	3,140
1930	Feb. 23, 1930	9.85	6,550		Dec. 27, 1952	9.18	5,850
					Dec. 30, 1952	6.77	3,840
1931	Jan. 24, 1931	4.56	1,230		Jan. 9, 1953	18.96	15,800
1932	Dec. 27, 1931	21.17	14,900		Jan. 13, 1953	10.60	7,060
1933	Jan. 28, 1933	6.38	2,210		Jan. 21, 1953	9.24	5,900
1934	Dec. 30, 1933	8.82	4,240		Mar. 20, 1953	4.66	2,320
1935	Mar. 7, 1935	20.00	13,800				
				1954	Jan. 17, 1954	18.38	15,100
1936	Feb. 22, 1936	21.53	15,200		Jan. 24, 1954	5.60	3,030
1937	Feb. 14, 1937	21.42	12,800		Feb. 13, 1954	4.83	2,450
1938	Dec. 11, 1937	29.10	19,300		Feb. 18, 1954	6.21	3,780
1939	Mar. 10, 1939	1.92	170		Mar. 13, 1954	-	(d)
1940	Feb. 28, 1940	29.0	b38,700		Mar. 26, 1954	6.09	3,680
					Apr. 7, 1954	6.09	3,680
1941	Apr. 5, 1941	27.1	25,900				
1942	Feb. 6, 1942	28.64	c34,100	1955	Dec. 6, 1954	7.22	1,550
1943	Jan. 22, 1943	25.00	23,000				
				1956	Feb. 23, 1956	30.00	27,400
1944	Feb. 3, 1944	-	4,460	1957	Feb. 25, 1957	16.91	9,710
	Mar. 4, 1944	15.3	10,600	1958	Feb. 25, 1958	33.11	41,400
				1959	Feb. 17, 1959	22.32	16,400
1945	Feb. 1, 1945	-	4,460	1960	Feb. 8, 1960	20.42	14,200
	Feb. 3, 1945	10.54	5,970				
	Feb. 6, 1945	-	4,300	1961	Dec. 1, 1960	11.56	6,190
				1962	Feb. 15, 1962	23.33	17,700
1946	Dec. 22, 1945	-	5,060	1963	Feb. 1, 1963	26.92	24,000
	Dec. 25, 1945	-	6,740	1964	Jan. 21, 1964	13.17	7,340
	Dec. 28, 1945	16.08	12,200	1965	Jan. 6, 1965	31.5	37,600
	Jan. 5, 1946	-	4,010				

a Backwater from Sacramento River.
b Including 10,000 cfs estimated overflow.
c Including 6,000 cfs estimated overflow.
d Discharge unknown; exceeded base.

4531.5. Putah Creek tributary near Whispering Pines, Calif.

Location.--Lat 38°47'10", long 122°41'30", in NE¼ sec.25, T.11 N., R.8 W., at culvert on State Highway 29, 2 miles southeast of Whispering Pines.

Drainage area.--0.25 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 1,600 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7 cfs and extended above on basis of culvert computation at 58 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	11.99	35	1962	Feb. 14, 1962	12.41	40
1960	Feb. 8, 1960	11.94	30	1963	Feb. 1, 1963	13.60	58
				1964	Jan. 20, 1964	11.55	24
1961	Jan. 31, 1961	11.40	17	1965	Dec. 22, 1964	13.00	50

4535. Putah Creek near Guenoc, Calif.

Location.--Lat 38°46'45", long 122°31'00", in Guenoc land grant, on right bank just upstream from Coyote Valley damsite, 2.8 miles upstream from Soda Creek, 3.2 miles downstream from highway bridge at Guenoc, Lake County, and 5.6 miles northeast of Middletown.

Drainage area.--113 sq mi.

Gage.--Nonrecording prior to September 1906; recording subsequent to July 1930. Prior to September 1906, at site a quarter of a mile upstream at different datum. Datum of gage is 913.4 ft above mean sea level (river-profile survey).

Stage-discharge relation.--Defined by current-meter measurements below 14,500 cfs prior to September 1906; below 13,000 cfs thereafter.

Bankfull stage.--17 ft.

Remarks.--Peaks shown for the years 1905 and 1906 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Mar. 10, 1904	20.1	24,600	1946	Dec. 27, 1945	12.23	7,700
1905	Jan. 22, 1905	15.4	16,000				
				1947	Feb. 12, 1947	11.8	7,100
1906	Jan. 16, 1906	17	18,700		Mar. 3, 1947	-	(a)
1931	Jan. 23, 1931	8.84	3,270	1948	Apr. 8, 1948	10.16	4,970
1932	Dec. 26, 1931	14.03	11,400				
1933	Jan. 27, 1933	11.16	6,320	1949	Mar. 11, 1949	10.98	5,480
1934	Dec. 29, 1933	11.15	6,320				
1935	Mar. 6, 1935	14.45	12,200	1950	Jan. 13, 1950	-	6,730
					Feb. 6, 1950	12.05	6,800
1936	Feb. 21, 1936	16.80	17,000				
1937	Feb. 4, 1937	19.35	22,200	1951	Nov. 16, 1950	11.50	6,100
1938	Dec. 11, 1937	22.7	32,000		Dec. 3, 1950	15.98	14,000
1939	Jan. 5, 1939	6.18	1,270		Jan. 21, 1951	10.87	5,340
1940	Feb. 27, 1940	21.5	28,300				
				1952	Dec. 1, 1951	13.61	8,960
1941	Apr. 4, 1941	14.3	11,600		Dec. 3, 1951	11.32	5,880
1942	Feb. 6, 1942	17.08	16,800		Dec. 27, 1951	12.22	7,020
1943	Jan. 21, 1943	20.5	25,400		Jan. 14, 1952	13.57	8,900
					Jan. 24, 1952	10.60	5,040
1944	Mar. 5, 1944	15.32	12,200		Feb. 1, 1952	14.32	11,100
1945	Feb. 1, 1945	12.34	7,860	1953	Dec. 7, 1952	18.53	20,100
	Feb. 2, 1945	-	5,300		Dec. 26, 1952	11.08	5,780
	Feb. 5, 1945	-	7,070		Jan. 9, 1953	18.37	19,700
					Mar. 19, 1953	11.94	7,030
1946	Dec. 21, 1945	-	6,020				
	Dec. 24, 1945	-	5,310	1954	Jan. 17, 1954	16.28	14,900

a Discharge unknown; exceeded base.

Peak stages and discharges of Putah Creek near Guenoc, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 23, 1954	10.71	5,290	1959	Feb. 16, 1959	15.08	12,500
	Feb. 12, 1954	11.15	5,880				
				1960	Feb. 1, 1960	11.08	6,050
1955	Nov. 15, 1954	9.80	4,200		Feb. 8, 1960	17.90	18,600
1956	Dec. 19, 1955	16.60	15,600	1961	Dec. 1, 1960	10.73	5,620
	Dec. 22, 1955	21.80	29,200		Jan. 31, 1961	11.72	6,900
	Dec. 26, 1955	12.42	7,770				
	Jan. 7, 1956	13.18	8,990	1962	Feb. 9, 1962	10.70	5,580
	Feb. 20, 1956	15.93	14,200		Feb. 13, 1962	14.70	11,800
					Mar. 5, 1962	10.74	5,630
1957	Feb. 24, 1957	13.90	10,300				
				1963	Oct. 12, 1962	13.30	9,280
1958	Dec. 18, 1957	11.14	5,900		Jan. 31, 1963	20.91	26,500
	Jan. 29, 1958	12.90	8,660		Mar. 27, 1963	11.45	6,540
	Feb. 9, 1958	11.24	6,030		Apr. 6, 1963	10.45	5,280
	Feb. 12, 1958	13.11	9,040				
	Feb. 18, 1958	12.05	7,090	1964	Jan. 20, 1964	13.10	8,960
	Feb. 24, 1958	19.20	22,200				
	Mar. 21, 1958	11.46	6,310	1965	Dec. 22, 1964	19.15	21,700
	Mar. 29, 1958	10.47	5,370		Jan. 5, 1965	17.98	18,800
	Apr. 2, 1958	15.35	13,000		Jan. 23, 1965	10.23	5,020
1959	Jan. 12, 1959	10.22	5,000				

4540. Putah Creek near Winters, Calif.

Location.--Lat 38°30'55", long 122°04'50", in NE¼NE¼ sec.28, T.8 N., R.2 W., on left bank 1.3 miles downstream from Monticello Dam, 6 miles west of Winters, and 8 miles downstream from Capell Creek.

Drainage area.--574 sq mi.

Gage.--Recording. Prior to Feb. 29, 1940, at datum about 1 ft higher. Datum of gage is 160.75 ft above mean sea level (river-profile survey).

Stage-discharge relation.--Defined by current-meter measurements below 30,000 cfs.

Bankfull stage.--Not subject to overflow.

Historical data.--Maximum stage known since at least 1905, that of Feb. 27, 1940, on basis of records for station at Winters.

Remarks.--Peaks regulated by Lake Berryessa (usable capacity, 1,592,000 acre-ft) beginning Jan. 11, 1957. Only annual peaks are shown prior to Oct. 1, 1946, and subsequent to Sept. 30, 1955. Base for partial-duration series, 6,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Jan. 23, 1931	11.70	4,820	1948	Mar. 24, 1948	13.70	6,540
1932	Dec. 27, 1931	21.8	34,100				
1933	Jan. 27, 1933	14.67	10,500	1949	Mar. 11, 1949	19.67	22,700
1934	Dec. 30, 1933	15.18	11,700				
1935	Mar. 6, 1935	23.20	41,000	1950	Jan. 14, 1950	-	8,200
					Feb. 4, 1950	19.27	21,300
1936	Feb. 21, 1936	22.85	39,200				
1937	Feb. 4, 1937	25.4	50,800	1951	Nov. 16, 1950	15.45	10,100
1938	Dec. 11, 1937	24.8	48,100		Nov. 18, 1950	14.24	7,580
1939	Mar. 9, 1939	7.95	1,260		Dec. 3, 1950	24.32	41,600
1940	Feb. 27, 1940	29.5	81,000		Dec. 14, 1950	15.49	10,200
					Jan. 18, 1951	13.97	7,050
1941	Apr. 4, 1941	24.3	41,400		Jan. 22, 1951	16.36	12,200
1942	Feb. 6, 1942	28.55	67,200				
1943	Jan. 21, 1943	29.0	70,300	1952	Dec. 1, 1951	17.58	15,000
1944	Mar. 4, 1944	21.40	29,600		Dec. 3, 1951	17.86	15,900
1945	Feb. 1, 1945	19.38	21,700		Dec. 28, 1951	16.92	13,700
					Jan. 12, 1952	16.87	13,500
1946	Dec. 27, 1945	17.88	16,500		Jan. 14, 1952	20.60	25,100
					Jan. 16, 1952	15.38	9,550
1947	Feb. 12, 1947	17.30	14,800		Jan. 24, 1952	17.76	15,600
	Mar. 3, 1947	-	8,980		Feb. 1, 1952	19.30	19,700

Peak stages and discharges of Putah Creek near Winters, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Dec. 7, 1952	25.08	45,700	1955	Nov. 15, 1954	12.78	4,960
	Dec. 20, 1952	13.92	6,960				
	Dec. 27, 1952	16.40	12,300	1956	Dec. 22, 1955	26.73	55,400
	Dec. 30, 1952	14.38	7,860	1957	Feb. 24, 1957	6.70	368
	Jan. 9, 1953	23.52	37,600	1958	Feb. 18, 1958	9.14	1,240
	Jan. 13, 1953	15.03	9,170	1959	Feb. 16, 1959	8.44	906
	Mar. 19, 1953	16.13	11,600	1960	June 28, 1960	6.84	397
1954	Jan. 17, 1954	22.75	33,000	1961	July 4, 1961	7.55	585
	Jan. 23, 1954	14.18	7,220	1962	June 28, 1962	7.38	524
	Feb. 13, 1954	17.25	14,100	1963	Jan. 31, 1963	8.77	1,060
	Feb. 17, 1954	15.93	10,800	1964	July 19-21, 1964	7.75	658
	Apr. 5, 1954	13.84	6,810	1965	Jan. 7, 1965	14.96	7,740

4545. Putah Creek at Winters, Calif.

Location.--Lat 38°31'15", long 121°58'00", in Rio de los Putos Grant, just downstream from Southern Pacific Co.'s railroad bridge at Winters, Yolo County.

Drainage area.--635 sq mi (revised).

Gage.--Nonrecording, except during high flows of 1922, 1925-28, and 1930, when recording gage was in use. Datum of gage is 92.38 ft above mean sea level, adjustment of 1912.

Stage-discharge relation.--Defined by current-meter measurements below 22,500 cfs.

Remarks.--Peaks for the years 1906, 1908, 1910-12, 1914-21, 1923 and 1924 are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Jan. 19, 1906	24.0	25,400	1920	Apr. 16, 1920	9.0	2,830
1907	Mar. 19, 1907	29.0	37,300				
1908	Feb. 2, 1908	14.25	8,600	1921	Jan. 30, 1921	29.2	33,500
1909	Jan. 8, 1909	27.5	33,400	1922	Feb. 19, 1922	20.8	17,000
1910	Dec. 9, 1909	17.4	12,900	1923	Dec. 10, 1922	23.4	21,900
				1924	Feb. 8, 1924	18.2	13,100
1911	Mar. 7, 1911	26.22	28,300	1925	Feb. 11, 1925	35.1	53,600
1912	Jan. 26, 1912	10.90	4,530				
1913	Jan. 18, 1913	18.6	14,600	1926	Apr. 8, 1926	25.5	24,500
1914	Dec. 31, 1913	39.0	60,000	1927	Apr. 2, 1927	29.2	31,300
1915	Feb. 2, 1915	30.0	40,400	1928	Mar. 27, 1928	31.0	34,700
				1929	Feb. 4, 1929	14.8	7,860
1916	Jan. 3, 1916	35.0	53,300	1930	Dec. 15, 1929	25.3	22,700
1917	Feb. 24, 1917	29.0	37,300				
1918	Mar. 19, 1918	9.8	3,790	1931	Jan. 23, 1931	11.33	3,350
1919	Feb. 10, 1919	26.0	30,000				

4550. Putah Creek near Davis, Calif.

Location.--Lat 38°31'24", long 121°47'10", in SE¼ sec.19, T.8 N., R.2 E., on right bank in Los Putos Grant, 3.3 miles southwest of Davis, Yolo County, and 9.9 miles east of Winters.

Drainage area.--638 sq mi.

Gage.--Recording. Altitude of gage is 45 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 46,400 cfs.

Remarks.--Peaks regulated by Lake Berryessa (usable capacity, 1,592,000 acre-ft) beginning Jan. 11, 1957. Peaks may be affected by diversions above station for irrigation of about 38,900 acres, beginning in May 1959. Only annual peaks are shown subsequent to Oct. 1, 1955. Base for partial-duration series, 5,000 cfs.

Peak stages and discharges of Putah Creek near Davis, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Mar. 12, 1949	17.2	21,200	1953	Dec. 20, 1952	9.61	6,280
					Dec. 27, 1952	12.31	11,000
1950	Jan. 14, 1950	-	6,460		Dec. 30, 1952	9.66	6,360
	Feb. 4, 1950	16.48	20,000		Jan. 9, 1953	20.79	36,400
					Jan. 13, 1953	10.63	8,030
1951	Nov. 19, 1950	9.92	6,200		Mar. 20, 1953	11.38	9,460
	Dec. 3, 1950	20.88	33,200				
	Dec. 14, 1950	10.72	7,540	1954	Jan. 17, 1954	17.37	29,700
	Jan. 18, 1951	9.30	5,360		Jan. 23, 1954	8.04	5,360
	Jan. 22, 1951	11.81	9,440		Feb. 13, 1954	11.15	12,100
					Feb. 18, 1954	10.67	10,800
1952	Dec. 1, 1951	13.13	11,900		Apr. 5, 1954	8.06	6,320
	Dec. 3, 1951	13.50	12,700				
	Dec. 28, 1951	13.36	12,400	1955	Nov. 16, 1954	6.98	4,370
	Jan. 12, 1952	13.34	13,500				
	Jan. 14, 1952	16.74	21,200	1956	Dec. 22, 1955	24.36	46,600
	Jan. 17, 1952	11.36	9,420	1957	Feb. 24, 1957	3.93	1,150
	Jan. 20, 1952	9.00	5,350	1958	Feb. 24, 1958	8.93	6,390
	Jan. 25, 1952	13.71	14,400	1959	Feb. 16, 1959	10.67	8,250
	Feb. 2, 1952	13.83	14,600	1960	Feb. 8, 1960	4.32	1,050
	Mar. 15, 1952	9.97	6,850				
				1961	Jan. 31, 1961	2.78	242
1953	Dec. 7, 1952	21.5	39,000	1962	Feb. 15, 1962	8.08	3,570

NAPA RIVER BASIN

4559.5. Sulphur Creek near St. Helena, Calif.

Location.--Lat 38°29'20", long 122°28'50", in NE¼ sec.2, T.7 N., R.6 W., at bridge on private road, 1.3 miles southwest of St. Helena.

Drainage area.--4.50 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 300 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 170 cfs and extended above on basis of slope-area measurement at 924 cfs.

Bankfull stage.--15 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 21, 1955	15.80	-	1961	Jan. 31, 1961	11.04	400
				1962	Feb. 14, 1962	11.48	435
1958	Feb. 24, 1958	13.53	924	1963	Oct. 14, 1962	12.43	645
1959	Feb. 16, 1959	11.67	470	1964	Jan. 20, 1964	10.46	235
1960	Feb. 8, 1960	13.32	860	1965	Dec. 23, 1964	10.80	980

4560. Napa River near St. Helena, Calif.

Location.--Lat 38°29'40", long 122°25'50", in SE¼ sec.32, T.8 N., R.5 W., on right bank 0.2 mile upstream from highway bridge, 1.3 miles northeast of Zinfandel, and 2.5 miles east of St. Helena.

Drainage area.--81.4 sq mi.

Gage.--Recording. Prior to Nov. 22, 1958, at datum 1.00 ft higher. Altitude of gage is 200 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs.

Bankfull stage.--15 ft.

Historical data.--The peak of Feb. 27, 1940, probably exceeded any discharge during the period of no record, 1933-38.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 2,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Dec. 15, 1929	8.80	4,480	1954	Jan. 17, 1954	11.75	8,020
					Feb. 12, 1954	8.80	4,630
1931	Jan. 23, 1931	4.32	920		Feb. 17, 1954	6.24	2,430
1932	Dec. 27, 1931	9.75	5,980				
				1955	Nov. 15, 1954	a3.67	670
1940	Feb. 27, 1940	14.5	11,700	1956	Dec. 19, 1955	12.45	8,920
					Dec. 22, 1955	15.17	12,600
1941	Apr. 4, 1941	11.64	7,870		Dec. 26, 1955	11.01	7,090
1942	Feb. 6, 1942	14.6	11,800		Jan. 7, 1956	8.03	3,920
1943	Jan. 21, 1943	11.43	7,600		Jan. 15, 1956	8.64	4,470
					Jan. 25, 1956	8.28	4,140
1944	Mar. 4, 1944	9.10	4,910		Feb. 22, 1956	12.37	8,820
1945	Feb. 1, 1945	8.75	4,560	1957	Feb. 24, 1957	7.09	3,110
	Feb. 2, 1945	-	2,330				
				1958	Jan. 29, 1958	9.25	4,520
1946	Dec. 27, 1945	8.23	4,060		Feb. 2, 1958	6.91	2,600
					Feb. 12, 1958	9.62	4,880
1947	Feb. 12, 1947	6.88	2,890		Feb. 18, 1958	8.39	3,750
					Feb. 24, 1958	13.43	9,640
1948	Mar. 23, 1948	6.12	2,310		Mar. 29, 1958	6.64	2,410
					Apr. 2, 1958	11.77	7,360
1949	Mar. 11, 1949	9.42	4,820				
				1959	Feb. 17, 1959	9.22	4,890
1950	Jan. 14, 1950	-	2,550				
	Feb. 4, 1950	9.42	4,910	1960	Feb. 8, 1960	14.48	11,600
1951	Dec. 3, 1950	11.9	7,680	1961	Jan. 31, 1961	6.38	2,160
	Jan. 18, 1951	6.27	2,420				
	Jan. 21, 1951	7.10	3,070	1962	Feb. 13, 1962	11.60	7,730
1952	Dec. 1, 1951	8.18	4,010	1963	Oct. 13, 1962	8.55	4,050
	Dec. 3, 1951	7.70	3,580		Jan. 31, 1963	15.30	12,300
	Jan. 14, 1952	8.43	4,280		Mar. 27, 1963	7.78	3,330
	Jan. 24, 1952	8.11	3,990		Apr. 6, 1963	7.47	3,050
	Feb. 1, 1952	8.65	4,480				
				1964	Jan. 20, 1964	9.52	5,020
1953	Dec. 7, 1952	12.47	8,950				
	Dec. 27, 1952	6.30	2,480	1965	Dec. 22, 1964	14.90	11,700
	Jan. 9, 1953	9.70	5,550		Dec. 26, 1964	6.95	2,620
	Mar. 19, 1953	6.27	2,460		Jan. 5, 1965	14.96	11,800

a Occurred Jan. 18, 1955.

4564. Lake Hennessey tributary near Rutherford, Calif.

Location.--Lat 38°29'00", long 122°21'15", in SW¼ sec.6, T.7 N., R.4 W., at culvert on State Highway 128, 4 miles northeast of Rutherford.

Drainage area.--1.04 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 330 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 26 cfs and extended above on basis of computation of flow thru culvert at 149 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	5.53	53	1963	Jan. 31, 1963	7.71	149
1960	Feb. 8, 1960	5.61	59	1964	Jan. 20, 1964	4.45	22
				1965	Jan. 5, 1965	8.50	184
1961	Jan. 31, 1961	4.14	4.1				
1962	Feb. 14, 1962	5.69	64				

4565. Conn Creek near St. Helena, Calif.

Location.--Lat 38°28'55", long 122°22'25", in SW¼SW¼ sec.1, T.7 N., R.5 W., in outlet pool at toe of Conn Dam, 1.8 miles upstream from bridge on State Highway 28, 5.4 miles east of St. Helena, and 8 miles upstream from mouth.

