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1934

PART 11

PACIFIC SLOPE BASINS IN CALIFORNIA

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District Engineers

Prepared in cooperation with

THE STATES OF CALIFORNIA AND OREGON

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ILLUSTRATION

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FIGURE 1. Typical river-measurement station showing concrete well and house for water-stage recorder and staff gages, cable, and car 3

SURFACE WATER SUPPLY OF PACIFIC SLOPE BASINS IN CALIFORNIA, 1934

AUTHORIZATION AND SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of flow made on streams in the United States during the year ending September 30, 1934.

The data presented in these reports were collected by the United States Geological Survey under the following authority contained in the organic law (20 Stat. L., p. 394):

Provided, That this officer [the Director] shall have the direction of the Geological Survey and the classification of public lands and examination of the geological structure, mineral resources, and products of the national domain.

The work was begun in 1888 in connection with special studies relating to irrigation. Since the fiscal year ending June 30, 1895, successive appropriation bills passed by Congress have carried the following items:

For gaging the streams and determining the water supply of the United States, and for the investigation of underground currents and artesian wells, and for the preparation of reports upon the best methods of utilizing the water resources.

Annual appropriations for the fiscal years ending June 30, 1895–1934

1895	$12, 500. 00	1911–17	$150, 000. 00	1928	$147, 000. 00
1896	24, 500. 00	1918	175, 000. 00	1929	270, 500. 00
1897–99	50, 000. 00	1919	148, 244. 10	1930	275, 000. 00
1900	70, 000. 00	1920	175, 000. 00	1931	565, 000. 00
1901–2	100, 000. 00	1921–23	180, 000. 00	1932	711, 000. 00
1903–6	200, 000. 00	1924–25	170, 000. 00	1933	600, 000. 00
1907	150, 000. 00	1926	165, 000. 00	1934	[1] 540, 000. 00
1908–10	100, 000. 00	1927	151, 000. 00		

In the execution of the work many private and State organizations have cooperated, either by furnishing data or by assisting in collecting data. Acknowledgments for cooperation of the first kind are made in connection with the description of each station affected; cooperation of the second kind is acknowledged on page 10.

Measurements of stream flow have been made at about 6,900 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July 1934, 2,940 gaging stations were being maintained by the Geological Survey and the cooperating organiza-

[1] Only $340,000 available for expenditure.

tions. Many miscellaneous discharge measurements were made at other points. In connection with this work, data were also collected in regard to precipitation, evaporation, storage reservoirs, river profiles, and water power in many sections of the country and will be made available in water-supply papers from time to time.

DEFINITION OF TERMS

The volume of water flowing in a stream—the "run-off" or "discharge"—is expressed in various terms, each of which has become associated with a certain class of work. These terms may be divided into two groups—(1) those that represent a rate of flow, as second-feet, gallons per minute, miner's inches, and discharge in second-feet per square mile; and (2) those that represent the actual quantity of water, as run-off in inches, acre-feet, and millions of cubic feet. The principal terms used in this series of reports are "second-feet", "second-feet per square mile", "run-off in inches", and "acre-feet." They may be defined as follows:

"Second-feet" is an abbreviation for "cubic feet per second." A second-foot is the rate of discharge of water flowing in a channel of rectangular cross section 1 foot wide and 1 foot deep at an average velocity of 1 foot per second. It is generally used as a fundamental unit from which others are computed.

"Second-feet per square mile" is the average number of cubic feet of water flowing per second from each square mile of area drained, on the assumption that the run-off is distributed uniformly both as regards time and area.

"Run-off in inches" is the depth to which an area would be covered if all the water flowing from it in a given period were uniformly distributed on the surface. It is used for comparing run-off with rainfall, which is usually expressed in inches.

An "acre-foot", equivalent to 43,560 cubic feet, is the quantity required to cover an acre to the depth of 1 foot. The term is commonly used in connection with storage for irrigation.

The following terms not in common use are here defined:

"Stage-discharge relation", an abbreviation for the term "relation of gage height to discharge."

"Control", a term used to designate the natural section or stretch of the channel or artificial structure below the gage, which determines the stage-discharge relation at the gage.

EXPLANATION OF DATA

The data presented in this report cover the year beginning October 1, 1933, and ending September 30, 1934. At the beginning of January in most parts of the United States much of the precipitation in the preceding 3 months is stored in the form of snow or ice, or in ponds,

lakes, and swamps, or as underground water, and this stored water passes off in the streams during the spring break-up. At the end of September, on the other hand, the only stored water available for run-off is possibly a small quantity in the ground; therefore the run-off for the year beginning October 1 is practically all derived from the precipitation within that year.

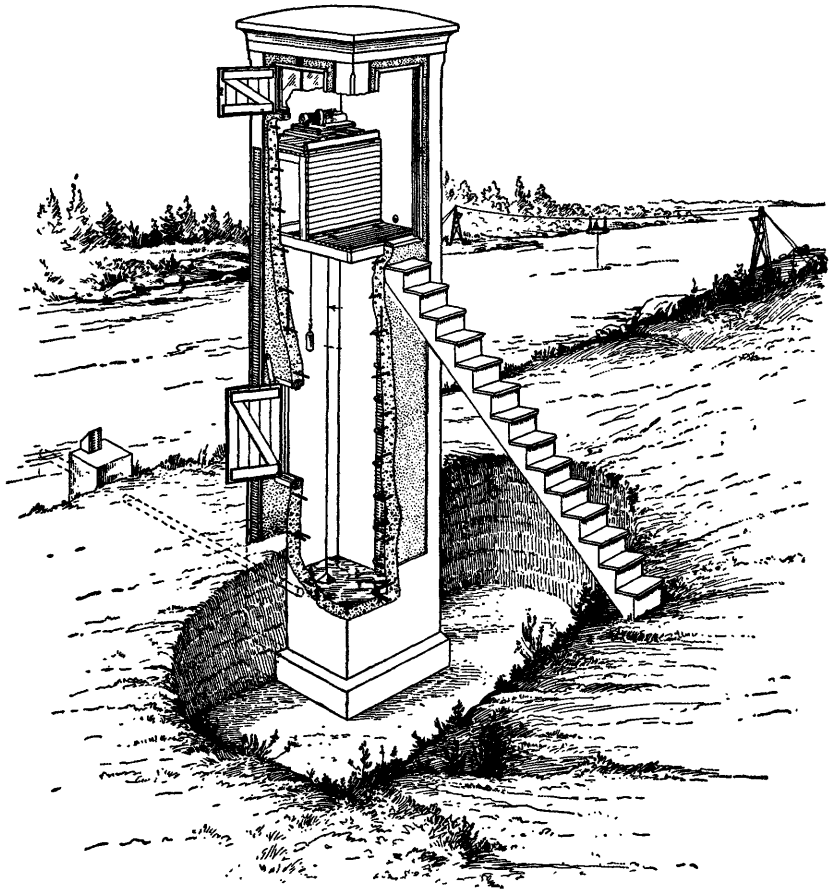

FIGURE 1.—Typical river measurement station showing concrete well and house for water-stage recorder and staff gages, cable, and car.

The base data collected at gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the gage heights and discharge measurements in determining the daily flow. The records of stage are obtained either from direct readings on a nonrecording gage, or from a water-stage recorder that gives a continuous record of the fluctuations. Measurements of discharge are made with a current meter by the general methods outlined

in standard textbooks on the measurement of river discharge. A typical gaging station, equipped with water-stage recorder and measuring cable and car, is shown in figure 1.

Rating tables giving the discharge for any stage are prepared from the discharge measurements. The application of the daily gage heights to these rating tables gives the daily discharge from which the monthly and yearly mean discharge is computed.

The data presented for each gaging station in the area covered by this report usually comprise a description of the station and a table showing the daily discharge of the stream, and the monthly and yearly discharge and run-off.

The description of the station gives information in regard to the location and type of gage, diversions that decrease the flow at the gage, artificial regulation from pondage or storage, and the accuracy of the records. Under "Average discharge" is given the average discharge for the number of years indicated. It is given only for stations for which there are 10 or more complete years of record. Information under "Extremes" gives the maximum discharge and gage height; the minimum discharge, if there is little or no regulation; the minimum daily discharge, if there is extensive regulation, and also the minimum discharge, if useful: and the minimum gage height except when it is of no importance. Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder or a nonrecording gage read at the time of the crest. Likewise the minimum represents the lowest discharge unless otherwise qualified.

The table of daily discharge gives, for stations equipped with nonrecording gages, the discharge in second-feet corresponding to once-daily or the mean of twice-daily readings of the gage. For stations equipped with water-stage recorders the table gives the discharge corresponding to the mean daily gage height except for stations on streams subject to sudden or rapid fluctuation. For stations subject to such fluctuation the mean daily gage height may not indicate the true mean daily discharge, which must be obtained by averaging the discharge for intervals of the day or by using the discharge integrator, an instrument for obtaining the mean daily discharge from a continuous gage-height graph and containing as an essential element the rating curve of the station.

In the table of monthly discharge the column headed "Maximum" gives the maximum daily discharge and not the discharge when the water surface was at crest height. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" is the average flow in cubic feet per second during the month.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of stream-flow data depends primarily (1) on the permanency of the stage-discharge relation and (2) on the accuracy of observation of stage, measurements of flow, and interpretation of records.

The station description gives a statement in regard to the general accuracy of records. "Excellent" indicates that, in general, the daily records are accurate within 5 percent; "good", within 10 percent; "fair", within 15 percent; and "poor", within 20 percent or more.

The monthly means for any station may represent with high accuracy the quantity of water flowing past the gage, but the figures showing discharge per square mile and run-off in inches may be subject to gross errors caused by the inclusion of large noncontributing districts in the measured drainage area, by lack of information concerning water diverted for irrigation or other use, or by inability to interpret the effect of artificial regulation of the flow of the river above the station. "Second-feet per square mile" and "run-off in inches" are therefore not computed if such errors appear probable. The computations are also omitted for stations on streams draining areas in which the annual rainfall is less than 20 inches.

Many gaging stations on streams in the irrigated areas of the United States are situated above most of the diversions from those streams, and the discharge recorded does not show the water supply available for further development, as prior appropriations below the stations must first be satisfied.

The table of monthly discharge gives a general idea of the flow at the station. The table of daily discharge allows more detailed studies of the variation in flow. It should be borne in mind, however, that the observations in each succeeding year may be expected to throw new light on data previously published, and that greater degrees of refinement in computations and records may be warranted with increased data and use of improved equipment.

In order to permit greater refinement in analysis and comparison of records for adjacent stations, the following changes have been made in the computation procedure: (*a*) Mean monthly discharge above 1,000 second-feet and monthly run-off above 10,000 acre-feet are expressed to four significant figures instead of three significant figures as formerly; (*b*) monthly run-off in acre-feet is computed from the total second-foot-days for the month and not from the mean discharge for the month; (*c*) drainage areas above 1,000 square miles, if measured on topographic maps or if otherwise warranted, are expressed to four significant figures instead of three as formerly. Some of the records in the series of reports for 1934 have been computed in accordance with the modified procedure.

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PUBLICATIONS

Investigation of water resources by the United States Geological Survey has consisted in large part of measurements of the volume of flow of streams and studies of the conditions affecting that flow, but it has comprised also investigation of such closely allied subjects as irrigation, water storage, water power, underground waters, and quality of waters. Most of the results of these investigations have been published in the series of water-supply papers, but some have appeared in the bulletins, professional papers, monographs, and annual reports.

The results of stream-flow measurements are now published annually in 12 parts, each part covering an area whose boundaries coincide with natural drainage features as indicated below:

Part 1. North Atlantic slope basins (St. John River to York River).
2. South Atlantic slope and eastern Gulf of Mexico basins (James River to Mississippi River).
3. Ohio River Basin.
4. St. Lawrence River Basin.
5. Hudson Bay and upper Mississippi River Basins.
6. Missouri River Basin.
7. Lower Mississippi River Basin.
8. Western Gulf of Mexico basins.
9. Colorado River Basin.
10. The Great Basin.
11. Pacific slope basins in California.
12. North Pacific slope basins, in three parts:
    A, Pacific slope basins in Washington and upper Columbia River Basin.
    B, Snake River Basin.
    C, Pacific slope basins in Oregon and lower Columbia River Basin

Water-supply papers and other publications of the United States Geological Survey containing data in regard to the water resources of the United States may be obtained or consulted as indicated below.

1. Copies may be purchased at nominal cost from the Superintendent of Documents, Government Printing Office, Washington, D. C., who will, on application, furnish lists giving prices.

2. Sets of the reports may be consulted in the libraries of the principal cities of the United States.

3. Sets are available for consultation in the local offices of the water-resources branch of the Geological Survey as follows:

Augusta, Maine, Statehouse.
Boston, Mass., 945 Post Office Building.
Hartford, Conn., 203 Federal Building.
Albany, N. Y., 526 Federal Building.
Trenton, N. J., 228 Federal Building.
Harrisburg, Pa., 490 Education Building.
Charlottesville, Va., University of Virginia.
South Charleston, W. Va., Naval Ordnance Plant.

Asheville, N. C., 220 Post Office Building.
Columbia, S. C., 801 National Loan & Exchange Bank Building.
Ocala, Fla., Post Office Building.
Montgomery, Ala., Post Office Building.
Chattanooga, Tenn., 217 Post Office Building.
Columbus, Ohio, Engineering Experiment Station, Ohio State University.
Indianapolis, Ind., 319 Federal Building.
Urbana, Ill., 302 University New Agricultural Building.
Madison, Wis., 337N State Capitol.
St. Paul, Minn., 808 New Post Office Building.
Iowa City, Iowa, 402 Hydraulic Laboratory, University of Iowa.
St. Louis, Mo., Customhouse, Eighth and Olive Streets.
Rolla, Mo., Missouri Geological Survey Building, Missouri School of Mines and Metallurgy.
Topeka, Kans., 305 Federal Building.
Fort Smith, Ark., Post Office Building.
Austin, Tex., State Highway Building.
Santa Fe, N. Mex., State Capitol.
Tucson, Ariz., 210 Post Office Building.
Denver, Colo., 403 Post Office Building.
Salt Lake City, Utah, 303 Federal Building.
Idaho Falls, Idaho, 228 Federal Building.
Boise, Idaho, 429 Federal Building.
Helena, Mont., 421 Federal Building.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 303 Customhouse.
Los Angeles, Calif., 512 Eighth and Figueroa Building.
Honolulu, Hawaii, 225 Federal Building.

A list of the Geological Survey publications may be obtained by applying to the Director, United States Geological Survey, Washington, D. C.

Stream-flow records have been obtained at about 6,900 points in the United States, and the data obtained have been published in the reports tabulated as follows:

Stream-flow data in reports of the United States Geological Survey

[A = Annual Report; B = Bulletin; W = Water-Supply Paper]

Report	Character of data	Year
10th A, pt. 2	Descriptive information only	
11th A, pt. 2	Monthly discharge and descriptive information	1884 to Sept. 1890.
12th A, pt. 2	do	1884 to June 30, 1891.
13th A, pt. 3	do	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871–93)	1888 to Dec. 31, 1893.
B 131	Descriptions, measurements, gage heights, and ratings	1893–94.
16th A, pt. 2	Descriptive information only	
B 140	Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11	Gage heights (also gage heights for earlier years)	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895–96.
W 15	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas River.	1897.
W 16	Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte Rivers, and western United States.	1897.

Stream-flow data in reports of the United States Geological Survey—Continued

[A = Annua lReport; B = Bulletin; W = Water-Supply Paper]

Report	Character of data	Year
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also some long-time records).	1897.
W 27	Measurements, ratings, and gage heights, eastern United States, eastern Mississippi River, and Missouri River.	1898.
W 28	Measurements, ratings, and gage heights, Arkansas River and western United States.	1898.
20th A, pt. 4	Monthly discharge (also for many earlier years)	1898.
W 35 to 39	Descriptions, measurements, gage heights, and ratings	1899.
21st A, pt. 4	Monthly discharge	1899.
W 47 to 52	Descriptions, measurements, gage heights, and ratings	1900.
22d A, pt. 4	Monthly discharge	1900.
W 65, 66	Descriptions, measurements, gage heights, and ratings	1901.
W 75	Monthly discharge	1901.
W 82 to 85	Complete data	1902.
W 97 to 100	do	1903.
W 124 to 135	do	1904.
W 165 to 178	do	1905.
W 201 to 214	do	1906.
W 241 to 252	do	1907–8.
W 261 to 272	do	1909.
W 281 to 292	do	1910.
W 301 to 312	do	1911.
W 321 to 332	do	1912.
W 351 to 362	do	1913.
W 381 to 394	do	1914.
W 401 to 414	do	1915.
W 431 to 444	do	1916.
W 451 to 464	do	1917.
W 471 to 484	do	1918.
W 501 to 514	do	1919–20.
W 521 to 534	do	1921.
W 541 to 554	do	1922.
W 561 to 574	do	1923.
W 581 to 594	do	1924.
W 601 to 614	do	1925.
W 621 to 634	do	1926.
W 641 to 654	do	1927.
W 661 to 674	do	1928.
W 681 to 694	do	1929.
W 696 to 709	do	1930.
W 711 to 724	do	1931.
W 726 to 739	do	1932.
W 741 to 754	do	1933.
W 756 to 769	do	1934.

The records at most of the stations discussed in these reports extend over a series of years. Miscellaneous measurements at many points other than regular gaging stations have been made each year and are published under "Miscellaneous discharge measurements" at the end of each report in the same relative order as the regular gaging stations. An index of the reports containing records obtained prior to 1904 has been published in Water-Supply Paper 119.

The following table gives, by years and drainage basins, the numbers of the papers on surface-water supply published from 1899 to 1934. The data for any particular station will, as a rule, be found in the reports covering the years during which the station was maintained. For example, data from 1910 to 1920 for any station in the area covered by part 3 are published in Water-Supply Papers 283, 303, 323, 353, 383, 403, 433, 453, 473, and 503, which contain records for the Ohio River Basin for those years.

Numbers of water-supply papers containing results of stream measurements, 1899–1934

[For basins included, see p. 6]

Year	1	2	3	4	5	6	7	8	9	10	11	12-A	12-B	12-C
1899 [1]	35	[2] 35, 36	36	36	36	[3] 36, 37	37	37	[4] 37, 38	38, [5] 39	38, [6] 39	38	38	38
1900 [7]	47, [8] 48	48	48, [9] 49	49	49	49, [10] 50	50	50	50	51	51	51	51	51
1901	65, 75	65, 75	65, 75	65, 75	[11] 65, 66, 75	66, 75	[11] 65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902	82	[2] 82, 83	83	[12] 82, 83	[11] 83, 85	84	[11] 83, 84	84	85	85	85	85	85	85
1903	97	[2] 97, 98	98	97	[11] 98, 99, [13] 100	99	[11] 98, 99	99	100	100	100	100	100	100
1904	[14] 124, [15] 125, [16] 126	[16] 126, 127	128	129	[11] 128, 130	130, [17] 131	[11] 128, 131	132	133	133, [18] 134	134	135	135	135
1905	[14] 165, [15] 166, [16] 167	[16] 167, 168	169	170	171	172	[11] 169, 173	174	175, [19] 177	176, [18] 177	177	178	178	[20] 177, 178
1906	[14] 201, [15] 202, [16] 203	[16] 203, 204	205	206	207	208	[11] 205, 209	210	211, [19] 213	212, [18] 213	213	214	214	214
1907–8	241	242	243	244	245	246	247	248	249	250, [18] 251	251	252	252	252
1909	261	262	263	264	265	266	267	268	269	270, [18] 271	271	272	272	272
1910	281	282	283	284	285	286	287	288	289	290	291	292	292	292
1911	301	302	303	304	305	306	307	308	309	310	311	312	312	312
1912	321	322	323	324	325	326	327	328	329	330	331	332-A	332-B	332-C
1913	351	352	353	354	355	356	357	358	359	360	361	362-A	362-B	362-C
1914	381	382	383	384	385	386	387	388	389	390	391	392	393	394
1915	401	402	403	404	405	406	407	408	409	410	411	412	413	414
1916	431	432	433	434	435	436	437	438	439	440	441	442	443	444
1917	451	452	453	454	455	456	457	458	459	460	461	462	463	464
1918	471	472	473	474	475	476	477	478	479	480	481	482	483	484
1919–20	501	502	503	504	505	506	507	508	509	510	511	512	513	514
1921	521	522	523	524	525	526	527	528	529	530	531	532	533	534
1922	541	542	543	544	545	546	547	548	549	550	551	552	553	554
1923	561	562	563	564	565	566	567	568	569	570	571	572	573	574
1924	581	582	583	584	585	586	587	588	589	590	591	592	593	594
1925	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1926	621	622	623	624	625	626	627	628	629	630	631	632	633	634
1927	641	642	643	644	645	646	647	648	649	650	651	652	653	654
1928	661	662	663	664	665	666	667	668	669	670	671	672	673	674
1929	681	682	683	684	685	686	687	688	689	690	691	692	693	694
1930	696	697	698	699	700	701	702	703	704	705	706	707	708	709
1931	711	712	713	714	715	716	717	718	719	720	721	722	723	724
1932	726	727	728	729	730	731	732	733	734	735	736	737	738	739
1933	741	742	743	744	745	746	747	748	749	750	751	752	753	754
1934	756	757	758	759	760	761	762	763	764	765	766	767	768	769

[1] Rating tables and index to Water-Supply Papers 35–39 contained in Water-Supply Paper 39. Monthly discharge for 1899 in 21st Annual Report, part 4.
[2] James River only.
[3] Gallatin River.
[4] Green and Gunnison Rivers and Colorado River above Gunnison River.
[5] Mojave River only.
[6] Kings and Kern Rivers and south Pacific slope basins.
[7] Rating tables and index to Water-Supply Papers 47–52 and data on precipitation, wells, and irrigation in California and Utah contained in Water-Supply Paper 52. Monthly discharge for 1900 in 22d Annual Report, part 4.
[8] Wissahickon and Schuylkill Rivers to James River.
[9] Scioto River.
[10] Loup, Platte, and Elkhorn Rivers and tributaries below Platte River.
[11] Tributaries of Mississippi River from east.
[12] Lake Ontario and tributaries to St. Lawrence River proper.
[13] Hudson Bay only.
[14] New England rivers only.
[15] Hudson River to Delaware River, inclusive.
[16] Susquehanna River to Yadkin River, inclusive.
[17] Platte and Kansas Rivers.
[18] The Great Basin in California, except Truckee and Carson River Basins.
[19] Below junction with Gila River.
[20] Rogue, Umpqua, and Siletz Rivers only

COOPERATION

In California the work was done under cooperative agreement with the State Department of Public Works, Earl Lee Kelly, director, and Edward Hyatt, State engineer. Work was also done under cooperative agreements with the East Bay Municipal Utility District; Stanford University; Santa Clara Valley Water Conservation District; Leroy Anderson, secretary, Los Angeles County; and M. W. H. Williams, county treasurer, San Bernardino County. In Oregon the work was done under cooperative agreement with the State of Oregon, Charles E. Stricklin, State engineer.

The entire expense of the stream-flow investigations in the Tuolumne River Basin for the Hetch Hetchy project and Alameda Creek near Niles was paid by the city and county of San Francisco.

Assistance in collecting records was also rendered by the United States Forest Service, United States Bureau of Reclamation, National Park Service, and the following organizations: In California, by the Southern California Edison Co., Ltd., San Joaquin Light & Power Corporation, Pacific Gas & Electric Co., city of Sacramento, Merced Irrigation District, Emma Rose & Hobart Estate Co., Thermalito and Table Mountain Irrigation Districts, all permittees and licensees of the Federal Power Commission, and by the San Francisco Water Department; in Oregon by the California Oregon Power Co.

Funds for the rehabilitation of gaging stations, repairs, replacement of equipment, and improvement of records were allocated by the Public Works Administration from funds made available by the National Industrial Recovery Act.

DIVISION OF WORK

The data for stations in California (except the stations on Fall Creek and Klamath River near Copco) were collected and prepared for publication under the supervision of H. D. McGlashan, district engineer; in Oregon (also stations in California on Fall Creek and Klamath River near Copco) under the supervision of G. H. Canfield, district engineer, the work in Oregon being done in collaboration with Charles E. Stricklin, State engineer.

SAN DIEGO RIVER BASIN

San Diego River near Santee, Calif.

Location.- Water-stage recorder in the Ex Mission San Diego grant, in Mission Gorge, 6 miles west of Santee, San Diego County. Altitude, about 205 feet.

Drainage area.- 380 square miles.

Records available.- May 1912 to September 1934 (incomplete).

Average discharge.- 19 years (1912-15, 1917-19, 1920-34), 40.3 second-feet.

Extremes.- Maximum discharge during year, 7 second-feet Mar. 23 (gage height, 0.42 foot); no flow at times during summer.

1912-34: Maximum discharge, 70,200 second-feet Jan. 27, 1916 (gage height, 25.1 feet); practically no flow for several months each year except for a small amount of ground water being forced to surface.

Remarks.- Records fair. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				*0.2	0.1	0.1	0.1					
2				* .2	.1	.1	.2					
3				* .2	.1	.1	.1					
4				* .2	.1	.1	.1					
5				* .2	.1	.1	.1					
6				.2	.1	.1	.1					
7				.3	.1	.1	.1					
8				.3	.1	.1	.2					
9				.3	.1	.1	.1					
10				.2	.1	.1	* .1					
11				.3	.1	.1	* .1					
12				.3	.1	.1	* .1					
13				.3	.1	.1	* .1					
14				.3	.1	.1	* .1					
15				.2	.1	.1	* .1					
16				.2	.1	.1	* .1					
17				.2	.1	.1	* .1					
18				.1	.1	.1	* .1					
19				.1	.1	.1	* .1					
20				.1	.1	.1	* .1					
21				.1	.1	.1	* .1					
22				.1	.1	.1	* .1					
23				.1	.1	.5	* .1					
24				.1	.1	1.5	* .1					
25				.1	.1	.7	* .1					
26				.1	.1	.4	* .1					
27				.1	.1	.3	* .1					
28				.1	.1	.2	* .1					
29				.1		.1	* .1					
30				.1		.1	* .1					
31				.1		.1						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			*0.05	3.1
November			*.05	3.0
December			*.05	3.1
January	0.3	0.1	.18	10.9
February	.1	.1	.1	5.6
March	1.5	.1	.20	12.1
April	.2	.1	.11	6.3
May			*.05	3.0
June			*.03	1.8
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	1.5	0	.067	48.9

*Estimated.

NOTE:--No flow during July, August, September.

San Dieguito River at Lake Hodges, Calif.

Location.- In NW¼ sec. 18, T. 13 S., R. 2 W., at Lake Hodges Dam, 5½ miles southwest of Escondido.

Drainage area.- 299 square miles.

Records available.- January 1916 to September 1934.

Remarks.- Irrigation diversions in San Pasqual Valley above Lake Hodges, also pumping from wells along river. Lake Hodges Dam completed in 1919, and gaging station formerly maintained at dam site was abandoned. Discharge in second-feet and run-off in acre-feet converted by U. S. Geological Survey from records in millions of gallons as computed by city of San Diego from records of storage, draft, leakage and spill, and evaporation.

Discharge, in second-feet, 1933-34

Month	Mean	Run-off in acre-feet
October	0.58	35.9
November	.68	40.5
December	6.7	414
January	4.4	269
February	9.1	505
March	3.22	201
April	.22	12.9
May	0	0
June	1.21	72.1
July	0	0
August	0	0
September	0	0
The year	2.13	1,550

Note.- Precipitation on reservoir surface is included in the computation of discharge.

SAN LUIS REY RIVER BASIN

San Luis Rey River at Lake Henshaw, near Mesa Grande, Calif.

Location.- In NW¼ sec. 10, T. 11 S., R. 2 E., at Henshaw Dam, 5 miles north of Mesa Grande.

Drainage area.- 209 square miles at gaging station 1 mile below dam.

Records available.- October 1911 to September 1934.

Average discharge.- 23 years, 42.9 second-feet.

Remarks.- No diversions above station. Lake Henshaw Reservoir was completed in 1923 and gaging station formerly maintained 1 mile below dam was abandoned. Discharge in second-feet computed by U. S. Geological Survey from records furnished by San Diego County Water Co.

Discharge, in second-feet, 1933-34

Month	Mean	Run-off in acre-feet
October	0.18	11
November	1.38	82
December	12.0	735
January	11.2	687
February	17.4	968
March	9.64	605
April	1.11	66
May	5.92	364
June	3.06	182
July	.10	6
August	.03	2
September	.07	4
The year	5.13	3,712

Note.- Precipitation on reservoir surface is included in the computation of discharge.

San Luis Rey River near Bonsall, Calif.

Location.- Water-stage recorder in NE¼ sec. 1, T. 11 S., R. 4 W., three-quarters of a mile below highway bridge on Fallbrook-Escondido Road 3 miles southwest of Bonsall. Altitude, about 120 feet.

Drainage area.- 514 square miles.

Records available.- April 1912 to September 1918, December 1929 to September 1934.

Extremes.- Maximum discharge during year, 51 second-feet Feb. 25 (gage height, 1.54 feet); dry part of year.

1912-18, 1929-34: Maximum discharge, 9,000 second-feet Feb. 11, 1915; maximum stage for 1916 not known, as all equipment was destroyed by flood of January 1916; no flow part of each year.

Remarks.- Records good. Storage at Lake Henshaw and numerous diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				6.7	12	21	7.5	*0.1				
2				20	11	19	*7.5	* .1				
3				21	11	18	*6.5	* .1				
4				18	11	17	6	* .1				
5				15	10	16	6	* .1				
6				14	11	15	5.5	* .1				
7				13	11	14	4.7	* .1				
8				12	11	14	4.7	* .1				
9				12	11	14	3.4	* .1				
10				11	11	13	2.7	* .1				
11				11	10	13	2.4	0				
12				10	10	12	2.4	0				
13				10	10	12	2.4	0				
14				11	9.5	11	2.4	0				
15				11	9.5	11	2.7	0				
16				10	10	10	3.1	0				
17				10	9.5	10	2.7	0				
18				11	9.5	9.5	2.4	0				
19				11	9.5	8.5	2.0	0				
20				10	12	8	2.0	0				
21				10	12	7.5	2.0	0				
22				10	13	7.5	1.7	0				
23				10	17	8	1.4	0				
24				11	38	15	1.0	0				
25				11	46	15	.7	0				
26				11	35	15	.3	0				
27				11	27	12	.2	0				
28				11	25	10	* .2	0				
29				11		9.5	* .1	0				
30				12		7.5	* .1	0				
31				12		7.5		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	21	6.7	11.9	729
February	46	9.5	15.1	838
March	21	7.5	12.3	755
April	7.5	.1	2.89	172
May	.1	0	.03	2.0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	46	0	3.45	2,500

*Estimated.

NOTE:--No flow during months left blank.

San Luis Rey River at Oceanside, Calif.

Location.- Water-stage recorder in NW¼ sec. 23, T. 11 S., R. 5 W., three-eighths of a mile above state highway bridge at Oceanside. Altitude, about 20 feet.
Records available.- April 1912 to September 1914, January 1916, December 1929 to September 1934.
Extremes.- 1912-14, 1916, 1929-34: Maximum discharge, 95,600 second-feet Jan. 12, 1916; no flow for several months.
Remarks.- No flow during year. Storage at Lake Henshaw and numerous diversions above station.

SANTA MARGARITA RIVER BASIN

Temecula Creek at Nigger Canyon, near Temecula, Calif.

Location.- Water-stage recorder in the Pauba grant, at upper end of Nigger Canyon, a quarter of a mile below junction with Arroyo Seco and 10 miles east of Temecula, Riverside County. Altitude, about 1,350 feet.
Drainage area.- 319 square miles.
Records available.- January 1923 to September 1934.
Average discharge.- 11 years, 12.2 second-feet.
Extremes.- Maximum discharge during year, 45 second-feet Jan. 1 (gage height, 1.53 feet); minimum, 0.6 second-foot Aug. 17 (gage height, 0.70 foot).
1923-34: Maximum discharge, 17,100 second-feet Feb. 16, 1927 (gage height, 19.5 feet); minimum, that of Aug. 17, 1934.
Remarks.- Records good. No diversions above station. Results of discharge measurements furnished by Santa Margarita Ranch.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	2.0	2.0	16	3.5	5.5	2.8	2.8	1.8	1.3	1.0	1.1
2	1.8	2.0	2.2	21	3.7	5.5	3.3	2.8	1.8	1.3	1.0	1.0
3	1.8	2.0	2.4	9	3.7	4.8	3.5	2.6	1.8	1.3	1.0	1.0
4	1.8	2.0	2.4	6	4.0	4.5	3.5	2.6	1.8	1.3	1.1	1.0
5	1.7	2.0	2.6	4.8	4.2	4.0	3.3	2.6	1.8	1.3	1.1	1.0
6	1.7	2.0	2.8	4.0	4.2	4.0	3.1	2.4	2.0	1.3	1.1	1.0
7	1.7	2.0	2.8	3.7	4.2	4.0	3.1	2.4	1.8	1.3	1.1	1.0
8	1.7	2.0	2.8	3.5	4.5	4.0	3.1	2.4	1.8	1.3	1.1	1.0
9	1.7	2.0	2.8	3.3	4.5	3.7	2.8	2.2	1.8	1.1	1.1	1.0
10	1.7	2.2	2.8	3.3	4.5	3.7	2.6	2.2	1.8	1.1	1.1	1.0
11	1.7	2.2	2.6	3.3	4.5	3.7	2.4	2.2	1.8	1.1	1.0	1.0
12	1.7	2.2	2.6	3.3	5	3.5	2.2	2.2	1.8	1.1	.8	1.0
13	1.7	2.2	3.3	3.3	4.8	3.5	2.2	2.0	1.8	1.1	.8	1.0
14	1.7	2.2	3.3	3.3	4.2	3.5	2.2	1.8	1.6	1.1	.8	1.0
15	1.7	2.2	3.3	3.5	4.0	3.5	2.4	1.6	1.8	1.1	.8	1.0
16	1.5	2.2	3.3	3.7	4.0	3.3	2.4	1.7	1.6	1.1	.8	1.1
17	1.5	2.2	3.1	3.7	4.2	3.1	2.4	1.7	1.8	1.1	.8	1.1
18	1.5	2.2	2.8	3.7	4.2	3.1	2.2	1.7	1.8	1.1	.8	1.1
19	1.5	2.4	2.6	3.7	4.2	2.8	2.2	1.7	1.8	1.1	.8	1.1
20	1.5	2.4	2.6	3.7	4.2	2.8	2.4	1.8	1.8	1.1	1.0	1.1
21	1.5	2.4	2.6	3.7	4.2	2.8	2.4	1.7	1.8	1.3	1.0	1.1
22	1.5	2.2	2.6	3.7	4.8	2.6	2.4	1.7	1.7	1.3	.8	1.1
23	1.5	2.2	2.6	3.7	7.5	2.6	2.6	1.7	1.7	1.3	.8	1.1
24	1.5	2.2	2.8	4.5	17	2.8	2.8	1.8	1.5	1.3	.8	1.3
25	1.7	2.2	2.8	4.5	14	2.8	2.8	1.8	1.5	1.3	.8	1.3
26	1.7	2.2	3.1	4.5	9	2.8	2.8	1.8	1.3	1.3	.6	1.3
27	1.7	2.2	3.1	4.8	7	2.8	2.8	1.8	1.1	1.3	.6	1.3
28	1.7	2.0	3.1	5	6	2.6	2.8	1.8	1.1	1.1	.6	1.3
29	1.7	2.0	3.3	4.8		2.6	2.8	1.8	1.1	1.1	1.0	1.3
30	1.8	2.0	3.3	4.2		2.6	2.6	1.8	1.3	1.1	1.0	1.3
31	2.0		3.7	3.5		2.8		1.8		1.0	1.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.0	1.5	1.67	103
November	2.4	2.0	2.14	127
December	3.7	2.0	2.83	174
January	21	3.3	5.05	311
February	17	3.5	5.49	305
March	5.5	2.6	3.43	211
April	3.5	2.2	2.70	160
May	2.8	1.7	2.04	125
June	2.0	1.1	1.68	99.8
July	1.3	1.0	1.19	73.4
August	1.1	.8	.93	57.1
September	1.3	1.0	1.10	65.5
The year	21	.8	2.50	1,810

Temecula Creek at Railroad Canyon, near Temecula, Calif.