Drainage area.--52.1 sq mi.

Gage.--Recording. Prior to Aug. 5, 1952, at site 1.6 miles downstream at different datum. Subsequent to Aug. 5, 1952, auxiliary gage in spillway. Altitude of spillway gage is 315 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs prior to Aug. 5, 1952; below 1,300 cfs thereafter.

Remarks.--Peaks regulated by Lake Hennessey (capacity, 31,000 acre-ft), beginning in December 1945, and may be affected by diversion from Lake Hennessey for municipal use. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Dec. 15, 1929	7.62	2,000	1945	Feb. 1, 1945	6.90	2,590
1931	Jan. 23, 1931	4.41	289	1946	Dec. 27, 1945	1.81	20
1932	Dec. 27, 1931	8.31	2,720	1947	Feb. 12, 1947	1.84	20
1933	Jan. 29, 1933	5.55	768	1948	June 1, 1948	2.32	66
1934	Jan. 1, 1934	5.61	850	1949	Mar. 11, 1949	a1.86	26
1935	Mar. 6, 1935	8.80	2,750	1950	Mar. 24, 1950	2.72	72
1936	Feb. 21, 1936	9.5	3,310	1951	Dec. 3, 1950	6.38	1,320
1937	Feb. 4, 1937	10.3	4,600	1952	Jan. 14, 1952	7.30	1,300
1938	Feb. 2, 1938	8.8	3,470	1953	Jan. 9, 1953	1.57	996
1939	Mar. 9, 1939	3.91	142	1954	Feb. 17, 1954	.88	401
1940	Feb. 27, 1940	11.80	7,700	1955	(b)	.89	9.4
1941	Apr. 4, 1941	9.10	4,670	1956	Dec. 23, 1955	3.70	3,600
1942	Feb. 6, 1942	10.9	6,880	1957	Jan. 9, 1957	1.61	41
1943	Jan. 21, 1943	8.95	4,700	1958	Feb. 24, 1958	3.39	3,140
1944	Mar. 4, 1944	5.50	1,440	1959	Feb. 19, 1959	1.34	683

a Occurred July 11, 1949.
b Occurred on many days in June 1955.

4570. Dry Creek near Napa, Calif.

Location.--Lat 38°21'23", long 122°21'50", in Napa Grant, on right bank 3.7 miles upstream from mouth and 5.5 miles northwest of Napa, Napa County.

Drainage area.--17.4 sq mi.

Gage.--Recording. Prior to June 14, 1955, at site 350 ft downstream at different datum. Altitude of gage is 190 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 450 cfs prior to June 14, 1955; below 2,600 cfs thereafter.

Remarks.--Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 1, 1951	5.30	1,280	1958	Feb. 12, 1958	4.85	585
	Dec. 3, 1951	3.97	671		Feb. 19, 1958	5.08	727
	Jan. 14, 1952	4.60	945		Feb. 24, 1958	8.11	3,460
	Jan. 16, 1952	3.88	634		Mar. 20, 1958	5.32	845
	Feb. 1, 1952	3.80	602		Mar. 29, 1958	5.29	824
	Mar. 14, 1952	4.33	824		Apr. 2, 1958	7.59	2,870
1953	Dec. 6, 1952	7.05	2,380		Apr. 5, 1958	5.04	657
	Dec. 30, 1952	3.57	473	1959	Feb. 16, 1959	5.76	1,240
	Jan. 7, 1953	4.55	905				
	Apr. 27, 1953	3.57	473	1960	Feb. 8, 1960	6.28	1,680
1954	Jan. 17, 1954	6.12	1,750	1961	Jan. 31, 1961	4.36	320
	Feb. 12, 1954	3.94	659				
	Feb. 17, 1954	3.58	516	1962	Feb. 9, 1962	4.65	472
1955	Apr. 21, 1955	2.50	161		Feb. 13, 1962	5.96	1,400
				1963	Oct. 13, 1962	5.30	940
1956	Dec. 19, 1955	7.25	2,600		Jan. 31, 1963	6.88	2,230
	Dec. 22, 1955	7.00	2,350		Mar. 27, 1963	4.83	624
	Dec. 26, 1955	5.89	1,340				
	Jan. 7, 1956	5.17	789	1964	Jan. 20, 1964	5.57	1,140
	Jan. 15, 1956	4.93	633				
	Feb. 22, 1956	6.18	1,590	1965	Dec. 23, 1964	5.51	1,100
1957	Feb. 24, 1957	4.70	500		Jan. 5, 1965	7.62	2,970
					Jan. 23, 1965	4.57	467
1958	Jan. 29, 1958	4.77	5.38				

SONOMA CREEK BASIN

4584. Sonoma Creek near Kenwood, Calif.

Location.--Lat 38°26'32", long 122°32'15", in NE¼ sec.20, T.7 N., R.6 W., at bridge on private road, 2.0 miles north of Kenwood.

Drainage area.--6.06 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 580 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 880 cfs and extended above on basis of slope-area measurement at 1,430 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Feb. 24, 1958	13.25	1,510	1962	Feb. 13, 1962	12.62	685
1959	Feb. 16, 1959	12.53	640	1963	Jan. 31, 1963	13.10	910
1960	Feb. 8, 1960	-	1,430	1964	Jan. 20, 1964	12.95	850
1961	Dec. 1, 1960	11.83	395				

4585. Sonoma Creek at Boyes Hot Springs, Calif.

Location.--Lat 38°18'49", long 122°29'09", in Agua Caliente Grant, on left bank 10 ft downstream from county highway bridge at Boyes Hot Springs, Sonoma County, and 2.2 miles northwest of Sonoma.

Drainage area.--62.2 sq mi.

Gage.--Recording. Altitude of gage is 75 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,100 cfs and extended above on basis of slope-area measurement at 8,880 cfs.

Bankfull stage.--16 ft.

Historical data.--Flood of 1937 reached a stage of about 19 ft, according to local residents.

Remarks.--Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 19, 1955	14.50	6,620	1959	Feb. 16, 1959	12.15	4,690
	Dec. 22, 1955	17.10	8,880				
	Dec. 26, 1955	14.09	6,270	1960	Feb. 1, 1960	7.95	1,900
	Jan. 7, 1956	11.14	3,860		Feb. 8, 1960	14.40	6,530
	Jan. 15, 1956	11.17	3,890		Mar. 7, 1960	6.95	1,500
	Jan. 25, 1956	8.17	1,800				
	Feb. 20, 1956	11.25	3,950	1961	Jan. 31, 1961	8.42	2,300
	Feb. 22, 1956	13.10	5,430				
	Feb. 25, 1956	7.80	1,580	1962	Dec. 1, 1961	7.05	1,560
					Jan. 19, 1962	8.50	2,350
1957	Feb. 24, 1957	7.59	1,450		Feb. 9, 1962	8.66	2,440
					Feb. 13, 1962	13.25	5,550
1958	Dec. 18, 1957	7.96	1,910		Mar. 5, 1962	8.02	2,190
	Jan. 26, 1958	7.80	1,810				
	Jan. 29, 1958	9.52	2,890	1963	Oct. 13, 1962	10.85	3,800
	Feb. 4, 1958	8.32	2,120		Jan. 31, 1963	12.17	4,710
	Feb. 7, 1958	7.90	1,870		Feb. 12, 1963	7.62	1,860
	Feb. 12, 1958	10.72	3,680		Mar. 27, 1963	10.02	3,260
	Feb. 18, 1958	10.20	3,330		Apr. 6, 1963	8.68	2,450
	Feb. 24, 1958	14.17	6,330				
	Mar. 21, 1958	9.75	3,040	1964	Jan. 20, 1964	11.69	4,360
	Mar. 29, 1958	8.93	2,500				
	Apr. 2, 1958	14.14	6,310	1965	Nov. 10, 1964	6.18	1,500
	Apr. 5, 1958	8.60	2,290		Dec. 23, 1964	11.45	4,480
					Dec. 26, 1964	6.91	1,880
1959	Jan. 9, 1959	8.52	2,240		Jan. 5, 1965	15.56	7,520

PETALUMA RIVER BASIN

4590. Petaluma River at Petaluma, Calif.
(Published as Petaluma Creek near Petaluma prior to October 1958)

Location.--Lat 38°15'40", long 122°39'35", in Roblar de la Miseria Grant, on right bank 70 ft downstream from county highway bridge in Petaluma, Sonoma County, and 1.3 miles downstream from Lichau Creek.

Drainage area.--30.9 sq mi.

Gage.--Recording. Altitude of gage is 20 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs.

Bankfull stage.--13 ft.

Remarks.--Base for partial-duration series, 400 cfs.

Peak stages and discharges of Petaluma River at Petaluma, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Mar. 11, 1949	10.45	1,130	1956	Jan. 14, 1956	13.53	1,860
					Jan. 20, 1956	9.32	610
1950	Jan. 17, 1950	-	755		Jan. 25, 1956	11.40	1,140
	Jan. 28, 1950	-	822		Feb. 20, 1956	10.90	990
	Feb. 4, 1950	12.19	1,270		Feb. 22, 1956	12.40	1,460
1951	Nov. 18, 1950	7.22	462	1957	Feb. 26, 1957	5.97	124
	Dec. 3, 1950	12.55	1,360				
	Dec. 7, 1950	10.07	837	1958	Jan. 26, 1958	8.97	689
	Dec. 14, 1950	10.80	980		Jan. 30, 1958	7.93	542
	Jan. 22, 1951	11.87	1,210		Feb. 2, 1958	10.04	894
	Feb. 5, 1951	11.48	1,130		Feb. 7, 1958	10.19	923
					Feb. 10, 1958	8.72	653
1952	Dec. 1, 1951	7.96	508		Feb. 12, 1958	11.70	1,290
	Dec. 3, 1951	11.86	1,210		Feb. 19, 1958	12.42	1,500
	Jan. 11, 1952	10.80	976		Feb. 24, 1958	13.44	1,810
	Jan. 14, 1952	11.65	1,160		Mar. 21, 1958	10.93	1,070
	Jan. 16, 1952	11.51	1,130		Apr. 2, 1958	12.04	1,390
	Jan. 24, 1952	11.90	1,220		Apr. 6, 1958	8.80	670
	Feb. 1, 1952	9.26	661				
	Mar. 15, 1952	10.86	989	1959	Feb. 16, 1959	12.38	1,470
					Feb. 20, 1959	7.14	430
1953	Dec. 7, 1952	11.28	1,080				
	Dec. 19, 1952	10.30	866	1960	Feb. 8, 1960	10.56	985
	Dec. 27, 1952	11.27	1,080		Mar. 7, 1960	7.71	509
	Dec. 30, 1952	8.58	533				
	Jan. 7, 1953	9.82	770	1961	Jan. 31, 1961	9.97	886
	Jan. 19, 1953	8.41	506		Feb. 11, 1961	6.63	404
	Apr. 27, 1953	7.82	416				
				1962	Feb. 9, 1962	6.91	547
1954	Jan. 17, 1954	9.37	559		Feb. 13, 1962	10.33	1,230
	Feb. 17, 1954	8.97	474		Feb. 14, 1962	11.55	1,530
	Mar. 21, 1954	8.85	450		Feb. 18, 1962	6.60	508
					Mar. 5, 1962	8.24	821
1955	Jan. 18, 1955	9.28	540				
				1963	Oct. 13, 1962	7.01	587
1956	Dec. 19, 1955	12.91	1,640		Jan. 31, 1963	10.76	1,320
	Dec. 22, 1955	13.55	1,860		Feb. 12, 1963	9.17	999
	Dec. 26, 1955	13.53	1,860		Mar. 28, 1963	8.81	929
	Dec. 31, 1955	8.39	418		Apr. 6, 1963	7.43	667
	Jan. 7, 1956	11.93	1,300		Apr. 14, 1963	6.13	428

NOVATO CREEK BASIN

4595. Novato Creek near Novato, Calif.

Location.--Lat 38°06'45", long 122°35'05", in Novato Grant, on right bank 500 ft downstream from highway bridge and 1 mile west of U.S. Highway 101 in Novato, Marin County.

Drainage area.--17.5 sq mi.

Gage.--Recording. Altitude of gage is 45 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs.

Bankfull stage.--14 ft.

Remarks.--Peaks regulated by Stafford Lake (capacity, 4,500 acre-ft) beginning Dec. 1, 1951. Peaks may be affected by diversion from Stafford Lake for municipal water supply beginning Apr. 25, 1952. Only annual peaks are shown subsequent to the year 1961. Base for partial-duration series, 200 cfs.

Peak stages and discharges of Novato Creek near Novato, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Mar. 3, 1947	3.20	239	1954	Feb. 17, 1954	4.25	446
1948	Mar. 23, 1948	2.67	132	1955	Dec. 9, 1954	2.88	218
1949	Feb. 6, 1949	-	242	1956	Dec. 19, 1955	6.59	872
	Mar. 5, 1949	-	262		Dec. 22, 1955	7.88	1,120
	Mar. 11, 1949	6.41	748		Dec. 26, 1955	7.45	1,030
	Mar. 19, 1949	-	403		Dec. 31, 1955	3.11	219
					Jan. 7, 1956	5.00	545
1950	Jan. 16, 1950	-	455		Jan. 15, 1956	5.92	724
	Jan. 28, 1950	-	258		Jan. 20, 1956	3.15	225
	Feb. 4, 1950	7.15	978		Jan. 25, 1956	4.02	369
					Feb. 20, 1956	3.20	233
1951	Nov. 18, 1950	4.22	441		Feb. 22, 1956	5.98	736
	Dec. 3, 1950	7.97	1,130		Feb. 25, 1956	3.16	227
	Dec. 6, 1950	4.47	485				
	Dec. 14, 1950	3.93	392	1957	Feb. 24, 1957	3.68	312
	Jan. 18, 1951	3.61	338				
	Jan. 21, 1951	5.33	639	1958	Jan. 25, 1958	4.64	466
	Feb. 5, 1951	5.29	632		Jan. 29, 1958	3.27	213
	Mar. 6, 1951	2.98	234		Feb. 4, 1958	4.62	464
					Feb. 9, 1958	4.40	420
1952	Dec. 3, 1951	5.08	594		Feb. 12, 1958	5.01	542
	Jan. 12, 1952	5.45	661		Feb. 18, 1958	6.38	815
	Jan. 14, 1952	6.77	906		Feb. 24, 1958	8.24	1,190
	Jan. 16, 1952	4.45	481		Mar. 29, 1958	3.45	250
	Jan. 25, 1952	4.26	448		Apr. 2, 1958	6.80	899
	Feb. 1, 1952	3.11	254		Apr. 5, 1958	4.14	366
	Mar. 14, 1952	6.16	790				
	Mar. 18, 1952	2.82	211	1959	Feb. 16, 1959	6.07	754
1953	Dec. 6, 1952	5.22	620	1960	Feb. 8, 1960	4.68	476
	Dec. 19, 1952	4.01	406				
	Dec. 26, 1952	6.18	794	1961	Jan. 31, 1961	2.78	151
	Dec. 30, 1952	3.34	300				
	Jan. 7, 1953	3.56	334	1962	Feb. 9, 1962	5.85	710
	Jan. 13, 1953	4.24	445	1963	Jan. 30, 1963	5.77	733
				1964	Jan. 20, 1964	8.74	1,330
1954	Jan. 17, 1954	3.97	399	1965	Jan. 5, 1965	7.53	1,120

CORTE MADERA CREEK BASIN

4600. Corte Madera Creek at Ross, Calif.

Location.--Lat 37°57'45", long 122°33'20", in Punta de Quentin Grant, on left bank behind fire station at Ross, Marin County, 1.7 miles southwest of San Rafael and 4 miles upstream from mouth.

Drainage area.--18.1 sq mi.

Gage.--Recording. Altitude of gage is 8 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,600 cfs.

Bankfull stage.--18 ft.

Remarks.--Peaks partly regulated by Phoenix Lake (capacity, 612 acre-ft) beginning in 1908. Peaks may be affected by diversion on tributary above station by Marin Municipal Water District. Base for partial-duration series, 1,000 cfs.

Peak stages and discharges of Corte Madera at Ross, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 1, 1951	11.12	1,460	1958	Feb. 7, 1958	11.43	1,540
	Dec. 3, 1951	16.65	3,300		Feb. 9, 1958	10.66	1,350
	Jan. 12, 1952	9.36	1,050		Feb. 12, 1958	12.10	1,710
	Jan. 14, 1952	15.16	2,720		Feb. 18, 1958	14.68	2,550
	Jan. 24, 1952	11.50	1,560		Feb. 24, 1958	15.15	2,710
	Mar. 14, 1952	13.78	2,240		Mar. 21, 1958	10.04	1,180
					Apr. 2, 1958	16.23	3,130
1953	Dec. 7, 1952	16.59	3,280				
	Dec. 19, 1952	10.98	1,420	1959	Feb. 16, 1959	12.58	1,870
	Jan. 7, 1953	10.29	1,260				
				1960	Feb. 8, 1960	14.87	2,610
1954	Jan. 17, 1954	12.82	1,940				
	Feb. 17, 1954	10.91	1,410	1961	Dec. 1, 1960	7.33	519
1955	Dec. 5, 1954	a7.37	648	1962	Feb. 9, 1962	13.75	2,040
					Feb. 13, 1962	16.01	2,690
1956	Dec. 19, 1955	15.59	2,880		Mar. 5, 1962	11.46	1,430
	Dec. 22, 1955	17.45	3,620				
	Dec. 26, 1955	10.90	1,410	1963	Oct. 13, 1962	10.29	1,070
	Jan. 7, 1956	9.54	1,080		Jan. 30, 1963	15.24	2,460
	Feb. 19, 1956	10.70	1,360		Mar. 28, 1963	11.84	1,470
	Feb. 22, 1956	12.40	1,810				
				1964	Jan. 20, 1964	10.07	1,040
1957	Feb. 23, 1957	7.63	652				
				1965	Dec. 23, 1964	10.73	1,180
1958	Jan. 25, 1958	15.90	3,000		Jan. 5, 1965	11.57	1,400
	Jan. 29, 1958	10.31	1,260				

a Occurred Apr. 21, 1955.

LAGUNITAS CREEK BASIN

4605. Nicasio Creek near Point Reyes Station, Calif.
(Formerly published as Arroyo Nicasio)

Location.--Lat 38°04'20", long 122°45'30", in Nicasio (Buckelew) Grant, on left bank 0.9 mile upstream from mouth and 2.7 miles east of Point Reyes Station, Marin County.

Drainage area.--36.6 sq mi.

Gage.--Recording. Altitude of gage is 60 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs and extended above on basis of slope-area measurement at 9,010 cfs.

Remarks.--Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 17, 1954	12.88	6,860	1958	Jan. 25, 1958	8.59	2,560
	Feb. 17, 1954	9.04	3,040		Jan. 29, 1958	7.64	1,890
					Feb. 7, 1958	7.69	1,940
1955	Dec. 9, 1954	5.99	995		Feb. 9, 1958	9.11	2,910
					Feb. 12, 1958	9.30	3,090
1956	Dec. 19, 1955	13.20	7,240		Feb. 18, 1958	8.72	2,620
	Dec. 22, 1955	14.57	9,010		Feb. 24, 1958	12.53	6,170
	Dec. 26, 1955	11.32	5,050		Mar. 29, 1958	6.87	1,420
	Jan. 7, 1956	10.22	3,920		Apr. 2, 1958	12.28	6,110
	Jan. 14, 1956	8.98	2,830		Apr. 5, 1958	7.45	1,780
	Feb. 20, 1956	6.93	1,470				
	Feb. 22, 1956	9.99	3,690	1959	Feb. 16, 1959	10.46	4,230
1957	Feb. 24, 1957	5.84	920	1960	Feb. 8, 1960	10.80	4,500

4610. Russian River near Ukiah, Calif.

Location.--Lat 39°12'07", long 123°11'55", in Yokayo Rancho Grant, on left bank 200 ft downstream from York Creek, 0.7 mile upstream from East Fork, and 3.6 miles north of Ukiah, Mendocino County.

Drainage area.--99.7 sq mi.

Gage.--Nonrecording prior to October 1952; recording thereafter. Prior to October 1952, at bridge 0.6 mile downstream at different datum. Oct. 1, 1952, to Feb. 16, 1959, at datum 2.00 ft higher. Feb. 17, 1959, to Sept. 30, 1961, at datum 1.00 ft higher. Datum of gage is 612.02 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs prior to October 1952; below 13,000 cfs and extended above on basis of slope-area measurement at 18,900 cfs thereafter.

Bankfull stage.--18 ft.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1952. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Mar. 15, 1912	11.8	4,620	1958	Feb. 18, 1958	8.63	5,100
1913	Nov. 6, 1912	19.5	13,600		Feb. 24, 1958	14.62	13,400
					Apr. 2, 1958	11.16	8,410
1953	Dec. 6, 1952	17.45	10,600		Apr. 5, 1958	7.69	4,130
	Dec. 26, 1952	10.77	4,260				
	Jan. 8, 1953	12.59	5,730	1959	Jan. 5, 1959	8.33	4,760
	Jan. 17, 1953	15.99	8,990		Jan. 12, 1959	9.04	5,590
					Feb. 16, 1959	8.80	5,300
1954	Jan. 17, 1954	15.48	9,280				
	Jan. 23, 1954	10.94	5,200	1960	Feb. 1, 1960	9.15	4,580
	Feb. 12, 1954	11.12	5,360		Feb. 8, 1960	16.55	14,900
					Mar. 7, 1960	9.00	4,980
1955	Dec. 5, 1954	8.80	3,480				
				1961	Dec. 1, 1960	8.47	4,450
1956	Dec. 6, 1955	14.00	9,600		Feb. 11, 1961	9.61	5,610
	Dec. 19, 1955	17.36	15,600				
	Dec. 21, 1955	19.0	18,900	1962	Dec. 1, 1961	8.94	4,190
	Jan. 7, 1956	8.52	4,620		Jan. 19, 1962	9.40	4,600
	Jan. 15, 1956	14.55	13,300		Feb. 13, 1962	12.85	8,320
	Feb. 21, 1956	12.05	9,470				
				1963	Oct. 12, 1962	10.74	5,940
1957	Jan. 20, 1957	11.24	8,340		Dec. 2, 1962	11.55	6,810
	Feb. 24, 1957	9.92	6,490		Jan. 31, 1963	15.43	11,800
	Mar. 4, 1957	8.09	4,340				
				1964	Jan. 20, 1964	13.28	8,850
1958	Oct. 13, 1957	8.88	5,240				
	Jan. 29, 1958	10.62	7,440	1965	Dec. 22, 1964	19.44	17,900
	Feb. 3, 1958	8.81	5,110		Dec. 26, 1964	7.20	4,020
	Feb. 9, 1958	11.20	8,300		Jan. 5, 1965	16.24	13,500
	Feb. 12, 1958	15.13	14,200				

4614. East Fork Russian River tributary near Potter Valley, Calif.

Location.--Lat 39°15'30", long 123°06'55", in NE¼ sec.7, T.16 N., R.11 W., at culvert on Potter Valley road, 4.4 miles south of Potter Valley.