Location.- Water-stage recorder in the Temecula grant, one-eighth of a mile below junction with Murrieta Creek at upper end of Temecula or Railroad Canyon and 1½ miles south of Temecula, Riverside County. Altitude, about 950 feet.

Drainage area.- 592 square miles.

Records available.- January 1923 to September 1934.

Average discharge.- 11 years, 20.0 second-feet.

Extremes.- Maximum discharge during year, 54 second-feet Feb. 24 (gage height, 1.26 feet); minimum, 2.4 second-feet Aug. 8 (gage height, 0.57 foot).
1923-34: Maximum discharge, about 27,600 second-feet Feb. 16, 1927 (gage height, 15.00 feet); minimum, 0.4 second-foot July 16, 1925.

Remarks.- Records good. Discharge estimated Mar. 2-3. Pumping diversions regulate flow to a considerable extent during irrigation season. Gage-height record and results of discharge measurements furnished by Santa Margarita Ranch.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	6.5	7	32	9.5	10	6.5	5	3.9	4.1	2.8	2.8
2	5	6.5	7.5	24	9	11	6.5	4.8	3.7	4.0	2.8	2.8
3	5	6	7.5	14	9	10	6.5	4.6	3.7	4.0	2.7	2.9
4	5	6	7.5	11	9	9.5	6.5	4.6	3.9	4.0	2.7	3.0
5	4.8	6	7.5	10	9	8.5	6.5	4.6	5.5	4.0	3.0	2.9
6	5	6	7.5	10	9	8.5	6.5	4.6	5.5	4.3	2.9	2.9
7	5	6.5	7.5	9.5	9	8	6	4.6	5.5	4.2	2.7	3.0
8	5	7	8	9	9.5	8	6	4.5	5	3.7	2.6	3.1
9	5.5	7	8	8.5	9.5	8	6	4.2	4.8	3.7	2.9	3.3
10	5.5	7	7.5	9.5	9	8	6	4.0	5	3.6	3.2	3.4
11	6	7	7.5	9.5	9	8	6	4.0	5	3.6	3.1	3.3
12	5.5	6.5	7.5	9.5	9	8	6	4.0	4.8	3.8	3.0	3.6
13	5.5	6.5	12	9	9.5	8	6	3.9	4.8	4.2	3.0	3.2
14	6	6.5	14	9	9.5	8	6	3.9	5	4.3	3.0	3.3
15	6	6.5	10	9	9	8	6.5	3.7	5	4.2	2.9	3.4
16	5.5	6.5	10	8.5	9.5	8.5	6.5	3.6	4.8	4.2	2.9	3.3
17	5.5	7	9	8	9.5	8.5	6.5	3.6	4.5	3.8	2.9	3.2
18	5.5	7	9.5	8.5	9.5	8	6	3.7	4.4	4.0	3.0	3.1
19	5.5	7	9	9.5	9	8	6	3.7	4.5	4.0	3.3	3.1
20	5.5	7	9	9	10	8	6	3.7	4.6	3.7	3.2	3.2
21	5.5	7	9	9	8.5	8	6	3.7	4.5	3.6	3.0	3.3
22	5.5	7	9.5	9.5	11	8	6	3.9	4.4	3.6	3.0	3.4
23	6	7	9.5	9.5	14	8.5	5.5	4.2	4.5	3.6	3.0	3.6
24	6	7	9.5	10	39	8.5	5.5	4.1	4.8	3.4	3.1	3.6
25	6	7	9.5	9.5	23	8	5	3.9	4.8	3.4	3.2	3.6
26	6	7	9.5	9.5	12	7.5	4.8	3.9	4.6	3.2	3.1	3.6
27	5.5	7	9.5	9	11	7	4.5	3.9	4.5	3.0	3.0	3.7
28	5.5	7	9	9.5	10	7	4.5	3.9	4.4	3.1	3.0	3.7
29	6	7.5	9.5	10		6.5	4.6	3.9	4.2	3.0	3.0	3.6
30	6	7.5	10	10		6.5	4.6	3.9	4.1	2.9	3.0	3.4
31	7		26	10		6.5		4.0		2.8	3.0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	7	4.8	5.57	343
November	7.5	6	6.77	403
December	26	7	9.47	582
January	32	8	10.7	660
February	39	8.5	11.2	622
March	11	6.5	8.15	501
April	6.5	4.5	5.85	348
May	5.0	3.6	4.08	251
June	5.5	3.7	4.62	275
July	4.3	2.8	3.71	228
August	3.3	2.6	2.97	182
September	3.7	2.8	3.28	195
The year	39	2.6	6.34	4,590

Santa Margarita River near Fall Brook, Calif.

Location.- Water-stage recorder in sec. 12, T. 9 S., R. 4 W., 2 miles north of Fall Brook. Altitude, about 350 feet.

Drainage area.- 645 square miles.

Records available.- November 1924 to September 1934.

Extremes.- Maximum discharge during year, 205 second-feet Jan. 1 (gage height, 4.15 feet); minimum, 1.0 second-foot Aug. 1 (gage height, 2.52 feet).
1924-34: Maximum discharge, about 33,100 second-feet Feb. 16, 1927 (gage height, 15.6 feet); minimum 0.1 second-foot Aug. 30, 1925, Sept. 4, 1926, Sept. 6, 1928, July 22-26, Aug. 4, 5, 8-14, 1929.

Remarks.- Records good. Discharge estimated Oct. 19-20. Considerable diversions from streams in Temecula Valley and pumping above station. Results of discharge measurements furnished by Santa Margarita Ranch.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	6	7.5	124	10	11	7	4.4	3.2	3.6	1.4	2.2
2	4.4	6	7.5	63	10	11	7.5	4.4	3.2	3.6	1.4	2.2
3	4.0	5.5	7.5	25	10	10	7	4.4	3.2	3.4	1.5	2.2
4	3.8	6	8	16	10	10	6.5	4.4	3.4	3.4	1.7	2.2
5	3.4	6	8	15	10	10	6.5	4.4	4.8	3.2	1.8	2.0
6	3.6	6	7.5	13	10	10	6	4.4	6	3.2	1.8	1.9
7	4.0	6	7.5	12	10	10	5.5	4.2	5.5	3.6	1.8	2.0
8	4.4	6	7.5	11	10	9.5	5.5	4.0	4.6	3.2	1.7	2.3
9	4.8	6.5	7.5	11	10	9.5	5.5	3.8	4.8	3.0	1.7	2.6
10	5.5	6.5	7.5	11	10	9.5	5.5	3.6	4.8	2.5	1.9	2.6
11	5.5	6.5	7.5	11	10	9.5	5.5	3.2	4.6	2.3	1.9	2.6
12	5.5	6.5	8.5	11	10	10	5.5	3.0	4.4	2.3	1.9	2.8
13	5	6.5	13	11	9.5	9.5	5.5	3.0	4.2	2.6	1.9	2.5
14	5.5	6.5	19	11	9.5	9	6	3.0	4.2	2.9	1.9	2.3
15	5.5	6.5	14	10	9.5	9	6	2.9	4.6	3.2	2.0	2.2
16	5.5	7	12	10	10	9	6.5	2.8	4.6	3.2	2.0	2.5
17	4.8	7	10	10	10	9	6.5	2.8	4.4	2.9	2.0	2.4
18	4.6	7	9.5	10	10	8.5	6	2.8	4.2	2.6	2.0	2.0
19	4.6	7	9	10	10	8.5	5.5	2.9	4.0	2.6	2.3	1.9
20	4.6	7	9	10	13	8.5	5.5	2.9	3.8	2.8	2.8	1.9
21	5	7	9.5	10	11	8	5.5	3.0	4.0	2.8	2.6	2.0
22	5	7	9	10	11	8	8	3.0	3.8	2.6	2.5	2.4
23	5	7	9	11	15	8.5	5.5	2.9	3.8	2.6	2.4	2.9
24	5.5	7	9.5	11	41	9.5	5.5	3.0	4.2	2.6	2.4	3.2
25	5.5	7	9.5	12	32	9	5.5	3.2	4.0	2.3	2.4	3.2
26	5.5	7	9.5	11	20	8.5	4.8	3.2	4.4	2.2	2.5	3.2
27	5.5	7	9.5	10	15	8	4.8	3.2	3.8	1.9	2.6	3.0
28	5.5	7.5	9.5	10	13	7.5	4.6	3.2	3.4	1.7	2.5	2.8
29	6	7.5	9.5	10		7.5	4.4	3.2	3.4	1.6	2.3	2.6
30	6	7.5	10	10		7.5	4.4	3.2	3.4	1.5	2.3	2.8
31	6.5		36	10		7		3.2		1.4	2.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	6.5	3.4	5.01	308
November	7.5	5.5	6.65	396
December	36	7.5	10.3	631
January	124	10	16.8	1,030
February	41	9.5	12.8	713
March	11	7	9.03	555
April	7.5	4.4	5.73	341
May	4.4	2.8	3.41	209
June	6	3.2	4.18	249
July	3.6	1.4	2.69	165
August	2.8	1.4	2.07	127
September	3.2	1.9	2.45	146
The year	124	1.4	6.73	4,870

Santa Margarita River at Ysidora, Calif.

Location.- Water-stage recorder in Santa Margarita y Las Flores grant, about 2 miles above mouth and 1 mile below Ysidora, San Diego County. Altitude, about 15 feet.

Drainage area.- 740 square miles.

Records available.- February 1923 to September 1929, October 1930 to September 1934.

Extremes.- Maximum discharge, 1,660 second-feet Jan. 1 (gage height, 4.08 feet); minimum, 0.2 second-foot Aug. 3-5 and 9-14.
1923-29, 1930-34: Maximum discharge, about 33,600 second-feet Feb. 16, 1927; no flow part of most years.

Remarks.- Records good. Discharge estimated Aug. 28-31. Considerable water diverted above for irrigation by Pauba and Santa Margarita Ranches. See record for O'Neill Ditch, which diverts water above station. Gage-height record and results of discharge measurements furnished by Santa Margarita Ranch.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	1.8	1.8	785	3.4	22	2.8	1.6	1.0	0.7	0.3	0.3
2	1.3	1.4	1.6	319	3.4	19	3.0	1.4	1.0	.7	.3	.3
3	1.3	1.3	1.6	112	3.4	18	2.8	1.3	1.0	.7	.2	.3
4	1.3	1.3	1.6	72	3.6	16	3.4	1.1	1.0	.7	.2	.3
5	1.2	1.2	1.6	53	3.9	16	3.4	1.3	2.0	.7	.2	.4
6	1.2	1.1	1.6	42	3.9	14	3.4	1.6	2.0	.7	.3	.4
7	1.2	1.1	1.6	34	3.9	11	3.4	1.5	1.4	.7	.3	.4
8	1.3	1.1	1.6	27	3.9	e	3.4	1.5	1.4	.6	.3	.4
9	1.3	1.1	1.6	15	3.9	6.5	3.2	1.5	1.3	.6	.2	.4
10	1.3	1.2	1.6	12	3.9	5.5	3.0	1.4	1.3	.6	.2	.4
11	1.4	1.2	1.6	10	3.9	5.5	2.e	1.4	1.1	.6	.2	.4
12	1.4	1.2	1.8	9	3.9	4.8	2.6	1.4	1.1	.6	.2	.4
13	1.4	1.2	5	8.5	3.9	4.6	2.6	1.4	1.0	.6	.2	.4
14	1.4	1.2	13	7.5	4.1	4.6	2.6	1.4	1.1	.6	.2	.4
15	1.4	1.3	14	7	3.9	4.6	2.6	1.3	1.1	.6	.4	.4
16	1.4	1.4	11	5.5	3.9	4.6	2.6	1.3	1.1	.5	.6	.4
17	1.3	1.4	e	6	3.9	4.4	2.6	1.3	1.1	.5	.e	.4
18	1.3	1.4	7	6	3.9	3.9	2.2	1.1	1.1	.5	.8	.4
19	1.3	1.4	5.5	5.5	3.6	3.6	2.0	1.1	1.1	.5	.6	.4
20	1.3	1.4	5	5.5	5	3.4	2.0	1.1	1.1	.5	.6	.4
21	1.3	1.3	5	5.5	4.4	3.2	1.8	1.1	1.1	.5	.5	.4
22	1.4	1.3	5	5	4.1	3.2	1.4	1.1	1.1	.4	.6	.4
23	1.4	1.2	5	5.5	5.5	3.2	1.4	1.0	1.1	.4	.6	.4
24	1.6	1.2	5	5.5	14	4.6	1.4	1.0	1.4	.4	.5	.4
25	1.6	1.1	5	5.5	64	3.9	1.3	1.0	1.3	.4	.4	.4
26	1.8	1.1	5	4.8	40	3.6	1.3	1.0	1.1	.4	.4	.4
27	1.8	1.2	5	4.4	30	3.2	1.3	1.0	1.1	.3	.4	.5
28	1.6	1.3	5.5	4.4	25	3.0	1.3	1.0	1.0	.3	.4	.5
29	1.6	1.6	5.5	4.4		2.6	1.4	1.0	.9	.3	.4	.5
30	1.6	1.6	5	3.9		2.6	1.4	1.0	.e	.3	.3	.5
31	1.8		46	3.6		2.8		1.0		.3	.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.8	1.2	1.42	87.1
November	1.8	1.1	1.29	76.6
December	46	1.6	5.96	367
January	785	3.6	51.5	3,160
February	64	3.4	9.44	524
March	22	2.6	6.96	428
April	3.4	1.3	2.35	140
May	1.6	1.0	1.23	75.e
June	2.0	.8	1.17	69.8
July	.7	.3	.52	32.1
August	.8	.2	.38	23.6
September	.5	.3	.40	23.8
The year	785	.2	6.92	5,010

Murrieta Creek at Temecula, Calif.

Location.- Water-stage recorder on Temecula grant, 100 feet above junction with Temecula Creek and 1 mile south of Temecula, Riverside County. Altitude, about 1,050 feet.

Drainage area.- 220 square miles.

Records available.- October 1930 to September 1934.

Extremes.- Maximum discharge during year, 23 second-feet Feb. 24 (gage height, 1.23 feet); minimum, 0.2 second-foot at various times.
1930-34: Maximum discharge, 7,500 second-feet Feb. 16, 1932 (gage height, 7.76 feet); minimum, 0.2 second-foot during summers 1931, 1933, 1934.

Remarks.- Records good. Discharge estimated Apr. 27-30, June 16-27. Gage-height record and measurements furnished by Santa Margarita Ranch.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.3	0.4	9	1.0	1.4	0.5	0.3	0.3	0.2	0.2	0.2
2	.2	.3	.4	5	1.0	1.3	.5	.3	.3	.2	.2	.2
3	.2	.3	.4	2.5	1.0	1.2	.5	.3	.3	.2	.2	.2
4	.2	.3	.4	1.7	1.0	1.1	.5	.3	.3	.2	.2	.2
5	.2	.3	.4	1.4	1.0	1.1	.5	.3	.4	.2	.2	.2
6	.3	.3	.4	1.3	1.0	1.0	.5	.3	.3	.2	.2	.2
7	.3	.3	.4	1.2	1.0	1.0	.4	.3	.3	.2	.2	.2
8	.3	.3	.4	1.0	1.0	.9	.4	.3	.3	.2	.2	.2
9	.3	.3	.4	1.0	1.0	.9	.4	.3	.3	.2	.2	.2
10	.3	.3	.4	1.0	1.0	.8	.4	.3	.3	.2	.2	.2
11	.3	.3	.4	1.0	.9	.8	.4	.3	.3	.2	.2	.2
12	.3	.3	.4	1.0	.7	.8	.4	.3	.3	.2	.2	.2
13	.3	.3	1.1	1.0	.7	.8	.4	.3	.3	.2	.2	.2
14	.3	.3	2.0	1.0	.8	.8	.4	.3	.3	.2	.2	.2
15	.3	.3	1.4	.9	.8	.7	.4	.3	.3	.2	.2	.2
16	.3	.3	1.1	1.0	.8	.7	.4	.3	.3	.2	.2	.2
17	.3	.3	.9	1.0	.8	.7	.4	.3	.3	.2	.2	.2
18	.3	.3	.8	.9	.8	.7	.4	.3	.3	.2	.2	.2
19	.3	.3	.7	.9	.8	.7	.4	.3	.3	.2	.3	.2
20	.3	.3	.7	.9	.9	.7	.4	.3	.3	.2	.2	.2
21	.3	.3	.7	1.0	1.1	.7	.4	.3	.3	.2	.2	.3
22	.3	.3	.8	1.1	1.1	.7	.4	.3	.2	.2	.2	.3
23	.2	.3	.8	1.2	1.8	.7	.4	.3	.2	.2	.2	.3
24	.3	.3	.8	1.2	14	.7	.3	.3	.2	.2	.2	.3
25	.3	.3	.7	1.1	9	.8	.3	.3	.2	.2	.2	.3
26	.3	.3	.7	1.1	3.1	.8	.3	.3	.2	.2	.2	.3
27	.3	.3	.8	1.0	1.9	.8	.3	.3	.2	.2	.2	.2
28	.3	.4	.8	1.0	1.6	.7	.3	.3	.2	.2	.2	.2
29	.3	.4	.8	.9		.6	.3	.3	.2	.2	.2	.2
30	.3	.4	.8	.9		.5	.3	.3	.2	.2	.2	.2
31	.3		3.5	1.0		.5		.3		.2	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.3	0.2	0.28	17.3
November	.4	.3	.31	18.4
December	3.5	.4	.80	49.0
January	9	.9	1.49	91.6
February	14	.7	1.84	102
March	1.4	.5	.83	51.0
April	.5	.3	.40	23.6
May	.3	.3	.30	18.4
June	.4	.2	.27	16.3
July	.2	.2	.20	12.3
August	.3	.2	.20	12.5
September	.3	.2	.22	13.1
The year	14	.2	.59	426

O'Neill Ditch near Ysidora, Calif.

Location.- Water-stage recorder 100 feet above discharge into O'Neill Reservoir and 6 miles northeast of Ysidora.

Records available.- October 1930 to September 1934.

Remarks.- Records good. Gage-height record and measurements furnished by Santa Margarita Ranch. This ditch diverts from Santa Margarita River.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.7			0	12.4	0	6.7	3.2	1.8	1.5	0.1	0.1
2	2.4			0	12.1	0	7.1	3.1	1.7	1.5	.1	.1
3	2.0			0	11.7	0	6.6	3.0	1.6	1.5	.1	.1
4	1.6			0	11.4	0	6.1	2.8	2.0	1.5	.1	.1
5	1.4			0	11.4	0	6.0	2.6	7.1	1.4	.1	.1
6	1.6			0	12.1	* 8.7	5.8	2.6	5.5	1.2	.1	.1
7	1.7			0	11.9	*13	5.5	2.5	4.3	1.1	.1	.1
8	2.0			* 7.4	11.4	12.6	5.0	2.5	3.6	1.0	.1	.1
9	2.6			*16.2	11.2	11.2	5.0	2.1	3.5	1.0	.1	.1
10	2.9			*15.7	10.7	10.5	5.0	1.8	3.5	.9	.1	.1
11	3.5			*15.3	10.1	10.5	5.0	1.6	3.1	.5	.1	.3
12	3.4			*14.8	10.1	10.5	5.2	1.6	2.8	.3	.1	.4
13	3.1			*14.5	9.9	10.7	5.5	1.6	2.5	.3	.1	.4
14	3.0			*14.1	9.8	9.9	6.0	1.6	2.8	.6	.1	.2
15	2.9			14.1	11.0	9.4	6.3	1.4	3.1	1.1	.1	.3
16	2.9			13.3	12.6	9.4	6.6	1.2	3.2	1.3	.1	.3
17	2.4			12.8	11.7	9.1	6.3	1.1	3.2	1.2	.1	.2
18	1.9			12.1	10.3	8.7	*6.0	1.1	3.0	1.0	.1	.2
19	1.7			12.1	12.8	8.6	*5.5	1.3	2.5	.6	.1	.1
20	2.1			12.4	24	8.4	*5.0	1.3	2.0	.7	.1	.1
21	2.5			12.4	15.0	8.4	4.6	1.4	3.1	.5	.1	.1
22	2.9			12.1	15.6	8.4	4.6	1.5	2.5	.3	.1	.1
23	3.1			11.9	5.8	10.7	4.6	1.5	2.5	.2	.1	.5
24	3.1			12.6	0	14.4	4.5	1.6	3.1	.3	.1	1.4
25	3.2			12.8	0	10.8	4.5	1.6	3.2	.3	.1	1.4
26	3.3			12.0	0	9.4	3.9	1.6	2.7	.2	.2	1.2
27	3.5			12.4	0	8.4	3.5	1.6	2.0	.2	.2	1.2
28	3.7			11.9	0	7.7	3.3	1.6	1.6	.2	.3	1.1
29	3.8			11.9		7.4	3.3	1.4	1.6	.1	.3	.9
30	4.1			12.1		6.9	3.2	1.5	1.6	.1	.3	.3
31	3.8			12.4		6.6		1.8		.1	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4.1	1.4	2.74	168
November	0	0	0	0
December	0	0	0	0
January	16.2	0	10.0	615
February	24	0	9.82	545
March	14.4	0	8.07	496
April	7.1	3.2	5.21	310
May	3.2	1.1	1.84	113
June	7.1	1.6	2.89	172
July	1.5	.1	.73	45.0
August	.3	.1	.13	7.9
September	1.4	.1	.39	23.0
The year	24	0	3.45	2,490

*Estimated.

NOTE.- No flow during months left blank.

San Juan Creek at San Juan Capistrano, Calif.

Location.- Water-stage recorder in Mission Viejo grant, on Ortego State highway bridge 2 miles east of San Juan Capistrano, Orange County. Altitude, about 170 feet. Prior to Feb. 28, 1934, in NE¼ sec. 12, T. 8 S., R. 8 W., 300 feet upstream from State highway bridge and half a mile south of San Juan Capistrano.

Drainage area.- 117 square miles (at site used prior to Feb. 28, 1934).

Records available.- October 1928 to September 1934.

Extremes.- Maximum discharge during year, 318 second-feet Jan. 1 (gage height, 2.95 feet); no flow for several months.
1928-34: Maximum discharge, about 1,230 second-feet Mar. 16, 1930; no flow during summers.

Remarks.- Records fair. Irrigation diversion above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	230	2.5	2.8	1.0		0			
2			0	80	3.0	2.6	1.0		0			
3			0	19	3.0	2.4	.5		0			
4			0	11	3.0	2.4	.3		0			
5			0	7.5	3.0	2.4	.3		* .3			
6			0	7	3.0	2.4	.3		* .6			
7			0	7	3.0	2.2	.2		* .6			
8			0	7	3.0	2.2	.2		* .3			
9			0	7	3.0	2.2	.2		* .1			
10			0	7.5	2.5	2.2	.2		* .1			
11			0	7	2.2	2.1	.2		0			
12			0	6.5	2.2	2.2	.2		0			
13			0	6.5	1.8	2.2	.3		0			
14			0	6	1.8	2.2	.2		0			
15			0	6.5	1.8	2.6	.2		0			
16			0	6	1.8	2.8	.2		0			
17			0	5.5	1.8	1.4	.2		0			
18			0	5	1.5	2.0	.2		0			
19			0	5	1.8	*2.6	.2		0			
20			0	5	2.5	*2.6	.2		0			
21			0	4.8	2.5	1.8	.3		0			
22			0	4.8	2.5	1.0	.3		0			
23			0	4.8	5.5	*1.0	.3		0			
24			0	4.8	7.5	*2.6	.4		0			
25			0	4.3	4.3	*2.0	* .2		0			
26			0	4.3	3.4	1.5	* .1		0			
27			0	3.4	3.0	1.3	* .1		0			
28			0	3.0	3.1	1.2	* .1		0			
29			0	3.4		1.2	* .1		0			
30			0	3.4		1.2	* .1		0			
31			26	3.0		1.2						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	26	0	.84	52
January	230	3.0	15.7	964
February	7.5	1.8	2.86	159
March	2.8	1.0	2.02	124
April	1.0	.1	.28	16.5
May	0	0	0	0
June	.6	0	.07	4.0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	230	0	1.82	1,320

*Estimated.

Note:--No flow during months left blank.

Trabuco Creek near San Juan Capistrano, Calif.

Location.- Water-stage recorder in SW¼ sec. 25, T. 7 S., R. 8 W., on State highway bridge 1½ miles north of San Juan Capistrano.

Drainage area.- 36.5 square miles.

Records available.- October 1930 to September 1934.

Extremes.- Maximum discharge during year, 63 second-feet Jan. 1 (gage height, 4.3 feet); no flow part of year.
1930-34: Maximum discharge, 381 second-feet Feb. 8, 1932; no flow part of each year.

Remarks.- Records furnished by Orange County Flood Control District.

Discharge, in second-feet, 1933-34

Dec. 31	7.5	Feb. 19	0.1	Feb. 23	0.2
Jan. 1	27	Feb. 20	.1	Feb. 24	.2
Jan. 2	2.6	Feb. 22	.3		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	7.5	0	.24	14.9
January	27	0	.96	58.7
February	.3	0	.03	1.8
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	27	0	.10	75.4

Note.- No flow during year except for days given above.

ALISO CREEK BASIN

Aliso Creek at El Toro, Calif.

Location.- Water-stage recorder in the Canada de Los Alisos grant on Second Street Bridge, at El Toro, Orange County.

Drainage area.- 8.5 square miles.

Records available.- October 1930 to September 1934.

Extremes.- Maximum discharge during year, 495 second-feet Jan. 1 (gage height, 6.35 feet); no flow at times.
1930-34: Maximum discharge, 508 second-feet Feb. 1, 1932; no flow most of each year.

Remarks.- Records furnished by Orange County Flood Control District.

Discharge, in second-feet, 1933-34

Dec. 31	13	Feb. 24	9	Mar. 24	0.5
Jan. 1	48	Feb. 25	1.0	Mar. 25	.1
Jan. 2	1.0	Feb. 26	.1		
Jan. 3	.1	Mar. 23	5.5		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	13	0	.42	25.8
January	48	0	1.58	97.4
February	9	0	.36	20.0
March	5.5	0	.20	12.1
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	48	0	.21	155

Note.- No flow during year except for days given above.

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Santa Ana River near Mentone, Calif.

Location.- Water-stage recorder in SW¼ sec. 4, T. 1 S., R. 2 W., near mouth of canyon, a quarter of a mile above Southern California Edison Co.'s Mentone power plant, and 3½ miles northeast of Mentone. Altitude, about 1,900 feet.

Drainage area.- 189 square miles.

Records available.- July 1896 to September 1934.

Average discharge.- 32 years (1896-1901, 1905-9, 1910-15, 1916-34), 36.8 second-feet. Average combined discharge of Santa Ana River and canals, 33 years (1896-98, 1902-15, 1916-34), 89.8 second-feet.

Extremes.- Maximum discharge during year, 1,880 second-feet Dec. 31 (gage height, 5.50 feet); no flow during part of year.
1896-1934: Maximum discharge, 29,100 second-feet Jan. 27, 1916; no flow during part of 1932, 1933, 1934.

Remarks.- Records good. Discharge estimated Dec. 20-24, 30, Apr. 17 to May 31. Storage at Bear Valley Reservoir and diversions above station. Sum of discharge in river, Mentone power plant's tailrace, and Greenspot pipe line is given in table on next page.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	1,020	1.2	2.4	0.6	0.1	0.1			
2			0	144	1.2	2.1	.6	.1	.1			
3			0	75	1.4	2.1	.4	.1	.1			
4			0	31	1.4	2.1	.4	.1	.1			
5			0	20	1.4	2.1	.4	.1	.5			
6			0	15	1.4	2.1	.4	.1	.5			
7			0	8.5	1.4	2.1	.4	.1	.2			
8			0	5.5	1.4	2.1	.4	.1	.1			
9			0	1.9	1.6	2.1	.4	.1	.1			
10			0	1.4	1.6	2.1	.4	.1	.1			
11			0	1.4	1.6	2.1	.4	.1	.1			
12			0	1.4	1.4	1.9	.4	.1	.1			
13			62	1.4	1.2	1.9	.4	.1	.1			
14			12	1.4	1.1	1.9	.4	.1	.1			
15			6	1.2	1.1	1.9	.4	.1	.1			
16			11	1.1	1.1	1.9	.4	.1	.1			
17			3.2	1.1	.9	1.8	.3	.1	.1			
18			1.9	1.1	.9	1.6	.3	.1	.1			
19			.9	1.1	.9	1.6	.3	.1	.1			
20			.3	1.1	1.8	1.6	.3	.1	0			
21			.2	1.1	1.2	1.8	.3	.1	0			
22			.2	1.1	1.2	1.8	.3	.1	0			
23			.2	1.1	18	1.9	.2	.1	0			
24			.1	1.2	14	2.1	.2	.1	0			
25			0	1.2	6	1.2	.2	.1	0			
26			0	1.1	4.0	.9	.2	.1	0			
27			0	1.1	3.4	.7	.2	.1	0			
28			0	1.2	2.9	.4	.2	.1	0			
29			0	1.2		.4	.2	.1	0			
30			5	1.2		.4	.1	.1	0			
31			718	1.2		.4		.1	0			

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	718	0	26.5	1,630
January	1,020	1.1	43.5	2,670
February	18	.9	2.74	152
March	2.4	.4	1.66	102
April	.6	.1	.34	20.0
May	.1	.1	.10	6.1
June	.5	0	.09	5.6
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	1,020	0	6.34	4,590

NOTE:--No flow during months left blank.

Santa Ana River near Mentone, Calif.

(Continued)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	39	33	1,080	27	38	29	31	37	35	37	39
2	52	41	31	215	27	38	29	33	37	35	39	41
3	54	41	29	132	27	36	29	35	37	37	41	41
4	54	41	29	107	27	36	31	35	37	39	41	39
5	54	39	29	96	27	36	31	35	38	39	41	41
6	54	41	27	72	27	35	29	35	42	39	43	41
7	54	37	27	60	27	34	29	35	39	41	43	41
8	54	37	26	50	27	34	29	35	39	41	43	41
9	52	37	26	50	26	33	29	36	39	41	43	39
10	54	39	27	45	26	32	29	36	39	41	44	39
11	50	39	26	41	26	32	29	36	39	41	44	37
12	52	39	27	41	25	32	29	36	35	41	44	37
13	50	39	148	40	27	32	29	36	35	39	44	37
14	50	39	41	38	27	32	33	36	35	41	44	39
15	48	39	45	38	27	30	33	36	37	41	43	37
16	48	41	51	34	29	32	33	36	35	41	43	39
17	50	41	30	34	29	32	33	38	35	41	43	39
18	50	39	29	34	31	32	33	38	35	43	43	39
19	50	39	29	34	31	32	31	38	35	43	39	39
20	50	37	26	34	51	34	31	38	35	43	41	39
21	50	37	24	32	31	34	31	36	35	43	43	39
22	50	35	24	32	31	34	31	36	33	43	41	39
23	48	35	24	32	65	36	33	36	33	39	41	39
24	48	35	24	34	91	36	29	36	35	35	41	35
25	48	37	24	32	59	35	29	37	33	35	41	33
26	48	39	24	30	47	35	29	37	35	39	41	37
27	47	42	26	30	44	35	31	37	33	37	39	33
28	50	41	23	28	41	32	31	37	35	37	39	33
29	50	37	24	28		32	31	37	35	39	39	30
30	48	37	28	27		32	31	37	35	41	39	33
31	47		758	27		32		39		37	37	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	54	47	5.05	3,110
November	42	35	38.6	2,300
December	758	23	56.0	3,450
January	1,080	27	84.1	5,170
February	91	25	35.0	1,940
March	38	30	33.7	2,070
April	33	29	30.4	1,810
May	39	31	36.1	2,220
June	42	33	36.1	2,150
July	43	35	39.6	2,430
August	44	37	41.4	2,550
September	41	30	37.8	2,250
The year	1,080	23	43.4	31,450

Santa Ana River near San Bernardino, Calif.

Location.- Water-stage recorder in the San Bernardino grant, a quarter of a mile upstream from the Tippecanoe Street Bridge and 2⅛ miles southeast of San Bernardino, San Bernardino County. Altitude, about 1,040 feet.

Records available.- October 1928 to September 1934.

Extremes.- Maximum discharge during year, 744 second-feet Jan. 1 (gage height, 3.90 feet); no flow most of year.

1928-34: Maximum discharge, 2,400 second-feet Feb. 9, 1932 (gage height, 4.15 feet); no flow most of each year.

Remarks.- Records fair. Storage at Bear Valley Reservoir. During irrigation season entire flow of Santa Ana River and Mill Creek diverted by Bear Valley Mutual Water Co. and associated companies. At times Gage Canal diverts directly above station. During periods of high water the Water Conservation Association diverts at Mentone for spreading purposes.

Discharge, in second-feet, 1933-34

Dec. 13	26	Dec. 31	76	Jan. 2	*50
Dec. 14	5	Jan. 1	383		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	76	0	3.5	212
January	383	0	14.0	859
February	0	0	0	0
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	383	0	1.5	1,070

*Estimated.

Note.- No flow during year except for days given above.

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

Location.- Water-stage recorder in the Jurupa grant, half a mile below Union Pacific Railroad bridge and 3 miles north of Arlington, Riverside County.

Records available.- January 1929 to September 1934.

Extremes.- Maximum discharge during year, 1,820 second-feet Jan. 1 (gage height, 5.90 feet); minimum, 23 second-feet July 30.
1929-34: Maximum discharge, 4,740 second-feet Dec. 29, 1931; minimum, that of July 30, 1934.

Remarks.- Records good. Numerous diversions (see Santa Ana River at San Bernardino, Calif.).

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	34	32	778	37	38	33	28	29	28	25	26
2	28	35	32	147	38	38	33	28	30	28	25	26
3	28	35	32	56	38	38	33	28	31	28	25	26
4	28	35	32	46	40	39	33	28	31	29	25	26
5	28	35	32	* 45	40	40	33	26	32	29	26	26
6	28	36	31	* 44	40	40	33	29	31	29	26	27
7	29	34	31	* 43	40	40	33	30	30	28	25	27
8	30	33	31	* 42	40	40	33	30	29	28	25	27
9	30	33	31	41	39	38	33	30	29	28	26	27
10	31	33	31	* 40	37	38	33	29	28	28	26	27
11	31	33	31	* 39	37	38	33	29	28	26	26	26
12	31	34	30	* 38	36	36	*33	29	28	26	26	26
13	32	33	*30	* 38	*37	36	33	29	28	27	26	26
14	32	34	*49	* 37	*37	35	33	29	28	27	26	27
15	33	36	36	37	38	34	33	29	28	27	26	27
16	34	36	34	38	38	35	33	28	28	27	26	28
17	33	35	*34	39	38	35	32	28	28	27	25	29
18	34	34	*35	40	37	35	31	28	28	27	26	28
19	33	33	35	40	37	35	31	27	28	27	26	28
20	33	33	*35	40	38	35	31	27	28	27	26	28
21	33	32	42	40	40	35	31	27	28	27	26	28
22	32	31	36	40	42	35	31	27	28	27	26	28
23	31	31	37	40	49	34	31	27	29	27	26	28
24	32	31	37	40	84	*32	30	27	29	27	26	28
25	30	31	37	40	51	*32	30	27	29	27	26	28
26	31	32	38	38	48	34	29	28	30	26	26	28
27	31	32	39	37	45	35	28	27	29	26	26	30
28	31	32	39	38	40	35	28	28	29	26	27	30
29	32	32	39	36		*32	28	28	28	26	27	31
30	32	32	42	37		32	28	28	28	25	27	33
31	34		52	37		32		29		25	26	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	34	28	31.1	1,910
November	36	31	33.3	1,980
December	52	30	35.5	2,190
January	778	36	67.5	4,150
February	84	36	41.5	2,300
March	40	32	35.8	2,200
April	33	28	31.6	1,880
May	30	27	28.2	1,730
June	32	28	28.9	1,720
July	29	25	27.1	1,670
August	27	25	25.9	1,590
September	33	26	27.7	1,650
The year	778	25	34.5	24,970

*Estimated.