Drainage area.--0.15 sq mi.

Gage.--Recording prior to Sept. 25, 1962; crest-stage gage thereafter. Altitude of gage is 900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 8 cfs and extended above on basis of culvert computations at 19, 65, and 94 cfs.

Remarks.--Only annual peaks are shown subsequent to 1961. Base for partial-duration series, 10 cfs.

Peak stages and discharges of East Fork Russian River tributary near Potter Valley, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Jan. 8, 1959	7.55	11	1961	Feb. 9, 1961	7.73	15
	Jan. 12, 1959	7.92	19		Feb. 11, 1961	7.82	17
	Feb. 15, 1959	7.64	13		Mar. 14, 1961	7.58	11
					Mar. 16, 1961	7.75	15
1960	Feb. 1, 1960	8.29	28				
	Feb. 8, 1960	8.29	28	1962	Dec. 13, 1961	8.79	34
	Mar. 12, 1960	9.72	65	1963	Oct. 12, 1962	11.72	94
				1964	Jan. 20, 1964	8.43	27
1961	Dec. 1, 1960	8.90	44	1965	Dec. 22, 1964	14.46	121

4615. East Fork Russian River near Calpella, Calif.

Location.--Lat 39°14'35", long 123°08'10", in NW¼ sec.13, T.16 N., R.12 W., on left bank 0.5 mile downstream from Cold Creek and 3.6 miles east of Calpella.

Drainage area.--93.8 sq mi.

Gage.--Recording. Prior to May 28, 1957, at site 0.9 mile downstream at different datum. Altitude of gage is 800 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 8,600 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks are greatly affected by importation of water from Eel River through Potter Valley powerhouse (capacity, about 350 cfs) since beginning of record. Only annual peaks are shown prior to Oct. 1, 1947. Base for partial-duration series, 3,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 5, 1942	12.35	8,900	1955	Dec. 5, 1954	7.94	2,800
1943	Jan. 21, 1943	13.67	11,200				
1944	Mar. 4, 1944	10.55	6,020	1956	Dec. 6, 1955	10.28	5,540
1945	Feb. 2, 1945	8.25	3,100		Dec. 19, 1955	12.74	9,280
					Dec. 21, 1955	15.06	13,300
1946	Dec. 27, 1945	13.12	10,200		Jan. 7, 1956	9.33	4,300
1947	Mar. 3, 1947	9.65	4,710		Jan. 15, 1956	12.48	8,870
					Feb. 21, 1956	11.58	7,430
1948	Mar. 23, 1948	9.84	4,980				
				1957	Jan. 20, 1957	10.20	5,430
1949	Feb. 10, 1949	9.28	4,240		Feb. 24, 1957	9.62	4,660
					Mar. 4, 1957	8.50	3,350
1950	Jan. 13, 1950	-	3,710				
	Feb. 4, 1950	9.24	4,190	1958	Jan. 26, 1958	8.46	3,890
	Mar. 23, 1950	-	3,620		Jan. 29, 1958	9.92	5,190
					Feb. 3, 1958	8.88	4,270
1951	Dec. 3, 1950	13.4	10,700		Feb. 9, 1958	11.30	6,700
	Jan. 18, 1951	8.66	3,530		Feb. 12, 1958	13.82	9,490
	Jan. 21, 1951	13.7	11,300		Feb. 18, 1958	9.38	4,710
	Feb. 4, 1951	13.0	10,000		Feb. 24, 1958	15.55	11,600
	Feb. 11, 1951	9.94	5,120		Mar. 29, 1958	8.46	3,890
					Apr. 2, 1958	10.56	5,880
1952	Dec. 1, 1951	12.0	8,300		Apr. 5, 1958	8.50	3,920
	Dec. 3, 1951	10.12	5,380				
	Dec. 27, 1951	11.50	7,500	1959	Jan. 12, 1959	9.28	4,620
	Jan. 11, 1952	8.80	3,680		Feb. 16, 1959	8.46	3,890
	Jan. 14, 1952	10.47	5,900				
	Feb. 1, 1952	11.74	7,880	1960	Feb. 8, 1960	13.55	9,160
					Mar. 7, 1960	9.17	4,500
1953	Dec. 6, 1952	12.75	9,580				
	Dec. 26, 1952	10.40	5,800	1961	Dec. 1, 1960	10.55	5,850
	Jan. 8, 1953	10.97	6,660		Dec. 16, 1960	7.80	3,340
	Jan. 14, 1953	8.50	3,350		Feb. 11, 1961	8.69	4,070
	Jan. 17, 1953	11.05	6,780		Mar. 14, 1961	8.28	3,720
	Jan. 20, 1953	8.49	3,340				
				1962	Dec. 1, 1961	8.70	4,080
1954	Jan. 17, 1954	13.30	10,500		Feb. 13, 1962	11.17	6,490
	Jan. 23, 1954	9.20	4,140		Mar. 5, 1962	9.38	4,690
	Feb. 12, 1954	9.50	4,500				

Peak stages and discharges of East Fork Russian River near Calpella, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1963	Oct. 12, 1962	8.10	3,580	1965	Dec. 22, 1964	20.21	18,700
	Dec. 2, 1962	9.54	4,840		Jan. 5, 1965	17.19	14,400
	Jan. 31, 1963	12.49	7,940				
1964	Jan. 20, 1964	12.85	8,340				

4620. East Fork Russian River near Ukiah, Calif.

Location.--Lat 39°11'45", long 123°11'30", in Yokayo Rancho Grant, on right bank of outlet channel, 500 ft downstream from Coyote Dam, 1,300 ft upstream from mouth, and 3.2 miles northeast of Ukiah, Mendocino County.

Drainage area.--105 sq mi; 104 sq mi at site used 1951-55.

Gage.--Nonrecording prior to Oct. 1, 1913; recording thereafter. Prior to Oct. 1, 1913, at site half a mile upstream at different datum. Oct. 1, 1951, to June 8, 1956, at site 1.0 mile upstream at different datum. Datum of gage is 614.43 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 900 cfs prior to Oct. 1, 1913; below 1,700 cfs for period Oct. 1, 1951, to June 1956; below 4,250 cfs thereafter.

Bankfull stage.--16 ft.

Remarks.--Low peaks may be affected by diversion from Eel River through Potter Valley powerhouse. All peaks affected by storage in Lake Mendocino (capacity 122,500 acre-ft) beginning in November 1958. Only annual peaks are shown for the years 1912, 1913 and subsequent to 1958. Base for partial-duration series, 3,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Mar. 15, 1912	11.7	6,500	1955	Dec. 5, 1954	9.75	2,500
1913	Jan. 18, 1913	11.5	6,140				
				1956	Dec. 6, 1955	12.15	4,880
1952	Dec. 1, 1951	14.3	7,980		Dec. 19, 1955	-	8,800
	Dec. 3, 1951	12.55	5,370		Dec. 21, 1955	16.86	13,300
	Dec. 27, 1951	14.0	7,500		Jan. 7, 1956	-	4,100
	Jan. 11, 1952	10.63	3,230		Jan. 15, 1956	-	8,400
	Jan. 14, 1952	12.67	5,540		Feb. 21, 1956	-	7,500
	Feb. 1, 1952	14.03	7,550				
				1958	Feb. 24, 1958	9.15	4,300
1953	Dec. 7, 1952	15.20	9,540				
	Dec. 26, 1952	11.39	4,170	1959	Feb. 19, 1959	4.93	1,030
	Jan. 9, 1953	13.65	6,940	1960	Mar. 4, 1960	6.49	1,910
	Jan. 14, 1953	10.54	3,390				
	Jan. 17, 1953	13.54	6,760	1961	Feb. 10, 1961	6.53	1,940
	Jan. 20, 1953	10.37	3,230	1962	Apr. 11, 1962	8.79	3,840
				1963	Dec. 19, 1962	9.14	4,200
1954	Jan. 17, 1954	15.60	10,300	1964	Nov. 24, 1963	9.16	4,380
	Jan. 23, 1954	10.68	3,280	1965	Dec. 30, 1964	10.82	6,780
	Feb. 12, 1954	10.86	3,460				

4621. Robinson Creek near Ukiah, Calif.

Location.--Lat 39°05'30", long 123°13'10", in NE¼ sec.7, T.14 N., R.12 W., 100 ft above county road bridge, 2.3 miles above mouth, and 3.5 miles south of Ukiah.

Drainage area.--19.8 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 598 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 240 cfs and extended above on basis of slope-area measurement at 2,880 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges of Robinson Creek near Ukiah, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 21, 1955	15.33	-	1960	Feb. 8, 1960	15.29	2,050
1958	Feb. 24, 1958	17.08	2,880	1961	Dec. 1, 1960	12.85	1,030
1959	Jan. 12, 1959	13.77	1,390	1962	Feb. 13, 1962	14.09	1,510

4621.25. Slide Creek near Ukiah, Calif.

Location.--Lat 39°04'15", long 123°12'35", in SW¼ sec.17, T.14 N., R.12 W., at culvert on Boonville road, 5.5 miles south of Ukiah.

Drainage area.--0.57 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 43 cfs and extended above on basis of culvert computation at 65 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 21, 1959	13.64	65	1962	Feb. 13, 1962	13.00	49
1960	Feb. 8, 1960	13.20	54	1963	Jan. 31, 1963	13.61	64
				1964	Jan. 20, 1964	12.43	36
1961	Mar. 14, 1961	12.07	28	1965	Dec. 23, 1964	16.00	153

4625. Russian River near Hopland, Calif.

Location.--Lat 39°01'35", long 123°07'45", in Rancho de Sanel Grant, on right bank at abandoned highway bridge, 0.2 mile downstream from McNab Creek, 4 miles north of Hopland, Mendocino County, and 17 miles upstream from Sulphur Creek.

Drainage area.--362 sq mi.

Gage.--Nonrecording prior to Sept. 9, 1943; recording thereafter. Datum of gage is 497.43 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 35,000 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by Lake Mendocino (capacity, 122,500 acre-ft) beginning in November 1958. Peaks are affected by importation of water from Eel River into East Fork Russian River through Potter Valley powerhouse (capacity, about 350 cfs) since at least 1910. Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 9,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	December 1937	30.0	-	1946	Dec. 29, 1945	-	13,300
					Jan. 4, 1946	-	16,200
1940	Feb. 28, 1940	24.9	34,100				
				1947	Feb. 12, 1947	-	9,830
1941	Feb. 11, 1941	21.6	21,700		Mar. 10, 1947	15.35	10,400
1942	Feb. 6, 1942	22.8	24,500				
1943	Jan. 21, 1943	26.12	34,000	1948	Mar. 23, 1948	16.3	11,600
1944	Mar. 4, 1944	16.49	12,300	1949	Feb. 11, 1949	15.17	9,730
1945	Feb. 2, 1945	14.69	9,470	1950	Mar. 24, 1950	14.67	8,980
1946	Dec. 4, 1945	-	12,800	1951	Dec. 3, 1950	24.7	31,200
	Dec. 25, 1945	-	10,100		Jan. 18, 1951	15.06	10,100
	Dec. 27, 1945	24.40	30,100		Jan. 21, 1951	25.66	33,900

Peak stages and discharges of Russian River near Hopland, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Feb. 4, 1951	19.92	19,000	1958	Jan. 26, 1958	14.70	10,800
					Feb. 3, 1958	15.66	12,700
1952	Dec. 1, 1951	18.12	15,400		Feb. 9, 1958	15.86	13,000
	Dec. 3, 1951	16.05	11,100		Feb. 12, 1958	19.25	21,700
	Dec. 28, 1951	20.70	20,800		Feb. 18, 1958	15.72	12,800
	Jan. 14, 1952	17.34	14,000		Feb. 24, 1958	22.85	32,300
	Feb. 1, 1952	19.28	17,800		Apr. 2, 1958	16.56	14,500
1953	Dec. 7, 1952	22.10	24,100	1959	Feb. 16, 1959	14.46	10,400
	Dec. 27, 1952	15.42	10,300				
	Jan. 9, 1953	20.00	19,200	1960	Feb. 8, 1960	19.65	22,500
	Jan. 18, 1953	20.99	21,400				
				1961	Feb. 11, 1961	13.89	9,320
1954	Jan. 17, 1954	23.34	27,400				
				1962	Feb. 13, 1962	16.65	14,500
1955	Dec. 5, 1954	11.82	5,820				
				1963	Oct. 12, 1962	14.26	9,970
1956	Dec. 6, 1955	16.80	13,000		Dec. 2, 1962	14.58	10,500
	Dec. 19, 1955	23.06	32,700		Jan. 31, 1963	19.24	21,200
	Dec. 22, 1955	27.00	45,000				
	Jan. 7, 1956	14.38	10,200	1964	Jan. 20, 1964	17.72	17,000
	Jan. 15, 1956	21.63	28,400				
	Feb. 22, 1956	19.47	21,900	1965	Dec. 22, 1964	26.01	41,500
					Jan. 5, 1965	21.11	26,800
1957	Feb. 24, 1957	16.12	13,400				

4627. Feliz Creek near Hopland, Calif.

Location.--Lat 38°58'20", long 123°08'30", in Rancho de Sanel Grant, on left bank just upstream from county road bridge, 0.1 mile upstream from Johnson Creek and 1.4 miles west of Hopland, Mendocino County.

Drainage area.--31.1 sq mi.

Gage.--Recording. Altitude of gage is 500 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,400 cfs and extended above on basis of slope-area measurement at 2,710 cfs.

Bankfull stage.--13 ft.

Remarks.--Only annual peak is shown for 1956. Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 23, 1955	13.60	2,710	1963	Oct. 12, 1962	11.80	2,190
					Jan. 31, 1963	13.43	2,910
1959	Jan. 8, 1959	11.82	2,010				
	Feb. 16, 1959	13.18	2,540	1964	Jan. 20, 1964	13.60	2,710
1960	Feb. 8, 1960	12.55	2,290	1965	Dec. 22, 1964	14.10	6,080
					Jan. 5, 1965	12.85	5,080
1961	Dec. 1, 1960	12.72	2,590		Apr. 15, 1965	9.28	2,400
1962	Feb. 13, 1962	13.35	2,880				

4630. Russian River near Cloverdale, Calif.

Location.--Lat 38°52'55", long 123°03'15", in SW¼ sec.14, T.12 N., R.11 W., on left bank at Lambert Ranch, 400 ft downstream from Cummisky Creek and 5 miles northwest of Cloverdale.

Drainage area.--502 sq mi.

Gage.--Recording. Datum of gage is 373.44 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 21,000 cfs and extended above on basis of determination of peak flow at upstream and downstream stations.

Bankfull stage.--20 ft.

Remarks.--Peaks regulated by Lake Mendocino (capacity, 122,500 acre-ft) beginning in November 1958. Peaks are affected by importation of water from Eel River into East Fork Russian River through Potter Valley Powerhouse (capacity, about 350 cfs) since at least 1910. Base for partial-duration series, 12,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 1, 1951	18.35	17,100	1958	Feb. 4, 1958	18.21	16,600
	Dec. 3, 1951	16.16	12,700		Feb. 9, 1958	17.55	15,200
	Dec. 28, 1951	20.4	21,500		Feb. 12, 1958	20.73	22,800
	Jan. 14, 1952	18.28	17,000		Feb. 19, 1958	18.70	17,900
	Feb. 2, 1952	19.53	19,600		Feb. 24, 1958	26.18	38,100
					Apr. 2, 1958	19.45	19,800
1953	Dec. 7, 1952	21.2	23,200				
	Jan. 9, 1953	21.2	23,200	1959	Jan. 12, 1959	16.89	13,600
	Jan. 18, 1953	19.93	20,500		Feb. 16, 1959	18.83	18,100
1954	Jan. 17, 1954	25.55	33,300	1960	Feb. 8, 1960	21.66	24,900
1955	Dec. 6, 1954	12.84	6,740	1961	Dec. 1, 1960	17.65	15,400
1956	Dec. 20, 1955	22.50	27,300	1962	Feb. 13, 1962	19.51	19,400
	Dec. 22, 1955	30.9	53,000				
	Jan. 7, 1956	17.85	15,800	1963	Jan. 31, 1963	21.75	25,200
	Jan. 15, 1956	23.34	29,700		Mar. 27, 1963	16.91	13,900
	Feb. 22, 1956	22.90	28,400				
				1964	Jan. 20, 1964	18.23	16,600
1957	Feb. 24, 1957	20.00	20,600				
				1965	Dec. 22, 1964	31.05	53,500
1958	Jan. 26, 1958	16.95	13,700		Jan. 5, 1965	23.89	31,200
	Jan. 29, 1958	16.27	12,600				

4632. Big Sulphur Creek near Cloverdale, Calif.

Location.--Lat 38°49'25", long 122°59'05", in NW¼ sec.10, T.11 N., R.10 W., on right bank 500 ft downstream from unnamed tributary, 1.9 miles upstream from mouth, and 3.1 miles northeast of Cloverdale.

Drainage area.--82.3 sq mi.

Gage.--Recording. Altitude of gage is 380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,900 cfs and extended above on basis of slope-area measurement at 20,000 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peak is shown for 1956. Base for partial-duration series, 3,200 cfs.

Peak stages and discharges of Big Sulphur Creek near Cloverdale, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 22, 1955	22.2	20,000	1961	Dec. 1, 1960	12.50	7,300
					Jan. 31, 1961	10.79	5,370
1958	Dec. 17, 1957	8.88	3,430		Feb. 11, 1961	9.21	3,810
	Jan. 26, 1958	8.92	3,470				
	Jan. 29, 1958	10.52	5,170	1962	Dec. 1, 1961	9.65	4,210
	Feb. 4, 1958	8.79	3,430		Feb. 9, 1962	9.32	3,910
	Feb. 9, 1958	10.10	4,580		Feb. 13, 1962	12.13	6,860
	Feb. 12, 1958	10.70	5,320		Mar. 5, 1962	9.77	4,320
	Feb. 18, 1958	9.00	3,610				
	Feb. 24, 1958	14.46	9,960	1963	Oct. 12, 1962	11.30	5,930
	Mar. 20, 1958	11.30	5,910		Dec. 15, 1962	9.15	3,760
	Mar. 29, 1958	10.47	5,110		Jan. 31, 1963	13.65	8,680
	Apr. 2, 1958	11.90	6,500		Mar. 27, 1963	10.07	4,620
					Apr. 6, 1963	9.28	3,870
1959	Jan. 5, 1959	8.63	3,290		Apr. 14, 1963	9.38	3,960
	Jan. 8, 1959	9.55	4,120				
	Jan. 12, 1959	11.30	5,930	1964	Jan. 20, 1964	11.21	5,830
	Feb. 16, 1959	11.80	6,480				
				1965	Nov. 10, 1964	8.56	3,240
1960	Feb. 1, 1960	10.25	4,800		Dec. 22, 1964	15.08	15,700
	Feb. 8, 1960	12.90	7,780		Jan. 5, 1965	13.19	11,600
	Mar. 7, 1960	8.75	3,400		Apr. 15, 1965	9.03	4,540

4639.4. Franz Creek near Kellogg, Calif.
(Published as Frans Creek prior to Oct. 1, 1957)

Location.--Lat 38°36'30", long 122°41'35" in Mallacames Grant, 50 ft below bridge on Franz Valley Road and 2 miles southwest of Kellogg.

Drainage area.--15.7 sq mi.

Gage.--Crest-stage gage prior to 1964; recording thereafter. Altitude of gage is 350 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 320 cfs and extended above on basis of slope-area measurements at 3,030 and 4,130 cfs.

Bankfull stage.--5 ft.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 22, 1955	10.69	4,130	1961	Jan. 31, 1961	7.81	1,380
				1962	Feb. 13, 1962	8.55	3,030
1958	Feb. 24, 1958	8.74	2,400				
1959	Feb. 16, 1959	7.55	1,140	1964	Jan. 20, 1964	5.65	1,740
1960	Feb. 8, 1960	9.35	3,400	1965	Jan. 5, 1965	8.31	5,780

4640. Russian River near Healdsburg, Calif.

Location.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, on left bank 2 miles east of Healdsburg, Sonoma County, and 3.5 miles upstream from Dry Creek.

Drainage area.--793 sq mi.

Gage.--Recording. Datum of gage is 76.84 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Stage-discharge relation.--Defined by current-meter measurements below 53,000 cfs.

Bankfull stage.--Not subject to overflow.

Historical data.--Flood of Jan. 24-25, 1890, reached highest peak known in 25 years and that of Jan. 23-24, 1895, was greater than flood of 1890, as described in the newspaper, Healdsburg Enterprise.

Remarks.--Peaks regulated by Lake Mendocino (capacity, 122,500 acre-ft) beginning in November 1958. Peaks may be affected by importation of water from Eel River into East Fork Russian River since beginning of record. Only annual peaks are shown prior to Oct. 1, 1943. Base for partial-duration series, 19,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	December 1937	30.8	-	1955	Dec. 6, 1954	9.65	10,400
1940	Feb. 28, 1940	30.0	67,000	1956	Dec. 20, 1955	21.78	45,100
					Dec. 22, 1955	26.16	65,400
1941	Feb. 11, 1941	20.05	32,800		Jan. 7, 1956	16.10	25,800
1942	Feb. 6, 1942	22.96	43,200		Jan. 15, 1956	17.90	36,000
1943	Jan. 21, 1943	25.45	53,300		Feb. 22, 1956	21.07	47,900
1944	Mar. 4, 1944	15.23	19,400	1957	Feb. 24, 1957	16.75	32,600
1945	Feb. 5, 1945	13.97	19,200	1958	Feb. 4, 1958	14.90	24,300
					Feb. 12, 1958	16.20	28,200
1946	Dec. 22, 1945	-	19,400		Feb. 19, 1958	15.11	24,900
	Dec. 28, 1945	21.05	41,800		Feb. 25, 1958	22.35	50,900
					Apr. 2, 1958	16.31	28,600
1947	Feb. 12, 1947	13.81	19,300	1959	Jan. 9, 1959	14.07	22,000
1948	Mar. 24, 1948	13.05	18,400		Jan. 12, 1959	13.14	19,400
					Feb. 16, 1959	16.70	29,800
1949	Mar. 11, 1949	15.61	24,400	1960	Feb. 8, 1960	18.53	36,100
1950	Feb. 4, 1950	15.27	23,400	1961	Dec. 1, 1960	14.59	23,500
1951	Dec. 4, 1950	19.5	42,800		Jan. 31, 1961	13.04	19,100
	Jan. 22, 1951	19.5	42,800				
	Feb. 5, 1951	13.56	19,200	1962	Feb. 13, 1962	17.35	32,000
1952	Dec. 1, 1951	14.47	22,100	1963	Oct. 13, 1962	13.88	21,500
	Dec. 27, 1951	17.78	35,100		Feb. 1, 1963	20.10	41,800
	Jan. 15, 1952	14.61	22,600		Mar. 28, 1963	13.11	19,300
	Feb. 2, 1952	15.12	24,500				
				1964	Jan. 21, 1964	14.11	22,100
1953	Dec. 7, 1952	18.85	39,800				
	Jan. 9, 1953	19.10	42,900	1965	Dec. 23, 1964	27.00	71,300
	Jan. 18, 1953	13.95	24,100		Jan. 5, 1965	20.95	45,000
1954	Jan. 17, 1954	22.68	53,700				

4640.5. Dry Creek tributary near Hopland, Calif.

Location.--Lat 38°53'10", long 123°09'15", in sec.13, T.12 N., R.12 W., at culvert on State Highway 128, 6.5 miles southwest of Hopland.

Drainage area.--1.27 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 800 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 28 cfs and extended above on basis of culvert computation at 189 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	8.90	158	1962	Feb. 13, 1962	9.25	185
1960	Feb. 8, 1960	8.11	113	1963	Jan. 31, 1963	9.38	193
				1964	Jan. 20, 1964	7.51	80
1961	Dec. 1, 1960	7.77	94	1965	Dec. 22, 1964	12.80	430

4645. Dry Creek near Cloverdale, Calif.

Location.--Lat 38°44'59", long 123°05'28", in NE¼NE¼ sec.5, T.10 N., R.11 W., on left bank 500 ft downstream from Smith Creek and 5 miles southwest of Cloverdale.

Drainage area.--87.8 sq mi.

Gage.--Recording. Altitude of gage is 320 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 9,400 cfs and extended above on basis of slope-area measurement at 17,600 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Only annual peak is shown for 1938. Base for partial-duration series, 3,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	December 1937	18	-	1953	Dec. 6, 1952	13.63	11,300
					Dec. 26, 1952	8.25	4,570
1942	Dec. 16, 1941	8.46	5,020		Jan. 9, 1953	9.68	6,920
	Jan. 23, 1942	9.60	6,280				
	Feb. 5, 1942	10.02	6,780	1954	Jan. 17, 1954	14.68	12,800
					Jan. 23, 1954	7.78	3,990
1943	Jan. 21, 1943	16.65	15,600				
				1955	Dec. 2, 1954	6.41	2,410
1944	Mar. 4, 1944	8.20	4,660				
				1956	Dec. 18, 1955	14.43	12,100
1945	Feb. 1, 1945	-	3,340		Dec. 22, 1955	17.80	17,600
	Feb. 5, 1945	7.83	4,160		Jan. 15, 1956	8.64	4,270
					Feb. 21, 1956	11.00	7,200
1946	Dec. 4, 1945	-	6,050				
	Dec. 27, 1945	12.15	9,400	1957	Feb. 24, 1957	9.92	5,800
1947	Feb. 11, 1947	7.68	3,980	1958	Feb. 3, 1958	8.15	4,200
					Feb. 9, 1958	8.26	4,310
1948	Jan. 7, 1948	6.71	2,880		Feb. 12, 1958	11.52	7,880
					Feb. 18, 1958	9.72	5,560
1949	Mar. 11, 1949	7.63	4,170		Feb. 24, 1958	16.56	15,500
					Mar. 29, 1958	8.70	4,240
1950	Feb. 3, 1950	7.81	4,370		Apr. 2, 1958	11.03	7,240
	Feb. 5, 1950	-	3,600				
				1959	Jan. 8, 1959	11.49	7,840
1951	Dec. 3, 1950	15.0	13,200		Jan. 12, 1959	9.15	4,800
	Jan. 21, 1951	10.60	7,480		Feb. 16, 1959	13.49	10,600
	Feb. 4, 1951	6.82	3,320				
				1960	Feb. 8, 1960	14.50	12,200
1952	Dec. 1, 1951	11.41	8,450				
	Dec. 3, 1951	8.89	5,750	1961	Dec. 1, 1960	9.92	5,800
	Dec. 26, 1951	8.95	5,830		Jan. 31, 1961	9.84	5,710
	Jan. 14, 1952	8.15	4,780				
	Feb. 1, 1952	8.32	4,980	1962	Jan. 13, 1962	15.66	14,100

Peak stages and discharges of Dry Creek near Cloverdale, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1963	Oct. 12, 1962	10.13	5,480	1965	Dec. 22, 1964	18.09	18,100
	Jan. 31, 1963	17.91	17,700		Jan. 5, 1965	14.32	11,900
	Mar. 27, 1963	9.19	4,250				
1964	Jan. 20, 1964	9.55	4,720				

4650.5. Dutcher Creek near Asti, Calif.

Location.--Lat 38°43'20", long 122°58'35", in Tzabaco Grant, at culvert on Dutcher Creek road, 3 miles south of Asti.

Drainage area.--2.24 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 240 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 75 cfs and extended above on basis of culvert computation at 381 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1959	Feb. 16, 1959	9.46	381	1962	Feb. 13, 1962	8.90	325
1960	Feb. 8, 1960	7.13	165	1963	Jan. 31, 1963	8.14	250
				1964	Jan. 20, 1964	6.02	84
1961	Jan. 31, 1961	7.15	167	1965	Dec. 22, 1964	9.04	335

4654.5. Mark West Creek at Mark West Springs, Calif.

Location.--Lat 38°33'00", long 122°43'10", in SW¼ sec.11, T.8 N., R.8 W., 0.8 mile downstream from Porter Creek near Mark West Springs.

Drainage area.--30.4 sq mi.

Gage.--Crest-stage gage. Altitude of gage is 440 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 350 cfs and extended above on basis of slope-area measurement at 4,040 cfs.

Remarks.--Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Feb. 24, 1958	13.92	4,040	1961	Jan. 31, 1961	11.97	2,200
1959	Feb. 16, 1959	13.65	3,750	1962	Feb. 13, 1962	14.25	4,400
1960	Feb. 8, 1960	20.34	13,500				

4670. Russian River near Guerneville, Calif.
(Prior to October 1945, published as "at Guerneville")

Location.--Lat 38°30'00", long 122°56'05", in NE¼ sec.35, T.8 N., R.10 W., on left bank 0.6 mile downstream from Hobson Creek and 3.4 miles east of Guerneville.

Drainage area.--1,340 sq mi.

Gage.--Nonrecording at site 5.3 miles downstream at different datum prior to Oct. 1, 1954; recording thereafter. Altitude of gage is 30 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 82,400 cfs prior to Oct. 1, 1954; below 68,000 cfs thereafter.

Bankfull stage.--11 ft.

Remarks.--Peaks regulated by Lake Mendocino (capacity, 122,500 acre-ft) beginning in November 1958. Peaks are affected by importation of water from Eel River through Potter Valley powerhouse from beginning of record and by many diversions above station for irrigation and for Wohler pumping plant beginning in May 1959. Peaks prior to the year 1955 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1954. Base for partial-duration series, 23,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1861-2	-	a50	-	1957	Feb. 25, 1957	33.77	45,900
1907	-	ab45	-	1958	Feb. 5, 1958	32.83	41,000
					Feb. 7, 1958	27.04	27,700
1914	-	a42.5	-		Feb. 10, 1958	29.45	32,300
1915	-	a44	-		Feb. 12, 1958	34.45	45,500
					Feb. 19, 1958	34.74	46,300
1937	-	a42.5	-		Feb. 25, 1958	42.95	68,700
					Mar. 22, 1958	26.61	26,900
1940	Feb. 28, 1940	46.87	88,400		Mar. 30, 1958	26.59	26,900
					Apr. 3, 1958	35.59	48,600
1941	Apr. 5, 1941	31.8	48,100		Apr. 6, 1958	28.08	29,700
1942	Feb. 6, 1942	39.0	67,800				
1943	Jan. 22, 1943	39.5	69,200	1959	Jan. 9, 1959	30.65	35,200
1944	Mar. 4, 1944	25.2	32,000		Jan. 12, 1959	26.52	26,500
1945	Feb. 1, 1945	26.7	34,600		Feb. 16, 1959	35.98	48,900
1946	Dec. 28, 1945	35.22	56,800	1960	Feb. 8, 1960	40.80	63,100
1947	Feb. 12, 1947	21.7	23,600		Mar. 7, 1960	26.15	25,800
1948	Mar. 24, 1948	21.6	23,400				
1949	Mar. 12, 1949	29.48	41,400	1961	Dec. 1, 1960	28.73	31,000
1950	Feb. 5, 1950	30.79	44,900		Jan. 31, 1961	29.73	33,100
					Feb. 11, 1961	24.79	23,800
1951	Dec. 4, 1950	34.7	53,600				
1952	Dec. 28, 1951	29.8	41,300	1962	Feb. 9, 1962	25.08	24,300
1953	Jan. 10, 1953	34.15	52,200		Feb. 13, 1962	38.91	57,400
1954	Jan. 17, 1954	38.35	59,900		Mar. 6, 1962	28.61	30,900
1955	Dec. 6, 1954	19.32	13,500	1963	Oct. 13, 1962	28.56	30,800
					Feb. 1, 1963	43.70	71,800
1956	Dec. 20, 1955	42.35	69,400		Mar. 28, 1963	28.87	31,400
	Dec. 23, 1955	49.7	90,100		Apr. 14, 1963	26.03	26,100
	Dec. 26, 1955	30.0	36,800				
	Jan. 8, 1956	34.1	46,700	1964	Jan. 21, 1964	29.88	33,400
	Jan. 15, 1956	37.45	55,700				
	Jan. 26, 1956	24.35	24,100	1965	Dec. 23, 1964	49.6	93,400
	Feb. 22, 1956	42.30	69,200		Jan. 6, 1965	42.35	67,700

a Approximately; stage above normal low water, at site 4 miles upstream from Guerneville.
b Reported to have occurred also about March 1879 and either in 1890 or 1895.

4675. South Fork Gualala River near Annapolis, Calif.

Location.--Lat 38°42'14", long 123°25'13", in German Grant, on left bank 2,700 ft downstream from Wheatfield Fork Gualala River and 3.1 miles southwest of Annapolis, Sonoma County.

Drainage area.--161 sq mi.

Gage.--Recording. Prior to Aug. 30, 1962, at site 1,700 ft upstream at different datum. Altitude of gage is 60 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs and extended above on basis of slope-area measurement at 55,000 cfs prior to Aug. 30, 1962; defined by current-meter measurements below 6,400 cfs and extended on basis of slope-area measurement at 12,000 cfs thereafter.

Remarks.--Base for partial-duration series, 10,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 3, 1950	18.16	34,100	1958	Jan. 29, 1958	12.69	13,700
	Jan. 21, 1951	13.85	19,000		Feb. 12, 1958	15.73	22,300
	Feb. 4, 1951	11.31	12,300		Feb. 19, 1958	12.84	14,100
					Feb. 24, 1958	19.56	35,400
1952	Dec. 1, 1951	17.01	29,500		Mar. 29, 1958	11.34	10,400
	Dec. 3, 1951	16.07	26,200		Apr. 2, 1958	13.11	14,800
	Dec. 26, 1951	14.79	21,900				
	Jan. 14, 1952	10.53	10,500	1959	Jan. 8, 1959	13.37	15,700
	Jan. 24, 1952	10.83	11,100		Jan. 12, 1959	12.15	12,500
	Feb. 1, 1952	13.31	17,400		Feb. 16, 1959	14.71	19,100
	Mar. 14, 1952	10.37	10,100				
				1960	Feb. 8, 1960	19.07	33,700
1953	Dec. 7, 1952	18.10	33,900		Mar. 5, 1960	12.17	11,800
	Dec. 26, 1952	11.37	12,400				
	Jan. 9, 1953	12.64	15,600	1961	Dec. 1, 1960	13.63	15,800
					Jan. 31, 1961	13.68	15,900
1954	Jan. 17, 1954	18.60	35,900		Feb. 11, 1961	11.58	11,000
	Jan. 23, 1954	10.56	10,500				
	Apr. 4, 1954	11.50	12,800	1962	Feb. 9, 1962	11.34	10,400
					Feb. 13, 1962	20.18	37,700
1955	Apr. 21, 1955	10.26	9,870				
				1963	Oct. 12, 1962	12.13	11,800
1956	Dec. 6, 1955	10.48	10,400		Jan. 31, 1963	16.86	23,000
	Dec. 19, 1955	15.96	24,700		Mar. 27, 1963	11.83	11,200
	Dec. 22, 1955	24.57	55,000		Apr. 6, 1963	12.39	12,300
	Jan. 15, 1956	12.35	12,800				
	Feb. 21, 1956	14.28	18,000	1964	Jan. 20, 1964	13.60	15,000
1957	Feb. 23, 1957	10.53	8,760	1965	Dec. 21, 1964	15.94	21,400
					Jan. 5, 1965	15.69	20,800
1958	Oct. 13, 1957	12.38	12,900				

GARCIA RIVER BASIN

4676. Garcia River near Point Arena, Calif.

Location.--Lat 38°55'35", long 123°37'45", in $SW\frac{1}{4}SW\frac{1}{4}$ sec.3, T.12 N., R.16 W., on left bank 0.9 mile downstream from North Fork Garcia River and 3.5 miles northeast of town of Point Arena.

Drainage area.--98.5 sq mi.

Gage.--Crest-stage gage at site 15 ft upstream at different datum during water years 1952-56; recording thereafter. Altitude of gage is 50 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,200 cfs and extended above on basis of slope-area measurement at 26,300 cfs for 1952-56. Defined by current-meter measurements below 3,600 cfs and extended above on basis of slope-area measurement at 23,900 cfs after Aug. 1, 1962.

Remarks.--Only annual peaks are shown for 1952-56. Base for partial-duration series, 5,000 cfs.

Peak stages and discharges of Garcia River near Point Arena, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 26, 1951	18.81	19,400	1963	Jan. 31, 1963	15.11	23,900
1953	Dec. 7, 1952	18.32	17,300		Mar. 27, 1963	9.51	7,190
1954	Jan. 17, 1954	19.7	22,200		Apr. 14, 1963	9.37	6,880
1955	Apr. 21, 1955	13.35	4,970	1964	Jan. 20, 1964	11.46	12,100
1956	Dec. 22, 1955	20.75	26,300	1965	Dec. 21, 1964	15.72	26,100
1963	Oct. 12, 1962	8.82	5,740		Jan. 5, 1965	13.80	19,400

NAVARRO RIVER BASIN

4680. Navarro River near Navarro, Calif.

Location.--Lat 39°10'15", long 123°39'55", in SE¼ sec.7, T.15 N., R.16 W., on left bank 2.7 miles downstream from North Fork, 5.4 miles upstream from mouth, and 6.6 miles west of Navarro.

Drainage area.--303 sq mi.

Gage.--Recording. Altitude of gage is 20 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 19,000 cfs and extended above on basis of slope-area measurement at 64,500 cfs.

Bankfull stage.--20 ft.

Remarks.--Only annual peak is shown in 1938. Base for partial-duration series, 7,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	December 1937	38.2	-	1958	Jan. 29, 1958	18.69	8,990
					Feb. 4, 1958	17.60	8,030
1951	Dec. 3, 1950	28.0	20,200		Feb. 9, 1958	17.99	8,370
	Jan. 21, 1951	28.41	20,700		Feb. 12, 1958	24.78	16,200
	Feb. 4, 1951	17.80	9,320		Feb. 18, 1958	24.83	16,200
					Feb. 24, 1958	34.61	34,100
1952	Dec. 1, 1951	20.95	12,400		Apr. 2, 1958	21.89	12,500
	Dec. 3, 1951	17.69	9,220				
	Dec. 27, 1951	27.27	19,400	1959	Jan. 9, 1959	21.20	11,600
	Jan. 14, 1952	20.36	11,900		Jan. 12, 1959	21.45	11,900
	Feb. 2, 1952	19.69	11,200		Feb. 16, 1959	27.57	19,600
1953	Dec. 7, 1952	26.64	18,700	1960	Feb. 8, 1960	30.98	24,800
	Jan. 9, 1953	26.47	18,500				
	Jan. 18, 1953	23.04	14,700	1961	Dec. 1, 1960	17.33	8,530
					Feb. 11, 1961	18.28	9,510
1954	Jan. 17, 1954	33.42	30,400				
	Jan. 23, 1954	15.86	7,570	1962	Dec. 1, 1961	16.24	7,440
	Feb. 12, 1954	17.56	9,100		Feb. 13, 1962	29.00	22,300
	Apr. 5, 1954	15.60	7,340		Feb. 15, 1962	18.65	9,920
					Mar. 6, 1962	16.05	7,250
1955	Jan. 19, 1955	12.18	4,340				
				1963	Oct. 12, 1962	17.78	8,980
1956	Dec. 19, 1955	32.48	27,900		Jan. 31, 1963	34.34	33,100
	Dec. 22, 1955	40.60	64,500		Mar. 27, 1963	17.42	8,620
	Jan. 7, 1956	17.40	7,760		Apr. 14, 1963	16.50	7,700
	Jan. 15, 1956	27.20	19,100				
	Feb. 21, 1956	28.40	20,800	1964	Jan. 20, 1964	25.80	17,900
1957	Feb. 24, 1957	23.44	14,200	1965	Dec. 22, 1964	38.64	52,100
					Jan. 5, 1965	32.28	28,000
1958	Jan. 26, 1958	17.08	7,560		Apr. 15, 1965	16.20	7,650

4685. Noyo River near Fort Bragg, Calif.

Location.--Lat 39°25'41", long 123°44'10", in SW¼ sec.10, T.18 N., R.17 W., on right bank 0.7 mile downstream from South Fork and 3.5 miles east of Fort Bragg.

Drainage area.--106 sq mi.

Gage.--Recording. Datum of gage is 12.1 ft above mean sea level (planetable survey).

Stage-discharge relation.--Defined by current-meter measurements below 3,600 cfs and extended above to 22,000 cfs on basis of slope-conveyance study.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 2,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 1, 1951	12.55	4,180	1958	Jan. 29, 1958	14.95	4,450
	Dec. 3, 1951	9.83	2,480		Feb. 9, 1958	16.33	5,470
	Dec. 27, 1951	24.56	16,000		Feb. 12, 1958	19.17	8,230
	Jan. 14, 1952	11.55	3,480		Feb. 19, 1958	14.27	4,160
	Feb. 1, 1952	14.68	5,790		Feb. 24, 1958	18.25	7,040
					Apr. 2, 1958	-	5,500
1953	Dec. 7, 1952	17.56	8,260				
	Jan. 9, 1953	15.95	6,810	1959	Jan. 9, 1959	-	(a)
	Jan. 18, 1953	22.05	13,000		Jan. 12, 1959	14.45	4,280
	Jan. 20, 1953	11.55	3,480		Feb. 16, 1959	13.59	3,870
	Mar. 20, 1953	10.42	2,790				
				1960	Feb. 8, 1960	21.75	12,000
1954	Jan. 17, 1954	20.87	11,700		Mar. 5, 1960	13.40	3,780
	Jan. 23, 1954	12.98	4,190				
	Jan. 28, 1954	12.24	3,670	1961	Jan. 31, 1961	-	(a)
					Feb. 11, 1961	-	4,000
1955	Dec. 31, 1954	12.26	3,680				
				1962	Jan. 19, 1962	10.60	2,540
1956	Dec. 6, 1955	13.50	4,600		Feb. 13, 1962	18.60	7,460
	Dec. 19, 1955	17.23	8,450				
	Dec. 22, 1955	25.64	22,000	1963	Dec. 2, 1962	14.15	4,130
	Jan. 7, 1956	11.40	2,540		Jan. 31, 1963	15.83	5,050
	Jan. 15, 1956	20.43	9,700		Apr. 6, 1963	11.19	2,830
	Feb. 21, 1956	17.02	5,920				
				1964	Jan. 20, 1964	17.72	6,570
1957	Mar. 5, 1957	13.24	3,710				
				1965	Dec. 22, 1964	26.30	24,000
1958	Dec. 21, 1957	10.65	2,620		Jan. 6, 1965	11.80	3,070

a Discharge unknown; exceeded base.