Santa Ana River at Hamner Avenue, near Corona, Calif.

Location.- Water-stage recorder in Jurupa grant, 1 mile above Hamner Avenue and 5 miles north of Corona.

Records available.- May 1930 to November 1934, irrigation seasons only.

Remarks.- Records good.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.				May	June	July	Aug.	Sept.	Oct.	Nov.
1	25	26				27	24	23	19	18	24	32
2	23	26				30	24	24	19	19	23	33
3	21	29				27	24	25	18	15	21	40
4	18	29				27	21	26	19	16	23	40
5	20	27				25	25	26	18	19	23	42
6	21	29				27	26	27	19	20	24	*35
7	24	29				27	24	26	19	20	24	29
8	22	30				30	24	25	18	21	25	30
9	24	29				27	23	23	20	20	24	32
10	24	30				29	24	21	20	19	22	30
11	23	30				29	24	17	20	20	22	29
12	22	29				26	24	17	19	21	22	33
13	22	27				29	25	19	18	20	23	32
14	22	30				26	26	20	17	19	22	33
15	24	30				23	25	18	17	18	25	32
16	23	27				23	26	20	16	19	24	42
17	23	29				24	29	19	17	22	27	35
18	21	27				23	30	19	16	21	*96	37
19	23	30				24	27	18	21	20	39	40
20	23	32				24	29	20	20	20	29	33
21	24	32				24	26	*20	19	23	30	32
22	24	32				25	26	*20	18	22	33	33
23	25	35				24	27	20	19	24	30	35
24	26	33				25	27	21	21	25	30	40
25	26	35				24	27	19	18	26	29	35
26	25	37				23	25	18	19	26	29	33
27	29	39				24	25	15	19	26	30	35
28	27	39				25	22	16	18	26	30	33
29	27	37				24	22	17	18	24	30	35
30	27	36				24	22	17	19	25	30	35
31	29					24		17	17		33	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1933				
October	29	18	23.8	1,460
November	39	26	31.0	1,840
1934				
May	30	23	25.6	1,570
June	30	21	25.1	1,490
July	27	15	20.4	1,260
August	21	16	18.5	1,140
September	26	15	21.1	1,260
October	98	21	29.0	1,760
November	42	29	34.5	2,050
The period				10,550

*Estimated.

Santa Ana River at Auburndale Bridge, near Corona, Calif.

Location.- Water-stage recorder in Jurupa grant, at Auburndale Bridge, 4 miles northwest of Corona, Riverside County.

Records available.- May 1930 to November 1934, irrigation seasons only.

Remarks.- Records good.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.				May	June	July	Aug.	Sept.	Oct.	Nov.
1	42	45				43	43	37	32	31	34	50
2	41	43				43	44	36	33	32	35	53
3	39	43				43	45	39	34	30	35	58
4	36	46				42	45	39	32	29	37	58
5	34	43				39	47	41	35	31	38	61
6	35	45				42	46	41	34	31	40	57
7	36	45				46	43	38	34	31	40	52
8	39	46				47	43	39	34	34	39	50
9	39	46				49	43	38	36	33	38	55
10	38	47				49	42	37	35	33	36	52
11	39	45				44	42	36	35	34	36	50
12	38	47				40	40	36	34	32	36	53
13	38	45				41	41	35	31	33	38	53
14	39	44				44	42	35	31	31	37	53
15	40	46				42	40	34	32	31	40	56
16	39	46				39	40	35	30	29	40	65
17	37	46				41	40	35	31	31	47	62
18	38	45				42	41	36	30	29	*107	62
19	38	47				42	39	36	36	30	66	72
20	40	46				40	39	36	36	29	52	64
21	41	49				40	39	37	35	31	47	58
22	41	46				43	37	36	34	34	51	58
23	44	50				45	39	38	35	34	50	60
24	42	47				44	38	37	37	34	45	61
25	45	50				43	41	36	34	35	46	58
26	42	50				42	38	32	33	37	49	56
27	44	50				43	36	29	33	36	46	56
28	45	56				44	34	31	33	36	49	55
29	44	53				42	34	31	33	36	51	55
30	45	52				43	35	31	32	34	47	56
31	46					42		31	32		49	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1933				
October	46	34	40.1	2,470
November	56	43	47.0	2,800
1934				
May	49	39	42.9	2,640
June	47	34	40.5	2,410
July	41	29	35.7	2,200
August	37	30	33.4	2,050
September	37	29	32.4	1,930
October	107	34	45.2	2,780
November	72	50	57.0	3,390
The period				17,400

*Estimated.

Santa Ana River at Atchison, Topeka & Santa Fe Railway bridge near Prado, Calif.

Location.- Water-stage recorder in La Sierra grant, half a mile below Atchison, Topeka & Santa Fe Railway bridge and 1½ miles southwest of Prado, Riverside County.

Records available.- May 1930 to November 1934, irrigation seasons only.

Remarks.- Records good.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.				May	June	July	Aug.	Sept.	Oct.	Nov.
1	58	64				62	56	49	42	43	49	61
2	56	62				62	56	49	42	42	49	66
3	55	62				62	56	50	42	42	49	68
4	52	67				61	56	49	43	39	47	70
5	47	64				59	59	53	45	41	49	70
6	47	64				58	59	55	46	42	52	72
7	49	66				66	56	50	43	46	50	62
8	52	66				66	53	52	45	45	52	61
9	55	67				68	56	53	45	47	50	66
10	55	67				72	56	50	43	47	46	64
11	56	66				66	56	50	43	47	46	64
12	55	67				59	55	49	43	49	49	67
13	55	64				58	56	47	43	46	47	64
14	56	64				62	56	47	45	46	52	64
15	55	66				58	56	49	42	43	50	64
16	56	67				56	52	43	41	42	50	87
17	53	67				56	56	46	41	43	64	79
18	55	67				56	56	47	41	42	*211	80
19	56	67				58	52	47	46	42	*137	104
20	53	68				58	53	47	47	42	86	91
21	57	69				55	52	47	43	45	75	77
22	61	70				59	49	47	45	47	70	74
23	58	70				62	52	47	45	50	68	72
24	60	70				62	52	49	46	55	62	74
25	61	70				61	56	49	47	55	61	74
26	62	72				58	52	45	45	56	58	72
27	64	70				59	49	43	45	53	56	70
28	64	72				56	49	39	45	55	59	68
29	66	70				59	46	39	43	53	61	70
30	64	72				56	47	41	43	50	62	70
31	68					58		42	43		59	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1933				
October	68	47	56.8	3,490
November	72	62	67.2	4,000
1934				
May	72	55	60.3	3,710
June	59	46	53.8	3,200
July	55	39	47.4	2,920
August	47	41	43.8	2,690
September	56	39	46.5	2,770
October	211	46	63.7	3,920
November	104	61	71.5	4,250
The period				23,460

*Estimated.

Santa Ana River near Prado, Calif.

Location.- Water-stage recorder at Riverside-Orange County line in lower Santa Ana Canyon, 3 miles below Rincon Bridge and 3 miles southwest of Prado, Riverside County.

Records available.- January 1919 to September 1934.

Average discharge.- 15 years (1919-34), 150 second-feet.

Extremes.- Maximum discharge during year, about 3,300 second-feet Jan. 1; minimum, 32 second-feet July 31 (gage height, 1.61 feet).
1919-34: Maximum discharge, about 18,000 second-feet Feb. 16, 1927 (gage height, 11.5 feet); minimum, 25 second-feet Aug. 18, 1929.

Remarks.- Records good. Diversions and regulation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	64	72	2,230	105	112	76	61	57	47	38	41
2	56	63	74	648	109	105	71	61	51	47	40	43
3	52	60	72	229	107	103	72	64	52	49	39	40
4	50	64	72	188	112	112	72	60	52	47	43	38
5	49	60	76	157	112	109	69	61	54	55	43	40
6	43	58	76	140	114	107	67	60	57	52	43	39
7	47	60	70	126	116	116	72	63	52	55	44	43
8	49	61	76	115	107	109	69	67	52	52	44	43
9	50	60	72	114	107	107	64	64	51	54	43	45
10	54	63	66	116	107	103	69	72	52	51	45	40
11	52	61	76	112	96	103	64	66	52	52	44	43
12	54	63	72	112	96	100	67	64	46	49	43	41
13	52	61	109	114	88	98	69	63	54	45	43	41
14	52	61	157	112	86	98	67	60	58	47	45	43
15	53	60	119	112	88	92	72	58	54	49	41	41
16	53	66	102	112	96	92	67	56	58	41	39	40
17	52		88	112	96	90	63	54	63	47	39	40
18	50		86	109	98	90	61	55	61	48	44	40
19	52		86	112	96	90	55	58	61	44	40	38
20	49	64	88	109	107	82	60	57	61	47	43	39
21	54		94	105	103	84	63	57	57	47	45	40
22	58		96	105	100	86	60	55	54	47	43	43
23	54	66	96	103	133	84	63	60	51	45	39	47
24	56	63	98	105	174	84	63	63	55	44	43	45
25	58	64	100	105	154	86	58	60	54	44	43	47
26	58	66	100	103	128	84	60	60	52	45	41	47
27	58	68	102	100	121	78	60	64	49	40	40	47
28	63	70	102	105	114	82	57	60	47	37	43	47
29	61	66	102	107		82	54	61	47	39	41	48
30	63	74	114	100		72	60	60	48	37	41	43
31	74		382	107		74		57		36	43	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	74	43	54.2	3,330
November	74	58	63.5	3,780
December	382	68	100	6,140
January	2,230	100	204	12,500
February	174	86	110	6,090
March	116	72	94.0	5,780
April	76	54	64.6	3,860
May	72	54	60.7	3,730
June	63	47	53.8	3,200
July	55	36	46.4	2,850
August	45	38	42.1	2,590
September	48	38	42.4	2,520
The year	2,230	36	77.9	56,400

Santa Ana River at Santa Ana, Calif.

Location.- Water-stage recorder in Las Bolsas land grant, one-eighth of a mile above Fifth Street Bridge, Santa Ana, Orange County, and 2 miles below junction with Santiago Creek. Altitude, about 80 feet.

Records available.- January 1923 to September 1934.

Average discharge.- 11 years (1923-34), 13.2 second-feet.

Extremes.- Maximum discharge during year, 1,530 second-feet Jan. 1 (gage height, 2.22 feet); no flow for several months.
1923-34: Maximum discharge, about 25,000 second-feet Feb. 16, 1927; no flow several months each year.

Remarks.- Records fair. See Santa Ana River near San Bernardino, Calif., for storage and diversions. In addition entire flow of Santa Ana River during irrigation season is diverted near Olive by Anaheim Union and Santa Ana Valley Irrigation Cos. Results of discharge measurements furnished by Orange County Flood Control District.

Discharge, in second-feet, 1933-34

Dec. 31	169	Jan. 2	180	Jan. 12	*10
Jan. 1	848	Jan. 3	*10	Jan. 13	13

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	169	0	5.5	335
January	848	0	34.2	2,100
February	0	0	0	0
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	848	0	3.4	2,440

*Estimated.

Note.- No flow during year, except for days given above.

Southern California Edison Co.'s Canal and Greenspot Pipe Line near Mentone, Calif.

Location.- In SW¼ sec. 4, T. 1 S., R. 2 W., at Southern California Edison Co.'s power plant at mouth of canyon, 3 miles northeast of Mentone.

Records available.- 1896 to September 1934.

Average discharge.- Southern California Edison Co.'s Canal, 32 years (1896-98, 1904-34), 51.5 second-feet. Greenspot pipe line, 23 years (1911-34), 5.48 second-feet.

Extremes.- 1896-1934: Maximum mean daily canal discharge, 97 second-feet Mar. 16, 1905; no flow during short periods nearly every year.

Remarks.- Intake of this canal is at Southern California Edison Co.'s power plant No. 2, 2¾ miles above the Mentone plant. Water is diverted from forebay of Mentone plant by Greenspot pipe line. Canal discharge below forebay is computed from record of kilowatt output of power plant. Pipe-line discharge is computed from weir record at forebay. Sum of records of discharge of canal and pipe line in following tables gives total flow of canal above forebay.

Canal discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	32	28	56	21	30	22	24	26	26	28	30
2	43	34	26	66	21	30	22	26	28	26	30	32
3	45	34	24	52	21	28	22	28	28	28	32	32
4	45	34	24	71	21	28	24	28	28	30	32	30
5	45	32	24	71	21	28	24	28	28	30	32	32
6	45	34	22	52	21	30	22	28	32	30	34	32
7	45	30	22	47	21	32	22	28	30	32	34	32
8	45	30	21	39	22	32	22	28	30	32	34	32
9	43	30	21	43	22	28	22	28	30	32	34	30
10	45	32	22	39	22	24	22	28	30	32	35	30
11	41	32	21	35	22	24	22	28	30	32	35	28
12	43	32	22	35	22	24	22	28	26	32	35	28
13	41	30	81	34	24	24	22	28	26	30	35	28
14	41	30	24	32	24	24	26	28	26	32	35	30
15	39	30	34	32	24	24	26	28	28	32	34	28
16	39	32	35	28	26	28	26	28	26	32	34	30
17	41	34	22	28	26	28	26	30	26	32	34	30
18	41	32	22	28	24	28	26	30	26	34	34	30
19	41	32	21	28	24	26	24	30	26	34	30	30
20	41	30	21	28	43	26	24	30	26	34	32	30
21	41	30	19	26	24	26	24	28	26	34	34	30
22	41	28	19	26	24	26	24	28	24	34	32	30
23	39	28	19	26	41	28	24	28	24	30	32	30
24	39	28	19	28	71	28	22	28	26	26	32	26
25	39	30	19	26	47	28	22	28	24	26	32	24
26	39	32	19	24	37	28	22	28	26	30	32	28
27	39	35	21	24	35	26	24	28	24	28	30	24
28	43	34	18	22	32	24	24	28	26	28	30	24
29	43	30	19	22		24	24	28	26	30	30	21
30	41	30	18	21		24	24	28	26	32	30	24
31	40		35	21		24		30		28	28	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	45	39	41.8	2,570
November	35	28	31.4	1,870
December	81	18	24.6	1,510
January	71	21	35.8	2,200
February	71	21	28.0	1,550
March	32	24	26.8	1,650
April	26	22	23.4	1,390
May	30	24	28.1	1,730
June	32	24	27.0	1,610
July	34	26	30.6	1,880
August	35	28	32.4	1,990
September	32	21	28.8	1,720
The year	81	18	29.9	21,690

Southern California Edison Co.'s Canal and Greenspot Pipe Line near Mentone, Calif.

(Continued)

Discharge, in second-feet, of Greenspot Pipe Line near Mentone, Calif., 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9	7	5	5	5	6	6.5	6.5	9	9	9	9
2	9	7	5	5	5	6	6.5	6.5	9	9	9	9
3	9	7	5	5	5	6	6.5	6.5	9	9	9	9
4	9	7	5	5	5	6	6.5	6.5	9	9	9	9
5	9	7	5	5	5	6	6.5	6.5	9	9	9	9
6	9	7	5	5	5	3	6.5	6.5	9	9	9	9
7	9	7	5	5	5	0	6.5	6.5	9	9	9	9
8	9	7	5	5	3.5	0	6.5	7.2	9	9	9	9
9	9	7	5	5	2	3	6.5	8	9	9	9	9
10	9	7	5	5	2	6	6.5	8	9	9	9	9
11	9	7	5	5	2	6	6.5	8	9	9	9	9
12	9	7	5	5	2	6	6.5	8	9	9	9	9
13	9	9	5	5	2	6	6.5	8	9	9	9	9
14	9	9	5	5	2	6	6.5	8	9	9	9	9
15	9	9	5	5	2	4	6.5	8	9	9	9	9
16	9	9	5	5	2	2	6.5	8	9	9	9	9
17	9	7	5	5	2	2	6.5	8	9	9	9	9
18	9	7	5	5	6	2	6.5	8	9	9	9	9
19	9	7	5	5	6	4	6.5	8	9	9	9	9
20	9	7	5	5	6	6	6.5	8	9	9	9	9
21	9	7	5	5	6	6	6.5	8	9	9	9	9
22	9	7	5	5	6	6	6.5	8	9	9	9	9
23	9	7	5	5	6	6	6.5	8	9	9	9	9
24	9	7	5	5	6	6	6.5	8	9	9	9	9
25	9	7	5	5	6	6	6.5	8.5	9	9	9	9
26	9	7	5	5	6	6	6.5	9	9	9	9	9
27	8	7	5	5	6	8	6.5	9	9	9	9	9
28	7	7	5	5	6	8	6.5	9	9	9	9	9
29	7	7	5	5		8	6.5	9	9	9	9	9
30	7	7	5	5		8	6.5	9	9	9	9	9
31	7		5	5		7.2		9		9	9	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9	7	8.71	536
November	9	7	7.27	432
December	5	5	5.0	307
January	5	5	5.0	307
February	6	2	4.38	243
March	8	0	5.20	320
April	6.5	6.5	6.50	387
May	9	6.5	7.86	482
June	9	9	9.0	536
July	9	9	9.0	553
August	9	9	9.0	553
September	9	9	9.0	536
The year	9	0	7.17	5,190

Mill Creek near Craftonville, Calif.

Location.- Water-stage recorder in NE¼ sec. 13, T. 1 S., R. 2 W., at mouth of canyon, below bridge on Redlands-Bear Valley highway, 5¼ miles northeast of Craftonville.

Records available.- January 1919 to September 1934.

Average discharge.- 15 years, 10.7 second-feet. Average combined discharge, river and canals, 15 years (1919-34), 33.8 second-feet.

Extremes.- Maximum discharge during year, 328 second-feet Jan. 1 (gage height, 3.10 feet); no flow for several months.
1919-34: Maximum discharge, about 4,500 second-feet Feb. 16, 1927 (gage height, 5.5 feet); all water diverted into Mill Creek power canal no. 1 at various times.

Remarks.- Records fair. Mill Creek power canals nos. 1, 2, and 3 divert water from points just above, 3 miles above, and 6 miles above station. Combined discharge is sum of flow in creek and the three canals.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	177	0	0					0	0
2			0	45	0	0					0	0
3			0	* 2	0	0					0	0
4			0	0	0	0					0	0
5			0	0	0	0					0	0
6			0	0	0	0					*15	0
7			0	0	0	0.6					0	0
8			0	0	0	1.1					0	0
9			0	0	0	0					0	0
10			0	0	0	0					0	0
11			0	0	0	0					0	0
12			0	0	0	0					0	0
13			*1.0	0	0	0					0	0
14			* .1	0	0	0					0	0
15			0	0	0	0					0	0
16			0	0	0	0					0	0
17			0	0	0	0					0	0
18			0	0	0	0					0	0
19			0	0	0	0					0	0
20			0	0	.2	0					0	0
21			0	0	.3	0					0	0
22			0	0	0	0					0	0
23			0	0	6	0					0	0
24			0	0	2.0	0					0	0
25			0	0	0	0					0	0
26			0	0	0	0					0	* .3
27			0	0	0	0					0	*1.4
28			0	0	.8	0					0	*1.5
29			0	0		0					0	* .3
30			0	0		0					0	0
31			43	0		0					0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	43	0	1.42	87.5
January	177	0	7.2	444
February	6	0	.33	18.4
March	1.1	0	.06	3.4
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	15	0	.48	29.8
September	1.5	0	.12	6.9
The year	177	0	.82	590

*Estimated.

Note:--No flow during months left blank.

Mill Creek near Craftonville, Calif.

(Continued)

Combined discharge, in second-feet, of Mill Creek and canals near Craftonville, Calif., 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.3	12.6	11.6	197	14.1	17.0	19.2	19.3	15.7	12.6	10.9	12.1
2	12.0	12.6	13.5	72	14.2	16.8	19.4	19.4	15.1	12.6	10.9	12.2
3	12.0	11.8	13.5	29	14.2	17.4	19.3	19.5	15.4	10.5	10.5	11.4
4	11.3	11.4	12.7	21	14.5	19.1	19.3	18.7	15.1	12.1	13.2	10.8
5	12.5	11.4	12.4	19.4	14.1	18.5	18.8	18.1	17.4	11.8	15.0	10.8
6	12.4	11.4	12.4	17.6	14.2	18.2	18.1	17.8	16.3	11.4	29	10.5
7	11.9	12.3	11.9	16.6	13.8	18.5	17.8	18.1	13.2	11.1	13.8	10.2
8	11.7	12.3	11.9	15.4	13.8	18.6	17.4	17.8	13.4	11.1	13.0	9.6
9	11.8	12.2	11.9	15.1	13.8	16.9	17.2	17.3	13.0	10.9	12.9	9.0
10	14.7	12.1	11.9	14.9	13.8	16.7	18.9	17.2	12.6	10.7	13.1	9.2
11	14.4	12.1	11.9	14.5	13.8	16.5	21	16.6	11.9	10.7	12.3	8.7
12	13.4	11.6	11.6	14.3	14.0	15.8	21	16.7	11.7	10.6	11.6	10.7
13	13.2	11.6	28	14.3	13.7	16.2	21	15.7	12.1	10.7	11.2	11.9
14	12.6	11.6	15.9	14.0	13.3	16.5	20	16.3	12.1	11.0	11.4	11.0
15	11.4	11.6	14.3	14.0	16.0	17.9	21	15.8	13.5	11.2	11.2	11.2
16	12.0	12.0	13.9	14.0	17.5	17.3	21	15.8	14.8	10.8	11.1	11.5
17	12.0	12.0	12.3	14.0	17.1	16.8	19.7	16.5	14.8	10.7	10.9	11.2
18	12.5	12.3	11.9	14.0	16.6	17.2	19.6	16.4	15.0	10.2	10.7	11.1
19	12.1	12.3	11.7	14.0	16.5	17.1	19.2	16.2	14.3	9.4	8.6	11.7
20	12.0	12.1	11.6	14.0	19.6	17.2	19.2	15.3	14.4	10.3	13.3	11.4
21	12.0	11.4	12.1	13.4	18.1	17.1	19.2	15.3	14.1	11.1	13.1	11.3
22	12.0	11.9	11.3	13.8	17.7	16.7	18.9	15.6	14.2	10.7	13.3	11.4
23	12.0	11.9	11.1	14.2	28	17.0	18.7	15.6	14.2	11.4	13.1	12.3
24	12.0	11.9	11.3	13.6	22	17.5	18.5	15.5	14.2	11.5	13.5	12.4
25	12.0	11.6	11.0	13.8	19.5	17.9	18.6	15.8	13.3	11.3	12.5	12.3
26	12.0	11.4	10.5	13.5	18.1	18.6	18.6	15.8	13.3	10.4	12.1	11.5
27	11.9	11.4	10.5	13.4	17.4	19.8	18.5	15.8	13.0	10.3	11.8	10.3
28	12.2	12.4	10.5	13.9	18.0	19.8	18.4	15.6	13.4	10.3	11.8	10.5
29	11.9	11.6	10.9	11.9		19.6	18.8	15.1	13.1	10.3	14.5	10.5
30	11.4	11.4	11.5	11.5		19.5	19.1	15.2	12.6	10.3	11.3	11.0
31	12.5		66	11.5		19.2		15.9		10.9	12.0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14.7	11.3	12.3	754
November	12.6	11.4	11.9	707
December	66	10.5	14.3	880
January	197	11.5	22.7	1,400
February	28	13.3	16.3	907
March	19.8	15.8	17.7	1,090
April	21	17.2	19.2	1,140
May	19.5	15.1	16.6	1,020
June	17.4	11.7	13.9	828
July	12.6	9.4	11.0	676
August	29	8.6	12.7	781
September	12.4	8.7	11.0	654
The year	197	8.6	15.0	10,840

Mill Creek power canals nos. 2 and 3 near Craftonville, Calif.

Location.- In NE¼ sec. 13, T. 1 S., R. 2 W., at Southern California Edison Co.'s power plant near Redlands-Bear Valley highway, 5 miles northeast of Craftonville.

Records available.- January 1919 to September 1934.

Average discharge.- 15 years (1919-34), 20.8 second-feet.

Extremes.- 1919-34: Maximum mean daily discharge, 36 second-feet Nov. 19, 1923, and June 7, 1924; no flow May 27, 1923.

Remarks.- Discharge computed from weir records at tailrace of power plant. Mill Creek power canal no. 2 diverts from Mill Creek in sec. 8, T. 1 S., R. 1 W. Headworks of canal no. 3 are in sec. 13, T. 1 S., R. 1 W., about 3 miles above intake for no. 2. The canals serve power plants nos. 2 and 3, which discharge into a common tailrace. Records furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.1	12.3	11.2	19.7	13.9	14.9	18.4	17.5	14.4	11.9	10.4	11.8
2	11.8	12.4	13.2	24	14.0	14.7	18.4	17.6	13.9	11.9	10.4	11.9
3	11.8	11.6	13.2	18.0	13.9	15.3	18.4	17.7	14.2	11.7	10.1	11.2
4	11.1	11.2	12.4	18.0	14.1	17.0	18.4	17.0	13.9	11.4	12.8	10.8
5	12.3	11.2	12.1	18.4	13.7	16.4	17.9	16.4	16.2	11.1	14.6	10.6
6	12.2	11.2	12.1	17.0	13.7	16.0	17.2	16.3	15.7	10.8	13.9	10.5
7	11.7	12.1	11.7	16.1	13.3	15.8	17.0	16.6	13.0	10.5	13.3	10.2
8	11.5	12.1	11.7	15.0	13.3	15.4	16.6	16.4	13.2	10.5	12.5	9.6
9	11.6	11.9	11.7	14.7	13.3	14.8	16.4	15.9	12.6	10.3	12.4	9.0
10	14.2	11.7	11.7	14.7	13.3	14.6	18.2	15.8	12.4	10.1	12.6	9.2
11	14.0	11.7	11.7	14.3	13.3	14.4	20	15.2	11.7	10.1	11.9	6.7
12	13.0	11.2	11.4	14.1	13.3	13.7	20	15.4	11.5	10.0	11.2	10.7
13	12.9	11.2	27	14.1	12.9	14.1	20	14.4	12.0	10.1	10.8	11.9
14	12.3	11.2	15.3	13.9	12.5	14.4	19.3	15.0	12.0	10.4	11.0	11.0
15	11.1	11.2	14.2	13.9	15.2	15.8	19.8	15.0	13.4	10.6	10.8	11.2
16	11.6	11.6	13.8	13.9	16.9	15.4	20	15.0	14.7	10.2	10.7	11.5
17	11.6	11.6	12.2	13.9	16.5	15.0	19.1	15.2	14.3	10.1	10.5	11.1
18	12.1	11.9	11.6	13.9	16.1	15.4	18.9	15.2	13.6	9.7	10.3	11.0
19	11.7	11.9	11.6	13.9	15.9	15.2	18.6	15.2	13.3	8.9	6.2	11.2
20	11.6	11.7	11.5	13.9	18.5	15.4	16.6	14.3	13.4	9.8	12.6	10.6
21	11.6	11.0	12.0	13.3	17.2	15.2	16.6	14.4	13.1	10.6	12.6	10.7
22	11.6	11.5	11.2	13.7	16.7	14.8	18.4	14.7	13.2	10.2	12.9	10.9
23	11.6	11.5	11.0	14.1	21	14.8	18.2	14.7	13.2	10.9	12.6	11.6
24	11.6	11.5	11.2	13.5	18.4	15.4	18.0	14.7	13.2	11.0	13.0	11.9
25	11.6	11.2	10.9	13.7	17.2	15.8	18.1	15.0	12.4	10.8	12.2	11.8
26	11.6	11.0	10.4	13.3	16.0	16.9	18.1	15.0	12.5	9.9	11.8	10.6
27	11.5	11.0	10.4	13.3	15.5	18.6	18.0	15.0	12.2	9.8	11.5	7.3
28	11.8	12.0	10.4	13.7	15.3	18.9	17.9	14.6	12.7	9.8	11.5	7.5
29	11.5	11.2	10.8	11.7		18.7	17.6	14.6	12.4	9.8	14.2	9.6
30	11.0	11.0	11.3	11.3		16.6	17.2	14.6	11.9	9.8	11.0	10.6
31	12.1		20	11.3		16.4		14.6		10.4	11.7	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14.2	11.0	11.9	733
November	12.4	11.0	11.5	686
December	27	10.4	12.6	776
January	24	11.3	14.8	909
February	21	12.5	15.2	843
March	16.9	13.7	15.8	972
April	20	16.4	18.4	1,090
May	17.7	14.3	15.5	950
June	16.2	11.5	13.2	787
July	11.9	8.9	10.4	641
August	14.6	8.2	11.8	726
September	11.9	7.3	10.6	628
The year	27	7.3	13.5	9,740

Mill Creek power canal no. 1 near Craftonville, Calif.

Location.- Water-stage recorder just above weir in NE¼ sec. 13, T. 1 S., R. 2 W., a quarter of a mile below intake on Mill Creek and 5 miles northeast of Craftonville.

Records available.- January 1919 to September 1934.

Average discharge.- 15 years, 2.55 second-feet.

Remarks.- Records good. Discharge determined from weir formula. This canal diverts from Mill Creek in NE¼ sec. 13, T. 1 S., R. 2 W., at gaging station on Mill Creek near Craftonville. After going through Mill Creek power house no. 1 water is distributed for irrigation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*0.2	0.3	0.4	0	0.2	2.1	0.8	1.8	1.3	0.7	0.5	0.3
2	*.2	.2	.3	3.0	.2	2.1	1.0	1.8	1.2	.7	.5	.3
3	.2	.2	.3	8.8	.3	2.1	.9	1.8	1.2	.7	.4	.2
4	.2	.2	.3	3.3	.4	2.1	.9	1.7	1.2	.7	.4	0
5	.2	.2	.3	1.0	.4	2.1	.9	1.7	1.2	.7	.4	0
6	.2	.2	.3	.6	.5	2.2	.9	1.5	.6	.6	.4	0
7	.2	.2	.2	.5	.5	2.1	.8	1.5	.2	.6	.5	0
8	.2	.2	.2	.4	.5	2.1	.8	1.4	.2	.6	.5	0
9	.2	.3	.2	.4	.5	2.1	.8	1.4	.2	.6	.5	0
10	.5	.4	.2	.2	.5	2.1	.7	1.4	.2	.6	.5	0
11	.4	.4	.2	.2	.5	2.1	.7	1.4	.2	.6	.4	0
12	.4	.4	.2	.2	.7	2.1	.7	1.3	.2	.6	.4	0
13	.3	.4	.4	.2	.8	2.1	.7	1.3	.1	.6	.4	0
14	.3	.4	.5	.1	.8	2.1	.7	1.3	.1	.6	.4	0
15	.3	.4	.1	.1	.8	2.1	.6	.8	.1	.6	.4	0
16	.4	.4	.1	.1	.6	1.9	.8	.8	.1	.6	.4	0
17	.4	.4	.1	.1	.6	1.8	.6	1.3	.5	.6	.4	.1
18	.4	.4	.1	.1	.5	1.8	.7	1.2	1.2	.5	.4	.1
19	.4	.4	.1	.1	.6	1.9	.6	1.0	1.0	.5	.4	.5
20	.4	.4	.1	.1	.9	1.8	.6	1.0	1.0	.5	.7	.6
21	.4	.4	.1	.1	.6	1.9	.6	.9	1.0	.5	.5	.6
22	.4	.4	.1	.1	1.0	1.9	.5	.9	1.0	.5	.4	.5
23	.4	.4	.1	.1	.6	2.2	.5	.9	1.0	.5	.5	.5
24	.4	.4	.1	.1	1.5	2.1	.5	.8	1.0	.5	.5	.5
25	.4	.4	.1	.1	2.3	2.1	.5	.8	.9	.5	.3	.5
26	.4	.4	.1	.2	2.1	1.7	.5	.8	.8	.5	.3	.6
27	.4	.4	.1	.1	1.9	1.0	.5	.8	.8	.5	.3	1.6
28	.4	.4	.1	.2	1.9	.9	.5	.8	.7	.5	.3	1.5
29	.4	.4	.1	.2		.9	1.2	.5	.7	.5	.3	.6
30	.4	.4	.2	.2		.9	1.9	.6	.7	.5	.3	.4
31	.4		2.9	.2		.8		1.3		.5	.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.5	0.2	0.34	20.6
November	.4	.2	.35	20.6
December	2.9	.1	.28	17.1
January	8.8	0	.68	41.9
February	2.3	.2	.81	45.0
March	2.2	.8	1.86	113
April	1.9	.5	.75	44.8
May	1.8	.5	1.18	72.4
June	1.3	.1	.69	40.9
July	.7	.5	.57	35.1
August	.7	.3	.42	25.6
September	1.6	0	.31	18.6
The year	8.8	0	.69	496

*Estimated.

Plunge Creek near East Highlands, Calif.

Location.- Water-stage recorder in NE¼ sec. 1, T. 1 S., R. 3 W., at mouth of canyon at crossing of North Fork Ditch siphon, 2 miles northeast of East Highlands. Altitude, about 1,625 feet.

Drainage area.- 16.9 square miles.

Records available.- January 1919 to September 1934.

Average discharge.- 15 years, 5.38 second-feet.

Extremes.- Maximum discharge during year, 380 second-feet Dec. 31 (gage height, 2.92 feet); no flow for several months during year.
1919-34: Maximum discharge, 1,420 second-feet Feb. 16, 1927 (gage height, 3.80 feet); no flow for several months each year.

Remarks.- Records good. Irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	262	2.0	3.0	0.1					
2			0	102	1.4	2.2	.1					
3			0	35	.3	1.8	.1					
4			0	18	.3	1.8	.1					
5			0	13	.3	1.5	.1					
6			0	10	.3	1.3	0					
7			0	8	.3	1.1	0					
8			0	7	.3	.9	0					
9			0	6	.2	.7	0					
10			0	6	.2	.5	0					
11			0	5	.2	.3	0					
12			0	5	.2	.3	0					
13			18	5	.2	.2	0					
14			6.5	4.8	.2	.2	0					
15			2.6	4.5	.2	.2	0					
16			8	4.2	.2	.1	0					
17			2.3	4.0	.1	.1	0					
18			1.4	3.8	.2	.1	0					
19			.9	3.5	.1	.1	0					
20			.7	3.5	.9	.1	0					
21			.6	3.0	.3	.1	0					
22			.6	2.5	.2	.1	0					
23			.6	2.5	14	.1	0					
24			.6	3.2	17	1.0	0					
25			.6	3.0	9	.3	0					
26			.6	2.8	6	.2	0					
27			.8	2.5	4.0	.1	0					
28			.8	2.5	4	.1	0					
29			.8	2.5		.1	0					
30			1.0	2.5		.1	0					
31			156	2.5		.1						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	156	0	6.63	407
January	262	2.5	17.4	1,070
February	17	.1	2.26	126
March	3.0	.1	.61	37.3
April	.1	0	.02	1.0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	262	0	2.27	1,640

Note:--No flow during months left blank.

142991 O—38——4

San Timoteo Creek near Redlands, Calif.

Location.- Water-stage recorder in NE¼ sec. 10, T. 2 S., R. 3 W., 2½ miles south of Redlands. Altitude, about 1,425 feet.

Drainage area.- 118 square miles.

Records available.- October 1926 to September 1934.

Extremes.- Maximum discharge during year, about 150 second-feet Dec. 31; no flow several months.
1926-34: Maximum discharge, about 3,000 second-feet Feb. 16, 1927; no flow several months each year.

Remarks.- Records poor. Except during high water entire flow is diverted above stream.

Discharge, in second-feet, 1933-34

Dec. 13	*2.0	Jan. 1	*11	Feb. 23	4.1
Dec. 31	*14	Jan. 24	*1.0	Feb. 24	15

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	14	0	.52	31.7
January	11	0	.39	23.8
February	15	0	.68	37.9
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	15	0	.13	93.4

*Estimated.

Note.- No flow during year except for days given above.

Warm Creek near Colton, Calif.

Location.- Water-stage recorder in SW¼ sec. 21, T. 1 S., R. 4 W., at Colton Avenue highway bridge 1¼ miles east of Colton.

Records available.- August 1920 to September 1934.

Average discharge.- 14 years, 52.6 second-feet. Average combined discharge, Warm Creek and Meeks & Daley Canal, 14 years, 62.9 second-feet.