MATTOLE RIVER BASIN

4690. Mattole River near Petrolia, Calif.

Location.--Lat 40°18'40", long 124°16'10", in NW¼ sec.11, T.2 S., R.2 W., on right bank 0.2 mile downstream from Clear Creek, 1.2 miles southeast of Petrolia, and 1.3 miles upstream from North Fork.

Drainage area.--242 sq mi.

Gage.--Nonrecording prior to December 1913, and Oct. 1 to Dec. 12, 1950; recording thereafter. Prior to December 1913, at several sites upstream within 0.7 mile of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.7 mile upstream at datum 7.48 ft higher. Altitude of gage is 40 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,600 cfs and extended above on basis of rating for 1952, which is defined to 26,000 cfs, prior to December 1913. Defined by current-meter measurements below 26,000 cfs for period December 1950 to July 1955; below 24,000 cfs and extended above on basis of slope-area measurement at 90,400 cfs thereafter.

Bankfull stage.--32 ft.

Remarks.--Peak for the year 1913 is maximum observed. Only annual peaks are shown prior to Oct. 1, 1950. Base for partial-duration series, 10,000 cfs.

Peak stages and discharges of Mattole River near Petrolia, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Jan. 25, 1912	27.1	48,000	1958	Dec. 28, 1957	12.10	11,100
1913	Nov. 6, 1912	20.2	30,000		Jan. 12, 1958	12.64	11,500
					Jan. 29, 1958	21.85	41,400
1951	Oct. 28, 1950	-	34,000		Feb. 5, 1958	11.62	10,100
	Nov. 16, 1950	-	18,000		Feb. 7, 1958	13.50	14,600
	Dec. 3, 1950	-	18,000		Feb. 9, 1958	12.55	12,200
	Jan. 17, 1951	13.07	17,800		Feb. 12, 1958	20.32	35,600
	Jan. 21, 1951	15.03	22,900		Feb. 15, 1958	17.50	26,000
	Feb. 4, 1951	17.82	30,100		Feb. 18, 1958	16.98	24,400
					Feb. 24, 1958	17.82	27,000
1952	Nov. 28, 1951	10.75	11,800		Apr. 2, 1958	15.50	20,000
	Dec. 1, 1951	19.15	33,600				
	Dec. 4, 1951	11.13	12,700	1959	Jan. 8, 1959	17.18	25,000
	Dec. 27, 1951	12.77	17,000		Jan. 12, 1959	20.97	37,900
	Jan. 10, 1952	10.61	11,400		Jan. 27, 1959	12.85	13,500
	Jan. 14, 1952	10.77	11,800		Feb. 14, 1959	20.85	37,400
	Jan. 20, 1952	10.31	10,700				
	Jan. 24, 1952	11.77	14,400	1960	Feb. 8, 1960	25.34	62,000
	Feb. 1, 1952	17.05	28,100		Mar. 7, 1960	12.40	11,100
					Mar. 30, 1960	13.02	12,500
1953	Dec. 7, 1952	15.53	24,200		May 25, 1960	14.25	15,700
	Dec. 10, 1952	14.59	21,700				
	Dec. 30, 1952	11.62	14,000	1961	Nov. 25, 1960	15.56	19,200
	Jan. 9, 1953	15.19	23,300		Dec. 17, 1960	18.30	28,000
	Jan. 12, 1953	11.49	13,600		Jan. 31, 1961	19.75	33,500
	Jan. 18, 1953	17.13	28,300		Feb. 11, 1961	22.40	46,000
	Mar. 19, 1953	11.24	13,000		Feb. 13, 1961	12.16	11,400
					Mar. 15, 1961	12.33	11,800
1954	Nov. 23, 1953	16.74	27,300				
	Jan. 16, 1954	19.30	34,000	1962	Dec. 20, 1961	12.25	11,600
	Jan. 23, 1954	13.44	18,700		Jan. 19, 1962	12.92	12,900
	Jan. 28, 1954	18.08	30,800		Feb. 9, 1962	13.09	13,300
	Feb. 12, 1954	10.78	11,800		Feb. 13, 1962	15.05	17,800
	Mar. 9, 1954	11.18	12,900				
	Apr. 4, 1954	13.06	17,800	1963	Oct. 12, 1962	14.57	16,700
					Nov. 26, 1962	17.07	23,600
1955	Dec. 31, 1954	10.08	10,000		Dec. 2, 1962	13.90	15,100
	Apr. 20, 1955	12.68	16,800		Dec. 15, 1962	11.90	10,900
					Jan. 31, 1963	18.32	28,000
1956	Dec. 6, 1955	11.19	11,400		Mar. 27, 1963	14.46	16,400
	Dec. 19, 1955	19.93	38,900		Apr. 14, 1963	16.51	21,900
	Dec. 22, 1955	29.60	90,400				
	Dec. 26, 1955	10.23	10,100	1964	Nov. 9, 1963	13.40	14,000
	Jan. 7, 1956	11.20	11,800		Nov. 14, 1963	12.00	11,100
	Jan. 15, 1956	16.57	25,200		Nov. 23, 1963	12.18	11,500
	Feb. 21, 1956	17.40	28,200		Jan. 20, 1964	21.85	43,200
1957	Feb. 24, 1957	15.2	22,300	1965	Nov. 28, 1964	12.89	12,900
	Mar. 12, 1957	11.30	11,900		Dec. 22, 1965	27.86	78,500
	May 18, 1957	12.85	14,600		Jan. 5, 1965	13.30	13,800
					Jan. 23, 1965	11.51	10,100
1958	Nov. 13, 1957	15.94	21,300		Apr. 19, 1965	15.80	19,900
	Dec. 21, 1957	16.75	23,700				

4695. North Fork Mattole River at Petrolia, Calif.

Location.--Lat 40°19'35", long 124°17'35", in NE¼ sec.4, T.2 S., R.2 W., on left bank 0.5 mile west of Petrolia and 0.7 mile upstream from mouth.

Drainage area.--37.6 sq mi.

Gage.--Recording. Prior to Oct. 6, 1953, at site 200 ft downstream at same datum. Altitude of gage is 50 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 3,800 cfs.

Remarks.--Base for partial-duration series, 1,700 cfs.

Peak stages and discharges of North Fork Mattole River at Petrolia, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Nov. 11, 1951	7.76	3,580	1955	Nov. 15, 1954	8.13	1,990
	Dec. 1, 1951	8.25	4,950		Dec. 5, 1954	7.90	1,760
	Dec. 4, 1951	6.87	1,760		Dec. 9, 1954	7.90	1,760
	Dec. 26, 1951	7.70	3,420		Dec. 30, 1954	9.60	5,760
	Jan. 10, 1952	7.32	2,570		Apr. 20, 1955	8.14	3,180
	Jan. 13, 1952	7.61	3,210				
	Jan. 20, 1952	6.90	1,810	1956	Nov. 19, 1955	7.65	2,220
	Feb. 1, 1952	7.98	4,150		Dec. 6, 1955	7.80	2,500
	Feb. 16, 1952	6.92	1,840		Dec. 19, 1955	9.19	5,540
					Dec. 21, 1955	10.60	9,600
1953	Dec. 6, 1952	7.34	2,260		Dec. 26, 1955	8.53	3,780
	Dec. 10, 1952	8.06	3,560		Jan. 4, 1956	8.28	3,170
	Jan. 9, 1953	7.67	2,800		Jan. 6, 1956	9.00	5,000
	Jan. 17, 1953	8.63	4,950		Jan. 12, 1956	8.15	2,860
					Jan. 15, 1956	9.70	6,860
1954	Nov. 23, 1953	8.60	5,140		Jan. 22, 1956	7.95	2,390
	Jan. 16, 1954	7.82	2,860		Feb. 21, 1956	9.40	6,040
	Jan. 22, 1954	7.80	2,500				
	Jan. 27, 1954	9.00	5,080	1957	Oct. 26, 1956	7.45	1,850
	Feb. 12, 1954	8.46	3,370		Jan. 19, 1957	8.85	2,510
	Feb. 17, 1954	8.42	2,440		Feb. 23, 1957	8.70	2,650
	Mar. 9, 1954	8.20	2,440		Feb. 26, 1957	8.67	2,040
	Apr. 4, 1954	8.00	1,940		May. 17, 1957	8.69	2,090

EEL RIVER BASIN

4715. Eel River at Van Arsdale Dam, near Potter Valley, Calif.
(Published as South Eel River prior to October 1929)

Location.--Lat 39°23'25", long 123°06'55", in NE¼ sec.30, T.18 N., R.11 W., on left bank 500 ft downstream from Van Arsdale Dam and 5 miles north of town of Potter Valley.

Drainage area.--349 sq mi.

Gage.--Recording prior to Mar. 3, 1927, and after Feb. 28, 1937; nonrecording Oct. 1, 1927, to Feb. 28, 1937. Prior to Mar. 3, 1927, at reservoir 800 ft upstream from Van Arsdale Dam at different datum. Altitude of gage is 1,400 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 7,000 cfs prior to Mar. 3, 1927. Defined by current-meter measurements below 16,000 cfs and extended above on basis of computed flow over Van Arsdale Dam thereafter. Subject to changes owing to flashboards being added to dam crest at times.

Bankfull stage.--Not subject to overflow.

Remarks.--Water-stage-recorder graph and some discharge measurements furnished by Pacific Gas and Electric Co. Peaks regulated by Lake Pillsbury (usable capacity, 86,400 acre-ft) beginning in December 1921. Peaks are affected by diversion from Van Arsdale Reservoir through tunnel to Potter Valley powerhouse (capacity, about 350 cfs) since at least 1910. Peaks for the years 1910-23, 1925-27 and 1936 are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Jan. 24, 1910	4.33	9,220	1923	Apr. 8, 1923	5.43	2,060
1911	Jan. 19, 1911	5.83	14,100	1925	Feb. 11, 1925	7.80	17,800
1912	Jan. 25, 1912	4.58	9,940				
1913	Jan. 18, 1913	6.33	15,900	1926	Apr. 8, 1926	7.53	8,060
1914	Dec. 31, 1913	11.60	38,000	1927	Feb. 21, 1927	8.1	22,800
1915	Feb.1,2, 1915	10.10	31,500	1928	Mar. 26, 1928	27.0	40,000
				1929	Feb. 4, 1929	6.85	830
1916	Jan. 23, 1916	8.05	22,300	1930	Mar. 5, 1930	11.8	5,720
1917	Feb. 24, 1917	11.60	39,700				
1918	Feb. 6, 1918	5.00	11,300	1931	Jan. 23, 1931	7.25	1,020
1919	Feb. 9, 1919	6.90	18,000	1932	Dec. 26, 1931	11.4	5,160
1920	Apr. 15, 1920	7.0	6,800	1933	Mar. 17, 1933	11.0	3,420
				1934	Dec. 30, 1933	12.20	4,600
1921	Nov. 18, 1920	6.7	15,600	1935	Apr. 8, 1935	14.80	7,960
1922	Feb. 19, 1922	3.90	2,810				

Peak stages and discharges of Eel River at Van Arsdale Dam, near Potter Valley, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Jan. 15, 1936	20.6	17,300	1951	Jan. 22, 1951	20.0	19,700
1937	Mar. 12, 1937	11.86	4,360	1952	Feb. 1, 1952	21.67	26,100
1938	Dec. 11, 1937	30.9	44,100	1953	Jan. 9, 1953	22.80	29,100
1939	Mar. 13, 1939	10.90	3,200	1954	Apr. 5, 1954	16.25	13,400
1940	Feb. 28, 1940	26.6	37,700	1955	Apr. 26, 1955	7.80	1,000
1941	Apr. 4, 1941	20.35	21,700	1956	Dec. 22, 1955	31.4	48,600
1942	Feb. 6, 1942	20.80	22,700	1957	Feb. 25, 1957	16.35	12,600
1943	Jan. 21, 1943	23.6	31,600	1958	Feb. 24, 1958	21.75	25,200
1944	Mar. 4, 1944	13.55	7,320	1959	Feb. 16, 1959	14.25	9,300
1945	Feb. 3, 1945	13.86	6,940	1960	Feb. 8, 1960	22.30	29,700
1946	Dec. 27, 1945	19.50	18,600	1961	Jan. 31, 1961	13.78	9,000
1947	Mar. 10, 1947	14.88	9,120	1962	Feb. 13, 1962	15.95	11,000
1948	Apr. 15, 1948	13.71	7,080	1963	Jan. 31, 1963	24.10	27,900
1949	Mar. 19, 1949	13.33	6,470	1964	Jan. 20, 1964	11.70	4,710
1950	Feb. 6, 1950	13.92	7,430	1965	Dec. 22, 1964	33.9	64,100

4722. Outlet Creek near Longvale, Calif.

Location.--Lat 39°37'05", long 123°21'20", in NE¼ sec.1, T.20 N., R.14 W., on right bank 0.2 mile downstream from Bloody Run Creek, 0.9 mile upstream from mouth, and 8.2 miles downstream from Longvale.

Drainage area.--161 sq mi.

Gage.--Recording. Altitude of gage is 1,020 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 9,900 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Jan. 20, 1957	11.02	8,330	1961	Dec. 17, 1960	11.08	8,420
	Feb. 24, 1957	12.41	10,500		Jan. 31, 1961	11.64	9,260
	Mar. 4, 1957	9.04	5,600		Feb. 11, 1961	11.09	8,440
	Mar. 12, 1957	8.95	5,490		Mar. 14, 1961	8.67	5,150
	May 18, 1957	8.87	5,390				
				1962	Dec. 1, 1961	8.85	5,370
1958	Oct. 13, 1957	10.85	8,040		Jan. 19, 1962	12.12	9,990
	Nov. 13, 1957	12.11	10,000		Feb. 8, 1962	8.59	5,010
	Dec. 17, 1957	10.37	7,400		Feb. 13, 1962	12.45	10,500
	Dec. 21, 1957	10.78	7,950		Mar. 6, 1962	9.49	6,170
	Jan. 29, 1958	13.80	12,700				
	Feb. 12, 1958	14.32	15,200	1963	Oct. 12, 1962	12.35	10,400
	Feb. 24, 1958	14.13	14,700		Nov. 26, 1962	12.00	9,800
	Apr. 2, 1958	13.32	12,000		Dec. 2, 1962	13.85	12,800
					Jan. 31, 1963	17.03	22,800
1959	Jan. 5, 1959	10.02	6,880		Mar. 27, 1963	9.94	6,770
	Jan. 8, 1959	9.70	6,440		Apr. 6, 1963	9.52	6,210
	Jan. 12, 1959	13.43	12,100				
	Jan. 27, 1959	8.75	5,250	1964	Nov. 23, 1963	10.21	7,140
	Feb. 16, 1959	12.01	9,820		Jan. 20, 1964	14.31	15,200
1960	Feb. 1, 1960	11.58	9,170	1965	Nov. 28, 1964	9.55	5,480
	Feb. 8, 1960	20.27	33,300		Dec. 22, 1964	30.6	77,900
	Mar. 7, 1960	10.85	8,080		Jan. 5, 1965	15.26	17,600
					Jan. 24, 1965	10.56	7,210
1961	Dec. 1, 1960	9.88	6,680				

4725. Eel River above Dos Rios, Calif.

Location.--Lat 39°41'20", long 123°21'30", in SW¼ sec.7, T.21 N., R.13 W., on left bank 1.8 miles upstream from Middle Fork and 2.1 miles south of Dos Rios.

Drainage area.--705 sq mi.

Gage.--Recording. Altitude of gage is 950 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 27,000 cfs, and extended above on basis of slope-area measurement at 123,000 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by Lake Pillsbury (capacity, 86,400 acre-ft) beginning in December 1921. Peaks affected by diversion through Potter Valley powerhouse (capacity, about 350 cfs) since beginning of record. Only annual peaks are shown prior to Oct. 1, 1952. Base for partial-duration series, 14,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Jan. 22, 1951	27.97	51,000	1958	Mar. 30, 1958	16.47	14,500
1952	Dec. 27, 1951	28.40	52,800		Apr. 2, 1958	21.90	28,500
1953	Dec. 7, 1952	25.07	39,300	1959	Jan. 12, 1959	18.25	18,100
	Jan. 7, 1953	17.42	16,700		Feb. 16, 1959	19.65	21,600
	Jan. 9, 1953	28.90	55,000				
	Jan. 14, 1953	18.35	18,800	1960	Feb. 1, 1960	17.45	15,100
	Jan. 18, 1953	20.78	25,200		Feb. 8, 1960	34.75	75,800
	Mar. 19, 1953	16.64	15,000		Mar. 7, 1960	21.80	27,400
	Apr. 27, 1953	19.28	21,100				
				1961	Dec. 1, 1960	-	(a)
1954	Jan. 17, 1954	26.22	43,700		Dec. 17, 1960	18.73	15,900
	Jan. 23, 1954	19.38	21,400		Jan. 31, 1961	20.46	20,100
	Jan. 28, 1954	19.60	22,000		Feb. 11, 1961	21.0	21,500
	Feb. 13, 1954	17.70	17,300				
	Apr. 5, 1954	18.15	18,400	1962	Jan. 19, 1962	18.45	15,300
					Feb. 13, 1962	22.45	25,600
1955	Dec. 5, 1954	14.00	9,800		Mar. 6, 1962	18.50	15,400
1956	Dec. 6, 1955	18.63	19,500	1963	Oct. 12, 1962	19.87	18,600
	Dec. 19, 1955	23.97	34,700		Dec. 2, 1962	21.3	22,300
	Dec. 22, 1955	45.4	123,000		Jan. 31, 1963	32.40	59,600
	Jan. 15, 1956	27.63	47,500		Mar. 28, 1963	18.70	15,800
					Apr. 6, 1963	20.87	21,200
1957	Feb. 25, 1957	21.70	27,100		Apr. 14, 1963	19.27	17,100
1958	Oct. 13, 1957	16.63	14,900	1964	Jan. 20, 1964	23.25	27,800
	Nov. 13, 1957	16.40	14,400				
	Jan. 29, 1958	20.65	24,600	1965	Dec. 22, 1964	55.4	184,000
	Feb. 9, 1958	19.46	21,000		Jan. 6, 1965	-	45,000
	Feb. 12, 1958	25.75	40,300		Jan. 24, 1965	-	24,000
	Feb. 24, 1958	28.10	49,400		Apr. 16, 1965	-	17,000

a Discharge unknown; exceeded base.

4729. Black Butte River near Covelo, Calif.

Location.--Lat 39°49'10", long 123°04'40", in SE¼ sec.28, T.23 N., R.11 W., on right bank 600 ft upstream from highway bridge, 0.6 mile upstream from mouth, and 9.5 miles east of Covelo.

Drainage area.--162 sq mi.

Gage.--Nonrecording at site 0.1 mile downstream at different datum prior to Sept. 30, 1957; recording thereafter. Altitude of gage is 1,490 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,400 cfs and extended above on basis of slope-area measurement at 25,000 cfs prior to Oct. 1, 1957; defined below 4,200 cfs thereafter.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1959. Base for partial-duration series, 5,500 cfs.

Peak stages and discharges of Black Butte River near Covelo, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Dec. 11, 1937	36.2	26,000	1962	Feb. 13, 1962	10.35	3,900
1954	Jan. 17, 1954	-	12,100	1963	Oct. 12, 1962	14.48	9,020
1955	Dec. 31, 1954	-	3,730		Dec. 2, 1962	14.10	8,450
					Jan. 31, 1963	17.77	14,900
1956	Dec. 21, 1955	a21.0	25,000		Mar. 27, 1963	12.80	6,660
1957	Feb. 25, 1957	-	8,700	1964	Jan. 20, 1964	12.93	6,820
1959	Jan. 12, 1959	12.85	6,720	1965	Dec. 22, 1964	26.4	29,000
1960	Feb. 8, 1960	18.50	16,400		Jan. 5, 1965	-	7,000
	Mar. 7, 1960	12.30	6,060				
1961	Jan. 31, 1961	10.41	3,950				

a Adjusted to present datum.

4730. Middle Fork Eel River below Black Butte River near Covelo, Calif.

Location.--Lat 39°49'35", long 123°05'30", in NW¼ sec.28, T.23 N., R.11 W., on right bank 0.2 mile downstream from Black Butte River and 8.6 miles east of Covelo.

Drainage area.--367 sq mi.

Gage.--Recording. Altitude of gage is 1,430 ft (from river-profile map).

Stage-discharge relation.--Defined by current-meter measurements below 19,000 cfs, and extended above on basis of slope-area measurement at 89,100 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 10,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 1, 1951	13.28	21,400	1958	Dec. 28, 1957	12.09	14,000
	Dec. 27, 1951	15.22	31,300		Jan. 29, 1958	15.12	30,100
	Feb. 1, 1952	15.28	31,700		Feb. 12, 1958	14.67	27,400
					Feb. 14, 1958	12.65	16,200
1953	Jan. 9, 1953	16.85	41,100		Feb. 18, 1958	13.65	21,400
	Jan. 12, 1953	12.82	19,200		Feb. 24, 1958	17.63	44,900
	Jan. 17, 1953	13.86	24,300				
	Jan. 20, 1953	12.07	15,800	1959	Jan. 8, 1959	11.42	11,400
	Apr. 27, 1953	11.93	15,200		Jan. 12, 1959	15.12	30,100
1954	Jan. 17, 1954	15.69	34,000	1960	Feb. 1, 1960	11.33	11,000
	Jan. 23, 1954	12.46	17,600		Feb. 8, 1960	21.33	67,100
	Jan. 28, 1954	12.83	19,200		Mar. 7, 1960	13.28	19,200
	Feb. 12, 1954	12.90	19,600				
	Mar. 9, 1954	12.29	16,800	1961	Dec. 17, 1960	11.05	10,200
	Apr. 4, 1954	11.40	13,000		Jan. 31, 1961	12.14	13,900
1955	Dec. 31, 1954	10.77	10,600	1962	Feb. 13, 1962	10.69	9,190
1956	Dec. 6, 1955	11.50	13,400	1963	Oct. 12, 1962	15.55	32,400
	Dec. 19, 1955	17.54	45,200		Nov. 26, 1962	11.07	10,200
	Dec. 21, 1955	25.0	89,100		Dec. 2, 1962	15.08	29,600
	Jan. 15, 1956	18.15	48,000		Jan. 31, 1963	20.24	60,500
	Jan. 22, 1956	12.08	13,600		Mar. 27, 1963	12.42	13,400
	Feb. 21, 1956	14.55	26,400		Apr. 6, 1963	13.27	19,200
					Apr. 14, 1963	12.12	13,800
1957	Feb. 24, 1957	16.18	36,200	1964	Jan. 20, 1964	13.53	20,500
1958	Oct. 13, 1957	11.92	13,400				
	Nov. 13, 1957	14.90	28,800	1965	Dec. 22, 1964	31.7	132,000
	Dec. 21, 1957	11.92	13,400		Jan. 5, 1965	-	30,000

4735. Middle Fork Eel River near Covelo, Calif
(Published as Middle Eel River prior to 1919)

Location.--Lat 39°48'35", long 123°08'15", in E½ sec.36, T.23 N., R.12 W., a quarter of a mile west of old Covelo ranger station, half a mile downstream from Williams Creek, and 6 miles east of Covelo.

Drainage area.--406 sq mi (revised).

Gage.--Nonrecording. Altitude of gage is 1,360 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6,000 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks for the years 1915-18, 1920-22 are maximum observed. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Jan. 25, 1912	20.5	17,000	1918	Feb. 6, 1918	17.0	10,000
1913	Nov. 6, 1912	22.0	20,100				
1914	Dec. 31, 1913	(a)	45,000	1920	Apr. 15, 1920	16.1	8,280
1915	Feb. 1, 1915	25.0	26,200				
				1921	Nov. 18, 1920	21.3	18,600
1916	Feb. 10, 1916	18.7	13,400	1922	Feb. 18, 1922	17.8	11,600
1917	Feb. 24, 1917	23.3	22,800				

a Between 30 and 31 ft.

4736. Short Creek near Covelo, Calif.

Location.--Lat 39°49'50", long 123°10'50", in NE¼ sec.27, T.23 N., R.12 W., on left bank 0.4 mile downstream from unnamed tributary, 0.7 mile upstream from wooden bridge, and 4.5 miles northeast of Covelo.

Drainage area.--15.2 sq mi.

Gage.--Recording. Altitude of gage is 1,480 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 690 cfs and extended above on basis of slope-area measurement at 3,780 cfs.

Remarks.--Records furnished by Bureau of Reclamation. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 21, 1955	10.56	3,780	1962	Feb. 13, 1962	5.92	973
				1963	Jan. 31, 1963	6.99	1,460
1959	Jan. 12, 1959	6.50	1,030	1964	Jan. 20, 1964	5.88	952
1960	Feb. 8, 1960	7.55	1,630	1965	Dec. 22, 1964	9.20	3,600
					Jan. 5, 1965	5.96	1,080
1961	Feb. 11, 1961	5.75	822				

4737. Mill Creek near Covelo, Calif.

Location.--Lat 39°44'45", long 123°10'15", in SW¼ sec.23, T.22 N., R.12 W., on right bank 50 ft upstream from unnamed tributary, 0.65 mile downstream from county road bridge, and 5.2 miles southeast of Covelo.

Drainage area.--96.9 sq mi.

Gage.--Recording. Altitude of gage is 1,280 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 2,300 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Records furnished by Bureau of Reclamation. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1957	Jan. 20, 1957	10.63	3,140	1960	Feb. 1, 1960	11.13	3,490
	Feb. 24, 1957	12.18	4,240		Feb. 8, 1960	15.15	10,000
					Mar. 7, 1960	11.76	5,420
1958	Oct. 13, 1957	11.29	3,600				
	Dec. 17, 1957	11.98	4,050	1961	Dec. 1, 1960	10.77	4,380
	Dec. 21, 1957	11.64	3,830		Jan. 31, 1961	11.33	4,950
	Dec. 28, 1957	11.83	3,960		Feb. 11, 1961	12.11	5,820
	Jan. 12, 1958	11.58	3,790		Mar. 24, 1961	10.60	4,210
	Jan. 24, 1958	11.00	3,410				
	Jan. 29, 1958	13.12	5,060	1962	Feb. 13, 1962	11.94	5,620
	Feb. 3, 1958	10.78	3,260				
	Feb. 9, 1958	13.05	5,000	1963	Jan. 31, 1963	14.50	8,950
	Feb. 12, 1958	14.10	5,930				
	Feb. 18, 1958	12.33	4,360	1964	Jan. 20, 1964	13.60	7,630
	Feb. 24, 1958	14.35	6,150				
	Apr. 2, 1958	12.60	4,600	1965	Dec. 22, 1964	20.97	24,100
					Jan. 5, 1965	14.50	8,960
1959	Jan. 12, 1959	12.55	4,560		Jan. 24, 1965	9.55	3,220
	Feb. 14, 1959	11.48	3,720				
	Feb. 16, 1959	11.90	4,010				

4740. Eel River below Dos Rios, Calif.
(Published as "at Two Rivers" 1912-13)

Location.--Lat 39°44'15", long 123°22'15", in NE¼ sec.25, T.22 N., R.14 W., on left bank 1.1 miles downstream from Burger Creek, 1.7 miles northwest of Dos Rios, and 2.2 miles downstream from Middle Fork.

Drainage area.--1,484 sq mi.

Gage.--Nonrecording prior to Dec. 30, 1913; recording subsequent to Oct. 1, 1951. Prior to Dec. 30, 1913, at bridge 500 ft downstream from Middle Fork at different datum. Altitude of gage is 800 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 120,000 cfs and extended on basis of slope-conveyance study.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks partly regulated by Lake Pillsbury (capacity, 86,400 acre-ft) beginning in December 1921. Peaks are affected by diversion through Potter Valley powerhouse (capacity, about 350 cfs) since beginning of record. Only annual peaks are shown prior to Oct. 1, 1951. Base for partial-duration series, 22,000 cfs.

Peak stages and discharges of Eel River below Dos Rios, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Jan. 25, 1912	33	60,400	1958	Nov. 14, 1957	21.60	47,300
1913	Jan. 18, 1913	37	74,700		Dec. 21, 1957	19.63	36,900
					Jan. 29, 1958	24.85	69,700
1952	Dec. 1, 1951	22.20	48,900		Feb. 12, 1958	28.50	94,800
	Dec. 3, 1951	17.96	30,100		Feb. 15, 1958	21.76	48,400
	Dec. 27, 1951	31.4	117,000		Feb. 18, 1958	23.82	62,600
	Jan. 14, 1952	16.53	24,400		Feb. 24, 1958	31.84	119,000
	Jan. 26, 1952	16.20	23,100		Apr. 2, 1958	22.22	51,600
	Feb. 1, 1952	29.95	106,000				
				1959	Jan. 9, 1959	18.12	30,000
1953	Dec. 7, 1952	25.78	75,500		Jan. 12, 1959	23.25	58,700
	Dec. 10, 1952	17.31	27,500		Feb. 14, 1959	18.96	33,900
	Dec. 27, 1952	16.40	23,900		Feb. 16, 1959	20.67	41,700
	Dec. 30, 1952	17.36	27,700				
	Jan. 7, 1953	18.57	32,600	1960	Feb. 1, 1960	19.38	35,400
	Jan. 9, 1953	32.08	123,000		Feb. 8, 1960	39.60	185,000
	Jan. 12, 1953	20.48	41,200		Mar. 7, 1960	22.40	52,400
	Jan. 18, 1953	23.21	59,300				
	Jan. 20, 1953	21.42	45,400	1961	Dec. 1, 1960	22.36	52,200
	Mar. 19, 1953	17.85	29,700		Dec. 17, 1960	19.08	33,900
	Apr. 27, 1953	19.13	35,100		Jan. 31, 1961	21.22	45,300
					Feb. 2, 1961	17.48	26,700
1954	Jan. 17, 1954	30.60	111,000		Feb. 11, 1961	21.29	45,700
	Jan. 23, 1954	21.60	46,200				
	Jan. 28, 1954	22.89	52,000	1962	Jan. 19, 1962	17.38	26,200
	Feb. 12, 1954	20.59	41,700		Feb. 13, 1962	22.60	53,600
	Mar. 9, 1954	18.39	31,900		Mar. 6, 1962	17.32	25,900
	Apr. 4, 1954	18.23	31,200				
				1963	Oct. 12, 1962	24.15	63,500
1955	Dec. 6, 1954	15.52	20,400		Nov. 26, 1962	17.75	27,900
					Dec. 2, 1962	24.18	63,700
1956	Dec. 6, 1955	19.15	36,800		Jan. 31, 1963	36.60	159,000
	Dec. 19, 1955	29.95	106,000		Mar. 27, 1963	20.87	43,300
	Dec. 22, 1955	49.86	283,000		Apr. 6, 1963	22.28	51,700
	Jan. 7, 1956	20.48	41,100		Apr. 14, 1963	19.35	35,200
	Jan. 15, 1956	31.54	118,000				
	Jan. 23, 1956	17.60	27,200	1964	Nov. 23, 1963	18.51	31,300
	Feb. 21, 1956	31.25	116,000		Jan. 20, 1964	26.13	76,900
1957	Jan. 20, 1957	16.64	23,100	1965	Dec. 22, 1964	62.5	460,000
	Feb. 24, 1957	26.02	76,100		Jan. 5, 1965	29.85	105,000
	Mar. 5, 1957	17.30	25,800		Jan. 24, 1965	22.90	55,400
	May 18, 1957	17.08	24,900		Apr. 16, 1965	20.10	39,000
1958	Oct. 13, 1957	19.45	36,100				

4745. North Fork Eel River near Mina, Calif.

Location.--Lat 39°56'15", long 123°20'45", in SW¼ sec.8, T.24 N., R.13 W., on right bank 1.2 miles upstream from Asbill Creek, 2 miles south of Mina, and 8.8 miles northeast of Nashmead.

Drainage area.--250 sq mi.

Gage.--Nonrecording prior to June 22, 1954; recording thereafter. Prior to June 22, 1954, at bridge 0.2 mile downstream at different datum. Altitude of gage is 1,030 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 11,400 cfs prior to June 22, 1954; defined below 8,000 cfs and extended above on basis of slope-area measurement at 58,400 cfs thereafter.

Historical data.--Flood of December 1937 reached a stage of about 30.7 ft (former site and datum), from information by local residents.

Remarks.--Base for partial-duration series, 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	December 1937	30.7	-	1956	Dec. 6, 1955	14.27	9,370
					Dec. 19, 1955	18.25	22,000
1954	Jan. 17, 1954	25.4	23,200		Dec. 22, 1955	24.00	58,400
					Jan. 7, 1956	13.83	8,490
1955	Dec. 31, 1954	15.34	12,000		Jan. 15, 1956	17.94	20,800

Peak stages and discharges of North Fork Eel River near Mina, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Feb. 21, 1956	19.90	29,800	1960	Mar. 7, 1960	13.70	8,240
1957	Jan. 20, 1957	13.60	8,050	1961	Dec. 1, 1960	15.24	11,700
	Feb. 24, 1957	16.41	15,200		Dec. 17, 1960	14.47	9,810
	Mar. 12, 1957	13.62	8,090		Jan. 31, 1961	16.38	15,100
					Feb. 11, 1961	15.08	11,300
1958	Oct. 13, 1957	13.75	8,470				
	Nov. 13, 1957	16.75	16,600	1962	Jan. 19, 1962	14.50	9,880
	Dec. 18, 1957	14.80	10,500		Feb. 13, 1962	15.18	11,600
	Dec. 21, 1957	16.61	16,100				
	Dec. 28, 1957	13.95	8,860	1963	Oct. 12, 1962	16.63	15,900
	Jan. 29, 1958	17.23	18,100		Nov. 26, 1962	16.50	15,500
	Feb. 12, 1958	16.70	16,400		Dec. 2, 1962	17.18	17,800
	Feb. 14, 1958	13.99	8,940		Jan. 31, 1963	19.25	26,600
	Feb. 18, 1958	15.70	13,200		Mar. 27, 1963	15.68	12,900
	Feb. 24, 1958	17.78	19,900		Apr. 6, 1963	13.62	8,090
					Apr. 14, 1963	13.58	8,020
1959	Jan. 9, 1959	14.52	10,000				
	Jan. 12, 1959	17.92	20,900	1964	Jan. 20, 1964	19.50	27,800
	Feb. 16, 1959	16.60	16,000				
				1965	Dec. 22, 1964	33.6	133,000
1960	Feb. 1, 1960	13.65	8,140		Jan. 5, 1965	-	15,000
	Feb. 8, 1960	22.35	45,600		Jan. 24, 1965	-	14,000

4750. Eel River at Alderpoint, Calif.

Location.--Lat 40°10'35", long 123°36'20", in NW¼ sec.27, T.3 S., R.5 E., on left bank at Alderpoint, 600 ft downstream from Carter Creek and 11.4 miles northeast of Garberville.

Drainage area.--2,079 sq mi.

Gage.--Recording. Altitude of gage is 270 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 110,000 cfs and extended above on basis of slope-area measurement at 376,000 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks regulated by Lake Pillsbury (capacity, 86,400 acre-ft) beginning in December 1921. Peaks affected by diversion through Potter Valley powerhouse (capacity, about 350 cfs) since beginning of record. Base for partial-duration series, 41,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 6, 1955	22.55	49,600	1960	Feb. 1, 1960	22.23	48,700
	Dec. 19, 1955	42.60	128,000		Feb. 8, 1960	55.70	220,000
	Dec. 22, 1955	72.5	376,000		Mar. 7, 1960	25.79	60,800
	Jan. 8, 1956	22.95	50,800				
	Jan. 15, 1956	43.35	132,000	1961	Dec. 1, 1960	27.60	67,100
	Feb. 21, 1956	44.81	141,000		Dec. 17, 1960	23.75	53,600
					Jan. 31, 1961	25.25	58,900
1957	Feb. 24, 1957	36.40	99,600		Feb. 11, 1961	26.46	63,100
1958	Oct. 13, 1957	19.90	41,700	1962	Feb. 13, 1962	27.10	65,400
	Nov. 14, 1957	25.29	59,000				
	Dec. 21, 1957	23.15	51,500	1963	Oct. 13, 1962	29.80	74,800
	Jan. 29, 1958	31.58	81,000		Dec. 3, 1962	30.66	77,800
	Feb. 4, 1958	20.61	43,800		Jan. 31, 1963	52.60	195,000
	Feb. 9, 1958	24.22	55,300		Mar. 28, 1963	25.43	59,500
	Feb. 12, 1958	37.25	103,000		Apr. 6, 1963	25.70	60,400
	Feb. 15, 1958	26.07	61,700		Apr. 15, 1963	21.50	45,800
	Feb. 19, 1958	33.24	87,000				
	Feb. 24, 1958	43.60	134,000	1964	Nov. 23, 1963	20.89	43,700
	Apr. 2, 1958	28.07	68,700		Jan. 20, 1964	36.59	100,000
1959	Jan. 9, 1959	22.13	48,400	1965	Dec. 22, 1964	87.2	561,000
	Jan. 12, 1959	30.06	75,700		Jan. 6, 1965	-	92,000
	Feb. 16, 1959	26.66	63,800				

4755. South Fork Eel River near Branscomb, Calif.

Location.--Lat 39°43'09", long 123°39'06", in NW¼ sec.32, T.22 N., R.16 W., on right bank 0.4 mile upstream from Jack of Hearts Creek and 4.7 miles north of Branscomb.

Drainage area.--43.9 sq mi.

Gage.--Recording. Altitude of gage is 1,380 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,600 cfs and extended on basis of slope-area measurement at 20,100 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Mar. 10, 1947	5.90	2,000	1956	Feb. 12, 1956	8.91	5,210
1948	Oct. 16, 1947	-	2,460	1957	Oct. 30, 1956	5.88	2,070
	Jan. 2, 1948	-	2,610		Jan. 19, 1957	6.45	2,530
	Jan. 7, 1948	8.5	4,200		Feb. 24, 1957	7.40	3,400
					Feb. 26, 1957	6.15	2,290
1949	Dec. 5, 1948	-	2,460		Mar. 12, 1957	6.50	2,570
	Feb. 10, 1949	-	3,100		May 18, 1957	6.73	2,760
	Mar. 18, 1949	7.48	3,230				
				1958	Nov. 13, 1957	9.67	6,360
1950	Jan. 13, 1950	-	3,250		Dec. 21, 1957	8.05	4,180
	Jan. 17, 1950	a11.08	4,180		Dec. 28, 1957	7.47	3,500
	Mar. 19, 1950	-	2,120		Jan. 29, 1958	10.60	7,860
					Feb. 12, 1958	9.38	5,890
1951	Oct. 29, 1950	10.9	3,320		Feb. 24, 1958	7.08	3,050
	Nov. 16, 1950	8.34	2,170		Apr. 2, 1958	7.28	3,280
	Dec. 3, 1950	9.4	2,650				
	Jan. 17, 1951	8.7	4,400	1959	Jan. 8, 1959	6.01	2,130
	Jan. 21, 1951	11.1	8,740		Jan. 12, 1959	9.72	6,410
	Feb. 4, 1951	10.1	7,020		Jan. 27, 1959	6.68	2,710
					Feb. 16, 1959	6.47	2,520
1952	Dec. 1, 1951	7.96	3,760				
	Dec. 27, 1951	10.90	8,380	1960	Feb. 8, 1960	15.30	17,900
	Feb. 1, 1952	8.58	4,320		Mar. 7, 1960	6.88	2,890
1953	Dec. 7, 1952	10.18	7,160	1961	Dec. 17, 1960	7.48	3,480
	Dec. 10, 1952	7.30	3,180		Jan. 31, 1961	7.67	3,690
	Jan. 9, 1953	9.14	5,540		Feb. 11, 1961	6.58	2,630
	Jan. 18, 1953	9.80	6,540				
	Mar. 20, 1953	7.02	2,960	1962	Jan. 19, 1962	8.14	4,220
					Feb. 13, 1962	7.10	3,100
1954	Nov. 23, 1953	7.83	3,650				
	Jan. 17, 1954	10.75	8,120	1963	Oct. 12, 1962	7.87	3,910
	Jan. 23, 1954	7.36	3,230		Nov. 26, 1962	7.18	3,180
	Jan. 28, 1954	7.96	3,760		Dec. 2, 1962	10.14	7,090
	Apr. 4, 1954	6.62	2,640		Jan. 31, 1963	8.03	4,090
					Apr. 6, 1963	7.21	3,210
1955	Dec. 31, 1954	6.20	2,300				
				1964	Nov. 23, 1963	6.02	2,190
1956	Dec. 6, 1955	7.80	3,830		Jan. 20, 1964	10.00	6,860
	Dec. 19, 1955	8.97	5,300				
	Dec. 22, 1955	16.20	20,100	1965	Nov. 28, 1964	6.10	2,250
	Jan. 7, 1956	5.81	2,020		Dec. 22, 1964	16.05	19,700
	Jan. 15, 1956	10.45	7,620		Jan. 6, 1965	6.58	2,630

a Occurred at different time than peak discharge.

4757. Tenmile Creek near Laytonville, Calif.

Location.--Lat 39°45'45", long 123°32'30", in NW¼ sec.16, T.22 N., R.15 W., on right bank 0.1 mile downstream from Step Gulch Creek and 6.0 miles northwest of Laytonville.

Drainage area.--50.3 sq mi.

Gage.--Recording. Altitude of gage is 1,450 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 4,300 cfs, and extended above on basis of slope-area measurement at 16,300 cfs.

Remarks.--Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Dec. 22, 1955	22.9	16,300	1961	Jan. 31, 1961	12.88	5,780
1958	Oct. 13, 1957	12.75	5,650	1962	Feb. 13, 1962	12.12	5,020
	Nov. 13, 1957	13.10	5,990				
	Dec. 21, 1957	12.27	5,160	1963	Oct. 12, 1962	12.23	5,130
	Jan. 29, 1958	14.44	7,330		Nov. 26, 1962	13.45	6,350
	Feb. 12, 1958	14.50	7,390		Dec. 2, 1962	13.36	6,260
	Feb. 24, 1958	14.28	7,170		Jan. 31, 1963	16.63	9,530
	Apr. 2, 1958	12.28	5,170				
				1964	Jan. 20, 1964	13.86	6,760
1959	Jan. 12, 1959	14.75	7,650				
				1965	Dec. 22, 1964	21.3	14,500
1960	Feb. 8, 1960	19.14	12,200				

4765. South Fork Eel River near Miranda, Calif.

Location.--Lat 40°10'55", long 123°46'30", in NW¼ sec.30, T.3 S., R.4 E., on right bank at Sylvandale campgrounds on U.S. Highway 101, 0.5 mile upstream from Rocky Glen Creek, 4.3 miles southeast of Miranda, and 20 miles upstream from mouth.

Drainage area.--537 sq mi.

Gage.--Nonrecording prior to Oct. 31, 1944; recording thereafter. Datum of gage is 217.29 ft above mean sea level (levels by California Division of Highways).

Stage-discharge relation.--Defined by current-meter measurements below 52,000 cfs and extended above on basis of slope-area measurement at 173,000 cfs.