Extremes.- Maximum discharge during year, 930 second-feet Jan. 1 (gage height, 5.40 feet); minimum, 2.4 second-feet Sept. 9.
1920-34: Maximum discharge, 2,780 second-feet Dec. 21, 1922; minimum, that of Sept. 9, 1934.

Remarks.- Records good. Discharge estimated Oct. 7, Nov. 25 to Dec. 13, Dec. 18-19, Jan. 3-9, Feb. 1-4. See record for Meeks & Daley Canal, which diverts above station. City of San Bernardino sewage disposal plant discharged 3,920 acre-feet into Warm Creek above station during year. Beginning about July 1 and continuing through irrigation season an average flow of about 4 second-feet from Antil area was passed around this station by Riverside Water Co. in their pipe line. Results of discharge measurements furnished by city of San Bernardino.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9	12	15	472	19	39	14	8.5	6	6.5	4.9	4.1
2	9.5	13	15	80	19	40	15	9	6.5	6.5	4.7	3.6
3	10	13	16	48	19	41	16	8.5	6.5	6.5	4.8	3.6
4	10	13	16	44	20	40	15	8	7	6.5	4.6	4.0
5	9.5	12	16	42	20	42	15	8	8	6.5	4.5	4.0
6	9.5	13	16	40	18	41	14	8	7	6.5	4.8	3.8
7	9	13	16	39	18	40	14	8	7	6.5	5	3.7
8	9.5	13	16	38	17	38	14	8	7	6	5	3.7
9	11	13	16	37	17	36	14	8	7	6	5	3.4
10	12	13	16	37	17	34	14	8	7	6	5	3.6
11	13	13	16	36	17	31	14	7.5	6.5	6.5	5.5	3.7
12	12	12	16	36	16	30	13	7.5	6.5	6.5	5	3.8
13	11	13	32	35	15	33	14	6.5	6.5	6.5	5	4.0
14	11	13	29	35	15	26	16	7	6.5	6.5	4.5	4.1
15	10	13	26	29	15	24	15	7	6.5	6.5	4.4	4.0
16	9.5	13	25	34	20	24	15	6.5	6.5	6.5	4.2	3.9
17	9.5	14	25	34	26	24	15	6.5	6	6.5	4.4	3.8
18	10	14	27	34	24	22	11	6.5	6	6.5	4.2	3.7
19	10	14	28	34	24	22	11	6.5	7	6	4.5	3.7
20	10	13	26	34	29	21	11	7	13	6	4.8	3.7
21	11	12	26	33	23	20	11	8	13	5.5	4.6	3.8
22	11	13	26	33	25	19	10	8	13	5.5	4.5	3.7
23	12	13	26	32	60	27	11	8	12	5.5	4.4	3.6
24	11	13	27	36	64	22	11	9.5	12	4.9	4.5	4.5
25	12	13	26	36	34	16	10	13	12	4.9	4.6	4.1
26	12	13	26	34	37	17	9.5	11	12	5	4.1	4.0
27	12	14	27	31	40	17	9	7	6.5	4.9	4.2	4.2
28	11	14	28	31	40	17	9.5	7	6.5	5	4.4	4.4
29	11	14	28	31		17	8.5	6.5	6.5	4.8	4.0	4.0
30	11	14	38	31		15	9	6	6.5	5	3.8	3.9
31	12		206	27		14		6		5	3.9	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	13	9	10.7	657
November	14	12	13.1	780
December	206	15	30.4	1,870
January	472	27	50.8	3,120
February	64	15	25.3	1,400
March	42	14	27.4	1,680
April	16	8.5	12.6	751
May	13	6	7.76	477
June	13	6	8.0	476
July	6.5	4.8	5.92	364
August	5.5	3.8	4.57	281
September	4.5	3.4	3.88	231
The year	472	3.4	16.7	12,090

Warm Creek near Colton, Calif.

(Continued)

Combined discharge, in second-feet, of Warm Creek and Meeks & Daley Canal near Colton, Calif., 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	31	32	478	37	39	31	26	23	25	16.3	21
2	27	31	33	82	36	40	33	27	23	25	17.9	21
3	27	31	33	50	37	41	34	26	23	24	21	20
4	27	31	34	46	37	40	33	25	23	24	21	21
5	25	30	34	48	36	43	33	26	24	24	21	21
6	26	31	34	42	35	44	32	26	24	24	21	21
7	26	31	34	41	36	43	33	26	24	24	22	21
8	26	31	34	40	34	42	33	26	24	24	22	21
9	28	31	33	38	34	41	32	26	24	24	21	20
10	29	30	33	38	34	39	32	25	24	24	22	20
11	30	30	34	38	34	37	32	25	24	24	22	19.8
12	29	29	34	37	34	38	31	23	24	24	22	20
13	27	30	92	38	33	43	33	24	23	24	22	20
14	28	30	32	37	33	44	34	24	24	23	21	20
15	27	29	30	36	32	42	33	24	24	18.9	21	21
16	27	30	31	37	37	42	33	23	24	18	21	20
17	27	31	29	37	42	42	32	23	23	21	20	21
18	27	31	30	37	41	39	28	23	23	24	21	20
19	27	32	32	37	42	40	28	23	22	24	21	19.6
20	27	31	29	39	47	39	29	23	23	24	22	20
21	27	30	29	38	40	38	29	25	22	24	21	21
22	28	31	29	38	42	37	28	25	22	24	21	21
23	29	30	30	37	68	44	29	25	22	23	21	21
24	28	31	30	40	68	41	29	24	22	22	22	21
25	29	31	30	36	39	35	27	24	22	22	21	21
26	29	31	29	36	40	35	26	23	23	18.6	20	22
27	30	32	30	37	40	36	27	23	24	17.5	20	20
28	29	32	31	37	40	35	27	23	24	17.4	20	21
29	28	32	30	36		35	26	23	23	16.9	21	20
30	29	32	40	37		34	27	22	24	17.1	21	20
31	30		209	35		32		23		16.5	21	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	30	25	27.7	1,700
November	32	29	28.8	1,830
December	209	29	39.5	2,430
January	478	35	54.3	3,340
February	68	32	39.6	2,200
March	44	32	39.4	2,420
April	34	26	30.5	1,810
May	27	22	24.3	1,500
June	24	22	23.3	1,380
July	25	16.5	22.1	1,360
August	22	16.3	20.9	1,280
September	22	19.6	20.5	1,220
The year	478	16.3	31.1	22,470

Strawberry Creek near Arrowhead Springs, Calif.

Location.- Water-stage recorder in SE¼ sec. 11, T. 1 N., R. 4 W., at Del Rosa Water Co.'s diversion dam, half a mile south of Arrowhead Springs. Altitude, about 1,650 feet.

Drainage area.- 8.6 square miles.

Records available.- December 1919 to September 1934.

Average discharge.- 14 years (1920-34), 3.77 second-feet.

Extremes.- Maximum discharge during year, 240 second-feet Jan. 1 (gage height, 3.35 feet); no flow at times during October, November, July, August, September.
1919-34: Maximum discharge, 408 second-feet Jan. 2, 1922; practically no flow at times during 1929, 1931-34.

Remarks.- Records good. Discharge estimated Oct. 1 to Nov. 27, July 3-5. Small diversion of water for domestic use above station. During year Del Rosa Water Co. by-passed by gage about 243 acre-feet.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0.4	130	2.0	3.0	0.8	0.2	0.1	0.2	0.1	0.1
2			.4	37	2.1	2.9	.9	.2	.1	.2	.2	.1
3			.4	13	2.2	2.7	.6	.2	.1	.2	.1	.1
4			.4	7	2.2	2.7	.8	.2	.1	.2	.1	.2
5			.4	5	2.0	2.5	.6	.1	.1	.2	.1	.1
6			.4	4.3	2.0	2.3	.5	.1	.3	.2	.1	.1
7			.4	3.5	2.1	2.5	.4	.1	.2	.2	.1	.1
8			.3	3.0	2.1	2.1	.4	.1	.2	.2	.1	.1
9			.4	3.0	1.8	2.1	.4	.1	.1	.2	.2	.1
10			.4	2.9	1.7	2.1	.4	.2	.1	.2	.1	.1
11			.4	2.9	1.7	2.1	.4	.1	.1	.2	.1	.1
12			.4	2.8	1.6	1.9	.4	.1	.1	.3	.1	.1
13			12	2.7	1.6	1.8	.4	.1	.1	.2	.1	.2
14		0.01	4.6	2.6	1.6	1.9	.4	.1	.2	.2	.1	.1
15			3.8	2.3	1.6	1.8	.6	.1	.1	.2	.1	.1
16			5	2.3	1.6	1.6	.5	.1	.1	.2	.2	.1
17			2.5	2.3	1.6	1.6	.4	.2	.1	.2	.1	.1
18			2.0	2.2	1.6	1.6	.4	.1	.1	.2	.1	.1
19			1.6	2.0	1.6	1.4	.3	.1	.1	.3	.2	.1
20			1.6	2.1	3.6	1.4	.2	.1	.2	.1	.1	.1
21			1.4	2.1	2.1	1.6	.2	.1	.3	.1	.1	.1
22			1.3	2.0	2.3	1.6	.2	.1	.2	.1	.1	.1
23			1.3	2.1	11	2.1	.3	.1	.4	.2	.2	.1
24			1.2	2.3	9.5	2.6	.2	.2	.4	.2	.1	.1
25			1.1	2.1	6	2.0	.2	.1	.4	.2	.1	.1
26			1.1	2.0	4.8	1.9	.2	.1	.4	.2	.1	.1
27			1.3	2.1	4.0	1.5	.1	.1	.3	.1	.1	.2
28		.4	1.3	2.0	3.7	1.3	.1	.1	.3	.1	.1	.1
29		.3	1.1	2.0		1.1	.1	.1	.2	.1	.1	.1
30		.4	1.6	2.0		.7	.1	.1	.2	.1	.2	.1
31			83.0	2.1		.8		.2		.1	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.01	0.6
November	0.4		.046	2.7
December	83	1.1	4.31	265
January	130	2.0	8.25	507
February	11	1.6	2.92	162
March	3.0	.7	1.91	117
April	.9	.1	.39	23.2
May	.2	.1	.13	7.7
June	.4	.1	.19	11.3
July	.3	.1	.18	11.1
August	.2	.1	.12	7.3
September	.2	.1	.11	6.5
The year	130		1.55	1,120

Waterman Canyon Creek near Arrowhead Springs, Calif.

Location.- Water-stage recorder in SW¼ sec. 2, T. 1 N., R. 4 W., 600 feet above old toll house and 1 mile northwest of Arrowhead Springs. Altitude, about 1,660 feet.

Drainage area.- 4.55 square miles.

Records available.- November 1911 to October 1914, and December 1919 to September 1934.

Average discharge.- 16 years (1912-14, 1920-34), 2.56 second-feet.

Extremes.- Maximum discharge during year, 114 second-feet Dec. 31 (gage height, 3.32 feet); no flow at times during July, August, September.
1920-34: Maximum discharge, 164 second-feet Jan. 2, 1922; no flow at times during summer in 1924-26, 1928-29, 1931, 1934.

Remarks.- Records fair. Small diversion for domestic use above station. Results of several discharge measurements furnished by city of San Bernardino.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.5	0.8	65	1.4	2.0	0.7	0.4	0.2	0.2		
2	.1	.3	.6	17	1.4	1.9	.7	.4	.2	.2		
3	.1	.2	.6	7.5	1.2	1.8	.6	.4	.2	.2		
4	* .1	.2	.6	4.7	1.1	1.7	.6	.3	.1	.2		
5	* .1	.2	*.6	4.0	1.1	1.5	.5	.3	.5	.2		
6	.1	.2	*.6	3.8	1.1	1.3	.6	.3	.5	.2		
7	.1	.2	*.6	3.4	1.1	1.2	.5	.3	.4	.2		
8	.1	.2	*.6	3.1	1.1	1.2	.4	.2	.4	.1		
9	.2	.2	*.6	2.7	1.1	1.2	.4	.2	.4	.1		
10	.2	.2	*.6	*2.6	1.1	1.2	.4	.2	.3	.1		
11	.2	.2	*.6	*2.5	1.0	1.2	.4	.2	.3	.1		
12	.2	.2	.6	*2.4	1.1	1.2	.4	.2	.3	.1		
13	.1	.2	17	*2.3	1.1	1.1	.4	.2	.3	.1		
14	.1	.2	2.0	*2.3	1.1	1.1	.5	.2	.3	.1		
15	.1	.2	1.9	*2.2	1.1	1.1	.6	.2	.3	.1		
16	.1	.2	1.9	*2.1	1.1	1.1	.6	.1	.3			
17	.1	.2	1.2	*2.0	1.1	1.1	.6	.1	.3			
18	.1	.2	.9	*2.0	1.1	1.0	.5	.1	.3	.1		
19	.1	.2	.9	*1.9	1.2	.9	.5	.1	.3	.2		
20	.1	.2	.8	*1.8	2.7	.9	.5	.1	.3	.2		
21	.1	.2	.8	*1.8	1.5	.9	.5	.1	.3	.1		
22	.1	.2	.7	1.7	1.5	1.0	.5	.1	.2	.2		
23	.1	.2	.6	1.7	9.9	2.0	.5	.1	.2	.2		.3
24	.1	.2	.6	2.0	4.1	*2.0	.5	.1	.3	.1		.3
25	.1	.3	.5	1.8	2.9	*1.2	.5	.2	.3	.1		.2
26	.1	.3	.5	1.8	2.5	1.0	.4	.2	.2			.2
27	.1	.4	.5	1.5	2.1	.9	.3	.2	.2			.2
28	.1	.6	.5	1.5	*2.0	1.0	.3	.1	.2			.1
29	.2	.8	.5	1.5		.8	.3	.2	.2			.1
30	.2	.9	.7	1.4		.7	.4	.2	.2			.1
31	1.0		49	1.4		.7		.2				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.0	0.1	0.15	9.1
November	.9	.2	.28	16.9
December	49	.5	2.87	176
January	65	1.4	4.95	304
February	9	1.0	1.78	99.0
March	2.0	.7	1.22	75.2
April	.7	.3	.49	29.0
May	.4	.1	.20	12.3
June	.5	.1	.28	16.9
July	.2		.124	7.6
August			.029	1.8
September	.3		.059	3.5
The year	65		1.04	751

*Estimated.

Note.- Discharge less than 0.1 second-foot on days for which no discharge is given.

City Creek near Highland, Calif.

Location.- Water-stage recorder in SW¼ sec. 27, T. 1 N., R. 3 W., 1¼ miles northeast of Highland. Altitude, about 1,520 feet.

Drainage area.- 19.8 square miles.

Records available.- October 1919 to September 1934.

Average discharge.- 15 years (1919-34), 7.65 second-feet.

Extremes.- Maximum discharge during year, 374 second-feet Jan. 1 (gage height, 7.85 feet); no flow for several months.
1919-34: Maximum discharge, 2,360 second-feet Apr. 5, 1926; no flow for several months each year except 1923.

Remarks.- Records good. See record for City Creek Water Co.'s canal, which diverts water above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	245	1.3	3.5	*0.1					
2			0	86	1.1	3.3	*.1					
3			0	24	1.1	3.1	*.1					
4			0	12	1.0	3.0	*.1					
5			0	8.5	1.0	3.0	*.1					
6			0	7	.9	2.8	*.1					
7			0	5.5	.8	2.5	*.1					
8			0	5	.8	1.5	*.1					
9			0	4.7	.8	1.1	*.1					
10			0	4.9	.7	1.0	*.1					
11			0	5	.7	1.0	0					
12			0	4.9	.6	1.0	0					
13			*50	4.9	.5	1.0	0					
14			*15	4.7	.4	1.0	0					
15			7	4.5	.3	.9	0					
16			15	4.3	.2	.9	0					
17			5.5	4.1	.2	.9	0					
18			4.3	3.9	.2	.4	0					
19			3.1	3.7	.2	.1	0					
20			2.8	3.7	3.3	.1	0					
21			2.6	3.5	3.3	.1	0					
22			2.5	3.5	2.7	.1	0					
23			2.3	3.2	17	.5	0					
24			2.2	3.9	24	.9	0					
25			2.0	3.2	12	.2	0					
26			1.9	3.2	9.5	.2	0					
27			1.9	3.2	6.5	.1	0					
28			2.0	3.2	4.3	*.1	0					
29			1.9	2.8		*.1	0					
30			2.3	2.0		*.1	0					
31			131	1.5		*.1						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	131	0	8.24	506
January	245	1.5	15.5	951
February	24	.2	3.41	189
March	3.5	.1	1.12	68.6
April	.1	0	.03	2.0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	245	0	2.37	1,720

*Estimated

Note:--No flow during months left blank.

City Creek Water Co.'s canal near Highland, Calif.

Location.- Water-stage recorder in NW¼ sec. 27, T. 1 N., R. 3 W., 1½ miles northeast of Highland.

Records available.- May 1924 to September 1934.

Average discharge.- 10 years (1924-34), 1.89 second-feet.

Extremes.- Maximum discharge during year, 6.6 second-feet Mar. 23 (gage height, 8.36 feet); no flow at various times.
1924-34: Maximum discharge, 10 second-feet May 30, 1927; no flow at various times.

Remarks.- Records good. This canal diverts from City Creek a quarter of a mile above gage.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.9	*2.1	0.2	2.5	3.4	2.9	1.5	0.7	*0.3	0.1	0.1
2	.1	.5	*2.0	0	2.6	3.1	3.2	1.8	.5	.2	.1	.1
3	.1	.4	*1.9	.1	2.6	*2.9	3.0	1.5	.6	.2	.1	.1
4	.1	.5	*1.8	.1	2.6	*2.7	2.8	1.4	.8	.1	.1	.1
5	.1	.4	*1.7	.1	2.6	*2.5	2.7	1.2	2.0	.1	.1	.1
6	.1	.5	*1.6	.3	2.5	2.4	2.4	.9	1.9	.1	.1	.1
7	.1	.6	*1.5	.6	2.5	2.3	2.3	1.0	*1.6	.1	.1	.1
8	.1	.7	1.5	.7	2.5	2.9	2.2	.9	*1.3	*.1	.1	*.1
9	.2	.6	1.4	.7	2.6	3.3	2.1	.8	1.1	.1	*.1	*.1
10	.3	.5	1.4	.7	2.6	3.1	2.1	.7	1.2	.1	*.1	*.1
11	.5	*.5	1.5	.7	2.6	3.0	2.1	.5	.9	.1	.1	.1
12	.4	*.5	1.5	.7	2.6	3.0	2.1	.4	.7	.1	.1	*.1
13	.3	*.5	1.1	.7	2.6	2.9	2.1	.5	.9	.1	.1	*.1
14	.3	*.5	0	.7	2.7	2.8	2.4	.5	1.4	.1	.1	*.1
15	.3	*.5	.1	.7	2.9	3.2	3.0	.3	1.5	.1	.1	.1
16	.2	.5	0	.7	3.1	3.9	3.0	.3	1.0	.1	.1	.1
17	.2	.6	.7	.7	3.1	4.7	2.6	.4	.8	.1	.1	.1
18	.2	.5	1.5	*.7	3.0	3.5	2.2	.5	.8	.1	.1	.1
19	*.2	.5	1.3	*.7	3.2	3.2	2.1	.5	.8	.1	*.1	.1
20	*.2	.6	1.2	*.6	3.3	3.1	2.0	.5	.8	.1	*.1	.1
21	*.2	.6	1.1	*.6	.9	3.1	1.7	.3	.9	*.1	*.1	.1
22	*.2	.7	1.0	*.6	1.2	3.2	1.7	.3	.6	.1	*.1	.1
23	*.2	.7	1.0	*.7	.1	3.6	1.9	.3	.3	.1	*.1	.1
24	*.2	.6	1.0	*.7	.1	4.9	2.0	.3	.5	.1	.1	.1
25	*.2	.7	1.0	*.7	0	4.0	1.8	.5	.7	.1	.1	.1
26	.2	.8	1.0	*.7	0	3.8	1.4	.8	.6	.1	.1	.1
27	.3	.8	.9	.7	2.4	3.4	1.3	.8	.4	.1	.1	.1
28	.3	1.1	.9	.6	3.6	3.3	1.2	.7	.3	.1	.1	.1
29	.4	1.8	.9	.9		2.9	1.2	.7	.2	.1	.1	.1
30	.6	2.2	.7	1.9		2.9	1.2	.7	.3	.1	.1	.1
31	.9		.3	2.4		2.7		.7		.1	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.9	0.1	0.25	15.7
November	2.2	.4	.69	41.3
December	2.1	0	1.15	70.6
January	2.4	0	.67	41.5
February	3.6	0	2.25	125
March	4.9	2.3	3.22	198
April	3.2	1.2	2.16	128
May	1.8	.3	.72	44.0
June	2.0	.2	.87	51.8
July	.3	.1	.11	6.9
August	.1	.1	.1	6.1
September	.1	.1	.1	6.0
The year	4.9	0	1.02	735

*Estimated.

Devil Canyon Creek near San Bernardino, Calif.

Location.- Water-stage recorder in NE¼ sec. 6, T. 1 N., R. 4 W., 7.3 miles northwest of San Bernardino. Altitude, about 1,800 feet.

Drainage area.- 6.16 square miles.

Records available.- November 1911 to October 1914, December 1919 to September 1934.

Average discharge.- 15 years (1913-14, 1920-34), 2.17 second-feet.

Extremes.- Maximum discharge during year, 56 second-feet Jan. 1 (gage height, 2.94 feet); no flow during several months.
1919-34: Maximum discharge, 220 second-feet Apr. 7, 1926; no flow several months during summers of 1924-34.

Remarks.- Records fair. Water diverted above gage by city of San Bernardino for city water supply and for spreading over canyon floor to increase absorption. Results of one measurement furnished by city of San Bernardino.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	41	0.4	0.3						
2			0	13	.4	.3						
3			0	4.3	.4	.3						
4			0	2.8	.4	.3						
5			0	1.7	.4	.2						
6			0	1.1	.4	.2						
7			0	.9	.4	.2						
8			0	.9	.4	.2						
9			0	.8	.3	.2						
10			0	.8	.3	.2						
11			0	.7	.3	.2						
12			0	.7	.3	.2						
13			0	.6	.3	.2						
14			0	.5	.3	.2						
15			0	.5	.3	.2						
16			0	.5	.3	.1						
17			0	.5	.3	.1						
18			0	.5	.3	.1						
19			0	.5	.3	.1						
20			0	.5	.3	.1						
21			0	.5	.3	.1						
22			0	.5	.3	.1						
23			0	.5	.3	.1						
24			0	.5	.3	.1						
25			0	.5	.3	.1						
26			0	.4	.3	.1						
27			0	.4	.3	.1						
28			0	.4	.3	.1						
29			0	.4		.1						
30			0	.4		.1						
31			4.7	.4		.1						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	4.7	0	0.15	9.3
January	41	.4	2.51	154
February	.4	.3	.33	18.2
March	.3	.1	.16	9.9
April			.07	4.2
May			.04	2.5
June			.01	.6
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	41	0	.27	199

Note:--Discharge estimated Mar. 16-22 and April to June; no flow during other months left blank.

Lytle Creek near Fontana, Calif.

Location.- Water-stage recorder in NW¼ sec. 6, T. 1 N., R. 5 W., unsurveyed, a quarter of a mile below Lytle Creek power plant of Southern California Edison Co. and 7½ miles north of Fontana.

Drainage area.- 47.9 square miles.

Records available.- October 1918 to September 1921, October 1922 to September 1934.

Average discharge.- 10 years (1919-20, 1925-34), 2.18 second-feet. Average combined discharge, creek and Fontana pipe line, 13 years (1919-20, 1922-34), 26.0 second-feet.

Extremes.- Maximum discharge during year, about 560 second-feet Jan. 1 (gage height, 5.30 feet); no flow most of year.
1918-21, 1922-34: Maximum discharge, about 5,300 second-feet Feb. 16, 1927 (gage height, 5.40 feet); no flow during most of each year.

Remarks.- Records fair. Water is diverted about 3 miles above gage for Lytle Creek power plant and is then carried across creek to headworks of Fontana pipe line, which serves Fontana power plant 4½ miles downstream.

Discharge, in second-feet, 1933-34

Dec. 13	53	Jan. 2	66	Feb. 22	1.0
Dec. 14	14	Jan. 3	13	Feb. 23	2.5
Dec. 15	3.0	Jan. 6	.5	Feb. 24	1.0
Dec. 31	56	Jan. 7	.5	Mar. 20	1.0
Jan. 1	246	Feb. 20	1.0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	56	0	4.06	250
January	246	0	10.5	647
February	2.5	0	.196	10.9
March	1.0	0	.03	2.0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0		0	0
The year	246	0	1.26	910

Note:--No flow during year except for days given above.

Lytle Creek near Fontana, Calif.

(Continued)

Combined discharge, in second-feet, of Lytle Creek and Fontana pipe line near Fontana, Calif., 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13.5	14.8	18.2	250	23	25	18.6	18.6	15.5	14.0	12.4	11.0
2	13.5	14.1	17.3	71	25	24	18.8	18.0	15.5	13.8	12.4	10.8
3	13.0	14.1	16.3	55	24	23	18.2	18.0	15.5	14.0	11.8	10.8
4	12.6	13.6	16.4	39	24	22	17.3	17.7	15.5	13.9	12.2	10.3
5	14.1	14.3	17.5	26	24	21	16.8	16.8	16.1	13.6	11.6	10.4
6	13.1	14.6	16.4	34	24	21	16.6	16.4	15.7	13.6	11.6	10.9
7	15.2	16.4	18.4	34	23	21	15.9	17.6	15.5	13.4	11.4	10.8
8	15.2	16.4	18.0	33	22	21	15.7	18.0	15.1	13.4	11.3	11.0
9	15.4	16.2	17.2	34	23	20	15.1	17.5	15.2	13.3	11.6	11.0
10	15.9	15.9	17.5	34	22	20	16.6	18.0	14.8	13.0	11.6	10.9
11	15.8	16.1	18.1	31	22	20	16.0	17.6	15.3	13.0	11.6	11.6
12	15.6	15.8	18.4	31	22	19.0	15.8	17.8	15.0	13.8	10.9	11.4
13	15.2	15.9	64	29	21	18.4	16.2	16.5	15.8	13.6	12.2	12.3
14	15.2	16.0	38	29	21	18.4	19.1	17.0	15.5	13.4	11.2	11.4
15	15.0	14.7	23	28	20	17.8	19.2	17.4	15.0	13.2	11.2	11.5
16	13.4	15.6	21	28	20	17.0	19.2	18.2	15.0	13.1	11.2	11.5
17	14.1	15.5	21	28	19.4	17.2	18.8	18.2	14.8	12.6	10.9	11.4
18	16.1	15.9	19.8	28	18.4	17.4	18.8	17.6	15.0	12.4	10.8	11.0
19	16.2	16.0	18.9	28	18.6	17.4	19.7	18.0	15.4	12.4	10.6	11.0
20	15.2	15.8	18.9	28	19.8	16.2	19.3	17.5	15.8	12.1	11.8	10.9
21	15.7	15.8	18.7	28	18.4	15.0	19.4	17.2	15.6	11.2	10.6	9.2
22	15.5	15.9	16.8	27	19.6	15.0	19.6	17.5	15.0	13.2	11.3	10.9
23	15.9	15.9	14.2	26	32	15.1	19.5	16.1	15.0	13.2	11.2	12.5
24	15.3	16.0	12.9	28	32	15.3	19.3	16.2	14.8	13.0	10.8	12.8
25	16.6	15.3	13.0	28	26	21	18.8	15.5	14.9	13.0	11.0	12.0
26	15.4	15.5	13.0	27	25	17.8	18.2	15.5	14.8	12.3	11.2	12.0
27	15.0	15.6	14.2	27	25	19.7	18.0	15.3	14.2	12.8	10.8	12.0
28	16.0	18.4	14.7	26	25	19.7	18.4	15.5	14.2	12.0	10.8	11.8
29	16.0	17.9	14.6	26		19.3	18.2	16.0	13.7	11.4	10.6	11.5
30	15.4	16.9	15.0	25		18.6	17.7	15.7	13.8	11.5	10.6	10.8
31	16.1		102	22		17.8		15.5		11.8	10.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	16.6	12.6	15.0	925
November	18.4	13.6	15.7	934
December	102	12.9	22.0	1,360
January	250	22	38.3	2,360
February	32	18.4	22.8	1,270
March	25	15.0	19.1	1,170
April	19.7	15.1	18.0	1,070
May	18.6	15.3	17.0	1,050
June	16.1	13.7	15.1	899
July	14.0	11.2	12.9	795
August	12.4	10.4	11.3	693
September	12.8	9.2	11.2	669
The year	250	9.2	18.2	13,200

Fontana pipe line near Fontana, Calif.

Location.- In sec. 6, T. 1 N., R. 5 W., at Southern California Edison Co.'s power house 8 miles north of Fontana.

Records available.- October 1918 to September 1921, October 1922 to September 1934.

Average discharge.- 15 years (1918-21, 1922-34), 24.7 second-feet.

Extremes.- 1918-21, 1922-34: Maximum mean daily discharge, 62 second-feet Mar. 25-31 and Apr. 5-8, 1920; minimum, 3.6 second-feet Jan. 1, 1934.

Remarks.- Canal diverts practically entire flow of Lytle Creek in sec. 26, T. 2 N., R. 6 W. This water is carried across creek to headworks of Fontana pipe line, which serves Fontana power plant about 5 miles downstream. Records of daily discharge of Fontana pipe line determined from kilowatt output of power plant, furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13.5	14.3	18.2	3.6	23	25	18.6	18.6	15.5	14.0	12.4	11.0
2	13.5	14.1	17.3	5.0	25	24	18.8	18.0	15.5	13.8	12.4	10.8
3	13.0	14.1	16.3	42	24	23	18.2	18.0	15.5	14.0	11.8	10.8
4	12.6	13.6	16.4	39	24	22	17.3	17.7	15.5	13.9	12.2	10.5
5	14.1	14.3	17.5	26	24	21	16.8	16.8	16.1	13.6	11.6	10.4
6	13.1	14.6	16.4	34	24	21	16.6	16.4	15.7	13.6	11.6	10.9
7	15.2	16.4	18.4	33	23	21	15.9	17.6	15.5	13.4	11.4	10.8
8	15.2	16.4	18.0	33	22	21	15.7	18.0	15.1	13.4	11.3	11.0
9	15.4	16.2	17.2	34	23	20	15.1	17.5	15.2	13.3	11.6	11.0
10	15.9	15.9	17.5	34	22	20	16.6	18.0	14.8	13.0	11.6	10.9
11	15.8	16.1	18.1	31	22	20	16.0	17.6	15.3	13.0	11.6	11.6
12	15.6	15.8	18.4	31	22	19.0	15.8	17.8	15.0	13.8	10.9	11.4
13	15.2	15.9	11.3	29	21	18.4	16.2	16.5	15.8	13.6	12.2	12.3
14	15.2	16.0	24	29	21	18.4	19.1	17.0	15.5	13.4	11.2	11.4
15	15.0	14.7	20	28	20	17.8	19.2	17.4	15.0	13.2	11.2	11.5
16	13.4	15.6	21	28	20	17.0	19.2	18.2	15.0	13.1	11.2	11.5
17	14.1	15.5	21	28	19.4	17.8	18.8	18.2	14.8	12.6	10.9	11.4
18	16.1	15.9	19.8	28	18.4	17.4	18.8	17.6	15.0	12.4	10.8	11.0
19	16.2	16.0	18.9	28	18.6	17.4	19.7	18.0	15.4	12.4	10.6	11.0
20	15.2	15.8	18.9	28	18.8	15.2	19.3	17.5	15.8	12.1	11.8	10.9
21	15.7	15.6	18.7	28	18.4	15.0	19.4	17.2	15.6	11.2	10.6	9.2
22	15.5	15.9	16.8	27	18.6	15.0	19.6	17.5	15.0	13.2	11.3	10.9
23	15.9	15.9	14.2	26	29	15.1	19.5	16.1	15.0	13.2	11.2	12.5
24	15.3	16.0	12.9	28	31	15.3	19.3	16.2	14.8	13.0	10.8	12.8
25	16.6	15.3	13.0	28	26	21	18.8	15.5	14.9	13.0	11.0	12.0
26	15.4	15.5	13.0	27	25	17.8	18.2	15.5	14.8	12.3	11.2	12.0
27	15.0	15.6	14.2	27	25	19.7	18.0	15.3	14.2	12.8	10.8	12.0
28	16.0	18.4	14.7	26	25	19.7	18.4	15.5	14.2	12.0	10.8	11.8
29	16.0	17.9	14.6	26		19.3	18.2	16.0	13.7	11.4	10.6	11.5
30	15.4	16.9	15.0	25		18.6	17.7	16.7	13.8	11.5	10.6	10.8
31	16.1		46	22		17.8		16.5		11.8	10.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	16.6	12.6	15.0	925
November	18.4	13.6	15.7	934
December	46	11.3	18.0	1,110
January	42	3.6	27.8	1,710
February	31	18.4	22.6	1,260
March	25	15	19.0	1,170
April	19.7	15.1	18.0	1,070
May	18.6	15.3	17.0	1,050
June	16.1	13.7	15.1	899
July	14.0	11.2	12.9	795
August	12.4	10.4	11.3	693
September	12.8	9.2	11.2	669
The year	46	3.6	17.0	12,280

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

Location.- Water-stage recorder in the San Bernardino grant, near Atchison, Topeka & Santa Fe Railway bridge a quarter of a mile upstream from Mt. Vernon Street Bridge, at San Bernardino. Altitude, about 1,050 feet.

Records available.- January 1929 to September 1934.

Extremes.- Maximum discharge during year, 555 second-feet Jan. 1; no flow most of year. 1929-34: Maximum discharge, about 700 second-feet Feb. 9, 1932; no flow most of year.

Remarks.- Records fair. Water diverted above station by Fontana pipe line and for spreading on debris cone.

No flow during year except on Dec. 31, 2.5 second-feet, and Jan. 1, 159 second-feet; total run-off during year, 320 acre-feet.

Lytle Creek (west channel) at Colton, Calif.

Location.- Water-stage recorder in San Bernardino grant, on F Street near Colton Avenue at Colton. Altitude, about 980 feet.

Records available.- January 1929 to September 1934.

Extremes.- 1929-34: No flow during entire period of record.

Remarks.- No flow during entire period of record. Water diverted by Fontana pipe line (see "Fontana pipe line near Fontana, Calif.") and for spreading on debris cone above Foothill Boulevard.

Cajon Creek near Keenbrook, Calif.

Location.- Water-stage recorder in SE¼ sec. 12, T. 2 N., R. 6 W., 300 feet above mouth of Lone Pine Creek and 1 mile north of Keenbrook. Altitude, about 2,620 feet.

Drainage area.- 40.9 square miles.

Records available.- December 1919 to September 1934.

Average discharge.- 14 years (1920-34), 7.22 second-feet.

Extremes.- Maximum discharge during year, 570 second-feet Jan. 1 (gage height, 5.40 feet); minimum, 1.3 second-feet Aug. 29 to Sept. 6, Sept. 16-20.
1919-34: Maximum discharge, about 5,000 second-feet Dec. 20, 1921; minimum, 0.05 second-foot June 25, 1920.