Remarks.--Peaks for the years 1941-43 are maximum observed. Base for partial-duration series, 28,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Jan. 25, 1941	19.2	36,800	1952	Dec. 1, 1951	19.32	37,300
1942	Dec. 18, 1941	26.3	66,000		Dec. 27, 1951	23.56	53,700
1943	Jan. 21, 1943	26.95	69,200		Feb. 1, 1952	23.08	51,800
1944	Mar. 4, 1944	12.4	15,400				
1945	Feb. 3, 1945	15.10	23,000	1953	Dec. 7, 1952	23.03	51,600
					Jan. 9, 1953	22.01	47,500
1946	Dec. 27, 1945	27.73	73,200		Jan. 18, 1953	21.57	45,800
	Dec. 29, 1945	-	50,900				
				1954	Nov. 23, 1953	17.35	30,300
1947	Mar. 3, 1947	15.30	23,700		Jan. 17, 1954	26.27	65,800
					Jan. 23, 1954	17.34	30,300
1948	Jan. 7, 1948	18.90	35,700		Jan. 28, 1954	22.37	49,000
1949	Mar. 18, 1949	20.60	42,000	1955	Dec. 31, 1954	12.21	16,000
1950	Jan. 18, 1950	19.57	38,200	1956	Dec. 19, 1955	23.06	53,800
					Dec. 22, 1955	42.7	173,000
1951	Oct. 28, 1950	18.7	35,000		Jan. 15, 1956	23.45	56,500
	Dec. 3, 1950	16.7	28,100		Feb. 21, 1956	21.75	48,900
	Jan. 18, 1951	17.91	32,200				
	Jan. 21, 1951	24.1	56,000	1957	Feb. 24, 1957	17.60	33,000
	Feb. 4, 1951	23.74	54,500				

Peak stages and discharges of South Fork Eel River near Miranda, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Nov. 14, 1957	-	33,000	1961	Dec. 17, 1960	17.92	34,100
	Dec. 21, 1957	16.95	31,100		Jan. 31, 1961	17.59	33,000
	Jan. 29, 1958	22.33	51,700		Feb. 11, 1961	17.91	34,100
	Feb. 12, 1958	21.44	47,800				
	Feb. 15, 1958	16.33	29,000	1962	Jan. 19, 1962	15.07	25,000
	Feb. 19, 1958	18.53	36,400				
	Feb. 24, 1958	18.30	35,600	1963	Oct. 13, 1962	18.00	33,500
	Apr. 2, 1958	17.96	34,500		Dec. 3, 1962	19.05	37,200
					Jan. 31, 1963	25.20	64,500
1959	Jan. 9, 1959	16.87	30,800				
	Jan. 12, 1959	21.55	48,300	1964	Jan. 20, 1964	24.00	59,000
	Feb. 15, 1959	16.50	29,600				
				1965	Dec. 22, 1964	46.0	199,000
1960	Feb. 8, 1960	34.61	117,000				

4770. Eel River at Scotia, Calif.

Location.--Lat 40°29'30", long 124°05'55", in SW¼ sec.5, T.1 N., R.1 E., near center of span in left pier of bridge on U.S. Highway 101, 0.5 mile north of Scotia and 6 miles upstream from Van Duzen River.

Drainage area.--3,113 sq mi.

Gage.--Nonrecording prior to Dec. 12, 1940; recording thereafter. Datum of gage is 36.15 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 300,000 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Peaks slightly regulated by Lake Pillsbury (capacity, 86,400 acre-ft) beginning in December 1921. Peaks are affected by diversion through Potter Valley powerhouse (capacity, about 350 cfs) beginning prior to 1911. Peaks for the years 1911, 1915, 1918, 1920-26, 1929, 1930 and 1932 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1945. Base for partial-duration series, 72,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Jan. 20, 1911	-	136,000	1941	Dec. 24, 1940	36.4	150,000
1912	Jan. 26, 1912	-	170,000	1942	Feb. 6, 1942	42.2	209,000
1913	Jan. 18, 1913	-	150,000	1943	Jan. 21, 1943	50.75	315,000
1914	Jan. 22, 1914	52.5	309,000	1944	Mar. 4, 1944	24.60	57,800
1915	Feb. 2, 1915	55.5	351,000	1945	Feb. 3, 1945	30.55	99,100
1917	Feb. 25, 1917	51.25	292,000	1946	Dec. 4, 1945	-	103,000
1918	Feb. 7, 1918	27.7	78,600		Dec. 23, 1945	-	98,000
1919	Jan. 17, 1919	38.3	149,000		Dec. 27, 1945	44.60	239,000
1920	Apr. 16, 1920	25.0	62,000		Jan. 5, 1946	-	78,300
1921	Nov. 19, 1920	38.2	148,000	1947	Feb. 12, 1947	29.02	86,100
1922	Feb. 19, 1922	34.50	123,000		Mar. 10, 1947	-	72,100
1923	Dec. 28, 1922	26.9	73,400				
1924	Feb. 8, 1924	26.9	73,400	1948	Jan. 8, 1948	32.6	114,000
1925	Feb. 6, 1925	35.20	127,000				
				1949	Mar. 18, 1949	35.4	140,000
1926	Feb. 4, 1926	42.20	176,000				
1927	Feb. 21, 1927	45.2	221,000	1950	Jan. 18, 1950	32.85	117,000
1928	Mar. 27, 1928	46.3	233,000				
1929	Feb. 4, 1929	21.30	41,000	1951	Oct. 29, 1950	33.33	121,000
1930	Dec. 15, 1929	34.10	120,000		Dec. 4, 1950	37.37	160,000
					Jan. 18, 1951	35.5	141,000
1931	Jan. 23, 1931	29.0	87,000		Jan. 22, 1951	45.39	249,000
1932	Dec. 27, 1931	36.10	127,000		Feb. 5, 1951	40.55	193,000
1933	Mar. 17, 1933	26.10	58,100				
1934	Mar. 29, 1934	24.8	50,900	1952	Dec. 1, 1951	35.4	140,000
1935	Apr. 8, 1935	29.62	79,900		Dec. 27, 1951	46.50	262,000
					Feb. 2, 1952	43.6	223,000
1936	Jan. 16, 1936	44.7	216,000				
1937	Feb. 5, 1937	37.0	134,000	1953	Dec. 7, 1952	39.95	177,000
1938	Dec. 11, 1937	55.1	345,000		Jan. 9, 1953	42.98	215,000
1939	Dec. 3, 1938	35.90	133,000		Jan. 18, 1953	37.36	151,000
1940	Feb. 28, 1940	52.25	305,000		Mar. 20, 1953	30.20	94,400

Peak stages and discharges of Eel River at Scotia, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 17, 1954	45.20	245,000	1959	Jan. 9, 1959	29.59	102,000
	Jan. 23, 1954	32.10	109,000		Jan. 12, 1959	34.58	145,000
	Jan. 28, 1954	39.18	169,000		Feb. 15, 1959	30.55	110,000
	Feb. 13, 1954	30.35	96,400				
	Apr. 6, 1954	28.00	80,000	1960	Feb. 8, 1960	51.45	343,000
					Mar. 8, 1960	27.16	83,300
1955	Dec. 31, 1954	23.29	52,400				
				1961	Dec. 1, 1960	28.23	90,000
1956	Dec. 6, 1955	27.65	77,800		Dec. 17, 1960	28.90	94,400
	Dec. 20, 1955	43.15	217,000		Jan. 31, 1961	29.42	97,900
	Dec. 22, 1955	61.90	541,000		Feb. 11, 1961	31.45	113,000
	Jan. 7, 1956	27.75	82,500				
	Jan. 16, 1956	42.20	205,000	1962	Feb. 14, 1962	29.92	107,000
	Feb. 22, 1956	43.45	221,000		Feb. 16, 1962	27.10	84,800
1957	Feb. 25, 1957	36.11	153,000	1963	Oct. 13, 1962	32.48	128,000
					Dec. 3, 1962	32.89	132,000
1958	Nov. 14, 1957	29.45	98,200		Feb. 1, 1963	47.00	252,000
	Dec. 22, 1957	28.53	91,900		Mar. 28, 1963	28.55	90,800
	Jan. 30, 1958	35.30	145,000		Apr. 6, 1963	28.12	87,800
	Feb. 10, 1958	27.34	84,400		Apr. 15, 1963	26.50	76,800
	Feb. 12, 1958	38.16	174,000				
	Feb. 15, 1958	31.64	118,000	1964	Jan. 21, 1964	39.40	178,000
	Feb. 19, 1958	36.27	161,000				
	Feb. 25, 1958	40.35	202,000	1965	Dec. 23, 1964	72.0	752,000
	Apr. 3, 1958	32.23	124,000		Jan. 6, 1965	36.04	148,000

4775. Van Duzen River near Dinsmores, Calif.

Location.--Lat 40°29'05", long 123°39'25", in NW¼ sec.7, T.1 N., R.5 E., on right bank 10 ft upstream from private road bridge, 0.3 mile upstream from South Fork, and 2.8 miles west of Dinsmores.

Drainage area.--85.1 sq mi. At site August 1953 to September 1958, 81.7 sq mi.

Gage.--Recording. Datum of gage is 1,996.58 ft above mean sea level, datum of 1929, supplementary adjustment of 1956. Prior to Oct. 1, 1958, at site 1.7 miles upstream at different datum.

Stage-discharge relation.--Defined by current-meter measurements below 13,000 cfs.

Remarks.--Base for partial-duration series, 3,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Nov. 23, 1953	7.86	4,620	1957	May 18, 1957	7.48	4,310
	Jan. 16, 1954	14.60	14,000				
	Jan. 23, 1954	10.76	8,290	1958	Nov. 13, 1957	11.50	9,100
	Jan. 28, 1954	11.06	8,710		Dec. 17, 1957	7.70	4,260
	Feb. 12, 1954	10.91	8,500		Dec. 21, 1957	10.30	7,470
	Mar. 9, 1954	8.15	4,940		Dec. 28, 1957	7.98	4,550
	Apr. 4, 1954	8.49	5,330		Jan. 29, 1958	14.22	13,000
					Feb. 7, 1958	7.05	3,600
1955	Dec. 6, 1954	6.92	3,620		Feb. 12, 1958	10.43	7,640
	Dec. 31, 1954	8.08	4,860		Feb. 16, 1958	10.29	7,450
					Feb. 18, 1958	10.25	7,400
1956	Nov. 19, 1955	8.15	4,940		Feb. 24, 1958	11.61	9,250
	Dec. 6, 1955	6.95	3,650				
	Dec. 19, 1955	13.63	12,100	1964	Nov. 14, 1963	9.85	4,290
	Dec. 22, 1955	19.25	21,400		Nov. 23, 1963	9.56	3,910
	Jan. 4, 1956	7.87	4,670		Jan. 20, 1964	15.0	13,200
	Jan. 15, 1956	11.67	9,340				
	Feb. 21, 1956	-	13,000	1965	Dec. 22, 1964	22.5	27,000
					Jan. 6, 1965	-	8,200
1957	Oct. 30, 1956	7.80	4,600		Jan. 23, 1965	-	8,000
	Feb. 24, 1957	11.05	8,470		Apr. 18, 1965	-	6,600

4777. South Fork Van Duzen River near Bridgeville, Calif.

Location.--Lat 40°26'40", long 123°39'15", in SE¼ sec.19, T.1 N., R.5 E., on right bank 0.2 mile upstream from Butte Creek, 3 miles upstream from mouth, and 7.8 miles east of Bridgeville.

Drainage area.--36.2 sq mi.

Gage.--Crest-stage gage prior to Aug. 31, 1957; recording thereafter. Prior to Aug. 31, 1957, at site 0.1 mile upstream at different datum. Altitude of gage is 2,350 ft (from topographic map).

Stage-discharge relation.--Peak of 1956 by slope-area measurement at 8,990 cfs. Defined by current-meter measurements below 2,900 cfs subsequent to September 1958.

Remarks.--Only annual peaks are shown prior to 1959. Base for partial-duration series, 2,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Jan. 16, 1954	-	-	1961	Feb. 10, 1961	10.55	3,500
1955	Dec. 31, 1954	-	3,200	1962	Feb. 13, 1962	9.09	2,220
1956	Dec. 22, 1955	11.91	8,990	1963	Oct. 12, 1962	11.52	4,420
1957	Feb. 24, 1957	-	4,400		Nov. 26, 1962	11.62	4,520
1959	Jan. 9, 1959	10.65	3,980		Dec. 2, 1962	11.54	4,440
	Jan. 12, 1959	13.37	6,570		Jan. 31, 1963	12.20	5,120
	Jan. 27, 1959	9.42	3,050				
	Feb. 16, 1959	9.92	3,340	1964	Jan. 20, 1964	13.63	6,760
1960	Feb. 8, 1960	14.00	7,200	1965	Dec. 22, 1964	18.70	13,600
					Jan. 5, 1965	10.98	3,880
1961	Nov. 25, 1960	10.02	3,020		Jan. 23, 1965	11.07	3,970
	Dec. 17, 1960	10.02	3,020		Apr. 18, 1965	10.32	3,290
	Jan. 31, 1961	10.23	3,210				

4780. Van Duzen River at Bridgeville, Calif.

Location.--Lat 40°28'05", long 123°47'55", in NW¼ sec.13, T.1 N., R.3 E., at highway bridge at Bridgeville, 1 mile downstream from Little Larrabee Creek.

Drainage area.--202 sq mi.

Gage.--Nonrecording. Prior to December 1939, at datum 0.32 ft higher. Datum of gage is 590.66 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs.

Remarks.--Only annual peaks are shown prior to Oct. 1, 1948. Base for partial-duration series, 8,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Jan. 25, 1912	26.0	22,000	1949	Feb. 22, 1949	20.0	13,400
1913	Nov. 6, 1912	21.0	14,300		Mar. 18, 1949	-	12,900
1940	Feb. 28, 1940	23.9	19,000	1950	Jan. 17, 1950	21.00	14,800
					Mar. 17, 1950	-	11,800
1941	Dec. 24, 1940	21.8	15,900				
1942	Dec. 18, 1941	24.0	19,200	1951	Oct. 28, 1950	23.6	18,600
1943	Jan. 21, 1943	25.5	21,600		Nov. 16, 1950	17.8	10,600
1944	Jan. 5, 1944	14.75	7,130		Dec. 3, 1950	18.0	10,800
1945	Feb. 2, 1945	17.4	10,100		Dec. 14, 1950	16.2	8,670
					Jan. 17, 1951	17.8	10,600
1946	Dec. 27, 1945	20.25	13,800		Jan. 21, 1951	22.55	17,000
1947	Feb. 12, 1947	19.0	12,100		Feb. 4, 1951	20.6	14,200
1948	Jan. 7, 1948	21.9	16,100				

4785. Van Duzen River near Bridgeville, Calif.

Location.--Lat 40°27'50", long 123°51'25", in E½ sec.17, T.1 N., R.3 E., on downstream side of right pier of bridge on State Highway 36, 0.3 mile downstream from Pip Creek, 0.5 mile upstream from Rogers Creek, and 4 miles west of Bridgeville.

Drainage area.--216 sq mi.

Gage.--Recording. Altitude of gage is 400 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 15,000 cfs and extended above on basis of slope-area measurement at 43,500 cfs.

Bankfull stage.--22 ft.

Remarks.--Base for partial-duration series, 9,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Oct. 28, 1950	-	20,000	1958	Nov. 13, 1957	14.69	18,700
	Nov. 16, 1950	-	12,000		Dec. 17, 1957	11.50	11,000
	Dec. 3, 1950	13.20	12,400		Dec. 21, 1957	13.16	14,800
	Dec. 14, 1950	11.45	9,210		Dec. 28, 1957	10.66	9,240
	Jan. 17, 1951	12.89	11,800		Jan. 29, 1958	15.45	22,600
	Jan. 21, 1951	16.10	18,000		Feb. 12, 1958	12.67	14,900
	Feb. 4, 1951	14.45	14,700		Feb. 16, 1958	12.90	15,500
					Feb. 18, 1958	13.12	16,100
1952	Dec. 1, 1951	15.57	16,900		Feb. 24, 1958	14.52	20,000
	Dec. 27, 1951	14.75	15,300				
	Feb. 1, 1952	16.84	19,500	1959	Jan. 9, 1959	14.17	19,000
					Jan. 12, 1959	17.95	31,400
1953	Dec. 7, 1952	15.70	17,200		Jan. 27, 1959	10.83	10,400
	Dec. 10, 1952	14.13	14,100		Feb. 16, 1959	12.85	15,400
	Dec. 30, 1952	12.11	10,400				
	Jan. 9, 1953	16.25	20,000	1960	Feb. 8, 1960	17.60	30,000
	Jan. 17, 1953	17.30	22,300		Mar. 7, 1960	10.84	10,400
	Jan. 20, 1953	12.54	11,900				
				1961	Nov. 25, 1960	12.32	14,100
1954	Nov. 23, 1953	12.16	13,000		Dec. 17, 1960	12.68	15,000
	Jan. 16, 1954	17.23	25,200		Jan. 31, 1961	13.58	17,300
	Jan. 23, 1954	14.34	18,200		Feb. 11, 1961	14.23	19,100
	Jan. 28, 1954	15.83	21,800				
	Feb. 12, 1954	14.40	18,400	1962	Feb. 9, 1962	10.18	9,260
	Mar. 9, 1954	11.20	10,700		Feb. 13, 1962	11.38	11,800
	Apr. 4, 1954	12.50	13,800				
				1963	Oct. 12, 1962	14.33	19,400
1955	Dec. 6, 1954	10.74	9,630		Nov. 26, 1962	14.60	20,200
	Dec. 31, 1954	14.26	20,900		Dec. 2, 1962	14.48	19,800
					Jan. 31, 1963	15.60	23,100
1956	Dec. 6, 1955	11.07	11,000		Mar. 27, 1963	12.39	14,200
	Dec. 19, 1955	17.17	30,200		Mar. 30, 1963	10.74	10,400
	Dec. 22, 1955	21.3	43,500		Apr. 14, 1963	10.76	10,500
	Jan. 4, 1956	11.06	11,000				
	Jan. 7, 1956	10.36	9,290	1964	Nov. 14, 1963	10.97	10,900
	Jan. 15, 1956	14.12	20,500		Nov. 23, 1963	10.27	9,440
	Jan. 22, 1956	10.44	9,480		Jan. 20, 1964	18.10	32,000
	Feb. 21, 1956	17.43	31,100				
	Nov. 19, 1956	12.80	16,300	1965	Nov. 28, 1964	10.28	9,460
					Dec. 10, 1964	10.53	9,970
1957	Oct. 30, 1956	10.50	9,620		Dec. 22, 1964	22.6	48,700
	Feb. 24, 1957	14.16	19,000		Jan. 6, 1965	-	15,000
	Mar. 12, 1957	10.94	9,800		Jan. 24, 1965	-	15,000
	May 18, 1957	10.86	9,640		Apr. 18, 1965	-	12,000

4790. Yager Creek near Carlotta, Calif.

Location.--Lat 40°34'10", long 124°03'10", in SE¼ sec.10, T.2 N., R.1 E., on right bank 0.6 mile upstream from Cooper Mill Creek and 2.3 miles north of Carlotta.

Drainage area.--127 sq mi.

Gage.--Recording. Prior to Dec. 22, 1955, at site 0.2 mile upstream at different datum. Altitude of gage is 190 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 8,200 cfs and extended above on basis of slope-conveyance study at 28,000 cfs prior to Dec. 23, 1955; defined by current-meter measurements below 6,850 cfs thereafter.

Remarks.--Only annual peak is shown for the year 1956. Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Nov. 23, 1953	10.75	9,300	1958	Dec. 17, 1957	11.26	6,210
	Dec. 3, 1953	8.13	4,660		Dec. 21, 1957	12.36	8,000
	Jan. 16, 1954	9.28	6,600		Dec. 28, 1957	11.30	6,270
	Jan. 22, 1954	8.72	5,620		Jan. 12, 1958	9.98	4,170
	Jan. 27, 1954	9.60	7,180		Jan. 29, 1958	12.60	8,260
	Feb. 12, 1954	7.55	4,020		Feb. 7, 1958	9.95	4,130
					Feb. 12, 1958	12.80	8,580
1955	Dec. 31, 1954	13.85	16,400		Feb. 16, 1958	11.65	6,730
					Feb. 18, 1958	11.40	6,330
1956	Dec. 22, 1955	17.4	28,000		Feb. 24, 1958	13.30	9,440
					Apr. 2, 1958	10.93	5,580
1957	Oct. 30, 1956	12.10	7,460				
	Dec. 11, 1956	11.68	6,790	1959	Jan. 8, 1959	11.74	7,200
	Jan. 14, 1957	10.74	5,280		Jan. 12, 1959	13.50	12,300
	Jan. 20, 1957	11.95	7,220		Jan. 27, 1959	12.79	10,500
	Feb. 24, 1957	11.91	7,160		Feb. 14, 1959	14.14	13,900
	Mar. 4, 1957	12.08	7,430		Feb. 18, 1959	11.60	7,900
	Mar. 11, 1957	12.08	7,430				
				1960	Feb. 8, 1960	13.50	12,300
1958	Nov. 13, 1957	14.85	12,100		Mar. 12, 1960	9.47	4,260

ELK RIVER BASIN

4797. Elk River near Falk, Calif.

Location.--Lat 40°42'10", long 124°09'20", in NW¼ sec.26, T.4 N., R.1 W., on left bank 500 ft downstream from Clapp Gulch, 1,300 ft downstream from confluence of North and South Forks, 2 miles northwest of Falk, and 5 miles south of Eureka.

Drainage area.--44.2 sq mi.

Gage.--Recording. Altitude of gage is 50 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 1,900 cfs.

Bankfull stage.--23 ft.