Remarks.- Records good. Discharge estimated Jan. 1, 11-21. No diversions or regulation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	2.8	3.2	286	5.5	6	4.2	3.1	2.8	2.1	1.6	1.3
2	2.2	2.8	3.2	43	5.5	5.5	4.2	3.1	2.5	2.1	1.6	1.3
3	2.0	2.6	3.0	24	5.5	5.5	4.1	2.9	2.5	2.1	1.6	1.3
4	2.2	2.6	3.0	18	5.5	5.5	4.1	2.8	2.6	2.1	1.6	1.3
5	2.2	2.8	3.0	15	5	5.5	3.9	2.6	2.8	1.9	1.6	1.3
6	2.3	2.8	2.9	14	5	5.5	3.9	2.5	2.8	1.9	1.6	1.3
7	2.2	2.6	2.9	12	5	5.5	3.7	2.5	2.6	1.8	1.6	1.4
8	2.2	2.6	2.9	10	5	5.5	3.6	2.5	2.6	1.8	1.6	1.4
9	2.4	2.5	2.8	8.5	4.9	5.5	3.6	2.5	2.5	1.7	1.6	1.6
10	2.3	2.5	2.8	8	4.7	5.5	3.6	2.4	2.6	1.8	1.6	1.6
11	2.3	2.5	2.8	8	4.7	5.5	3.6	2.4	2.4	1.7	1.6	1.6
12	2.2	2.5	2.9	7.5	4.6	5.5	3.5	2.4	2.5	1.7	1.7	1.6
13	2.3	2.5	21	7.5	4.7	5.5	3.5	2.4	2.5	1.7	1.7	1.4
14	2.3	2.6	4.5	7	4.6	5	3.5	2.4	2.4	1.6	1.6	1.4
15	2.2	2.6	2.5	6.5	4.7	5	3.5	2.4	2.4	1.6	1.7	1.4
16	2.0	2.6	2.3	6.5	4.9	4.9	3.3	2.4	2.4	1.6	1.7	1.3
17	2.0	2.6	2.5	6.5	4.9	4.9	3.2	2.4	2.2	1.6	1.7	1.3
18	2.0	2.6	3.5	6.5	5	4.7	2.9	2.4	2.3	1.7	1.7	1.3
19	2.0	2.6	3.8	6.5	5	4.4	2.9	2.4	2.1	1.7	1.7	1.3
20	2.0	2.8	3.2	6.5	5.5	4.4	2.9	2.4	2.2	1.8	1.7	1.3
21	2.2	2.8	2.5	6.5	5	4.6	2.9	2.4	2.2	1.8	1.6	1.4
22	2.2	2.8	2.5	6.5	5.5	4.7	3.1	2.4	2.1	1.8	1.7	1.4
23	2.2	2.6	2.3	6.5	8	4.7	3.2	2.4	1.9	1.9	1.7	1.6
24	2.2	2.5	2.3	6.5	16	4.7	3.2	2.5	1.9	2.1	1.6	1.6
25	2.2	2.5	2.8	6.5	8.5	5	3.1	2.6	2.1	2.1	1.6	1.6
26	2.2	2.6	2.8	6	7.5	5	2.9	2.6	1.9	1.9	1.4	1.6
27	2.2	2.6	2.8	6	7	4.9	2.9	2.6	1.9	1.9	1.4	1.6
28	2.5	3.2	3.0	6	6.5	4.7	2.9	2.6	1.7	1.8	1.4	1.6
29	2.6	3.3	3.0	6		4.6	2.9	2.8	1.7	1.7	1.3	1.6
30	2.8	3.3	3.8	6		4.2	2.9	2.8	1.9	1.6	1.3	1.6
31	3.3		228	6		4.1		2.8		1.7	1.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.3	2.0	2.26	139
November	3.3	2.5	2.69	160
December	228	2.3	10.8	663
January	286	6	18.6	1,140
February	16	4.6	5.86	326
March	6	4.1	5.05	310
April	4.2	2.9	3.39	202
May	3.1	2.4	2.57	158
June	2.8	1.7	2.30	137
July	2.1	1.6	1.82	112
August	1.7	1.3	1.59	97.6
September	1.6	1.3	1.44	85.9
The year	286	1.3	4.88	3,530

Lone Pine Creek near Keenbrook, Calif.

Location.- Water-stage recorder in SW¼ sec. 12, T. 2 N., R. 6 W., 50 feet above Atchison, Topeka & Santa Fe Railway bridge 1 mile north of Keenbrook. Altitude, about 2,630 feet.

Drainage area.- 15.3 square miles.

Records available.- December 1919 to September 1934.

Average discharge.- 14 years (1920-34), 1.08 second-feet.

Extremes.- Maximum stage during year, 270 second-feet Jan. 1 (gage height, 3.60 feet); minimum, 0.2 second-foot for several periods.
1919-34: Maximum discharge, about 810 second-feet Dec. 19, 1922; minimum, 0.1 second-foot at various times during 1926-32.

Remarks.- Records good except those of high discharges. Discharge estimated Jan. 3-5. No diversions or regulation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.3	0.4	73	0.6	0.6	0.4	0.5	0.4	0.3	0.3	0.2
2	.3	.3	.4	1.5	.6	.6	.4	.6	.4	.3	.3	.2
3	.3	.3	.4	1.0	.6	.6	.4	.6	.4	.3	.3	.2
4	.3	.3	.4	.9	.5	.6	.4	.6	.4	.3	.3	.2
5	.3	.3	.4	.8	.5	.6	.5	.6	.4	.3	.3	.2
6	.3	.3	.4	.8	.5	.6	.5	.6	.4	.3	.3	.2
7	.3	.4	.4	.8	.6	.6	.4	.6	.4	.3	.3	.2
8	.3	.4	.4	.8	.6	.6	.4	.6	.4	.3	.4	.2
9	.4	.4	.4	.8	.6	.6	.5	.6	.4	.3	.4	.2
10	.4	.4	.5	.8	.7	.6	.5	.6	.4	.3	.3	.2
11	.4	.4	.5	.8	.6	.6	.5	.5	.4	.3	.3	.2
12	.3	.4	.5	.8	.7	.6	.5	.5	.4	.3	.3	.2
13	.3	.4	4.8	.7	.7	.6	.4	.5	.4	.3	.2	.2
14	.3	.4	.8	.7	.6	.6	.5	.4	.4	.3	.3	.2
15	.4	.5	.6	.6	.6	.6	.5	.4	.4	.3	.3	.2
16	.3	.5	.5	.6	.6	.6	.5	.4	.4	.3	.3	.2
17	.3	.5	.5	.6	.6	.6	.4	.4	.4	.3	.3	.2
18	.3	.4	.4	.6	.6	.6	.4	.4	.4	.2	.3	.2
19	.3	.4	.4	.6	.7	.5	.4	.4	.4	.2	.3	.2
20	.3	.4	.4	.5	.7	.5	.4	.4	.4	.3	.3	.2
21	.3	.4	.4	.5	.7	.5	.4	.4	.4	.2	.3	.2
22	.3	.4	.4	.5	.8	.5	.4	.4	.4	.3	.3	.2
23	.4	.4	.4	.5	.9	.5	.4	.4	.4	.3	.2	.2
24	.4	.4	.4	.6	.6	.5	.5	.4	.4	.2	.2	.3
25	.4	.4	.4	.5	.6	.6	.5	.4	.4	.2	.2	.3
26	.4	.4	.4	.6	.6	.6	.5	.4	.4	.2	.2	.3
27	.3	.4	.4	.6	.6	.6	.5	.4	.4	.2	.2	.2
28	.3	.4	.4	.6	.6	.6	.5	.4	.4	.2	.2	.2
29	.3	.4	.4	.6		.5	.5	.4	.3	.3	.2	.2
30	.3	.4	.4	.6		.5	.5	.4	.3	.3	.2	.2
31	.3		48	.6		.5		.4		.3	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.4	0.3	0.33	20.2
November	.5	.3	.39	23.2
December	48	.4	2.11	130
January	73	.5	3.03	186
February	.9	.5	.63	34.9
March	.6	.5	.57	35.1
April	.5	.4	.45	27.0
May	.6	.4	.47	29.0
June	.4	.3	.39	23.4
July	.3	.2	.27	16.8
August	.4	.2	.27	16.6
September	.3	.2	.21	12.5
The year	73	.2	.766	555

Meeks & Daley Canal near Colton, Calif.

Location.- Water-stage recorder in SW¼ sec. 21, T. 1 S., R. 4 W., on Colton Avenue, 1 mile below point of diversion from Warm Creek and 1 mile east of Colton.

Records available.- September 1920 to September 1934.

Average discharge.- 14 years, 10.2 second-feet.

Extremes.- Maximum mean daily discharge during year, 22 second-feet Apr. 28; minimum, 0.2 second-foot Mar. 4.
1920-34: Maximum mean daily discharge, that of Apr. 28, 1934; no flow at numerous times.

Remarks.- Records good. This canal diverts from right bank of Warm Creek 1½ miles northeast of Colton. Water is used for irrigation in vicinity of Colton, Riverside, and Corona.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17.0	18.8	17.1	5.5	17.6	0.2	17.2	17.6	16.8	18.4	11.4	17.1
2	17.1	18.4	17.8	2.3	17.4	.2	17.9	17.8	16.7	18.3	13.2	17.0
3	17.4	18.3	17.1	2.0	17.6	.2	18.5	17.5	16.4	17.5	16.1	16.6
4	16.6	18.1	17.6	1.8	17.1	.2	18.3	17.4	16.4	17.6	16.4	17.2
5	15.5	18.1	17.8	5.7	17.6	.6	18.1	18.0	15.9	17.6	16.3	17.0
6	16.8	18.3	17.5	2.1	17.1	3.0	18.5	17.8	16.7	17.9	16.4	17.4
7	16.7	17.6	17.5	1.8	17.5	3.1	19.3	18.3	17.1	17.9	16.8	17.5
8	16.8	17.6	17.6	1.6	17.4	3.6	18.9	18.3	17.2	17.5	16.8	17.2
9	16.8	17.6	17.2	1.4	17.0	4.8	18.5	18.0	17.5	18.0	16.2	17.0
10	17.0	17.5	17.2	1.2	17.0	5.3	18.4	17.1	17.1	17.9	17.1	16.7
11	17.1	17.4	17.9	.2	16.7	6.1	18.1	17.6	17.0	17.8	17.0	16.1
12	17.0	17.2	17.8	.6	17.5	6.5	18.1	15.9	17.0	17.9	17.0	16.4
13	16.3	17.2	10.0	2.7	17.6	10.1	18.9	17.5	16.6	17.9	17.0	16.1
14	17.0	16.7	2.8	1.8	17.6	17.6	17.8	17.1	16.3	16.3	16.8	16.2
15	16.6	16.3	4.1	7.4	17.5	17.6	17.8	17.0	17.0	12.4	17.0	16.6
16	17.2	17.1	5.6	2.7	17.0	17.6	18.3	16.7	17.0	11.5	17.1	16.6
17	17.2	17.2	4.3	2.8	16.3	17.5	17.0	16.8	17.2	14.4	16.1	16.6
18	16.8	17.2	3.4	2.7	17.0	17.2	17.1	16.7	17.2	17.1	16.7	16.7
19	16.7	17.5	3.5	3.4	17.8	16.1	17.5	16.8	15.4	17.6	16.7	15.9
20	16.7	17.6	3.3	4.9	17.9	18.0	17.9	16.1	9.8	16.3	17.1	16.6
21	16.3	17.6	3.3	5.1	17.2	17.6	18.1	16.7	8.7	18.0	16.7	17.2
22	16.8	17.8	3.4	4.6	17.5	17.6	17.9	16.7	9.2	18.0	16.7	17.2
23	17.2	17.1	3.6	4.7	8.3	16.7	17.9	16.8	9.5	17.4	17.0	16.8
24	17.2	17.9	3.4	3.5	3.5	19.0	17.6	14.4	9.7	16.2	17.5	16.6
25	16.8	18.1	3.6	.4	4.6	18.9	17.1	10.6	9.8	17.4	16.6	16.8
26	17.1	18.0	3.1	1.8	3.0	18.0	17.0	11.8	10.8	13.6	16.2	17.5
27	17.5	18.3	2.7	6.3	.2	18.5	17.6	16.1	17.2	12.6	16.3	16.3
28	17.6	18.5	2.6	5.8	.2	18.3	17.9	16.1	17.2	12.4	16.1	16.6
29	17.4	18.3	2.4	5.5		18.4	17.2	16.4	16.7	12.1	16.7	16.1
30	17.6	17.8	2.4	5.8		18.7	17.9	16.4	17.4	12.1	17.0	16.3
31	18.4		2.6	8.2		18.5		16.7		11.5	17.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	18.4	15.5	17.0	1,040
November	18.8	16.3	17.7	1,050
December	17.9	2.4	9.05	556
January	8.2	.2	3.43	211
February	17.9	.2	14.3	795
March	19.0	.2	11.9	734
April	19.3	17.0	17.9	1,070
May	18.3	10.6	16.6	1,020
June	17.5	8.7	15.2	903
July	18.4	11.5	16.2	994
August	17.5	11.4	16.4	1,010
September	17.5	15.9	16.7	996
The year	19.3	.2	14.3	10,380

Day Creek near Etiwanda, Calif.

Location.- Water-stage recorder in SW¼ sec. 8, T. 1 N., R. 6 W., a quarter of a mile below junction of two main forks and 6 miles north of Etiwanda. Altitude, about 2,940 feet.

Drainage area.- 4.8 square miles.

Records available.- January 1929 to September 1934.

Extremes.- Maximum discharge during year, 84 second-feet Jan. 1 (gage height, 2.42 feet); minimum, 0.1 second-foot Dec. 19-20.
1929-34: Maximum discharge, 118 second-feet Apr. 26, 1931; minimum, 0.1 second-foot Dec. 19-20, 1933.

Remarks.- Records good. Discharge estimated Dec. 14-15. Etiwanda Water Co. diverted about 51 acre-feet for spreading above station during winter.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	1.3	1.4	52	2.7	3.9	1.9	1.6	1.4	1.0	0.6	0.6
2	.9	1.4	1.3	22	2.7	3.6	1.9	1.6	1.4	.7	.6	.6
3	.8	1.4	1.3	11	2.7	3.3	2.1	1.6	1.4	.6	.6	.5
4	.8	1.5	1.3	9.5	2.7	2.7	2.1	1.4	1.4	.7	.6	.5
5	.8	1.7	1.3	7	2.7	2.7	1.9	1.2	1.6	.7	.7	.5
6	.9	1.1	1.3	4.3	2.7	2.7	1.9	1.2	1.6	.7	.6	.6
7	.9	1.1	1.2	3.3	2.7	2.4	1.9	1.2	1.6	.7	.5	.7
8	.9	1.0	1.2	2.7	2.7	2.4	1.9	1.2	1.2	.6	.6	.7
9	.9	1.0	1.2	2.4	2.7	2.4	1.9	1.2	1.0	.7	.6	.9
10	1.0	1.0	1.1	2.1	2.7	2.4	2.1	1.0	.9	.7	.6	.9
11	1.0	.9	1.2	2.7	2.7	2.4	2.1	.9	.7	.7	.6	.9
12	.9	.9	1.3	3.9	2.7	2.4	2.1	.9	.9	.7	.6	.9
13	.9	.9	13	3.9	2.7	2.4	2.1	1.0	1.0	.7	.6	.7
14	.9	.9	5	3.9	2.7	2.1	2.1	1.0	1.2	.7	.6	.5
15	.9	.9	4.4	3.6	2.7	1.9	2.4	.9	1.2	.6	.7	.3
16	.9	.9	3.9	3.6	2.7	1.9	2.4	1.0	1.2	.6	.7	.3
17	.8	.9	3.9	3.3	2.7	1.6	2.1	1.0	1.2	.6	.9	.5
18	.8	.8	2.2	3.3	2.4	1.4	2.1	1.0	1.2	.6	.9	.5
19	.9	.8	.1	3.3	2.4	1.4	1.9	1.0	1.2	.6	1.0	.5
20	.9	.9	.1	3.3	2.7	1.4	1.6	.9	1.2	.6	.9	.6
21	.9	.9	2.1	3.3	2.4	1.6	1.6	.9	1.2	.7	.9	.9
22	.9	.8	1.4	3.0	3.0	1.9	1.6	.9	1.0	.7	.7	1.2
23	.9	.8	1.4	3.0	7.5	1.9	1.6	.9	1.0	.9	.7	1.2
24	.8	.8	1.4	3.3	6	1.9	1.6	1.0	1.0	.9	.7	1.4
25	.9	.9	1.4	3.3	4.6	2.1	1.4	1.2	1.0	.7	.6	1.2
26	.9	.9	1.4	3.3	4.3	2.1	1.2	1.4	1.2	.5	.6	1.0
27	.9	.9	1.4	3.0	3.9	2.1	1.2	1.4	1.0	.5	.6	.9
28	1.0	1.3	1.6	3.0	3.9	2.1	1.2	1.4	1.0	.5	.6	.7
29	1.0	1.4	1.6	3.0		2.1	1.2	1.4	.9	.6	.6	.7
30	1.2	1.4	1.9	2.7		1.9	1.4	1.4	.9	.7	.6	.6
31	1.7		23	2.7		1.9		1.4		.7	.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.7	0.8	0.93	57.1
November	1.7	.8	1.05	62.3
December	23	.1	2.78	171
January	52	2.1	5.96	366
February	7.5	2.4	3.2	177
March	3.9	1.4	2.2	137
April	2.4	1.2	1.82	108
May	1.6	.9	1.16	71.6
June	1.6	.7	1.16	68.9
July	1.0	.5	.68	41.7
August	1.0	.6	.67	41.1
September	1.4	.3	.73	43.6
The year	52	.1	1.86	1,350

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Cucamonga Creek near Upland, Calif.

Location.- Water-stage recorder in NE¼ sec. 17, T. 1 N., R. 7 W., 6 miles north of Upland. Altitude, about 2,550 feet.

Drainage area.- 10.1 square miles.

Records available.- December 1928 to September 1934.

Extremes.- Maximum discharge during year, 313 second-feet Dec. 31 (gage height, 2.04 feet); minimum, 0.8 second-foot July 16, 17, Aug. 28 to Sept. 15.
1928-34: Maximum discharge, 340 second-feet Feb. 9, 1932; minimum, 0.8 second-foot July 16, 17, Aug. 28 to Sept. 15, 1934.

Remarks.- Records good. Daily discharge Oct. 1 to Dec. 15 and May 1 to Sept. 30 when entire flow was diverted above gage for irrigation, was interpolated between weekly measurements made in diversion canal.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	2.0	1.9	236	4.5	5	*3.4	2.4	2.6	1.9	1.1	0.8
2	1.4	1.9	2.0	44	4.5	5	3.4	2.4	2.6	1.8	1.2	.8
3	1.4	1.9	2.1	*25	4.8	4.5	3.2	2.5	2.6	1.7	1.2	.8
4	1.4	1.9	2.2	20	4.8	4.5	3.0	2.5	2.6	1.6	1.2	.8
5	1.4	1.9	2.3	15	4.8	4.5	3.0	2.5	2.5	1.6	1.3	.8
6	1.4	1.9	2.3	13	4.8	4.5	2.8	2.6	2.5	1.5	1.3	.8
7	1.4	1.8	2.3	10	4.8	4.3	2.6	2.6	2.5	1.4	1.3	.8
8	1.4	1.8	2.3	9	4.8	4.1	2.4	2.6	2.4	1.4	1.2	.8
9	1.5	1.8	2.2	8	4.8	4.3	2.6	2.5	2.4	1.3	1.2	.8
10	1.5	1.8	2.2	7.5	4.5	4.1	2.6	2.5	2.4	1.3	1.1	.8
11	1.5	1.8	2.2	7.5	4.3	3.9	2.4	2.4	2.3	1.2	1.1	.8
12	1.5	1.8	2.2	7	4.1	3.9	2.4	2.4	2.3	1.1	1.0	.8
13	1.5	1.8	14	7	3.9	3.7	2.4	2.4	2.3	1.0	1.0	.8
14	1.5	1.8	9	7	3.7	3.7	2.4	2.4	2.4	1.0	1.0	.8
15	1.5	1.8	7	6.5	3.4	3.7	2.6	2.3	2.4	.9	1.1	.8
16	1.5	1.9	6.5	6.5	3.4	3.7	2.6	2.3	2.4	.8	1.1	.9
17	1.5	1.9	5.5	6.5	3.4	3.4	2.4	2.3	2.5	.8	1.2	.9
18	1.5	1.9	4.5	6.5	3.4	3.4	2.2	2.2	2.5	.9	1.2	.9
19	1.5	1.9	3.7	6.5	3.4	3.4	1.9	2.2	2.4	1.0	1.2	.9
20	1.5	1.9	3.4	6	3.4	3.7	1.8	2.1	2.4	1.1	1.3	.9
21	1.5	1.9	3.2	5.5	3.4	3.7	1.8	2.1	2.3	1.2	1.3	.9
22	1.5	1.9	3.0	5	3.7	3.7	1.8	2.2	2.3	1.3	1.3	1.4
23	1.5	1.8	3.0	5	8.5	3.4	2.2	2.2	2.3	1.4	1.2	1.4
24	1.5	1.8	2.8	5	9.5	3.4	2.2	2.3	2.2	1.4	1.1	1.5
25	1.5	1.8	2.8	5	6	3.7	2.1	2.3	2.2	1.3	1.0	1.4
26	1.5	1.7	2.6	5	6	3.4	1.8	2.4	2.2	1.3	1.0	1.2
27	1.5	1.7	2.6	5	6	3.2	1.6	2.4	2.1	1.2	.9	1.0
28	1.5	1.7	2.6	4.8	5.5	*3.2	2.2	2.5	2.1	1.2	.8	1.0
29	1.6	1.8	2.4	4.8		*3.4	2.1	2.5	2.5	1.1	.8	.9
30	1.6	1.8	3.7	4.8		*3.4	2.1	2.5	2.0	1.1	.8	.9
31	2.0		124	4.5		*3.4		2.6		1.1	.8	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.0	1.4	1.50	92.0
November	2.0	1.7	1.84	109
December	124	1.9	7.50	461
January	236	4.5	16.4	1,010
February	9.5	3.4	4.72	262
March	5	3.2	3.85	236
April	3.4	1.8	2.40	143
May	2.6	2.1	2.39	147
June	2.6	2.0	2.36	140
July	1.9	.8	1.25	77.2
August	1.3	.8	1.11	68.0
September	1.5	.8	.94	55.7
The year	236	.8	3.87	2,800

*Estimated.

San Jacinto River near San Jacinto, Calif.

Location.- Water-stage recorder in SE¼ sec. 13, T. 5 S., R. 1 E., at highway bridge 8¼ miles southeast of San Jacinto. Altitude, about 1,980 feet.

Drainage area.- 140 square miles.

Records available.- October 1920 to September 1934.

Extremes.- Maximum discharge during year, 295 second-feet Jan. 1 (gage height, 3.20 feet); no flow during summer.
1920-1934: Maximum discharge, about 45,000 second-feet Feb. 16, 1927; usually no flow during summer.

Remarks.- Records good. Several diversions above gage. Storage at Lake Hemet.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	148	0	0.4						0
2			0	77	0	0						0
3			0	35	0	0						0
4			0	18	0	0						0
5			0	9.5	0	0						0
6			0	6	0	0						0
7			0	4.7	0	0						0
8			0	3.7	0	0						0
9			0	3.2	0	0						0
10			0	2.7	0	0						0
11			0	2.5	0	0						0
12			0	1.9	0	0						0
13			12	1.1	0	0						0
14			24	1.0	0	0						0
15			4.2	.9	0	0						0
16			2.0	.6	0	0						0
17			1.2	0	0	0						0
18			.6	0	0	0						0
19			*.4	0	0	0						*1.0
20			*.2	0	0	0						0
21			*.1	0	0	0						0
22			*.1	0	0	0						0
23			0	0	.9	0						0
24			0	0	26	0						0
25			0	0	5.5	0						0
26			0	0	2.0	0						0
27			0	0	1.0	0						0
28			0	0	.8	0						0
29			0	0		0						0
30			0	0		0						0
31			17	0		0						0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	24	0	1.99	123
January	148	0	10.2	626
February	26	0	1.29	71.8
March	.4	0	.013	.8
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	1.0	0	.032	2.0
September	0	0	0	0
The year	148	0	1.14	824

*Estimated.

Note:-No flow during months left blank.

San Jacinto River near Elsinore, Calif.

Location.- Water-stage recorder near east line sec. 9, T. 6 S., R. 4 W., 2½ miles above junction with Elsinore Lake (low-water stage) and 2 miles southeast of Elsinore. Altitude, about 1,270 feet.

Drainage area.- 717 square miles.

Records available.- January 1916 to September 1934.

Extremes.- Maximum discharge during year, 20 second-feet Mar. 24 (gage height, 2.95 feet); no flow most of year.
1916-34: Maximum discharge, about 16,000 second-feet Feb. 17, 1927 (gage height, 11.8 feet); no flow for several months each year.

Remarks.- Records good. Storage and diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Mar. 24	1.7
Mar. 25	1.2
Mar. 26	.4
Mar. 27	.1

Note.- No flow during year except for days given. Mean discharge for March, 0.11 second-foot; for year, 0.009 second-foot. Total run-off for March and year, 6.7 acre-feet.

Elsinore Lake at Elsinore, Calif.

Location.- Staff gage fastened to pier on northeast shore at Aloha Beach Club, Riverside County.

Records available.- December 1915 to September 1934.

Remarks.- Elsinore Lake overflows only during and after years of heavy rainfall. Temescal Creek is high-water outlet. Heavy rains during 1916 filled lake, and there was flow in Temescal Creek during 1916 and until July 1917. Surface of lake has been below outlet since then. History of lake is published in U. S. Geological Survey Water-Supply Papers 426, 429, and 441.

Gage height, in feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						36.5						
2											34.0	
3		36.7										
4							36.3					
5			36.4									
6	37.0								35.1	34.6		33.3
7					36.5	36.5						
8												
9			36.4					35.7			33.6	
10												
11				36.6			36.2			34.5		
12												33.2
13	36.9								35.0			
14			36.5		36.5	36.4						
15											33.7	
16						36.4		35.6				
17				36.6	36.5							
18										34.3		
19							36.1					
20	36.8		36.5						34.9			
21			36.5		36.5	36.4						
22												
23						36.3		35.4				
24		36.5		36.6								
25										34.2		
26												
27	36.8											
28			36.5			36.4			34.8			
29											33.4	
30												
31				36.6				35.2				

Note.- Add 1,200 feet to obtain elevation above mean sea level.

Temescal Creek near Corona, Calif.

Location.- Water-stage recorder in El Sobrante de San Jacinto grant, half a mile upstream from Blue Diamond Quarry and 4 miles southeast of Corona, Riverside County.
Records available.- January 1929 to September 1934.
Extremes.- 1929-34: Maximum discharge not determined; no flow most of each year.
Remarks.- No flow during year. Numerous diversions and three storage reservoirs above station.

Chino Creek near Prado, Calif.

Location.- Water-stage recorder in El Rincon grant, on the Chino-Rincon road, 1 mile west of Prado, Riverside County.
Records available.- January 1929 to September 1934.
Extremes.- Maximum discharge during year, 1,440 second-feet Jan. 1 (gage height, 10.50 feet); minimum, 0.2 second-foot at numerous times.
1929-34: Maximum discharge, that of Jan. 1, 1934; minimum, 0.2 second-foot at numerous times during 1933-34.
Remarks.- Records good. Discharge estimated Oct. 26, Nov. 28 to Dec. 4, Dec. 16, 18-29, Jan. 8-14, 21-23, Apr. 5-23, Sept. 25-30. Numerous irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.6	1.5	548	14	12	5.5	1.0	0.4	0.4	0.2	0.3
2	.5	.6	1.7	159	14	11	5.5	1.0	.4	.4	.2	.2
3	.4	.6	1.8	52	14	12	4.9	.9	.4	.4	.2	.3
4	.4	.6	2.0	31	13	12	4.6	.8	.4	.4	.2	.2
5	.4	.6	2.1	24	13	11	4.4	.8	.5	.4	.2	.2
6	.4	.6	2.2	22	13	11	3.8	.7	.4	.4	.3	.2
7	.4	.6	2.3	21	13	12	3.5	1.1	.4	.4	.3	.2
8	.5	.6	2.2	20	13	10	3.2	.9	.3	.4	.3	.3
9	.5	.6	2.2	18	12	10	2.8	.7	.3	.4	.3	.3
10	.6	.6	2.2	17	12	10	2.4	1.5	.3	.4	.3	.3
11	.6	.6	2.6	16	11	9	2.1	1.2	.3	.4	.3	.3
12	.6	.6	2.5	16	10	10	1.6	.8	.3	.4	.4	.3
13	.6	.5	13	15	7.5	9.5	1.3	.7	.3	.4	.3	.2
14	.6	.6	18	15	7	9.5	1.2	.8	.4	.4	.3	.2
15	.6	.6	7	15	7	9.5	1.1	.6	.4	.4	.3	.2
16	.6	.6	5	15	15	9	1.1	.5	.4	.4	.4	.2
17	.6	.7	3.6	15	10	9.5	1.0	.5	.5	.3	.4	.3
18	.5	.8	3.8	15	11	9	1.0	.5	.6	.3	.4	.3
19	.5	.8	4.1	15	11	8.5	.9	.5	.6	.3	.5	.3
20	.4	.7	4.1	15	13	8	.9	.5	.6	.3	.5	.3
21	.4	.6	4.0	15	11	8	1.0	.5	.6	.3	.5	.4
22	.5	.7	4.0	16	11	8	1.1	.5	.6	.3	.5	.4
23	.5	1.2	4.0	16	25	8.5	1.2	.7	.5	.3	.5	.4
24	.5	1.2	4.0	18	40	8.5	1.2	.4	.5	.4	.4	.4
25	.5	.9	4.0	17	20	7.5	1.2	.4	.5	.3	.4	.4
26	.5	.8	4.0	17	16	7	1.2	.4	.5	.3	.5	.4
27	.5	.9	4.0	16	15	6.5	.8	.4	.4	.3	.5	.4
28	.5	.9	4.0	16	14	6.5	.8	.4	.4	.3	.4	.4
29	.5	1.1	4.0	14		6.5	.9	.4	.5	.3	.4	.4
30	.6	1.3	11	14		6	1.0	.4	.4	.2	.4	.4
31	.6		120	14		5.5		.4		.2	.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.6	0.4	0.51	31.1
November	1.3	.5	.74	44.2
December	120	1.5	8.09	498
January	548	14	39.9	2,450
February	40	7	13.8	765
March	12	5.5	9.06	557
April	5.5	.8	2.11	125
May	1.5	.4	.67	41.5
June	.6	.3	.44	26.0
July	.4	.2	.35	21.4
August	.5	.2	.35	21.8
September	.4	.2	.30	18.0
The year	548	.2	6.36	4,600

San Antonio Creek near Claremont, Calif.

Location.- Water-stage recorder in NW¼SE¼ sec. 36, T. 2 N., R. 8 W., at highway bridge half a mile above Southern California Edison Co.'s Sierra power plant and 8 miles northeast of Claremont. Altitude, about 3,400 feet.

Drainage area.- 16.9 square miles.

Records available.- March 1901 to September 1934.

Average discharge.- 17 years (1917-34), 7.0 second-feet. Average combined discharge, creek and canal, 17 years (1917-34), 19.8 second-feet.

Extremes.- Maximum discharge during year, 119 second-feet Jan. 1 (gage height, 3.96 feet); minimum, 0.1 second-foot Aug. 16 to Sept. 30.
1917-34: Maximum discharge, 1,020 second-feet Dec. 19, 1921 (gage height, 8.20 feet); minimum, 0.1 second-foot in August and September 1919, September and October 1925, Aug. 16 to Sept. 30, 1934.

Remarks.- Records good. Discharge estimated Aug. 11-20. See record for Southern California Edison Co.'s canal near Claremont, which diverts water above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.4	0.6	e1	1.7	1.5	0.9	0.5	0.6	0.3	0.2	0.1
2	.3	.4	.6	26	1.6	1.5	.9	.5	.6	.3	.2	.1
3	.3	.4	.6	6.5	1.6	1.4	.9	.5	.6	.3	.2	.1
4	.3	.4	.6	5.5	1.6	1.3	.9	.4	.6	.3	.2	.1
5	.3	.4	.6	3.9	1.6	1.2	.8	.5	.6	.3	.2	.1
6	.3	.4	.6	3.4	1.5	1.2	.8	.5	.6	.3	.2	.1
7	.3	.4	.6	3.0	1.5	1.3	.7	.5	.6	.3	.2	.1
8	.3	.4	.6	3.0	1.5	1.2	.7	.5	.6	.3	.2	.1
9	.3	.4	.6	2.8	1.5	1.2	.6	.5	.6	.2	.2	.1
10	.3	.4	.6	2.6	1.5	1.1	.6	.5	.6	.2	.2	.1
11	.4	.4	.6	2.5	1.5	1.1	.6	.5	.6	.2	.2	.1
12	.3	.4	.6	2.3	1.5	1.1	.6	.5	.6	.2	.2	.1
13	.3	.4	2.2	2.2	1.5	1.1	.6	.5	.6	.2	.2	.1
14	.3	.4	2.0	2.1	1.5	1.1	.6	.5	.6	.2	.2	.1
15	.3	.4	1.3	2.1	1.5	1.1	.6	.5	.6	.2	.2	.1
16	.3	.4	1.3	2.1	1.5	1.1	.6	.4	.6	.2	.1	.1
17	.3	.4	1.1	2.0	1.5	1.0	.6	.5	.4	.2	.1	.1
18	.3	.4	.9	2.0	1.5	1.0	.6	.5	.4	.2	.1	.1
19	.3	.4	.9	1.9	1.5	1.0	.6	.5	.4	.2	.1	.1
20	.3	.4	.9	1.9	1.5	1.0	.6	.5	.4	.2	.1	.1
21	.3	.4	.9	1.8	1.5	1.0	.5	.5	.4	.2	.1	.1
22	.3	.4	.9	1.8	1.6	1.0	.5	.5	.4	.2	.1	.1
23	.3	.3	.9	1.7	2.3	1.0	.5	.4	.4	.2	.1	.1
24	.3	.3	.8	1.7	2.1	1.0	.5	.4	.3	.2	.1	.1
25	.3	.3	.8	1.7	1.7	1.0	.5	.5	.3	.2	.1	.1
26	.3	.4	.8	1.7	1.7	.9	.5	.5	.3	.2	.1	.1
27	.3	.4	.8	1.7	1.6	.9	.5	.5	.3	.2	.1	.1
28	.4	.5	.8	1.7	1.5	.9	.5	.5	.3	.2	.1	.1
29	.4	.5	.8	1.6		.9	.5	.6	.3	.2	.1	.1
30	.4	.6	.9	1.5		.9	.5	.6	.3	.2	.1	.1
31	.4		27	1.4		.9		.6		.2	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.4	0.3	0.32	19.4
November	.6	.3	.40	24.0
December	27	.6	1.72	106
January	e1	1.4	5.74	353
February	2.3	1.5	1.59	88.5
March	1.5	.9	1.09	67.2
April	.9	.5	.63	37.3
May	.6	.4	.50	30.5
June	.6	.3	.48	28.8
July	.3	.2	.23	13.9
August	.2	.1	.15	9.1
September	.1	.1	.10	6.0
The year	81	.1	1.08	784

San Antonio Creek near Claremont, Calif.

(Continued)

Combined discharge, in second-feet, of San Antonio Creek and Southern California Edison Co.'s canal near Claremont, Calif., 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.7	5.6	6.0	95	13.6	13.6	11.7	9.4	11.7	6.6	4.5	3.8
2	5.5	5.6	5.6	46	14.3	13.6	11.9	12.0	11.2	5.9	4.8	3.8
3	5.6	5.3	5.6	25	13.8	13.7	11.9	12.0	10.8	6.2	4.3	3.8
4	5.5	5.4	5.8	23	13.0	13.1	11.9	11.9	10.4	6.2	4.2	3.8
5	5.5	5.6	5.8	18.1	14.3	11.8	11.8	12.0	10.0	6.0	4.0	3.6
6	5.6	5.2	5.8	18.7	14.2	11.8	13.2	11.2	9.7	6.4	4.3	3.8
7	5.5	5.4	5.8	17.6	14.2	12.1	11.9	8.7	9.3	5.1	4.4	3.9
8	5.5	5.3	5.8	19.4	13.8	12.2	11.7	8.7	8.9	5.4	4.3	3.6
9	5.5	5.4	6.0	20	13.8	12.1	11.4	8.7	8.6	5.0	4.3	3.6
10	5.6	5.3	5.6	19.8	13.7	12.0	11.2	8.5	8.3	5.0	4.3	3.3
11	5.8	5.6	5.8	22	13.3	12.0	10.8	8.6	8.4	4.5	4.0	3.6
12	5.7	5.6	5.7	23	13.2	12.0	10.6	8.5	8.4	4.5	4.0	3.9
13	5.5	5.0	13.6	22	13.5	12.0	10.6	8.1	8.6	4.2	4.0	3.9
14	5.7	5.3	9.7	22	14.7	12.4	10.5	8.3	8.7	3.2	3.8	3.9
15	5.7	5.3	8.5	22	14.9	12.8	10.6	9.3	8.9	4.9	4.2	3.9
16	5.7	5.5	8.3	22	13.5	12.8	10.6	11.3	8.2	4.5	4.1	3.9
17	5.5	5.4	7.9	21	13.5	12.7	10.3	11.4	7.8	4.2	4.1	3.6
18	5.7	5.1	7.7	21	14.5	12.7	12.1	8.5	7.3	4.2	4.1	3.6
19	5.7	5.4	7.6	19.0	14.5	12.0	12.0	8.7	7.3	3.7	4.5	3.6
20	5.7	5.6	7.4	18.2	14.0	12.0	12.0	8.5	7.0	4.0	4.1	3.3
21	5.5	5.6	7.5	17.8	13.6	12.0	11.9	8.4	8.0	4.7	4.4	3.6
22	5.5	5.5	7.5	18.4	13.8	12.2	9.6	8.4	7.9	4.7	4.4	3.6
23	5.5	5.1	7.5	18.7	15.8	12.2	9.9	8.3	7.9	4.7	4.1	3.8
24	5.5	5.1	7.4	17.5	15.2	12.2	9.9	8.2	7.6	4.8	4.1	4.0
25	5.3	5.1	7.3	17.3	14.4	12.2	9.8	8.4	7.4	4.8	4.1	3.3
26	5.5	5.2	7.3	16.9	14.1	12.1	9.4	8.4	7.4	4.8	4.1	3.3
27	5.3	5.4	7.0	15.1	12.9	12.1	9.3	8.4	7.3	4.8	4.1	3.3
28	5.2	6.1	7.1	13.9	12.6	12.0	9.5	8.4	7.1	4.8	4.3	3.1
29	5.4	5.7	7.3	13.2		11.9	9.3	8.4	6.8	4.5	3.9	3.3
30	5.6	6.0	7.4	12.4		11.8	8.9	11.8	6.6	4.3	3.9	3.3
31	5.6		40	13.2		11.7		11.7		4.3	4.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5.8	5.2	5.55	341
November	6.1	5.0	5.42	323
December	40	5.6	8.17	502
January	95	12.4	22.2	1,370
February	15.8	12.6	14.0	775
March	13.7	11.7	12.3	757
April	13.2	8.9	10.9	647
May	12.0	8.1	9.45	581
June	11.7	6.6	8.45	503
July	6.6	3.2	4.87	299
August	4.8	3.8	4.19	257
September	4.0	3.1	3.63	216
The year	95	3.1	9.07	6,570

Southern California Edison Co.'s canal near Claremont, Calif.

Location.- Hook gage in NW¼ sec. 1, T. 1 N., R. 8 W., at weir in tailrace of Sierra power house on San Antonio Creek, 1½ miles below intake and 8 miles northeast of Claremont.

Records available.- January 1917 to September 1934.

Average discharge.- 17 years, 12.8 second-feet.

Remarks.- This canal diverts water from San Antonio Creek in SE¼ sec. 25, T. 2 N., R. 8 W., 1 mile above gaging station on San Antonio Creek near Claremont. Water is used for power development at Sierra power house and then returned to creek. Discharge record furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.4	5.2	5.4	14.0	11.9	12.1	10.8	8.9	11.1	6.3	4.3	3.7
2	5.2	5.2	5.0	19.6	12.7	12.1	11.0	11.5	10.6	5.6	4.6	3.7
3	5.3	4.9	5.0	18.8	12.2	12.3	11.0	11.5	10.2	5.9	4.1	3.7
4	5.2	5.0	5.2	17.9	11.4	11.8	11.0	11.5	9.8	5.9	4.0	3.7
5	5.2	5.2	5.2	14.2	12.7	10.6	11.0	11.5	9.4	5.7	3.8	3.5
6	5.3	4.8	5.2	15.3	12.7	10.6	12.4	10.7	9.1	6.1	4.1	3.7
7	5.2	5.0	5.2	13.8	12.7	10.8	11.2	8.2	8.7	4.8	4.2	3.8
8	5.2	4.9	5.2	16.4	12.3	11.0	11.0	8.2	8.3	5.1	4.1	3.5
9	5.2	5.0	5.4	17.2	12.3	10.9	10.8	8.2	8.0	4.8	4.1	3.5
10	5.3	4.9	5.0	17.2	12.2	10.9	10.6	8.0	7.7	4.8	4.1	3.2
11	5.4	5.2	5.2	19.2	11.8	10.9	10.2	8.1	7.8	4.3	3.8	3.5
12	5.4	5.2	5.1	21	11.7	10.9	10.0	8.0	7.8	4.3	3.8	3.8
13	5.2	4.6	11.4	20	12.0	10.9	10.0	7.6	8.0	4.0	3.8	3.8
14	5.4	4.9	7.7	20	13.2	11.3	9.9	7.8	8.1	3.0	3.6	3.8
15	5.4	4.9	7.2	19.9	13.4	11.7	10.0	8.8	8.3	4.7	4.0	3.8
16	5.4	5.1	7.0	19.5	12.0	11.7	10.0	10.9	7.6	4.3	4.0	3.8
17	5.2	5.0	6.8	19.2	12.0	11.7	9.7	10.9	7.4	4.0	4.0	3.5
18	5.4	4.7	6.8	18.8	13.0	11.7	11.5	8.0	6.9	4.0	4.0	3.5
19	5.4	5.0	6.7	17.1	13.0	11.0	11.4	8.2	6.9	3.5	4.4	3.5
20	5.4	5.2	6.5	16.3	12.5	11.0	11.4	8.0	6.6	3.8	4.0	3.2
21	5.2	5.2	6.6	16.0	12.1	11.0	11.4	7.9	7.6	4.5	4.3	3.5
22	5.2	5.1	6.6	16.5	12.2	11.2	9.1	7.9	7.5	4.5	4.3	3.5
23	5.2	4.8	6.6	17.0	13.5	11.2	9.4	7.9	7.5	4.5	4.0	3.7
24	5.2	4.8	6.6	15.8	13.1	11.2	9.4	7.8	7.3	4.6	4.0	3.9
25	5.0	4.8	6.5	15.6	12.7	11.2	9.3	7.9	7.1	4.6	4.0	3.2
26	5.2	4.8	6.5	15.2	12.4	11.2	8.9	7.9	7.1	4.6	4.0	3.2
27	5.0	5.0	6.2	13.4	11.3	11.2	8.8	7.9	7.0	4.6	4.0	3.2
28	4.8	5.6	6.3	12.2	11.1	11.1	9.0	7.9	6.8	4.6	4.2	3.0
29	5.0	5.2	6.5	11.6		11.0	8.8	7.8	6.5	4.3	3.8	3.2
30	5.2	5.4	6.5	10.9		10.9	8.4	11.2	6.3	4.1	3.8	3.2
31	5.2		12.5	11.8		10.8		11.1		4.1	4.0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5.4	4.8	5.24	322
November	5.6	4.6	5.02	299
December	12.5	5.0	6.44	396
January	21	10.9	16.5	1,010
February	13.5	11.1	12.4	686
March	12.3	10.6	11.2	690
April	12.4	8.4	10.2	610
May	11.5	7.6	8.96	551
June	11.1	6.3	7.97	474
July	6.3	3.0	4.64	285
August	4.6	3.6	4.04	248
September	3.9	3.0	3.53	210
The year	21	3.0	7.99	5,780

Santiago Creek at Santiago Reservoir, near Villa Park, Calif.

Location.- Staff gage at Santiago Creek Dam in Lomas de Santiago grant, 2 miles east of Orange County Park and 5 miles east of Villa Park, Orange County.

Drainage area.- 63 square miles.

Records available.- January 1932 to September 1934.

Remarks.- Dam completed December 1931. Reservoir capacity 25,000 acre-feet. Flow regulated at Santiago Reservoir for irrigation. Draft measured by means of several Venturi flumes. Entire record furnished by Serrano and Carpenter Irrigation Districts and Irvine Co.

Inflow, in acre-feet, of Santiago Creek to Santiago Reservoir, near Villa Park, Calif., 1933-34

Month	Storage		Draft	*Inflow
	End of month	Increase or decrease		
October	1,845	-1,080	1,478	398
November	1,150	-695	909	214
December	1,430	+280	114	394
January	2,639	+1,209		1,209
February	2,975	+336	4	340
March	3,280	+305	9	314
April	3,120	-160	472	312
May	3,085	-35	372	337
June	2,860	-225	546	321
July	2,465	-395	647	252
August	1,925	-540	789	249
September	1,530	-395	557	162
The year			5,897	4,502

*Not corrected for evaporation.

Santiago Creek near Villa Park, Calif.

Location.- Water-stage recorder in SW¼ sec. 13, T. 4 S., R. 9 W., five-eights of a mile below diversion dam of Serrano and Carpenter Irrigation Districts and 1⅜ miles northeast of Villa Park. Altitude, about 420 feet.
Drainage area.- 83.8 square miles.
Records available.- June 1920 to September 1934.
Average discharge.- 14 years, 7.19 second-feet.
Extremes.- Maximum discharge during year, 271 second-feet Jan. 1 (gage height, 1.96 feet); no flow most of year.
1920-34: Maximum discharge, about 11,000 second-feet Feb. 16, 1927 (gage height, 8.4 feet); no flow several months each year.
Remarks.- Records fair. Irvine Co. and Serrano and Carpenter Irrigation Districts divert above gage. Flow controlled by storage in Santiago Reservoir.

Discharge, in second-feet, 1933-34

Dec. 13	6.5	Jan. 1	103	Jan. 29	4.4
Dec. 14	3.2	Jan. 2	5	Feb. 23	1.8
Dec. 15	2.6	Jan. 3	.3	Feb. 24	4.7
Dec. 16	2.4	Jan. 4	.3	Feb. 25	*.1
Dec. 17	2.2	Jan. 5	.2	Feb. 26	*.1
Dec. 18	.9	Jan. 6	.1	Mar. 23	9.8
Dec. 31	61	Jan. 28	1.2		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	61	0	2.54	156
January	103	0	3.69	227
February	4.7	0	.24	13.3
March	9.8	0	.32	19.4
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	103	0	.57	416

*Estimated.

Note.- No flow during year except for days given above.

Santiago Creek at Santa Ana, Calif.

Location.- Water-stage recorder in Santiago de Santa Ana grant, at end of Baker Street, Santa Ana. Altitude, about 120 feet.
Records available.- January 1929 to September 1934.
Extremes.- Maximum discharge during year, 265 second-feet Jan. 1 (gage height, 3.25 feet); no flow most of year.
1929-34: Maximum discharge, 272 second-feet Dec. 28, 1931; no flow greater part of each year.
Remarks.- Records fair. Irvine Co. and Serrano and Carpenter Irrigation Districts divert above gage.

Discharge, in second-feet, 1933-34

Dec. 13	*1.0	Jan. 12	*20	Jan. 26	5
Dec. 31	82	Jan. 13	13	Mar. 5	*5
Jan. 1	108	Jan. 14	*.5	Mar. 6	*.5
Jan. 2	*5	Feb. 24	4.0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	82	0	2.7	165
January	108	0	4.73	291
February	5	0	3.2	17.9
March	5	0	.18	10.9
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	108	0	.67	485

*Estimated.

Note.- No flow during year except for days given above.

Irvine Ranch Drainage canal near Tustin, Calif.

Location.- Water-stage recorder in San Joaquin grant, on Lane road bridge 5 miles south of Tustin, Orange County.

Drainage area.- 93 square miles.

Records available.- November 1930 to September 1934.

Extremes.- Maximum discharge during year, 3,000 second-feet Jan. 1 (gage height, 11.75 feet); no flow for several periods.
1930-34: Maximum discharge, 4,330 second-feet Jan. 19, 1933 (gage height, 12.98 feet); no flow during periods in 1932-34.

Remarks.- This canal serves to carry storm run-off from foothills across ranch and to drain soil in a small area between Tustin and ocean. Record furnished by Orange County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.2	0	1,560	0.1	0.6	0.1	0.7	0	0	0	
2	0	0	0	310	.1	.5	.1	.7	0	0	0	
3	0	0	0	70	.1	.4	.1	.7	0	0	0	
4	0	0	0	25	.1	.3	.1	.7	.1	.1	0	
5	0	0	0	1.0	.1	.2	.2	.7	.1	.2	0	
6	0	0	0	.1	.1	.2	.2	.7	.1	.2	.1	
7	0	0	0	.1	.1	.2	.2	.7	.1	.2	.1	
8	0	0	0	0	.1	.2	.2	.7	0	.2	0	
9	0	0	0	0	.1	.2	.2	.7	0	.1	0	
10	0	0	0	0	.1	.2	.3	.6	0	.1	0	
11	0	0	0	0	.1	.1	.3	.6	0	.1	.1	
12	0	0	0	0	.1	.1	.3	.6	0	.1	.1	
13	0	0	.1	0	.1	.1	.3	.6	0	0.0	.1	
14	0	0	.1	0	.1	.1	.4	.6	0	0	.1	
15	0	0	.1	0	.1	.1	.4	.6	0	0	.1	
16	0	0	.1	0	.1	.1	.4	.6	0	.1	.1	
17	0	0	.1	0	.1	.1	.5	.5	0	.2	.1	
18	0	0	.1	0	.2	.1	.5	.5	0	.2	.1	
19	0	0	.1	0	.2	.1	.5	.4	0	1.0	.1	
20	0	0	.1	0	.2	.1	.5	.3	0	1.0	.1	
21	0	0	.1	0	.2	.1	.5	.2	0	.9	.1	
22	0	0	.1	0	.2	.1	.5	.1	0	.7	.1	
23	0	0	.1	0	.2	.1	.6	.1	0	.4	.1	
24	0	0	.1	.1	43	.1	.6	.1	0	.1	.1	
25	0	0	.1	.1	5	.1	.6	.1	0	.1	.1	
26	0	0	.1	.1	3.1	.1	.6	0	0	.1	.1	
27	0	0	.1	.1	2.0	.1	.6	0	0	0	.1	
28	0	0	.1	.1	1.5	.1	.6	0	0	0	.1	
29	0	0	.1	.1		.1	.7	0	0	0	.1	
30	.1	0	49	.1		.1	.7	0	0	0	.1	
31	.1		595	.1		.1		0		0	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.1	0	0.006	0.4
November	.2	0	.007	.4
December	595	0	20.8	1,280
January	1,560	0	63.5	3,900
February	43	.1	2.05	114
March	.6	.1	.16	10.1
April	.7	.1	.39	23.4
May	.7	0	.41	25.4
June	.1	0	.01	.8
July	1.0	0	.20	12.1
August	.1	0	.07	4.6
September	0	0	0	0
The year	1,560	0	7.42	5,370

Note:- No flow during September.

San Gabriel River near Camp Bonita, Calif.

Location.- Water-stage recorder in SW¼ sec. 22, T. 2 N., R. 9 W., above junction with Susanna Canyon and 3 miles west of Camp Bonita

Records available.- December 1932 to September 1934. October 1927 to September 1932 at station 3 miles upstream.

Extremes.- Maximum discharge during year, 8,500 second-feet Jan. 1 (gage height, 5.79 feet); minimum, 3.0 second-feet Sept. 30 (gage height, 2.13 feet).
1932-34: Maximum discharge, that of Jan. 1, 1934; minimum, 2.6 second-feet Sept. 21, 1933 (gage height, 1.63 feet).

Remarks.- Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	12	12	6,210	45	58	34	24	15	11	8	6.5
2	7	11	12	752	44	57	35	24	15	10	9	6.5
3	6.5	9	12	270	43	57	32	24	15	10	8.5	5.5
4	6.5	8	11	185	42	58	34	23	16	10	8.5	6
5	6.5	8	11	165	40	55	34	21	19	10	8.5	6
6	7	9	10	147	39	53	33	22	22	9.5	8	6.5
7	7	9.5	10	131	38	53	32	21	20	10	7	7
8	7	9.5	10	123	36	51	30	21	16	10	6	8
9	7	9.5	11	111	33	48	31	21	16	9.5	5.5	10
10	8	9	11	99	34	51	30	20	15	9	5.5	10
11	11	8.5	12	83	35	51	31	20	15	8.5	5.5	10
12	8.5	8	14	76	35	49	30	19	14	8	5.5	9.5
13	8	7	215	71	35	45	29	19	15	7.5	6	8.5
14	7.5	7.5	69	66	35	44	30	19	17	8.5	6	7
15	7	8	48	63	35	45	30	18	17	7.5	6.5	6.5
16	6.5	8.5	38	58	34	42	30	18	15	8.5	6.5	6.5
17	6	9.5	29	54	33	42	30	19	14	6.5	6	7
18	6	8.5	24	51	32	42	29	18	14	6.5	5	6.5
19	6	9	22	48	32	44	28	18	14	7	6.5	6.5
20	6.5	9.5	21	43	33	40	29	18	15	8.5	8	6.5
21	6.5	9.5	21	43	30	39	28	17	15	9	7	7
22	6.5	9	20	51	32	39	27	16	14	9.5	6.5	9
23	6.5	8.5	20	60	127	43	26	16	13	10	7	11
24	6.5	8.5	19	55	152	43	27	15	13	10	7.5	12
25	6.5	8	19	50	76	43	26	16	14	10	7.5	11
26	6.5	9	18	50	64	39	25	18	14	8.5	7	9.5
27	8	9.5	18	49	58	37	24	18	13	7	6.5	7.5
28	8.5	10	17	48	58	36	24	17	12	7.5	6	6.5
29	9	11	27	46		34	23	16	11	8.5	6.5	5.5
30	9.5	12	38	46		34	23	16	10	8	6.5	4.5
31	12		1,240	45		35		16		6.5	6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	12	6	7.40	455
November	12	7	9.12	542
December	1,240	10	66.4	4,080
January	6,210	43	302	18,540
February	152	30	47.5	2,640
March	58	34	45.4	2,790
April	35	23	29.1	1,730
May	24	15	18.9	1,160
June	22	10	14.9	889
July	11	6.5	8.66	533
August	9	5	6.77	417
September	12	4.5	7.67	456
The year	6,210	4.5	47.3	34,230

San Gabriel River near Azusa, Calif.

Location.- Water-stage recorder in NW¼ sec. 23, T. 1 N., R. 10 W., 1 mile above Southern California Edison Co.'s power house and 2 miles north of Azusa.

Drainage.- 214 square miles.

Records available.- 1894 to September 1934.

Average discharge.- 38 years (1896-1934), 106 second-feet at gage. Average combined discharge of river and diversions, corrected for storage and evaporation in Morris Reservoir, 39 years (1895-1934), 151 second-feet.

Extremes.- Maximum discharge during year, 6,120 second-feet Jan. 1 (gage height, 6.92 feet); no flow for long periods.
1894-1934: Maximum discharge, 40,000 second-feet Jan. 18, 1916 (gage height, 12.0 feet); no flow for several months each year.

Remarks.- Records good. Some discharge measurements furnished by Los Angeles County Flood Control District and Pasadena Water Department. Morris Reservoir of Pasadena Water Department was placed in operation during year; capacity, 39,350 acre-feet. Azusa Canal (formerly power canal of Southern California Edison Co.) diverts about 5 miles above station, also above high-water line of Morris Reservoir. Sum of discharge in river at gage, Azusa Canal, storage released to city of Pasadena, and reservoir evaporation (see next page) gives total run-off comparable to combined discharge of San Gabriel River and Southern California Edison Co.'s canal as published in 1894-1933.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	2,380	4.9	1.0	100	9				
2			0	31	2.9	.8	100	3.5				
3			0	80	2.3	.8	98	1.9				
4			0	212	2.1	.6	135	1.2				
5			0	152	1.9	.8	153	1.0				
6			0	179	2.1	1.0	90	1.0				
7			0	173	1.7	.8	83	.8				
8			0	213	1.7	.6	75	.5				
9			0	213	1.7	.4	70	.3				
10			0	220	1.2	.4	74	.2				
11			0	220	1.0	.3	72	.1				
12			0	220	1.0	.3	70	.1				
13			153	216	1.0	.3	70	.2				
14			241	216	1.2	.3	70	.1				
15			84	213	1.2	.3	68	13				
16			33	202	1.4	36	67	34				
17			17	206	1.2	65	63	1.6				
18			6.5	210	1.0	61	79	.4				
19			10	189	1.7	83	79	.2				
20			6	7.5	1.4	89	75	.1				
21			2.1	6	1.2	95	77	0				
22			0	6.5	1.7	93	72	0				
23			0	6	2.1	93	70	0				
24			0	4.5	3.3	93	68	0				
25			0	3.7	2.1	93	54	0				
26			0	79	1.9	93	41	0				
27			0	174	1.7	93	15	0				
28			0	206	1.2	95	73	0				
29			0	213		95	90	0				
30			0	130		98	22	0				
31			158	4.9		98		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	241	0	22.9	1,410
January	2,380	3.7	212	13,100
February	4.9	1.0	1.78	98.8
March	98	.3	45.9	2,820
April	153	15	75.8	4,510
May	34	0	2.23	137
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	2,380	0	30.4	22,080

Note.- No flow during months left blank.

San Gabriel River near Azusa, Calif.

(Continued)

Monthly discharge, in acre-feet, of San Gabriel River near Azusa, Calif., corrected for storage, evaporation, and diversions, 1933-34

Month	Morris Reservoir				Azusa Canal near Azusa, Calif.	Total corrected run-off of San Gabriel River near Azusa, Calif.
	Gain or loss in storage	Evaporation from reservoir	Overflow from reservoir (San Gabriel River near Azusa, Calif.)	Storage released to Pasadena		
October	0	0	0	0	578	*578
November	0	0	0	0	713	*713
December	+3,035	0	1,410	0	1,710	6,155
January	+9,211	48	13,100	0	2,830	25,189
February	+1,851	36	99	0	3,710	5,696
March	+83	81	2,820	0	2,490	5,474
April	-4,582	85	4,510	0	3,000	3,013
May	-341	102	137	112	1,790	1,800
June	-845	77	0	802	1,470	*1,470
July	-1,401	108	0	1,325	769	*769
August	-1,362	89	0	1,287	571	*571
September	-1,277	65	0	1,234	559	*559
The year	+4,372	691	22,080	4,760	20,190	52,000

*Entire flow of river diverted by Azusa Canal (no overflow from Morris Reservoir).

San Gabriel River at Pico, Calif.

Location.- Water-stage recorder in Paso de Bartolo grant on Whittier Boulevard bridge half a mile east of Pico, Los Angeles County.

Records available.- October 1928 to September 1934.

Extremes.- Maximum discharge during year, 22,000 second-feet Jan. 1; no flow during several months.
1928-34: Maximum discharge, that of Jan. 1, 1934; no flow for several months each year.

Remarks.- Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	5,580	13	14	1.7					
2			0	36	7.5	14	1.5					
3			0	36	10	13	1.5					
4			0	26	9	13	1.6					
5			0	25	10	13	0					
6			0	25	10	13	0					
7			0	24	7.5	13	0					
8			0	24	13	12	0					
9			0	24	8.5	12	0					
10			0	23	7.5	12	0					
11			0	23	8.5	12	0					
12			0	24	9	12	0					
13			11	26	8.5	11	0					
14			7	27	9	11	0					
15			1.9	29	9	11	0					
16			0	22	9	11	0					
17			0	15	9	11	0					
18			0	10	9	11	0					
19			0	11	9	10	0					
20			0	14	9	10	0					
21			0	15	9	10	0					
22			0	11	10	10	0					
23			0	15	14	9.5	0					
24			0	13	20	9	0					
25			0	13	13	11	0					
26			0	9	12	11	0					
27			0	10	12	11	0					
28			0	11	11	9	0					
29			0	19		10	0					
30			0	18		2.2	0					
31			1,720	19		1.8						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	1,720	0	56.1	3,450
January	5,580	9	199	12,250
February	20	7.5	10.2	567
March	14	1.8	10.8	661
April	1.7	0	.21	12.5
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	5,580	0	23.4	16,940

Note:- No flow during months left blank.

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

Location.- Water-stage recorder near center of sec. 19, T. 2 N., R. 9 W., half a mile below North Fork of San Gabriel River and a quarter of a mile above Camp Rincon.

Drainage area.- 102 square miles.

Records available.- October 1927 to September 1934.

Extremes.- Maximum discharge during year, 5,320 second-feet Jan. 1 (gage height, 9.15 feet); minimum, 0.9 second-foot Sept. 17.
1927-34: Maximum discharge, that of Jan. 1, 1934; no flow at times in 1928 and 1929.

Remarks.- Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	5	6.5	3,340	33	72	25	12	8.5	7.5	2.5	2.3
2	3.0	4.8	6.5	760	31	66	25	12	8.5	7	2.7	2.5
3	3.0	4.3	7	354	28	62	22	14	9.5	7.5	2.5	2.3
4	3.0	4.0	7	203	27	58	23	13	12	6.5	2.5	2.3
5	3.0	4.0	6.5	150	27	53	24	10	13	5.5	2.5	2.0
6	2.7	4.0	6	120	25	50	22	10	13	5	2.5	2.3
7	3.0	4.0	6	102	25	42	21	10	11	4.0	2.7	2.5
8	3.0	4.0	6	96	25	44	20	10	9.5	4.5	3.0	2.7
9	3.2	4.0	6	82	25	43	21	9.5	10	4.0	2.7	3.0
10	3.5	4.3	6	76	25	41	20	9.5	10	3.7	2.7	3.0
11	3.7	4.3	6.5	74	25	40	18	8.5	9.5	3.5	2.3	3.0
12	3.5	4.0	8	68	25	40	20	8.5	9.5	3.5	2.3	2.5
13	3.2	4.0	264	62	27	35	17	9	9.5	3.2	2.3	2.3
14	3.2	3.7	74	54	27	38	20	9	10	3.0	2.3	2.0
15	3.0	4.0	41	50	27	41	22	9	10	2.5	2.3	1.8
16	3.0	4.0	31	48	28	36	22	9	9.5	2.3	2.0	1.5
17	2.7	4.3	27	46	27	32	22	9	9.5	2.3	2.0	1.5
18	2.7	4.0	22	44	26	32	21	9	9.5	2.3	2.0	3.2
19	2.7	4.3	23	43	27	31	18	9	9.5	2.3	2.3	8.5
20	3.0	4.3	20	42	28	31	18	8.5	9.5	2.5	3.0	4.0
21	3.2	4.5	19	39	26	30	17	8.5	9	2.7	2.7	3.5
22	3.2	4.5	18	36	26	31	17	8.5	8.5	3.0	2.7	3.7
23	3.0	4.3	16	36	147	31	17	8.5	7	3.2	3.0	4.0
24	3.0	4.3	15	35	266	31	17	8.5	6	3.5	3.2	4.3
25	3.0	4.3	14	34	136	31	17	8.5	8.5	3.5	3.5	4.0
26	3.2	4.5	13	33	102	31	16	9	7.5	3.0	2.7	3.2
27	3.2	4.5	12	31	96	29	16	9.5	7	2.5	2.5	3.0
28	3.5	6.5	11	31	76	28	15	9.5	6.5	2.5	2.3	2.7
29	3.7	7	11	31		26	15	9.5	6.5	2.7	2.3	2.3
30	4.3	7	14	33		25	14	10	6.5	2.5	2.3	2.0
31	5.5		1,400	33		24		9.5		2.5	2.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5.5	2.7	3.22	198
November	7	3.7	4.49	267
December	1,400	6	68.5	4,210
January	3,340	31	200	12,270
February	266	25	50.5	2,810
March	72	24	38.9	2,390
April	25	14	19.4	1,150
May	14	8.5	9.6	591
June	13	6.5	9.2	547
July	7.5	2.3	3.69	227
August	3.5	2.0	2.54	156
September	8.5	1.5	2.93	174
The year	3,340	1.5	34.5	24,990

Bear Creek near Camp Rincon, Calif.

Location.- Water-stage recorder near center of sec. 13, T. 2 N., R. 10 W., 1½ miles above junction with West Fork of San Gabriel River and 2 miles northwest of Camp Rincon.

Drainage area.- 26 square miles.

Records available.- October 1929 to September 1934.

Extremes.- Maximum discharge during year, 1,600 second-feet Jan. 1 (gage height, 8.0 feet); no flow for several periods.
1929-34: Maximum discharge, that of Jan. 1, 1934; no flow during 1933 and 1934.

Remarks.- Entire record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.3	1.7	732	5	16	6.5	3.3	2.2	1.0	0.1	0
2	0	.3	1.7	156	5	15	6.5	3.3	2.1	.9	.1	0
3	0	.2	1.6	85	5	15	5.5	3.5	2.1	.8	.1	0
4	0	.1	1.7	58	5	14	5.5	3.5	2.1	.8	.1	0
5	0	.1	1.7	44	5	14	5	3.3	2.7	.8	.1	0
6	0	.1	1.7	35	5	13	5	3.3	2.9	.6	.1	0
7	.1	.1	1.7	28	5	11	4.7	3.1	2.4	.4	.1	0
8	0	.2	1.7	24	5	9.5	4.7	3.1	2.1	.4	0	.1
9	.1	.2	1.7	21	5	9	4.7	3.1	2.1	.3	0	.2
10	.1	.2	1.8	20	4.7	7.5	4.5	2.7	1.9	.3	0	.2
11	.1	.2	1.8	18	4.7	6.5	4.2	2.5	1.7	.2	0	.1
12	0	.3	2.4	16	5	5.5	4.2	2.5	1.7	.2	0	.1
13	0	.3	46	15	4.7	5	4.2	2.4	1.8	.2	0	.1
14	0	.3	16	14	4.7	5.5	4.7	2.4	2.1	.2	0	0
15	.1	.3	10	13	5	5.5	5	2.2	2.1	.1	0	0
16	.1	.4	8.5	11	5	6	5	2.2	1.8	.1	0	0
17	.1	.4	7	10	5.5	6.5	5	2.4	1.6	.1	0	0
18	.1	.4	6.5	10	5	6.5	4.7	2.5	1.6	.1	0	0
19	.1	.5	5.5	9.5	5.5	7	4.5	2.5	1.6	.1	0	0
20	.1	.6	5	9	6.5	9	4.2	2.4	1.7	.1	0	0
21	.1	.6	4.7	8.5	5.5	9	3.7	2.4	1.9	.1	0	0
22	.1	.6	4.5	8	5	9	3.7	2.2	1.6	.1	0	0
23	.1	.6	4.2	7.5	31	9	4.0	2.2	1.3	.1	0	0
24	.1	.6	4.0	7.5	44	9	4.0	2.2	1.4	.1	0	0
25	0	.6	3.7	7	26	9	3.7	2.4	1.7	.1	0	0
26	.1	.6	3.5	6.5	20	8.5	3.3	2.7	1.7	.1	0	0
27	.1	.8	3.7	6.5	17	8.5	3.1	2.7	1.6	.1	0	0
28	.1	1.4	3.7	6.5	16	7	3.3	2.5	1.4	.1	0	0
29	.1	1.7	3.5	6.5		6.5	3.1	2.5	1.2	.1	0	0
30	.1	1.6	7	5.5		6.5	3.1	2.7	1.3	.1	0	0
31	.3		346	5.5		6		2.5		.1	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.3	0	0.07	4.6
November	1.7	.1	.49	29.0
December	346	1.6	16.6	1,020
January	732	5.5	45.3	2,780
February	44	4.7	9.49	527
March	16	5	8.9	545
April	6.5	3.1	4.44	264
May	3.5	2.2	2.68	165
June	2.9	1.2	1.85	110
July	1.0	.1	.28	17.5
August	.1	0	.02	1.4
September	.2	0	.03	1.6
The year	732	0	7.56	5,470

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

Location.- Water-stage recorder in NE¼ sec. 19, T. 2 N., R. 9 W., 0.7 mile above junction with West Fork of San Gabriel River and 1 mile north of Camp Rincon.

Drainage area.- 18.8 square miles.

Records available.- October 1929 to September 1934.

Extremes.- Maximum discharge during year, 276 second-feet Jan. 1 (gage height, 5.80 feet); no flow Aug. 28.
1929-34: Maximum discharge, that of Jan. 1, 1934; no flow Aug. 28, 1934.

Remarks.- Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	2.9	2.9	186	5	10	4.8	4.4	2.9	1.4	1.7	1.2
2	2.0	2.6	2.9	55	5	9.5	4.8	4.0	2.6	1.2	1.7	1.2
3	1.7	2.3	2.9	27	5	8.5	4.4	4.0	2.3	1.4	2.0	1.2
4	2.0	2.3	2.9	18	5	8	4.4	3.6	2.6	1.4	2.0	1.2
5	2.0	2.3	2.9	14	5	7.5	4.8	3.2	3.2	1.7	2.3	1.4
6	2.3	2.6	2.9	12	5	7	4.4	3.2	3.6	1.4	2.0	1.4
7	2.3	2.6	2.9	10	5	6.5	4.4	3.6	2.9	1.4	2.0	1.4
8	2.6	2.6	2.6	9.5	5	6	4.8	3.6	2.6	1.2	2.0	1.7
9	2.6	2.3	2.6	8.5	5	6	4.8	3.2	2.9	1.2	2.0	1.7
10	2.9	2.3	2.3	8.5	4.8	5.5	5	3.2	2.3	1.2	1.7	2.0
11	2.6	2.6	2.3	7.5	4.8	5.5	5	3.6	2.3	1.2	1.7	1.7
12	2.6	2.6	2.6	6.5	4.8	5	5	3.6	2.3	1.2	1.4	1.4
13	2.3	2.6	16	7	4.8	5	5	3.6	2.6	1.2	1.4	1.2
14	2.3	2.6	6.5	7	5	5.5	4.8	3.2	2.9	1.4	1.4	1.2
15	2.3	2.9	5	7	5	5.5	4.8	3.2	2.6	1.2	1.2	1.2
16	2.0	2.9	4.4	7	5.5	5.5	4.8	3.2	2.3	1.2	1.2	1.2
17	2.0	2.6	4.0	7	5.5	5.5	4.8	3.2	2.3	1.0	1.2	1.2
18	1.7	2.3	4.0	7	5.5	5.5	4.8	3.2	2.0	.8	1.2	1.2
19	1.7	2.6	4.0	7	5.5	5.5	4.8	3.2	2.3	.8	1.4	1.2
20	2.0	2.9	3.6	7	6	5.5	4.8	3.2	2.3	1.0	1.4	1.2
21	1.7	2.9	3.6	6.5	6	5.5	4.4	3.2	2.0	1.0	1.4	1.4
22	1.7	2.6	4.0	6	6	5.5	4.4	2.9	1.7	1.0	1.4	1.7
23	1.7	2.3	4.4	6	15	5.5	4.4	2.9	1.4	1.0	1.2	1.7
24	1.7	2.3	4.8	5.5	22	5.5	4.4	2.9	1.7	1.0	1.2	1.7
25	1.7	2.6	4.4	5.5	13	5.5	4.0	2.9	1.7	1.0	1.2	1.4
26	1.7	2.9	4.4	5.5	12	5	3.2	3.6	1.4	.8	1.2	1.4
27	2.0	2.9	4.0	5	11	4.8	3.2	3.6	1.2	.8	1.0	1.2
28	2.3	2.9	4.4	5	11	4.4	2.9	3.6	1.2	1.0	.8	1.0
29	2.3	2.9	4.4	5		4.4	2.6	3.2	1.2	1.2	.8	1.0
30	2.9	2.9	5	5.5		4.4	2.9	3.2	1.2	1.4	1.0	1.0
31	3.2		80	5.5		4.4		2.9		1.4	1.0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.2	1.7	2.15	132
November	2.9	2.3	2.62	156
December	80	2.3	6.57	404
January	186	5	15.5	951
February	22	4.8	7.08	393
March	10	4.4	5.92	364
April	5	2.6	4.39	261
May	4.4	2.9	3.36	206
June	3.6	1.2	2.22	132
July	1.7	.8	1.16	71.6
August	2.3	.8	1.45	89.5
September	2.0	1.0	1.35	80.5
The year	186	.8	4.48	3,240

Azusa Canal near Azusa, Calif.

(Formerly published as Southern California Edison Co.'s canal near Azusa, Calif.)