Remarks.--Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Nov. 13, 1957	22.65	2,480	1958	Feb. 24, 1958	17.21	1,760
	Dec. 18, 1957	13.31	1,170		Apr. 2, 1958	17.92	1,880
	Dec. 21, 1957	19.85	2,220				
	Dec. 28, 1957	13.90	1,250	1959	Jan. 8, 1959	13.69	1,220
	Jan. 12, 1958	13.96	1,260		Jan. 12, 1959	21.72	2,570
	Jan. 29, 1958	19.58	2,170		Jan. 27, 1959	22.12	2,220
	Feb. 12, 1958	22.80	2,790		Feb. 14, 1959	27.62	3,220
	Feb. 16, 1958	16.54	1,660		Feb. 18, 1959	19.76	1,840
	Feb. 18, 1958	15.98	1,570				

Peak stages and discharges of Elk River near Falk, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1960	Feb. 8, 1960	22.12	2,090	1963	Apr. 10, 1963	15.90	1,190
	Mar. 12, 1960	15.46	1,160		Apr. 12, 1963	23.02	2,220
	May 26, 1960	15.32	1,140				
				1964	Nov. 9, 1963	21.19	1,950
1961	Nov. 25, 1960	16.95	1,340		Jan. 6, 1964	22.50	2,140
	Dec. 17, 1960	15.75	1,190		Jan. 17, 1964	16.12	1,220
	Jan. 31, 1961	16.72	1,310		Jan. 20, 1964	27.13	2,950
	Feb. 11, 1961	22.58	2,160		Feb. 1, 1964	15.23	1,100
	Feb. 13, 1961	15.54	1,160		Mar. 11, 1964	18.52	1,550
1962	Dec. 20, 1961	15.83	1,200	1965	Nov. 28, 1964	17.50	1,360
	Jan. 19, 1962	22.34	2,120		Dec. 2, 1964	16.81	1,250
	Feb. 8, 1962	15.57	1,170		Dec. 10, 1964	18.39	1,510
					Dec. 22, 1964	28.09	3,430
1963	Oct. 12, 1962	17.41	1,400		Dec. 25, 1964	22.04	2,150
	Nov. 12, 1962	16.72	1,310		Jan. 5, 1965	21.89	2,120
	Nov. 26, 1962	22.20	2,100		Jan. 24, 1965	18.31	1,490
	Dec. 2, 1962	19.48	1,690		Apr. 15, 1965	20.48	1,870

JACOBY CREEK BASIN

4800. Jacoby Creek near Freshwater, Calif.

Location.--Lat 40°47'30", long 124°00'10", in NW¼ sec.30, T.5 N., R.2 E., on left bank 300 ft downstream from unnamed tributary, 3.7 miles northeast of Freshwater, and 6.5 miles southeast of Arcata.

Drainage area.--6.07 sq mi.

Gage.--Recording. Altitude of gage is 800 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 580 cfs and extended above on basis of critical-depth measurement at 1,490 cfs.

Remarks.--Only annual peaks are shown in 1955 and 1965. Base for partial-duration series, 300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Dec. 30, 1954	7.20	1,670	1959	Feb. 14, 1959	4.59	749
1956	Dec. 21, 1955	6.75	1,490	1960	Feb. 8, 1960	4.28	644
	Jan. 15, 1956	3.49	317				
	Feb. 21, 1956	3.85	422	1961	Feb. 11, 1961	2.98	276
1957	Dec. 11, 1956	3.95	516	1962	Dec. 19, 1961	3.35	368
	Mar. 4, 1957	3.64	429		Jan. 19, 1962	3.43	389
	Mar. 11, 1957	3.87	494				
				1963	Nov. 26, 1962	3.27	348
1958	Nov. 13, 1957	4.54	729		Dec. 2, 1962	3.62	446
	Dec. 21, 1957	3.13	380				
	Jan. 29, 1958	3.36	370	1964	Nov. 8, 1963	3.76	488
	Feb. 12, 1958	4.03	569		Jan. 6, 1964	4.01	563
					Jan. 20, 1964	5.03	900
1959	Jan. 12, 1959	3.39	377				
	Jan. 27, 1959	3.31	357	1965	Dec. 22, 1964	6.83	1,530

4805. Mad River near Forest Glen, Calif.

Location.--Lat 40°27'30", long 123°30'35", in SW¼ sec.16, T.1 N., R.6 E., on right bank 0.7 mile downstream from Lamb Creek and 7.0 miles northwest of Forest Glen.

Drainage area.--143 sq mi.

Gage.--Recording except for Jan. 13 to June 18, 1956, which was nonrecording. Prior to Dec. 23, 1955, at site 0.7 mile upstream at different datum. Jan. 13 to June 18, 1956, at former site at datum 4.17 ft lower than former datum. Datum of gage is 2,408.18 ft above mean sea level, datum of 1929, supplementary adjustment of 1956.

Stage-discharge relation.--Defined by current meter measurements below 1,300 cfs, and extended on basis of slope-conveyance study to 13,800 cfs prior to Dec. 23, 1955, and Jan. 13 to June 18, 1956. Defined by current-meter measurements below 8,100 cfs and extended above on basis of slope-area measurement at 39,200 cfs subsequent to June 18, 1956.

Remarks.--Peaks regulated by Ruth Reservoir (capacity, 42,000 acre-ft) beginning in July 1961. Only annual peaks are shown subsequent to 1961. Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Nov. 23, 1953	10.41	3,960	1958	Dec. 28, 1957	7.42	3,230
	Jan. 17, 1954	16.02	12,900		Jan. 12, 1958	7.33	3,130
	Jan. 23, 1954	12.60	6,440		Jan. 29, 1958	11.26	9,440
	Jan. 28, 1954	14.50	9,560		Feb. 12, 1958	10.46	8,080
	Feb. 12, 1954	12:35	6,100		Feb. 15, 1958	9.56	6,550
	Mar. 9, 1954	10.19	3,760		Feb. 18, 1958	10.32	7,840
	Apr. 5, 1954	9.87	3,470		Feb. 24, 1958	10.60	8,320
1955	Dec. 31, 1954	8.96	2,700	1959	Jan. 9, 1959	9.67	7,220
					Jan. 12, 1959	9.74	7,390
1956	Dec. 6, 1955	10.32	3,880		Feb. 16, 1959	9.83	7,620
	Dec. 19, 1955	15.55	11,800				
	Dec. 22, 1955	23.6	39,200	1960	Feb. 8, 1960	14.93	16,400
	Jan. 15, 1956	18.9	9,440		Mar. 5, 1960	7.10	3,370
	Jan. 22, 1956	13.5	3,120				
	Feb. 21, 1956	20.15	12,000	1961	Dec. 1, 1960	7.61	3,990
					Dec. 17, 1960	7.68	4,080
1957	Feb. 24, 1957	10.73	8,570		Jan. 31, 1961	8.12	4,670
	Mar. 6, 1957	6.65	3,000		Feb. 11, 1961	8.14	4,700
	Mar. 12, 1957	7.22	3,290				
				1962	Feb. 18, 1962	5.18	1,380
1958	Nov. 14, 1957	9.41	6,300	1963	Feb. 1, 1963	8.74	5,540
	Dec. 18, 1957	7.40	3,210	1964	Jan. 20, 1964	9.93	7,300
	Dec. 21, 1958	9.21	5,960	1965	Dec. 22, 1964	16.80	20,100

4808. North Fork Mad River near Korbel, Calif.

Location.--Lat 40°53'10", long 123°56'30", in SW¼ sec.22, T.6 N., R.2 E., on left bank 0.5 mile downstream from Bald Mountain Creek, 1.2 miles northeast of Korbel, and 2.5 miles east of town of Blue Lake.

Drainage area.--40.5 sq mi.

Gage.--Recording. Altitude of gage is 250 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 6,100 cfs.

Bankfull stage.--Not subject to overflow.

Remarks.--Base for partial-duration series, 1,500 cfs.

Peak stages and discharges of North Fork Mad River near Korbel, Calif.

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Nov. 13, 1957	15.50	6,520	1961	Feb. 11, 1961	8.90	2,520
	Dec. 21, 1957	11.93	3,700		Feb. 13, 1961	8.50	2,200
	Dec. 28, 1957	10.84	2,890		Mar. 25, 1961	7.88	1,750
	Jan. 12, 1958	8.68	1,520				
	Jan. 29, 1958	13.43	4,970	1962	Dec. 19, 1961	13.20	5,760
	Feb. 12, 1958	11.98	3,740		Jan. 19, 1962	8.95	2,360
	Feb. 15, 1958	10.25	2,460				
	Feb. 24, 1958	8.98	1,550	1963	Oct. 9, 1962	11.03	4,020
					Nov. 12, 1962	9.89	3,110
1959	Jan. 12, 1959	10.18	2,480		Nov. 26, 1962	11.40	4,320
	Jan. 27, 1959	12.62	4,230		Dec. 2, 1962	12.82	5,460
	Feb. 14, 1959	12.33	4,010		Apr. 6, 1963	10.98	4,220
	Mar. 30, 1959	8.76	1,510		Apr. 12, 1963	8.41	2,210
1960	Feb. 8, 1960	16.17	7,170	1964	Nov. 8, 1963	15.55	8,080
	Mar. 30, 1960	10.16	2,130		Jan. 6, 1964	10.70	2,770
	May 26, 1960	10.45	2,340		Jan. 17, 1964	9.07	1,710
					Jan. 20, 1964	15.75	8,400
1961	Nov. 25, 1960	9.43	2,990				
	Dec. 17, 1960	7.93	1,780	1965	Dec. 22, 1964	20.02	a15,400
	Jan. 31, 1961	8.57	2,260				

a Annual peak only.

4810. Mad River near Arcata, Calif.

Location.--Lat 40°54'35", long 124°03'35", in NW¼ sec.15, T.6 N., R.1 E., on right bank 100 ft upstream from bridge on U.S. Highway 299, 1.0 mile downstream from Warren Creek, and 2.8 miles northeast of Arcata.

Drainage area.--484 sq mi.

Gage.--Nonrecording prior to October 1913; recording subsequent to Aug. 15, 1950. Prior to October 1913, at site 0.1 mile upstream at different datum. Aug. 15, 1950, to July 23, 1956, at site 0.6 mile upstream at datum 6.00 ft higher. Datum of gage is 17.79 ft above mean sea level, datum of 1929, supplementary adjustment of 1956. Auxiliary gage 0.5 mile downstream at different datum.

Stage-discharge relation.--Defined by current-meter measurements below 5,200 cfs prior to October 1913; below 34,000 cfs and extended above on basis of slope-area measurement at 77,800 cfs for period Aug. 15, 1950, to July 23, 1956; defined below 23,000 cfs thereafter.

Bankfull stage.--38 ft.

Remarks.--Peaks regulated by Ruth Reservoir (usable capacity, 42,000 acre-ft) beginning in July 1961. Only annual peaks are shown prior to Oct. 1, 1950. Peaks for the years 1911-13 are maximum observed. Base for partial-duration series, 14,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Jan. 19, 1911	22.00	14,800	1954	Nov. 23, 1953	16.85	30,600
1912	Jan. 25, 1912	24.7	21,200		Jan. 17, 1954	16.15	27,900
1913	Dec. 16, 1912	23.3	17,800		Jan. 28, 1954	14.65	22,700
1951	Oct. 28, 1950	16.32	29,000	1955	Dec. 31, 1954	19.92	48,300
	Dec. 3, 1950	15.74	26,600				
	Dec. 14, 1950	12.59	14,800	1956	Dec. 6, 1955	11.17	16,400
	Jan. 18, 1951	16.04	27,800		Dec. 19, 1955	14.99	29,800
	Jan. 21, 1951	17.23	33,100		Dec. 22, 1955	27.30	77,800
	Feb. 4, 1951	17.65	35,000		Jan. 15, 1956	16.95	36,600
					Jan. 22, 1956	12.30	20,400
1952	Dec. 1, 1951	14.35	20,900		Feb. 21, 1956	17.65	39,200
	Dec. 27, 1951	16.06	27,400				
	Dec. 29, 1951	12.68	15,800	1957	Dec. 11, 1956	12.70	17,100
	Feb. 1, 1952	19.52	42,100		Feb. 24, 1957	14.49	24,500
	Feb. 16, 1952	12.90	15,800		Feb. 26, 1957	13.36	19,700
					Mar. 5, 1957	13.00	18,300
1953	Dec. 7, 1952	14.74	22,200		Mar. 11, 1957	13.70	21,100
	Dec. 10, 1952	13.04	16,200				
	Jan. 9, 1953	15.49	25,200	1958	Nov. 13, 1957	17.64	44,900
	Jan. 17, 1953	26.15	75,000		Dec. 21, 1957	13.52	23,600
	Jan. 20, 1953	13.18	16,700		Dec. 28, 1957	11.70	15,800

Peak stages and discharges of Mad River near Arcata, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Jan. 29, 1958	15.19	31,500	1962	Dec. 19, 1961	12.26	23,500
	Feb. 12, 1958	15.03	30,600				
	Feb. 15, 1958	13.55	20,300	1963	Oct. 12, 1962	12.40	26,000
	Feb. 19, 1958	13.28	19,200		Nov. 26, 1962	10.78	19,100
	Feb. 24, 1958	14.96	30,300		Dec. 2, 1962	12.98	28,900
					Jan. 31, 1963	9.71	15,000
1959	Jan. 9, 1959	12.65	19,900		Apr. 6, 1963	9.90	16,200
	Jan. 12, 1959	15.60	33,700		Apr. 12, 1963	9.87	16,000
	Jan. 27, 1959	12.73	20,200		Apr. 15, 1963	9.55	14,900
	Feb. 15, 1959	14.19	26,500				
				1964	Jan. 20, 1964	16.04	39,200
1960	Feb. 8, 1960	17.85	48,000				
				1965	Dec. 10, 1964	11.20	16,600
1961	Nov. 25, 1960	12.16	16,600		Dec. 23, 1964	23.40	70,400
	Dec. 17, 1960	11.08	14,700		Jan. 6, 1965	10.32	15,800
	Jan. 13, 1961	11.28	15,300		Jan. 24, 1965	9.77	15,100
	Feb. 11, 1961	13.80	24,200				

LITTLE RIVER BASIN

4812. Little River at Crannell, Calif.

Location.--Lat 41°00'40", long 124°04'50", in NE¼ sec.8, T.7 N., R.1 E., on right bank at Crannell, 0.5 mile upsteeam from Coon Creek and 9.1 miles north of Arcata.

Drainage area.--44.3 sq mi.

Gage.--Recording. Datum of gage is 17.62 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,700 cfs.

Bankfull stage.--23 ft.

Historical data.--Flood of Jan. 17, 1953, reached a stage of 15.7 ft, observed by an employee of Hammond Lumber Co.

Remarks.--Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Nov. 19, 1955	5.82	2,390	1961	Nov. 25, 1960	6.90	3,400
	Dec. 6, 1955	4.73	1,510		Dec. 17, 1960	5.00	1,790
	Dec. 18, 1955	6.37	2,920		Jan. 31, 1961	6.84	3,350
	Dec. 22, 1955	9.63	6,380		Feb. 10, 1961	6.27	2,830
	Jan. 15, 1956	8.84	5,430		Feb. 13, 1961	4.65	1,540
	Jan. 22, 1956	6.47	3,030		Mar. 25, 1961	4.39	1,360
	Jan. 27, 1956	5.12	1,800				
	Feb. 21, 1956	6.83	3,450	1962	Dec. 19, 1961	8.26	4,780
					Jan. 19, 1962	5.98	2,570
1957	Dec. 11, 1956	8.90	5,500				
	Feb. 26, 1957	6.85	3,470	1963	Oct. 9, 1962	6.66	3,180
	Mar. 4, 1957	6.97	3,610		Nov. 12, 1962	6.09	2,670
	Mar. 11, 1957	9.96	6,800		Nov. 26, 1962	7.70	4,190
					Dec. 2, 1962	8.15	4,660
1958	Nov. 13, 1957	8.28	4,800		Apr. 6, 1963	6.16	2,730
	Dec. 21, 1957	9.02	5,640		Apr. 12, 1963	5.12	1,890
	Dec. 28, 1957	5.89	2,540				
	Jan. 29, 1958	9.32	6,000	1964	Nov. 9, 1963	10.34	7,290
	Feb. 12, 1958	7.93	4,420		Jan. 6, 1964	6.04	2,630
	Feb. 15, 1958	6.45	3,080		Jan. 20, 1964	10.83	7,930
1959	Jan. 12, 1959	6.67	3,190	1965	Nov. 28, 1964	5.3	2,030
	Jan. 27, 1959	6.90	3,400		Dec. 1, 1964	-	1,850
	Feb. 14, 1959	7.32	3,810		Dec. 10, 1964	7.72	4,140
	Feb. 18, 1959	4.41	1,380		Dec. 22, 1964	11.06	8,240
					Dec. 25, 1964	8.01	4,500
1960	Feb. 8, 1960	9.55	6,280		Jan. 5, 1965	4.76	1,620
	Mar. 7, 1960	4.38	1,360		Jan. 11, 1965	5.36	2,080
	Mar. 30, 1960	5.69	2,340				
	May 26, 1960	6.52	3,060				

4815. Redwood Creek near Blue Lake, Calif.

Location.--Lat 40°54'20", long 123°48'55", in NE¼ sec.15, T.6 N., R.3 E., on right bank 400 ft upstream from Lupton Creek and 9.1 miles east of town of Blue Lake.

Drainage area.--67.5 sq mi.

Gage.--Recording. Altitude of gage is 850 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 5,800 cfs.

Remarks.--Base for partial-duration series, 1,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Jan. 17, 1953	15.3	-	1957	Oct. 30, 1956	7.16	3,100
					Dec. 11, 1956	6.63	2,530
1954	Nov. 23, 1953	11.35	8,310		Jan. 20, 1957	6.97	2,890
	Dec. 3, 1953	6.60	2,480		Feb. 26, 1957	7.41	3,370
	Jan. 17, 1954	7.75	3,550		Mar. 4, 1957	8.55	4,870
	Jan. 22, 1954	6.56	2,450		Mar. 11, 1957	9.28	5,890
	Jan. 28, 1954	7.36	3,160				
	Feb. 12, 1954	5.79	1,980	1958	Nov. 13, 1957	10.78	7,960
					Dec. 17, 1957	6.10	2,360
1955	Dec. 31, 1954	11.64	9,200		Dec. 21, 1957	8.42	4,790
					Dec. 28, 1957	7.84	4,100
1956	Dec. 6, 1955	7.01	2,960		Jan. 12, 1958	5.65	1,980
	Dec. 19, 1955	9.42	6,090		Jan. 29, 1958	8.20	4,350
	Dec. 21, 1955	13.68	12,100		Feb. 12, 1958	7.28	3,450
	Dec. 26, 1955	6.95	2,860		Feb. 15, 1958	7.70	3,940
	Jan. 4, 1956	6.18	2,080		Feb. 18, 1958	6.73	2,890
	Jan. 15, 1956	10.47	7,560		Feb. 24, 1958	7.60	3,820
	Jan. 22, 1956	9.75	6,550				
	Feb. 21, 1956	9.75	6,550	1965	Dec. 22, 1964	16.05	a16,400

a Annual peak only.

4825. Redwood Creek at Orick, Calif.

Location.--Lat 41°17'20', long 124°03'30", in NE¼ sec.4, T.10 N., R.1 E., on downstream side of left pier of bridge on U.S. Highway 101 at Orick, 0.9 mile downstream from Prairie Creek.

Drainage area.--278 sq mi.

Gage.--Nonrecording at different datum prior to Aug. 9, 1913; recording subsequent to October 1953. Altitude of gage is 10 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurements below 24,000 cfs.

Bankfull stage.--22 ft.

Remarks.--Peaks for the years 1912-13 are maximum observed. Only annual peaks are shown prior to Oct. 1, 1953. Base for partial-duration series, 7,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Feb. 17, 1912	-	19,500	1956	Dec. 22, 1955	23.95	50,000
1913	Nov. 6, 1912	-	12,500		Jan. 15, 1956	20.00	22,200
					Jan. 22, 1956	16.00	17,500
1953	Jan. 18, 1953	23.95	50,000		Feb. 21, 1956	18.05	20,000
1954	Nov. 24, 1953	19.22	27,200	1957	Oct. 30, 1956	13.47	10,400
	Jan. 16, 1954	15.50	16,200		Dec. 11, 1956	14.66	13,700
	Jan. 23, 1954	12.85	9,180		Jan. 20, 1957	12.71	8,500
	Jan. 28, 1954	14.35	13,100		Feb. 26, 1957	14.07	12,100
					Mar. 5, 1957	14.16	11,700
1955	Dec. 31, 1954	19.54	28,100		Mar. 12, 1957	18.48	24,100
1956	Nov. 19, 1955	12.22	8,770	1958	Nov. 13, 1957	17.94	22,200
	Dec. 6, 1955	12.58	9,630		Dec. 21, 1957	16.58	17,600
	Dec. 19, 1955	14.78	15,000		Dec. 28, 1957	14.89	12,500

Peak stages and discharges of Redwood Creek at Orick, Calif.--Continued

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Jan. 29, 1958	17.30	20,000	1962	Jan. 19, 1962	13.00	8,540
	Feb. 12, 1958	15.88	15,300				
	Feb. 15, 1958	15.99	15,700	1963	Oct. 9, 1962	12.64	7,820
	Feb. 25, 1958	14.04	10,300		Oct. 12, 1962	13.58	9,820
					Nov. 27, 1962	12.70	7,940
1959	Jan. 12, 1959	16.52	17,500		Dec. 2, 1962	19.02	26,100
	Jan. 27, 1959	15.24	13,500		Feb. 1, 1963	12.71	7,960
	Feb. 15, 1959	16.04	15,900		Apr. 6, 1963	14.08	11,000
	Feb. 19, 1959	13.53	8,710		Apr. 15, 1963	-	9,000
1960	Feb. 8, 1960	18.70	24,900	1964	Nov. 8, 1963	19.18	26,600
	Mar. 30, 1960	12.66	7,920		Jan. 7, 1964	12.75	8,040
	May 26, 1960	13.40	9,480		Jan. 20, 1964	21.97	37,700
1961	Nov. 25, 1960	15.55	14,700	1965	Nov. 28, 1964	12.12	7,540
	Dec. 17, 1960	12.45	7,500		Dec. 1, 1964	13.56	10,700
	Jan. 31, 1961	12.64	7,710		Dec. 10, 1964	16.75	19,800
	Feb. 11, 1961	15.05	13,300		Dec. 22, 1964	24.0	50,500
	Feb. 13, 1961	13.03	8,580		Jan. 6, 1965	-	15,500
	Mar. 25, 1961	13.00	8,500		Jan. 11, 1965	-	14,000
1962	Dec. 19, 1961	17.81	21,800				

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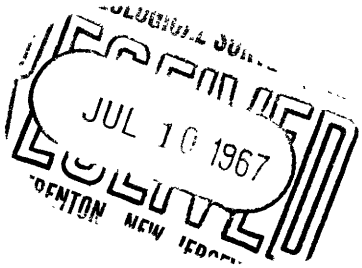
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