Location.- Hook gage and weirs at Azusa power house of the city of Pasadena in sec. 22, T. 1 N., R. 10 W., 1½ miles north of Azusa.

Records available.- 1896 to September 1934.

Average discharge.- 38 years (1896-1934), 46.4 second-feet.

Extremes.- Maximum mean daily discharge during year, 80 second-feet Mar. 3-13. 1896-1934: Maximum mean daily discharge, 97 second-feet Nov. 27, 1906; usually no flow for a few days each year.

Remarks.- Intake on San Gabriel River in SE¼SE¼ sec. 31, T. 2 N., R. 9 W., 5 miles above gage. Water is used for power development and irrigation. During rainy season part of water from power plant is wasted back into San Gabriel River below station. Records furnished by city of Pasadena.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.6	13.2	17.1	0	74	79	63	39	25	15.9	9.9	8.6
2	8.1	12.6	17.1	0	74	79	63	39	26	15.4	10.6	7.6
3	8.1	11.8	16.7	0	73	80	63	37	26	14.2	10.6	7.2
4	7.0	11.8	16.5	0	72	80	60	38	26	15.6	9.9	7.2
5	6.8	11.6	15.4	0	71	80	58	34	32	15.7	10.0	7.6
6	7.8	11.4	16.5	0	70	80	57	33	36	15.4	10.8	7.4
7	8.4	11.0	16.6	0	70	80	55	31	32	15.2	9.4	7.9
8	8.7	11.2	16.8	0	69	80	54	32	29	14.8	9.3	7.4
9	8.8	11.4	16.1	0	67	80	53	31	29	13.9	9.1	7.6
10	9.3	11.0	16.3	0	66	80	51	30	28	12.8	8.4	8.6
11	12.8	11.0	16.3	0	65	80	51	29	27	11.8	8.2	8.6
12	11.8	10.6	16.3	0	64	80	50	27	25	11.6	8.2	8.2
13	11.4	10.4	14.1	37	64	80	50	29	27	12.0	9.7	8.0
14	10.8	10.6	11.3	76	63	79	50	27	29	12.4	9.0	7.9
15	10.4	10.6	34	78	62	78	54	27	28	12.8	9.1	8.2
16	9.2	10.8	52	78	64	34	54	27	26	11.6	9.7	7.3
17	8.6	10.8	51	78	62	0	54	27	24	11.0	8.4	7.9
18	9.8	11.6	45	77	61	0	51	27	24	11.4	8.0	7.6
19	9.0	11.6	45	79	61	0	47	27	24	11.4	7.4	14.5
20	8.6	12.0	42	79	66	0	47	27	25	12.6	9.7	11.2
21	9.0	12.0	39	79	62	0	46	25	26	12.2	10.4	11.6
22	9.0	12.2	38	77	62	0	45	25	23	12.6	10.8	9.9
23	8.6	11.6	38	66	77	0	45	25	20	12.0	10.0	13.2
24	8.1	11.8	36	79	44	0	47	24	21	12.2	10.0	12.4
25	8.6	12.0	35	79	54	0	45	25	19.6	12.2	9.0	12.8
26	9.0	11.6	35	79	76	0	43	27	19.2	11.0	9.0	12.4
27	9.5	11.8	32	79	79	0	40	27	18.2	9.2	9.0	11.4
28	9.0	14.6	31	78	79	0	40	27	15.8	9.2	8.6	11.2
29	11.2	17.1	32	77		0	39	27	16.0	9.9	8.6	10.8
30	10.8	17.4	31	77		0	39	27	15.9	9.9	8.6	9.5
31	14.6		22	76		26		27		9.9	8.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14.6	6.8	9.40	578
November	17.4	10.4	12.0	713
December	52	11.3	27.8	1,710
January	79	0	46.1	2,830
February	79	44	66.8	3,710
March	80	0	40.5	2,490
April	63	39	50.5	3,000
May	39	24	29.2	1,790
June	36	15.8	24.8	1,470
July	15.9	9.2	12.5	769
August	10.8	7.4	9.28	571
September	14.5	7.2	9.40	559
The year	80	0	27.9	20,190

Rogers Creek near Azusa, Calif.

Location.- Water-stage recorder in NW¼NW¼ sec. 23, T. 1 N., R. 10 W., half a mile above mouth of creek and 2½ miles north of Azusa. Altitude, about 800 feet.

Drainage area.- 6.4 square miles.

Records available.- October 1917 to September 1934. May 1916 to June 1917, discharge measurements only.

Average discharge.- 17 years, 2.44 second-feet.

Extremes.- Maximum discharge during year, 825 second-feet Jan. 1 (gage height, 6.80 feet); no flow for large part of year.
1917-34: Maximum discharge, about 2,600 second-feet Apr. 7, 1926; no flow several months each year.

Remarks.- Records good. Discharge May 2 to June 30 estimated. Two small diversions above station diverted all the water at times. Results of some discharge measurements furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	363	1.5	3.4	0.6	0.1	0			
2			0	58	1.3	3.1	.6	.1	0			
3			0	28	1.3	3.0	.5	.1	0			
4			0	19	1.4	2.8	.4	.1	0			
5			0	14	1.3	2.4	.4	.1	.1			
6			0	11	1.2	2.1	.4	0	.1			
7			0	8.5	1.2	2.0	.4	0	.1			
8			0	7.5	1.2	1.8	.4	.1	.1			
9			0	6.5	1.0	1.6	.4	0	.1			
10			0	6.5	.9	1.5	.3	0	.1			
11			0	5	.9	1.4	.3	0	.1			
12			0	4.8	.9	1.4	.3	0	.1			
13			25	4.3	.9	1.4	.3	0	0			
14			3.1	3.6	.8	1.4	.4	0	0			
15			2.2	3.4	.6	*1.2	.4	0	0			
16			1.6	2.9	.8	1.0	.4	0	0			
17			1.0	2.5	.7	1.0	.4	0	0			
18			.8	2.2	.6	1.0	.4	0	0			
19			.6	2.1	.7	.9	.4	0	0			
20			.5	2.1	1.5	.9	.3	.0	0			
21			.4	2.1	1.0	.9	.3	0	0			
22			.3	2.0	1.2	.9	.3	0	0			
23			.3	1.9	13	.9	.3	0	0			
24			.3	1.9	18	1.0	.3	0	0			
25			.2	1.7	8	1.0	.2	0	0			
26			.2	1.6	5	1.0	.2	0	0			
27			.2	1.5	4.5	.9	.2	0	0			
28			.2	1.5	3.8	.8	0	0	0			
29			.2	1.5		.7	0	0	0			
30			.5	1.4		.6	0	0	0			
31			20e	1.5		.6		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	208	0	7.92	487
January	363	1.4	18.5	1,140
February	18	.6	2.69	149
March	3.4	.6	1.44	88.5
April	.6	0	.33	19.4
May	.1	0	.02	1.2
June	.1	0	.03	1.6
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	363	0	2.60	1,890

Note:- No flow during months left blank.

Fish Creek near Duarte, Calif.

Location.- Water-stage recorder in SW¼SW¼ sec. 15, T. 1 N., R. 10 W., three-quarters of a mile above mouth of canyon and 3 miles northeast of Duarte.

Drainage area.- 6.5 square miles.

Records available.- July to September 1916, and July 1917 to September 1934.

Average discharge.- 17 years (1917-34), 3.27 second-feet.

Extremes.- Maximum discharge during year, 640 second-feet Jan. 1 (gage height, 5.20 feet); minimum discharge, less than 0.1 second-foot in July, August, and September.

1916-34: Maximum discharge, about 2,180 second-feet Apr. 4, 1925 (gage height, 8.0 feet); no flow during periods in 1919-21, 1924, 1929-30.

Remarks.- Records good. Discharge estimated Jan. 6-9, Feb. 27 to Mar. 7, July 8 to Sept. 30. No diversions or regulation above station. Los Angeles County Flood Control District furnished some measurements.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0.5	0.5	360	1.8	6	2.2	1.0	0.6	0.4		
2		.3	.4	84	1.8	5	2.2	1.0	.5	.3		
3		.2	.4	33	1.8	4.5	2.0	.9	.6	.3		
4		.2	.5	22	1.8	3.8	1.8	.8	.7	.3		
5		.2	.5	15	1.8	3.6	1.8	.8	1.3	.3		
6		.2	.4	12	1.8	3.6	1.6	.7	1.1	.3		
7		.2	.4	10	2.0	3.4	1.5	.8	.8	.2		
8		.2	.4	8	2.2	3.2	1.3	.8	.8	.2		
9		.2	.4	7	2.2	3.2	1.3	.6	.8	.1		
10		.2	.4	6	2.0	2.9	1.3	.5	.8			
11		.2	.4	6	1.8	2.7	1.3	.5	.7			
12		.2	.5	5	1.8	2.7	1.3	.5	.6			
13		.2	47	4.6	1.6	2.5	1.5	.5	.8			
14		.2	6.5	4.4	1.5	2.4	1.6	.5	.8			
15		.2	4.8	4.1	1.5	2.5	1.6	.4	.8			
16		.2	3.4	3.8	1.5	2.9	1.6	.4	.7			
17		.2	2.4	3.2	1.5	2.9	1.3	.4	.7			
18		.2	1.9	2.9	1.5	2.5	1.1	.5	.6			
19		.2	1.6	2.9	1.5	2.4	1.0	.5	.7			
20		.2	1.2	2.5	1.5	2.4	1.0	.5	.6			
21		.2	1.1	2.4	1.5	2.4	1.0	.4	.7			
22		.2	1.0	2.2	2.0	2.4	1.1	.4	.5			
23		.2	.9	2.2	26	2.7	1.1	.5	.4			
24		.2	.9	2.2	37	2.7	1.0	.4	.5			
25		.2	.9	2.2	8.5	2.9	1.0	.5	.7			
26		.2	.8	2.2	8.5	2.7	.8	.5	.5			
27		.2	.8	2.2	8	2.5	.8	.5	.5			
28		.2	.8	2.2	7	2.2	.8	.5	.4			
29		.5	.8	2.2		2.0	.7	.6	.3			
30		.5	1.4	2.0		2.0	.8	.6	.3			
31	0.6		209	1.8		2.0		.7				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.6		0.048	2.9
November	.5	0.2	.23	13.9
December	209	.4	9.43	580
January	360	1.8	20.0	1,230
February	37	1.5	4.76	265
March	6	2.0	2.95	182
April	2.2	.7	1.31	78.1
May	1.0	.4	.59	36.1
June	1.3	.3	.66	39.3
July	.4		.116	7.1
August			*.03	1.8
September			*.04	2.4
The year	360		3.37	2,440

*Estimated.

Note:- Discharge less than 0.1 second-foot Oct. 1-30, July 10 to Sept. 30.

Sawpit Creek near Monrovia, Calif.

Location.- Water-stage recorder in SW¼SW¼ sec. 13, T. 1 N., R. 11 W., three-eighths of a mile below junction of two main branches, 2 miles north of Monrovia.

Drainage area.- 5.3 square miles at old location three-eighths of a mile upstream.

Records available.- November 1916 to September 1934.

Average discharge.- 17 years (1917-34), 0.95 second-feet. Average combined discharge, creek and Monrovia pipe line, 17 years (1917-34), 2.15 second-feet.

Extremes.- Maximum discharge during year, 350 second-feet Jan. 1 (gage height, 5.00 feet); no flow at gage for several months.
1916-34: Maximum discharge, about 2,000 second-feet Apr. 7, 1926, estimated from flow of Rogers Creek; no flow for several months each year.

Remarks.- Records good. Regulation at flood-control dam above gage and diversions by City of Monrovia. See record for Monrovia pipe line near Monrovia, Calif. Los Angeles County Flood Control District furnished some measurements. Discharge estimated Dec. 14, Jan. 3, 5-8, Jan. 30 to Feb. 21, Mar. 21-28.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	144	0.1	0.9	0	0	0.1	0.1	1.0	
2			0	4.1	.1	.6	0	0	.1	.1	.7	
3			0	2.2	.1	.4	0	0	.1	.1	1.2	
4			0	1.2	.1	.3	0	0	.1	.1	1.2	
5			0	1.0	.1	.2	0	0	.2	.1	.6	
6			0	.8	.1	.2	0	0	.2	.1	.5	
7			0	.5	.1	.3	0	0	.2	.1	.5	
8			0	.3	.1	.4	0	0	.2	.1	.5	
9			0	0	.1	.2	0	0	.2	.1	.4	
10			0	0	.1	.2	0	0	.2	.1	.4	
11			0	.1	.1	.1	0	.3	.2	.1	.4	
12			0	.1	.1	.1	.5	.3	.2	.1	.4	
13			2.7	.1	.1	.1	.2	.2	.2	.1	.3	
14			.4	.1	.1	.1	0	.2	.2	.1	.3	
15			.3	.1	.1	.1	0	.2	.2	.1	.3	
16			.3	0	.1	.1	0	.2	.2	.1	.3	
17			.1	0	.1	.1	0	.2	.1	.1	.3	
18			.1	0	.1	.1	0	.3	.1	.1	.3	
19			.1	0	.1	.1	0	.4	.1	.1	.3	
20			.1	0	.1	.1	0	.3	.1	.1	.3	
21			.1	0	.1	.1	0	.2	.2	.1	.3	
22			.1	0	.4	.1	0	.2	.2	.1	.3	
23			.1	0	4.9	.1	0	.2	.2	.1	.2	
24			0	0	6	.1	0	.2	.2	.1	.3	
25			0	0	3.2	.1	0	.2	.2	.1	.7	
26			0	0	2.2	.1	0	.2	.2	.1	.5	
27			0	0	1.7	.1	0	.2	.2	.1	.2	
28			0	0	1.2	.1	0	.2	.2	0	.1	
29			0	0		0	0	.2	.1	0	0	
30			.7	.1		0	0	.3	.1	0	0	
31			26	.1		0		.2		0	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	26	0	1.00	61.7
January	144	0	4.99	307
February	6	.1	.78	43.0
March	.9	0	.18	10.9
April	.5	0	.02	1.4
May	.4	0	.16	9.7
June	.2	.1	.17	9.9
July	.1	0	.09	5.4
August	1.2	0	.41	25.4
September	0	0	0	0
The year	144	0	0.66	474

Note:- No flow during months left blank.

Sawpit Creek near Monrovia, Calif.

(Continued)

Combined discharge, in second-feet, of Sawpit Creek and Monrovia Pipe Line near Monrovia, Calif.,

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.6	0.6	144	1.4	2.4	1.3	1.2	1.0	0.9	1.8	0.6
2	.6	.6	.6	4.1	1.4	2.1	1.3	1.1	1.0	.9	1.5	.6
3	.6	.6	.6	2.8	1.4	1.9	1.3	1.1	.9	.9	2.0	.6
4	.6	.6	.6	2.3	1.4	1.8	1.3	1.1	.9	.9	2.0	.6
5	.6	.6	.6	2.0	1.4	1.7	1.3	1.1	1.0	.9	1.4	.6
6	.6	.6	.6	1.7	1.4	1.7	1.3	1.1	1.0	.9	1.3	.6
7	.6	.6	.6	2.9	1.4	1.8	1.3	1.1	1.0	.9	1.3	.6
8	.6	.6	.6	2.4	1.4	1.9	1.3	1.1	1.0	.9	1.3	.6
9	.6	.6	.6	1.7	1.4	1.7	1.3	1.1	1.0	.9	1.2	.6
10	.6	.6	.6	1.6	1.4	1.7	1.3	1.1	1.1	.9	1.2	.6
11	.6	.6	.6	1.7	1.4	1.6	1.3	1.4	1.1	.9	1.2	.6
12	.6	.6	.6	1.7	1.4	1.6	1.8	1.4	1.1	.9	1.0	.6
13	.6	.6	2.7	1.7	1.4	1.6	1.5	1.3	1.1	.9	.9	.6
14	.6	.6	1.2	2.0	1.4	1.6	1.3	1.3	1.1	.9	.9	.6
15	.6	.6	1.1	2.2	1.4	1.6	1.2	1.3	1.1	.9	.9	.6
16	.6	.6	1.2	2.1	1.4	1.6	.9	1.2	1.1	.9	.9	.6
17	.6	.6	1.0	2.1	1.4	1.6	1.3	1.1	.9	.9	.9	.6
18	.6	.6	1.0	2.1	1.4	1.5	1.3	1.2	.9	.9	.9	.6
19	.6	.6	1.0	2.1	1.4	1.5	1.3	1.3	.9	.9	.9	.6
20	.6	.6	1.0	2.1	1.2	1.5	1.3	1.2	.9	.9	.9	.6
21	.6	.6	1.0	1.9	1.3	1.5	1.3	1.1	1.0	.9	.9	.6
22	.6	.6	1.0	1.9	1.4	1.5	1.3	1.1	1.0	.9	.9	.6
23	.6	.6	1.0	1.9	5.7	1.5	1.3	1.1	1.0	.9	.9	.6
24	.6	.6	.8	1.9	6.8	1.5	1.3	1.1	1.0	.9	.9	.6
25	.6	.6	.8	1.9	4.1	1.4	1.3	1.1	1.0	.9	1.3	.6
26	.6	.6	.8	1.9	3.1	1.4	1.3	1.1	1.0	.9	1.1	.6
27	.6	.6	.8	1.9	2.6	1.4	1.3	1.1	1.0	.9	.8	.6
28	.6	.6	.8	1.3	2.1	1.4	1.3	1.1	1.0	.8	.7	.6
29	.6	.6	.8	1.3		1.3	1.3	1.1	.9	.8	.6	.6
30	.6	.6	1.1	1.4		1.3	1.3	1.2	.9	.8	.6	.6
31	.9		26	1.4		1.3		1.1		.8	.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.9	0.6	0.61	37.5
November	.6	.6	.60	35.7
December	26	.6	1.69	104
January	144	1.3	6.58	405
February	6.8	1.2	1.96	109
March	2.4	1.3	1.61	99.0
April	1.8	.9	1.31	77.8
May	1.4	1.1	1.16	71.4
June	1.1	.9	1.00	59.3
July	.9	.8	.89	54.5
August	2.0	.6	1.08	66.6
September	.6	.6	.60	35.7
The year	144	.6	1.60	1,160

Monrovia pipe line near Monrovia, Calif.

Location.- Staff gage and weirs near southeast corner sec. 14, T. 1 N., R. 11 W., 300 feet above settling reservoir at mouth of Sawpit Canyon and 1½ miles north of Monrovia.

Records available.- May 1916 to September 1934.

Average discharge.- 18 years, 1.26 second-feet.

Extremes.- Maximum mean daily discharge during year, 2.4 second-feet Jan. 7; no flow Dec. 13, Dec. 31 to Jan. 2.

1916-34: Maximum mean daily discharge, 6.1 second-feet May 9, 1922; no flow Nov. 11, 1924, Apr. 8, 16, 1926, Feb. 16, 1927, Feb. 13, 1932, Dec. 13, 1933, and Dec. 31, 1933, to Jan. 2, 1934.

Remarks.- Records good. Monrovia pipe line furnishes part of water supply of Monrovia. It diverts from two branches of Sawpit Creek. Most of this water is collected by tunnels driven into side of canyon. Gage-height record furnished by city of Monrovia.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.6	0.6	0	1.3	1.5	1.3	1.2	0.9	0.8	0.8	0.6
2	.6	.6	.6	0	1.3	1.5	1.3	1.1	.9	.8	.8	.6
3	.6	.6	.6	0.6	1.3	1.5	1.3	1.1	.8	.8	.8	.6
4	.6	.6	.6	1.1	1.3	1.5	1.3	1.1	.8	.8	.8	.6
5	.6	.6	.6	1	1.3	1.5	1.3	1.1	.8	.8	.8	.6
6	.6	.6	.6	.9	1.3	1.5	1.3	1.1	.8	.8	.8	.6
7	.6	.6	.6	2.4	1.3	1.5	1.3	1.1	.8	.8	.8	.6
8	.6	.6	.6	2.1	1.3	1.5	1.3	1.1	.8	.8	.8	.6
9	.6	.6	.6	1.7	1.3	1.5	1.3	1.1	.8	.8	.8	.6
10	.6	.6	.6	1.6	1.3	1.5	1.3	1.1	.9	.8	.8	.6
11	.6	.6	.6	1.6	1.3	1.5	1.3	1.1	.9	.8	.8	.6
12	.6	.6	.6	1.6	1.3	1.5	1.3	1.1	.9	.8	.6	.6
13	.6	.6	0	1.6	1.3	1.5	1.3	1.1	.9	.8	.6	.6
14	.6	.6	.8	1.9	1.3	1.5	1.3	1.1	.9	.8	.6	.6
15	.6	.6	.8	2.1	1.3	1.5	1.2	1.1	.9	.8	.6	.6
16	.6	.6	.9	2.1	1.3	1.5	.9	1.0	.9	.8	.6	.6
17	.6	.6	.9	2.1	1.3	1.5	1.3	.9	.8	.8	.6	.6
18	.6	.6	.9	2.1	1.3	1.4	1.3	.9	.8	.8	.6	.6
19	.6	.6	.9	2.1	1.3	1.4	1.3	.9	.8	.8	.6	.6
20	.6	.6	.9	2.1	1.1	1.4	1.3	.9	.8	.8	.6	.6
21	.6	.6	.9	1.9	1.2	1.4	1.3	.9	.8	.8	.6	.6
22	.6	.6	.9	1.9	1.0	1.4	1.3	.9	.8	.8	.6	.6
23	.6	.6	.9	1.9	.8	1.4	1.3	.9	.8	.8	.6	.6
24	.6	.6	.8	1.9	.8	1.4	1.3	.9	.8	.8	.6	.6
25	.6	.6	.8	1.9	.9	1.3	1.3	.9	.8	.8	.6	.6
26	.6	.6	.8	1.9	.9	1.3	1.3	.9	.8	.8	.6	.6
27	.6	.6	.8	1.9	.9	1.3	1.3	.9	.8	.8	.6	.6
28	.6	.6	.8	1.3	.9	1.3	1.3	.9	.8	.8	.6	.6
29	.6	.6	.8	1.3		1.3	1.3	.9	.8	.8	.6	.6
30	.6	.6	.4	1.3		1.3	1.3	.9	.8	.8	.6	.6
31	.9		0	1.3		1.3		.9		.8	.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.9	0.6	0.61	37.5
November	.6	.6	.6	35.7
December	.9	0	.68	42.0
January	2.4	0	1.59	97.6
February	1.3	.8	1.19	65.9
March	1.5	1.3	1.43	88.1
April	1.3	.9	1.28	76.4
May	1.2	.9	1.00	61.7
June	.9	.8	.83	49.4
July	.8	.8	.80	49.2
August	.8	.6	.67	41.3
September	.6	.6	.60	35.7
The year	2.4	0	.94	680

San Dimas Creek near San Dimas, Calif.

Location.- Water-stage recorder in SW¼NE¼ sec. 25, T. 1 N., R. 9 W., at mouth of San Dimas Canyon, 3 miles northeast of San Dimas. Altitude, about 1,245 feet.

Drainage area.- 18.3 square miles.

Records available.- December 1916 to September 1934. April to September 1916, discharge measurements only.

Average discharge.- 17 years (1917-34), 3.51 second-feet.

Extremes.- Maximum discharge during year, 210 second-feet Jan. 1 (gage height, 2.37 feet); minimum, 0.01 second-foot July 11 and 12.
1916-34: Maximum discharge, 1,140 second-feet Feb. 9, 1922; no flow for several months during year.

Remarks.- Records good. Discharge estimated Jan. 9-10, May 2-4. Flood-control dam above gage regulates flow. San Dimas Water Co. diverts just below gage for irrigation. Some measurements furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0.1	144	1.2	1.0	2.6	2.9	0.3			
2				124	1.2	.9	2.6	3.0	.2			
3				90	1.2	.9	2.6	3.0	.2			
4				38	1.3	1.0	2.5	2.8	.2			
5				16	1.3	1.0	2.5	2.8	.2			
6				10	1.2	1.0	2.4	3.0	.2			
7		0.1		5	1.1	1.0	2.3	3.3	.1			
8	0.1	.1		4.6	1.1	.9	2.2	3.2	.1			
9	.1	.1		4.3	1.1	.8	2.1	3.1	.1			
10	.1	.1		3.9	1.0	.8	2.0	2.9	.1			
11	.1	.1	.3	3.6	1.0	.9	2.0	2.7				
12	.1	.2	1.7	3.8	.9	1.0	2.0	2.7				
13	.1	.2	3.8	3.5	.9	1.0	2.0	2.8				
14	.1	.2	.5	3.3	.9	.9	2.1	2.9				
15	.1	.2	.3	3.4	1.0	.9	2.4	2.7	.1			
16	.1	.2	.3	3.5	1.0	.9	2.2	2.6	.1			
17		.2	.2	3.6	1.0	.8	2.4	2.5				
18		.2	.2	4.6	1.0	.8	2.5	2.4				
19		.2	.2	3.6	1.1	.8	3.2	2.5				
20		.2	.2	1.8	1.1	.8	3.1	2.5				
21	.1	.2	.2	1.7	1.0	.8	3.2	2.6				
22		.1	.2	1.6	1.1	.8	3.1	2.5				
23		.1	.3	1.6	1.8	.8	3.1	2.6				
24			.2	1.9	2.3	1.1	3.0	2.6	.1			
25	.1		.2	1.6	1.7	1.4	3.0	2.5				
26			.2	1.4	1.5	1.3	3.0	2.5				
27		.1	.2	1.3	1.4	1.7	2.9	2.2				
28		.1	.2	1.1	1.1	2.4	2.8	1.6				
29		.1	.2	1.1		2.4	3.1	.6				
30		.1	.2	1.1		2.4	2.9	.8				
31			27	1.2		2.5		.3				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.075	4.6
November			.122	7.3
December	27		1.20	73.9
January	144	1.1	15.8	972
February	2.3	.9	1.20	66.4
March	2.5	.8	1.15	70.8
April	3.2	2.0	2.59	154
May	3.3	.3	2.49	153
June			.098	5.9
July			.033	2.0
August			.040	2.5
September			.040	2.4
The year	144		2.09	1,510

Note:- Discharge less than 0.1 second-foot on days for which no discharge is given.

Dalton Creek near Glendora, Calif.

Location.- Water-stage recorder at center of sec. 21, T. 1 N., R. 9 W., at Glendora Irrigation Co.'s dam, a quarter of a mile above mouth and 2½ miles northeast of Glendora. Altitude, about 1,150 feet.

Drainage area.- 7.5 square miles.

Records available.- December 1919 to September 1934.

Average discharge.- 14 years (1920-34), 1.06 second-feet.

Extremes.- Maximum discharge during year, 130 second-feet Jan. 1 (gage height, 2.13 feet); no flow for several months.
1919-34: Maximum discharge, 660 second-feet Feb. 16, 1927 (gage height, 3.30 feet); no flow for several months each year.

Remarks.- Records good. The Glendora Irrigation Co. diverts water half a mile and 1½ miles above gage through a 10-inch pipe line. A 12-inch pipe line diverts water just below gage. Storage at flood-control dam about 1 mile upstream. Discharge estimated Jan. 20-22, Jan. 27 to Feb. 3, Feb. 10-21, Mar. 3 to July 31. Some measurements furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	62	0.5	0.6	0.2					
2			0	14	.5	.5	.3					
3			0	7	.4	.5	.3					
4			0	4.1	.4	.4	.3					
5			0	2.7	.3	.4	.3					
6			0	1.9	.3	.4	.3					
7			0	1.9	.3	.4	.3					
8			0	3.7	.4	.4	1.6					
9			0	5	.4	.4	2.1					
10			0	4.4	.4	.4	.9					
11			0	4.8	.4	.4	.2					
12			0	5	.4	.4	.2					
13			0	5.5	.3	.4	.1					
14			0	5.5	.3	.4	.1					
15			0	5.5	.3	.4	.1					
16			0	7	.3	.4	.1					
17			0	11	.3	.4	.1					
18			0	12	.3	.3	.1					
19			0	11	.4	.3	.1					
20			0	1.9	.4	.3	.1					
21			0	.7	.4	.3	.1					
22			0	.7	.8	.3	.1					
23			0	.7	1.6	.3	.1					
24			0	.8	1.6	.5	.1					
25			0	.7	1.1	.5	.1					
26			0	.7	1.0	.4	.1					
27			0	.7	.9	.4	.1					
28			0	.6	.8	.3	.3					
29			0	.6		.3	.1					
30			0	.6		.2	.1					
31			21	.6		.2						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	21	0	.68	41.7
January	62	.6	5.91	364
February	1.6	.3	.55	30.7
March	.6	.2	.38	23.4
April	2.1	.1	.3	17.9
May			.04	2.5
June			.06	3.6
July			.02	1.2
August	0	0	0	0
September	0	0	0	0
The year	62	0	.67	485

Note.- Discharge less than 0.1 second-foot during practically all of May, June, July; no flow during other months left blank.

Little Dalton Creek near Glendora, Calif.

Location.- Water-stage recorder in SW¼ sec. 21, T. 1 N., R. 9 W., 500 feet above junction with Dalton Creek and 2 miles northeast of Glendora.

Drainage area.- 3.3 square miles.

Records available.- January 1929 to September 1934.

Extremes.- Maximum discharge for year, 201 second-feet Jan. 1 (gage height, 2.58 feet); no flow at times.
1929-34: Maximum discharge, that of Jan. 1, 1934; no flow for several months each year.

Remarks.- Entire record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	97	0.4	0.6	0.1					
2			0	21	.3	.6	.1					
3			0	5	.3	.6	.1					
4			0	3.6	.3	.6	.1					
5			0	3.3	.3	.6	.1					
6			0	3.3	.3	.6	.1					
7			0	3.3	.3	.6	.1					
8			0	3.0	.3	.5	0					
9			0	2.7	.3	.4	0					
10			0	2.4	.3	.4	0					
11			0	1.9	.3	.4	0					
12			0	1.3	.3	.3	0					
13			2.5	1.3	.3	.3	0					
14			0	1.1	.3	.3	0					
15			0	1.1	.3	.3	.1					
16			0	1.0	.3	.2	.1					
17			0	1.0	.3	.2	0					
18			0	.8	.3	.1	0					
19			0	.8	.6	.1	0					
20			0	.8	.8	.1	0					
21			0	.8	.6	.1	0					
22			0	.8	1.1	.2	0					
23			0	.7	1.9	.2	0					
24			0	.7	1.9	.2	0					
25			0	.7	1.4	.2	0					
26			0	.7	1.3	.2	0					
27			0	.7	.8	.1	0					
28			0	.7	.7	.1	0					
29			0	.6		.1	0					
30			.2	.6		.1	0					
31			49	.6		.1						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	49	0	1.67	103
January	97	.6	5.27	324
February	1.9	.3	.59	32.9
March	.6	.1	.30	18.6
April	.1	0	.04	1.8
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	97	0	.66	480

Note:- No flow during months left blank.

San Jose Creek near Whittier, Calif.

Location.- Water-stage recorder on Workman-Mill road bridge in Paso de Bartolo grant, about 3 miles north of Whittier.

Drainage area.- 85.2 square miles.

Records available.- January 1929 to September 1934.

Extremes.- Maximum discharge during year, 13,100 second-feet Jan. 1 (gage height, 12.12 feet); no flow at various times.
1929-34: Maximum discharge, that of Jan. 1, 1934; no flow at times during 1929, 1930, 1933, 1934.

Remarks.- Records furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	2,950	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.3
2			0	30	.2	.2	.3	.2	.2	.2	.1	.3
3			.1	2.6	.2	.3	.3	.2	.3	.2	.1	.2
4			0	2.0	.2	.4	.3	.2	.2	.2	0	.2
5			0	1.8	.3	.2	.2	.2	.3	.2	0	.2
6			0	1.6	.3	.2	.2	.2	.3	.2	.1	.2
7			0	1.4	.2	.2	.2	.2	.3	.2	.2	.2
8			0	1.2	.2	.3	.2	.2	.3	.2	.2	.2
9			0	1.1	.2	.2	.2	.2	.3	.1	.2	.2
10			.2	.9	.2	.2	.3	.2	.3	.1	.2	.2
11			.2	.7	.2	.3	.3	.2	.3	.1	.3	.2
12			.3	.7	.3	.3	.3	.2	.2	.1	.3	.2
13			17	.6	.3	.3	.3	.2	.2	.1	.2	.1
14			1.8	.5	.3	.3	.3	.2	.2	.1	.2	.1
15			.8	.5	.3	.2	.3	.2	.2	.1	.2	.1
16			.5	.4	.4	.2	.3	.2	.2	.1	.2	.1
17			.3	.4	.3	.2	.3	.2	.2	.1	.2	.1
18			.2	.3	.2	.1	.2	.2	.2	.1	.2	.1
19			.2	.3	.3	.1	.2	.2	.1	.1	.2	.1
20			.1	.3	.4	.1	.2	.2	.1	.1	.2	.1
21			0	.3	.2	.4	.2	.2	.1	.1	.2	.1
22			.1	.3	.2	.1	.2	.2	.1	.1	.2	.1
23			.1	.3	.1	.1	.2	.2	.1	.1	.2	.1
24			.1	.3	.3	.1	.2	.2	.1	.1	.2	.1
25			.1	.3	.3	.3	.2	.2	.1	.1	.2	.1
26			0	.3	.2	.6	.2	.2	.1	.1	.2	.1
27			0	.3	.2	.3	.2	.2	.1	.1	.2	.1
28			0	.3	.2	.2	.2	.2	.1	.1	.2	0
29			0	.4		.2	.2	.2	.1	.1	.2	.1
30			.2	.3		.2	.2	.2	.1	.1	.2	.1
31			768	.3		.1		.2		.1	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.02	1.2
November			.02	1.2
December	768	0	25.5	1,570
January	2,950	.3	96.8	5,950
February	.4	.1	.25	13.7
March	.6	.1	.23	14.1
April	.3	.2	.24	14.3
May	.2	.2	.20	12.3
June	.3	.1	.19	11.1
July	.2	.1	.13	7.7
August	.3	0	.18	11.1
September	.3	0	.14	8.5
The year	2,950	0	10.5	7,620

Note:- During October and November discharge was less than 0.1 second-foot and at times no flow.

Brea Creek at Fullerton, Calif.

Location.- Water-stage recorder in the San Juan Cajon de Santa Ana grant, in Fullerton City Park at Fullerton, Orange County.

Drainage area.- 27.5 square miles.

Records available.- October 1930 to September 1934.

Extremes.- Maximum discharge during year, 502 second-feet Jan. 1(gage height, 4.30 feet); no flow most of year.
1930-34: Maximum discharge, that of Jan. 1, 1934; no flow most of each year.

Remarks.- Records furnished by Orange County Flood Control District.

Discharge, in second-feet, 1933-34.

Dec. 13	1.0	Dec. 31	198	Feb. 23	0.2
Dec. 14	.1	Jan. 1	167	Feb. 24	2.0
Dec. 30	.1	Jan. 2	.1		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	198	0	6.43	395
January	167	0	5.39	331
February	2.0	0	.08	4.4
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	198	0	1.01	730

Note.- No flow during year except for the days given above.

Carbon Creek at Olinda, Calif.

Location.- Water-stage recorder in NE¼ sec. 17, T. 3 S., R. 9 W., on Rose Drive bridge half a mile south of Olinda.

Drainage area.- 19.1 square miles.

Records available.- October 1930 to September 1934.

Extremes.- Maximum discharge during year, 728 second-feet Jan. 1 (gage height, 5.30 feet); no flow most of each year.
1930-34: Maximum discharge, that of Jan. 1, 1934; no flow most of each year.

Remarks.- Record furnished by Orange County Flood Control District.

Discharge, in second-feet, 1933-34.

Dec. 13	4.1	Jan. 1	129	Feb. 24	9.5
Dec. 30	1.1	Jan. 2	.1		
Dec. 31	37	Feb. 23	1.4		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	37	0	1.36	83.7
January	129	0	4.16	256
February	9.5	0	.39	21.6
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	129	0	.50	361

Note.- No flow during year except for days given above.

Los Angeles River at Los Angeles, Calif.

Location.- Water-stage recorder on Figueroa Street Bridge (formerly Dayton Avenue) at Los Angeles, 0.1 mile above junction with Arroyo Seco.

Drainage area.- 510 square miles.

Records available.- December 1929 to September 1934.

Extremes.- Maximum discharge during year, 22,000 second-feet Jan. 1 (gage height, 16.4 feet); no flow for several periods.
1929-34: Maximum discharge, that of Jan. 1, 1934; no flow for several periods each year.

Remarks.- Entire record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.0	0.9	0.3	5,990	16	37	9.5	4.5	1.0	3.1	1.2	1.2
2	.6	1.0	.3	459	9.5	30	9.5	3.0	1.8	3.1	1.2	1.2
3	.3	.6	.2	244	3.1	21	9.5	4.5	1.8	3.1	1.2	.6
4	.9	.6	.1	178	11	22	9.5	6	1.0	3.1	1.2	.6
5	.8	.5	.5	103	21	21	9.5	6	7.5	2.4	1.2	.6
6	.8	.4	.5	182	16	26	10	6.5	3.1	2.4	1.2	.6
7	.5	.5	.5	105	26	16	9.5	6	2.4	2.4	1.2	1.2
8	.7	.3	.6	153	18	15	8.5	5	1.0	2.4	1.2	1.2
9	.6	.4	.0	142	16	14	8.5	5	2.4	2.4	1.2	.5
10	.6	.4	.5	136	3.8	11	8.5	3.1	2.4	2.4	1.2	.4
11	.5	.4	.4	73	3.8	11	6.5	3.1	2.4	2.4	1.8	.3
12	.9	.5	4.5	15	3.1	13	6	3.0	2.4	2.4	1.8	.3
13	.9	.5	322	17	1.8	15	7.5	4.5	5	2.4	1.8	.6
14	.4	.7	37	22	.6	10	6	3.8	6.5	1.8	1.8	.6
15	.4	.7	20	26	6.5	9.5	6.5	3.8	5	1.0	1.8	.4
16	.8	.8	17	30	11	10	6	4.5	6	1.2	1.2	.4
17	.9	.8	8.5	19	3.1	9.5	5	3.1	6.5	1.2	1.2	.3
18	1.0	.8	18	21	18	11	4.5	4.5	6.5	.6	1.2	.2
19	.6	1.0	5	32	19	12	5	3.8	7.5	.6	1.2	.3
20	0	1.1	4.0	21	44	9.5	5	3.8	8.5	.6	1.2	.6
21	.3	.9	8.5	27	4.5	9.5	3.1	4.5	10	.6	1.2	1.2
22	.5	.8	8.0	27	36	9.5	3.1	4.5	11	1.2	1.2	.5
23	.5	.5	8.5	23	97	10	2.4	4.5	10	1.2	1.2	.5
24	.6	.9	5.0	19	340	9.5	3.8	3.1	9.5	1.2	1.2	.4
25	.5	.9	46	12	30	10	3.1	3.8	11	1.2	1.2	.4
26	.7	.7	24	19	42	10	1.8	3.8	6	1.2	1.2	.4
27	.7	.7	5	14	36	10	3.8	3.0	5	1.2	1.2	.4
28	.8	.7	17	10	30	9.5	6	2.4	2.4	1.2	1.2	.5
29	.8	.5	3.1	7.5		10	4.5	2.4	3.1	1.2	1.2	.4
30	.9	.3	41	6		11	4.5	2.4	3.1	1.2	1.2	.3
31	3.6		4,290	15		9.5		1.8		1.2	1.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.6	0	0.74	45.4
November	1.1	.3	.66	39.3
December	4,290	.1	158	9,710
January	5,990	6	265	16,320
February	340	.6	31.0	1,720
March	37	9.5	13.9	857
April	10	1.8	6.22	370
May	6.5	1.8	4.07	250
June	11	1.8	5.14	306
July	3.1	.6	1.75	108
August	1.8	1.2	1.30	79.7
September	1.2	.2	.57	33.9
The year	5,990	0	41.2	29,840

Los Angeles River near Downey, Calif.

Location.- Water-stage recorder in San Antonio grant on Stewart and Gray road bridge half a mile above junction with Rio Hondo and 2½ miles west of Downey, Los Angeles County.

Drainage area.- 614 square miles.

Records available.- March 1928 to September 1934.

Extremes.- Maximum discharge during year, 29,400 second-feet Jan. 1 (gage height, 11.2 feet); no flow at various times.
1928-34: Maximum discharge, that of Jan. 1, 1934; no flow during part of most years.

Remarks.- Entire record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	0.4	1.6	8,550	7	34	1.5	2.5	1.7	0.1	0.9	2.1
2	2.0	.4	1.1	411	3.4	36	1.5	2.5	.9	.2	1.3	1.1
3	2.7	.6	1.7	238	1.3	17	1.9	4.2	.9	.3	1.1	.7
4	1.6	.4	2.7	173	.7	14	1.7	3.4	1.5	.1	1.3	.3
5	.8	.2	2.0	e7	1.3	12	1.7	2.5	28	.1	.9	1.9
6	2.0	.3	2.0	109	1.5	18	2.1	1.1	1.9	.3	1.3	1.7
7	1.8	1.0	2.0	109	1.5	10	2.1	1.7	1.9	.4	1.3	2.1
8	1.6	1.0	18	104	10	12	1.7	2.1	2.3	.2	1.3	1.9
9	1.6	1.0	40	69	9.5	12	1.9	1.3	2.1	.3	2.1	1.7
10	1.5	.8	64	104	1.7	10	2.5	1.3	1.7	.9	2.1	1.5
11	1.4	.2	100	109	1.1	7.5	2.5	1.9	1.7	1.3	1.9	1.5
12	1.2	0	222	75	1.9	4.2	2.5	2.1	1.7	2.1	.3	1.7
13	1.2	.8	1,030	69	1.7	3.4	2.5	1.7	1.7	2.1	.2	2.1
14	1.3	1.4	161	66	2.1	1.9	2.3	1.3	4.2	2.1	1.7	2.3
15	1.2	1.4	100	50	8.5	2.1	2.3	2.5	4.2	1.9	1.5	1.9
16	1.2	1.4	24	36	22	3.4	2.1	3.4	3.4	1.9	1.7	.4
17	1.4	1.4	17	23	6	2.5	2.3	2.5	2.5	1.7	1.9	.4
18	1.4	1.4	13	14	5	1.7	2.3	2.3	2.5	1.5	1.5	2.1
19	1.7	1.4	9	12	7.5	1.5	2.1	2.3	5	1.1	.9	2.1
20	1.5	1.5	6	12	62	1.7	2.1	1.5	4.2	1.3	1.5	1.9
21	1.2	1.9	3.4	10	26	1.1	1.7	1.9	5	1.1	1.9	1.9
22	1.2	1.9	4.1	9.5	2.5	1.1	.9	2.3	4.2	.5	1.7	1.3
23	1.2	2.0	4.8	10	404	2.1	1.1	2.3	2.5	.9	1.7	1.1
24	1.4	3.4	4.1	23	412	2.1	1.5	2.5	2.1	1.1	1.9	.9
25	1.1	2.0	4.1	6	75	1.1	1.3	2.3	1.9	.7	1.1	1.3
26	1.2	1.9	2.7	10	62	1.1	1.3	1.9	1.9	.4	.7	1.3
27	1.0	1.9	2.0	11	50	1.7	1.5	1.1	1.3	.3	1.1	1.5
28	1.1	2.0	2.0	12	41	1.9	1.7	1.3	.7	.3	1.5	1.5
29	1.1	1.9	.6	8.5		1.7	1.7	1.5	.4	.1	1.7	1.5
30	1.5	1.5	48	9.5		1.9	1.9	.3	.4	.1	2.3	.4
31	11		5,040	1.3		1.7		.3		.5	2.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	11	0.8	1.73	106
November	3.4	0	1.25	74.2
December	5,040	.6	224	13,750
January	8,550	1.3	340	20,890
February	412	.7	43.9	2,440
March	36	1.1	7.17	441
April	2.5	.9	1.87	111
May	4.2	.3	1.99	123
June	28	.4	3.15	187
July	2.1	.1	.84	51.4
August	2.3	.2	1.44	88.5
September	2.3	.3	1.47	87.5
The year	8,550	0	53.0	38,350

Los Angeles River at Long Beach, Calif.

Location.- Water-stage recorder on State Street Bridge at Long Beach, Los Angeles County.

Drainage area.- About 1,060 square miles.

Records available.- December 1928 to September 1934.

Extremes.- Maximum discharge during year, 37,500 second-feet Jan. 1 (gage height, 12.55 feet); no flow during several days.
1928-34: Maximum discharge, that of Jan. 1, 1934; no flow at times during 1929, 1930, 1934.

Remarks.- Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.2	3.8	5.5	19,900	3.6	30	2.7	3.3	3.6	3.8	2.2	4.9
2	3.8	4.9	3.3	1,900	4.9	33	1.2	1.2	3.1	2.2	1.5	4.6
3	3.1	5.5	3.8	432	4.0	28	.8	3.3	2.5	2.5	1.8	4.9
4	3.6	6	3.8	210	3.1	22	.4	2.0	3.1	4.0	2.0	4.6
5	3.6	4.6	4.6	168	3.1	20	.4	.8	5.5	2.9	2.5	5.5
6	3.3	4.9	4.0	140	3.1	20	.4	.6	4.2	3.6	2.2	5.5
7	3.1	4.9	4.2	140	3.1	20	.8	1.7	3.6	3.3	2.7	4.6
8	3.8	4.6	4.6	150	3.1	16	.4	1.8	4.0	3.6	2.9	4.6
9	3.1	4.9	4.9	125	14	5.5	0	1.0	3.8	2.7	2.7	4.6
10	3.8	4.2	4.2	125	7	4.0	1.0	.9	4.0	2.9	3.1	4.2
11	4.0	4.2	4.9	125	4.6	3.8	1.1	.6	3.8	3.3	3.3	4.0
12	4.0	4.2	4.9	54	4.0	3.6	.3	1.7	3.3	2.9	3.6	3.8
13	1.7	4.6	1,590	42	4.2	3.6	.4	1.2	3.1	3.1	4.0	3.8
14	3.6	4.6	74	36	5.5	3.8	.1	1.7	3.6	3.3	4.2	4.6
15	3.6	3.8	156	28	6	.6	0	4.0	3.1	3.1	4.9	4.6
16	4.2	4.2	18	24	64	2.2	.2	2.7	3.8	2.7	5.5	4.2
17	4.0	4.2	5.5	14	24	1.0	.4	2.2	3.8	2.5	4.9	3.8
18	4.6	4.2	3.6	12	3.6	0	.4	2.7	3.8	2.2	4.2	4.2
19	4.9	4.6	4.0	10	4.9	.2	.4	4.6	4.2	1.8	3.8	3.3
20	4.2	4.0	4.2	14	64	.5	2.2	2.0	4.9	1.8	4.0	3.3
21	4.2	4.6	5.5	12	16	.4	1.7	2.2	4.6	2.2	3.1	3.3
22	4.2	4.2	4.6	9	6.5	1.2	1.7	3.6	4.2	2.7	2.9	3.8
23	3.8	4.9	4.6	8	291	.6	1.1	3.6	4.6	1.8	2.7	3.3
24	5.5	6.5	4.0	20	768	.4	.8	2.9	4.6	2.2	3.1	3.8
25	4.9	6	3.8	9	192	.5	.9	3.1	4.2	3.1	3.6	4.6
26	4.9	5.5	3.6	4.9	120	.5	.6	1.2	4.2	1.5	3.1	4.2
27	4.0	5.5	7	12	92	1.6	3.3	.1	3.6	1.1	3.3	4.9
28	2.5	5.5	4.0	7	64	1.2	3.1	0	3.1	2.2	3.6	4.9
29	3.8	4.9	3.8	6		1.8	3.8	0	3.6	2.0	3.6	4.6
30	4.0	4.9	10	6		3.6	4.6	.4	3.6	1.8	3.8	5.5
31	4.2		5,740	4.6		3.1		2.5		1.7	4.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5.5	1.7	3.88	238
November	6.5	3.8	4.78	284
December	5,740	3.3	248	15,270
January	19,900	4.6	766	47,100
February	768	3.1	63.7	3,540
March	33	0	7.51	462
April	4.6	0	1.17	69.8
May	4.6	0	1.92	118
June	5.5	2.5	3.83	228
July	4.0	1.1	2.60	160
August	5.5	1.5	3.34	205
September	5.5	3.3	4.35	259
The year	19,900	0	93.8	67,930

Pacoima Creek near San Fernando, Calif.

Location.- Water-stage recorder in SE¼NE¼ sec. 24, T. 3 N., R. 15 W., 600 feet above mouth of canyon and 4 miles northeast of San Fernando.

Drainage area.- 27.9 square miles.

Records available.- March 1916 to September 1934.

Average discharge.- 17 years (1917-34), 5.34 second-feet.

Extremes.- Maximum discharge during year, 54 second-feet Jan. 26 (gage height, 2.15 feet); no flow for several periods.
1916-34: Maximum discharge, about 1,860 second-feet Feb. 16, 1927; usually no flow for several months each year.

Remarks.- Entire flow regulated by flood-control dam above gage. Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.6	0	0.2	12	4.9	6	5.5	2.5	2.3	3.1	2.5	0
2	2.8	0	.2	.9	4.9	6	5.5	2.4	2.2	3.1	2.8	0
3	3.1	0	.2	0	4.9	6	5.5	2.3	2.2	3.1	2.9	0
4	3.2	0	.2	12	5	5.5	5	2.3	2.2	3.2	2.9	0
5	3.1	0	.1	22	5	5.5	5	2.3	2.2	3.2	2.9	0
6	3.1	0	0	11	5.5	5.5	4.7	2.3	2.2	3.3	2.8	0
7	4.4	0	0	3.1	5.5	5.5	5	2.2	2.2	3.2	2.6	0
8	4.2	0	0	12	4.9	5.5	5	2.2	2.3	3.2	2.6	0
9	2.6	0	0	19	4.9	6	5	2.2	2.3	3.1	2.8	0
10	2.3	0	.1	27	4.7	6.5	5	2.0	2.4	3.1	2.6	0
11	2.4	0	.1	31	4.7	6.5	5	2.0	2.4	2.9	2.6	0
12	2.4	.2	.1	16	1.0	6	4.1	1.9	2.5	2.9	2.6	0
13	2.3	.2	.1	0	0	5.5	3.8	1.9	2.6	3.1	2.6	0
14	3.1	.2	.1	0	0	5.5	3.6	1.9	2.6	3.1	2.6	0
15	3.1	.2	.8	12	2.4	5.5	3.8	1.9	2.6	3.2	2.6	0
16	2.0	.2	.5	31	6.0	5.5	2.2	1.9	2.6	2.9	2.6	0
17	2.0	.2	.5	34	5.5	5.5	1.0	1.9	2.6	2.8	2.6	.2
18	2.0	.2	.5	34	6.0	7	1.7	1.9	2.6	3.1	2.6	.5
19	2.3	.2	.3	19	5.5	8	2.2	1.9	2.6	3.2	2.6	.4
20	3.1	.2	.1	1.6	5.5	6.5	2.2	1.9	2.8	3.1	2.5	.2
21	3.1	.2	.2	5.5	5.5	5.5	2.2	1.9	2.8	3.1	2.4	0
22	3.1	.2	.6	19	5.5	5.5	2.2	1.9	2.8	3.1	2.4	0
23	2.9	.2	.5	30	7.0	5.5	2.3	1.9	2.8	3.1	2.3	0
24	2.8	.2	.5	30	6	4.5	2.6	1.9	2.8	3.1	2.3	0
25	2.6	.2	.7	40	6	5.5	3.1	2.2	2.8	3.1	2.2	0
26	2.5	.2	.7	24	6	5.5	3.5	2.3	2.8	3.1	1.9	0
27	2.3	.2	.5	0	5.5	5.5	4.5	2.3	2.9	2.9	1.1	0
28	0.7	.2	.4	0	6	5.5	2.6	2.3	2.9	2.9	0	0
29	0	.2	.4	1.3		5.5	1.4	2.3	2.9	2.6	0	0
30	0	.2	.4	4.1		5.5	.9	2.3	2.9	2.6	0	0
31	0		5	5		5.5		2.3		2.5	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4.4	0	2.49	153
November	.2	0	.13	7.5
December	5	0	.45	27.8
January	40	0	14.7	905
February	7	0	4.80	266
March	8	4.5	5.77	355
April	5.5	.9	3.54	210
May	2.5	1.9	2.11	130
June	2.9	2.2	2.56	152
July	3.3	2.5	3.03	186
August	2.9	0	2.19	135
September	.5	0	.04	2.6
The year	40	0	3.50	2,530

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Tujunga Creek near Colby Ranch, Calif.

Location.- Water-stage recorder 25 feet above Edison road crossing, 300 feet below Lucas Creek, 4 miles above Tujunga flood-control dam no. 1, and 3½ miles west of Colby ranch.

Drainage area.- 66.9 square miles.

Records available.- October 1930 to September 1934.

Extremes.- Maximum discharge during year, 1,520 second-feet Jan. 1 (gage height, 11.90 feet); no flow for several periods.
1930-34: Maximum discharge, 3,910 second-feet Feb. 8, 1932; no flow part of each year.

Remarks.- Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0.2	0.3	707	3.8	8	2.0	0.9	0.2			
2		.2	.3	103	3.8	7	2.0	1.2	.2			
3		.1	.2	41	3.8	6.5	2.1	1.2	.2			
4		.1	.2	27	3.7	6	2.1	1.1	.2			
5		.1	.2	21	3.5	6	2.3	1.1	.4			
6		.1	.2	16	3.4	5	2.1	.9	.4			
7		.2	.1	13	3.4	4.6	1.9	.8	.4			
8		.2	.1	11	3.4	4.0	1.8	.7	.4			
9		.2	.1	9.5	3.5	3.8	1.7	.6	.4			
10		.2	.1	8	3.5	3.8	1.6	.4	.4			
11		.2	.2	7.5	3.5	3.8	1.3	.4	.3			
12		.2	.2	7	3.5	3.7	1.2	.4	.2			
13		.2	13	6.5	3.5	3.4	1.0	.3	.2			
14		.2	3.0	6	3.8	3.4	1.0	.3	.2			
15		.2	1.8	6	4.0	2.9	1.1	.2	.2			
16		.3	1.6	5.5	4.2	2.7	1.1	.1	.2			
17		.3	1.3	5	4.4	2.7	1.2	.1	.2			
18		.4	1.1	5	4.6	2.7	1.2	.1	.2			
19		.4	1.0	5	5	2.7	1.2	.1	.2			
20		.4	1.1	5	5	2.7	1.1	.1	.2			
21		.4	1.2	5	5.5	3.0	.9	.1	.2			
22		.4	.9	4.8	7	2.9	.9	.1	.2			
23		.4	.8	4.8	12	2.7	.8	.1	.2			
24		.4	.6	4.4	18	2.6	.8	.1	.1			
25		.4	.4	4.2	13	2.4	.8	.1	.1			
26		.4	.3	4.0	10	2.6	.8	.2	.1			
27		.4	.5	4.0	9.5	2.6	.8	.2	.1			
28		.4	.9	4.0	9	2.4	.8	.2	.1			
29		.4	1.2	4.0		2.3	.8	.2	.1			
30		.4	1.9	3.8		2.3	.8	.2	.1			
31			118	3.8		2.1		.2				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.02	1.4
November	0.4	0.1	.28	16.7
December	118	.1	4.93	303
January	707	3.8	34.3	2,110
February	18	3.4	5.76	320
March	8	2.1	3.65	225
April	2.3	.8	1.31	77.8
May	1.2	.1	.41	25.2
June	.4	.1	.22	13.1
July			.01	.5
August	0	0	0	0
September	0	0	0	0
The year	707		4.27	3,090

Tujunga Creek near Sunland, Calif.

Location.- Water-stage recorder near center of sec. 32, T. 3 N., R. 13 W. (unsurveyed), a quarter of a mile downstream from a partly constructed and abandoned dam, 2 miles above mouth of canyon, and 4 miles northeast of Sunland.

Drainage area.- 106 square miles.

Records available.- October 1916 to September 1934.

Average discharge.- 17 years (1917-34), 22.0 second-feet.

Extremes.- Maximum discharge during year, 1,450 second-feet Jan. 1 (gage height, 9.19 feet); minimum, 1.2 second-feet Oct. 27, 28.
1916-34: Maximum discharge, 8,500 second-feet Dec. 19, 1921 (gage height, 6.20 feet); minimum, 0.1 second-foot during summer of 1919, 1924, 1928, 1929, 1930, 1931.

Remarks.- Discharge regulated by flood-control dam 7 miles upstream. There are two or three small irrigation diversions above gage. Records furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	2.2	2.2	634	5	8	2.2	7	13	14	8	9.5
2	7	1.5	2.2	287	5.5	7	2.4	7	13	13	8	10
3	7	1.5	2.3	33	5	6.5	2.4	6.5	13	12	7.5	10
4	9.5	1.5	2.5	25	5.5	6.5	2.5	9.5	13	12	7.5	10
5	9.5	1.5	2.7	18	4.7	6	2.5	14	13	12	8	10
6	9.5	1.6	2.3	15	4.2	5.5	2.7	14	12	11	7.5	10
7	9	1.6	1.9	14	4.0	6.5	2.6	14	12	11	7.5	11
8	8	1.6	1.4	12	3.8	6	2.8	14	13	12	7	10
9	7.5	1.6	1.4	9.5	3.6	5.5	3.1	13	14	12	7	10
10	9.5	1.6	1.3	9.5	3.6	5.5	3.1	14	14	12	7	10
11	13	1.5	1.2	9.5	3.4	5	2.2	16	14	12	7	10
12	9.5	1.5	1.2	9.5	3.3	4.5	1.4	16	13	12	6.5	10
13	8	1.9	27	9	3.3	4.5	1.6	16	13	12	6.5	9.5
14	6.5	3.6	12	8	3.1	4.0	1.8	15	13	12	5.5	9.5
15	4.2	2.5	7	8	3.1	3.8	1.9	15	13	12	4.2	9.5
16	3.1	1.8	6	7.5	3.3	3.8	2.1	15	13	12	6.5	9.5
17	2.5	2.3	4.5	7.5	3.8	3.6	2.2	15	13	12	7	9.5
18	2.4	6	3.8	7	4.3	3.6	2.1	15	13	11	7.5	8.5
19	2.3	6	3.3	6.5	5.5	3.4	2.1	14	13	10	8	8.5
20	2.1	5	2.8	6	6.5	3.4	2.2	14	13	10	8	8.5
21	1.9	3.4	2.5	5	6.5	3.1	2.3	15	13	9.5	8.5	8.5
22	1.8	2.4	2.1	4.5	7.5	2.9	2.6	15	13	9.5	8.5	9
23	1.6	1.9	2.1	4.0	20	3.1	2.8	14	13	9.5	9	9.5
24	1.3	1.9	1.8	3.6	58	2.8	2.9	15	13	9.5	9.5	8.5
25	1.5	.9	1.8	3.4	16	2.9	3.3	15	14	9.5	9.5	8.5
26	1.2	2.3	1.7	2.9	14	2.8	6.5	16	14	8.5	9.5	8
27	1.2	3.3	1.6	3.3	13	2.8	6.5	16	14	8.5	9.5	8
28	1.2	2.4	1.6	3.6	10	2.5	6.5	15	13	9	9.5	8
29	1.7	2.2	1.7	4.0		2.4	6.5	15	13	8	9.5	7.5
30	2.4	2.3	2.1	4.2		2.4	7	14	14	8.5	9.5	8
31	2.9		223	4.5		2.4		13		8.5	9.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	13	1.2	5.04	310
November	6	.9	2.38	141
December	223	1.2	10.7	657
January	634	2.9	38.0	2,340
February	58	3.1	8.20	455
March	8	2.4	4.26	263
April	7	1.4	3.10	184
May	16	6.5	13.8	847
June	14	12	13.2	783
July	14	8	10.8	663
August	9.5	4.2	7.86	483
September	11	7.5	9.23	549
The year	634	.9	10.6	7,680

Mill Creek near Colby Ranch, Calif.

Location.- Water-stage recorder 200 feet below North Fork, 0.6 mile above junction with Tujunga Creek, and 2 miles northwest of Colby ranch, Los Angeles County.

Drainage area.- 21.1 square miles.

Records available.- November 1930 to September 1934 (discontinued).

Extremes.- Maximum discharge during year, 179 second-feet Jan. 1 (gage height, 4.65 feet); no flow at times.
1930-34: Maximum discharge, 512 second-feet Feb. 9, 1932; no flow at times each year.

Remarks.- Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	58	0.4	0.8	0.6	0.3	0.2	0.1		
2			0	9	.4	.8	.6	.3	.2	.1		
3			0	3.4	.4	.7	.7	.3	.2	.1		
4			0	1.8	.5	.8	.7	.3	.2	.1		
5			0	1.1	.5	.7	.8	.3	.4	0		
6			0	.6	.5	.7	.7	.2	.4	0		
7			0	.6	.4	.7	.6	.2	.4	0		
8			0	.5	.5	.6	.6	.2	.3	0		
9			0	.4	.6	.6	.6	.3	.2	0		
10			0	.4	.6	.6	.6	.2	.3	0		
11			0	.4	.6	.4	.6	.2	.2	0		
12			0	.2	.6	.4	.6	.2	.2	0		
13			.8	.2	.6	.4	.5	.2	.2	0		
14			.2	.2	.5	.3	.6	.2	.2	0		
15			.2	.2	.4	.3	.6	.2	.2	0		
16			.2	.2	.4	.4	.6	.2	.2	0		
17			.2	.2	.4	.4	.6	.2	.2	0		
18			.2	.2	.4	.4	.6	.2	.2	0		
19			.2	.3	.6	.5	.6	.2	.2	0		
20			.2	.3	.4	.6	.4	.2	.2	0		
21			.3	.4	.6	.6	.4	.1	.2	0		
22			.3	.4	.6	.6	.4	.1	.2	0		
23			.3	.4	1.0	.6	.5	.1	.2	0		
24			.3	.6	1.2	.7	.5	.1	.1	0		
25			.3	.6	.9	.7	.5	.2	.1	0		
26			.4	.6	.8	.8	.4	.2	.1	0		
27			.3	.6	.9	.8	.3	.2	.1	0		
28			.3	.4	.8	.8	.3	.2	.1	0		
29			.2	.4		.8	.3	.2	.1	0		
30			.1	.4		.7	.3	.2	.1	0		
31			3.3	.4		.6		.2		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	3.3	0	.27	16.5
January	58	.2	2.69	165
February	1.2	.4	.59	32.7
March	.8	.3	.61	37.3
April	.8	.3	.54	31.9
May	.3	.1	.21	12.7
June	.4	.1	.02	12.1
July	.1	0	.01	.8
August	0	0	0	0
September	0	0	0	0
The year	58	0	.43	309

Note.- No flow during months left blank.

Fox Creek near Colby Ranch, Calif.

Location.- Water-stage recorder half a mile above junction with Tujunga Creek and 4 miles west of Colby ranch, Los Angeles County.

Drainage area.- 9.35 square miles.

Records available.- October 1930 to September 1934.

Extremes.- Maximum discharge during year, 215 second-feet Jan. 1 (gage height, 2.58 feet); minimum, 0.01 second-foot at various times.
1930-34: Maximum discharge, 400 second-feet Feb. 8, 1932 (gage height, 4.50 feet); no flow at various times.

Remarks.- Records furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0.1	89	0.9	3.0	0.9	0.5	0.2			
2			.1	16	.9	2.8	.9	.5	.2			
3			.1	14	.8	2.5	.9	.4	.2			
4			.1	12	.8	2.1	.9	.4	.3			
5			.1	10	.7	2.1	.7	.4	.3			
6			.1	8	.7	1.9	.6	.4	.3			
7			.1	6.5	.7	1.9	.7	.4	.3			
8			.1	4.5	.7	1.7	.7	.4	.3			
9				3.3	.7	1.7	.6	.3	.2			
10				2.3	.7	1.7	.7	.3	.2			
11				2.1	.7	1.5	.6	.3	.2			
12				1.7	.7	1.4	.7	.3	.2			
13			4.9	1.9	.7	1.2	.7	.3	.2			
14			.4	1.7	.7	1.2	.7	.3	.2			
15			.2	1.5	.6	1.2	.7	.3	.3			
16			.1	1.7	.6	1.2	.6	.3	.2			
17			.1	1.7	.7	1.4	.6	.3	.1			
18			.1	1.5	.7	1.2	.6	.3	.2			
19			.1	1.5	.9	1.2	.6	.3	.2			
20				1.4	1.0	1.4	.6	.3	.2			
21				1.5	.9	1.4	.5	.3	.2			
22				1.5	1.0	1.4	.5	.2	.1			
23			.1	1.5	2.5	1.4	.4	.2	.1			
24			.1	1.5	12.0	1.4	.4	.2	.1			
25			.1	1.4	7	1.2	.4	.2	.2			
26			.1	1.2	5	1.2	.4	.2	.1			
27			.1	1.1	4.2	1.2	.4	.2	.1			
28			.1	1.1	3.6	1.2	.4	.2	.1			
29			.1	1.1		1.1	.4	.2	.1			
30			.2	.9		1.0	.4	.2	.1			
31			18	.9		1.0		.1				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.01	0.8
November			.03	3.0
December	18		.83	50.8
January	89	.9	6.3	389
February	12	.6	1.82	101
March	3.0	1.0	1.54	94.8
April	.9	.4	.61	36.1
May	.5	.1	.30	18.2
June	.3	.1	.19	11.3
July			.04	2.4
August			.01	.8
September			.03	1.5
The year	89		.98	710

Note.- Discharge less than 0.1 second-foot on days for which no discharge is given.

Little Tujunga Creek near San Fernando, Calif.

Location.- Water-stage recorder on Foothill Boulevard bridge 4 miles east of San Fernando, Los Angeles County.

Drainage area.- 21.0 square miles.

Records available.- December 1928 to September 1934.

Extremes.- Maximum discharge during year, 1,360 second-feet Jan.1(gage height, 6.06 feet); no flow most of year.
1928-34: Maximum discharge, that of Jan. 1, 1934; no flow most of each year.

Remarks.- Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34.

Dec. 12	2.5	Jan. 4	1.5	Feb. 25	11
Dec. 31	53	Jan. 5	.4	Feb. 26	5.5
Jan. 1	258	Feb. 22	.7	Feb. 27	1.2
Jan. 2	52	Feb. 23	.3		
Jan. 3	20	Feb. 24	7		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	53	0	1.79	110
January	258	0	10.7	658
February	11	0	.92	51.0
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	258	0	1.13	819

Note.- No flow during year except for days given above.

Haines Creek near Tujunga, Calif.

Location.- Water-stage recorder in NE¼NE¼ sec. 18, T. 2 N., R. 13 W., 800 feet above mouth of canyon, and 1½ miles northeast of Tujunga. Altitude, about 2,200 feet.

Drainage area.- 1.2 square miles.

Records available.- February 1917 to September 1934.

Average discharge.- 17 years, 0.116 second-foot.

Extremes.- Maximum stage during year, 11.0 feet Jan. 1 (discharge not determined); no flow at times.
1917-34: Maximum stage, 11.0 feet Jan. 1, 1934 (discharge not determined); stream dry for periods in 1921, 1925, 1926, 1930, 1933, 1934.

Remarks.- Records poor. Discharge estimated Oct. 1 to Nov. 30, Dec. 14, 15, Dec. 31 to Jan. 15, Jan. 30 to Feb. 25, Mar. 7, 8, 19-31, June 1 to Sept. 30. Diversion above and below station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				30	0.04	0.09	0.04	0.01				
2				.8	.04	.14	.03	.01				
3				.4	.04	.12	.03	.01				
4				.4	.04	.11	.03	.01				
5				.3	.04	.11	.03	.01				
6				.3	.04	.11	.03	.01				
7				.2	.04	.12	.02	.01				
8				.2	.03	.10	.02	.01				
9				.2	.03	.09	.02	.01				
10				.2	.03	.09	.01	.01				
11				.1	.03	.07	.01	.01				
12				.1	.03	.06	.01	.01				
13			0.18	.05	.03	.05	.01	.01				
14			.01	.05	.03	.04	.01	.01				
15			.01	.02	.03	.05	.01	.01				
16			.01	.01	.03	.05	.01	.01				
17			.01	.01	.03	.04	.01	.01				
18			.01	.01	.03	.04	.02	.01				
19			.01	.01	.03	.04	.02	.01				
20			.01	.01	.03	.04	.02	.01				
21			.01	.01	.03	.04	.01	.01				
22			.01	.01	.03	.04	.01	.01				
23			.01	.01	.03	.04	.01	.01				
24			.01	.01	5.0	.04	.01	.01				
25			.01	.01	.5	.04	.01	.01				
26			.01	.01	.05	.04	.01	.01				
27			.01	.02	.09	.04	.01	.01				
28			.01	.03	.07	.04	.01	.01				
29			.01	.04		.04	.01	.01				
30			.02	.04		.04	.01	.01				
31			9.0	.04		.04	.01	.01				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.002	0.12
November			.003	.16
December			.302	18.6
January	30	.01	1.08	66.6
February	5.0	.03	.231	12.8
March	.14	.04	.065	3.97
April	.04	.01	.016	.97
May	.01	.01	.010	.61
June			.005	.30
July			.003	.18
August			.002	.12
September			.001	.06
The year	30		.144	104

Arroyo Seco near Pasadena, Calif.

Location.- Water-stage recorder near south line of sec. 30, T. 2 N., R. 12 W. (unsurveyed), 1½ miles above mouth of Millard Canyon and 5½ miles northwest of Pasadena. Altitude, about 1,400 feet.

Drainage area.- 16.4 square miles.

Records available.- December 1910 to September 1933.

Average discharge.- 20 years (1913-15, 1918-34), 8.37 second-feet.

Extremes.- Maximum discharge during year, 950 second-feet Jan. 1 (gage height, 6.38 feet); practically no flow during October, November, August, September.
1910-34: Maximum discharge, about 5,630 second-feet Feb. 20, 1914 (gage height, 12.5 feet); practically no flow for several months each year.

Remarks.- Records fair. Discharge estimated Oct. 1 to Nov. 30, Feb. 26, 28, Mar. 1, July 22 to Sept. 30. No diversions. Result of several discharge measurements furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0.1	406	5.5	10	2.0	1.2	0.5	0.4		
2			.1	60	6	8.5	2.0	1.0	.4	.3		
3			.1	42	5.5	8	2.0	1.0	.5	.3		
4			.1	29	5.5	7	2.0	.9	.5	.3		
5			.1	24	4.5	6.5	1.9	.9	1.2	.3		
6			.1	20	3.8	6.5	1.9	.7	1.3	.2		
7			.1	18	3.8	6	1.9	.6	1.2	.2		
8			.2	16	3.4	5.5	1.7	.5	.9	.2		
9			.1	13	3.8	5	1.7	.5	.9	.1		
10			.1	11	3.4	4.5	1.7	.7	.7	.1		
11			.1	9.5	2.9	4.5	1.7	.6	.6	.1		
12			.5	6.5	2.9	4.2	1.7	.6	.6	.1		
13			57	6.5	2.4	3.8	1.7	.5	.6	.1		
14			10	6	2.9	3.8	1.7	.5	.9	.1		
15			4.2	7	3.4	2.9	1.6	.4	.9	.1		
16			2.9	6.5	2.9	2.9	1.4	.4	1.0	.1		
17			2.4	6.5	2.9	2.9	1.4	.4	1.0	.1		
18			2.0	6	2.9	2.9	1.4	.5	1.0	.1		
19			2.0	5.5	4.7	3.4	1.3	.5	.7	.1		
20			1.7	5.5	6.5	3.4	1.4	.4	.6	.1		
21			1.2	5	5.5	3.4	1.4	.4	.6	.1		
22			1.2	5.5	8	3.4	1.4	.5	.6	.1		
23			1.2	5	38	3.4	1.2	.5	.6	.1		
24			.9	4.5	57	3.4	1.2	.4	.7	.1		
25			.9	4.5	38	3.4	1.2	.4	.6	.1		
26			.9	5	20	2.9	1.2	.4	.5	.1		
27			.9	5	12	2.4	1.2	.5	.4	.1		
28			.9	6.5	11	2.0	1.2	.5	.4	.1		
29			.7	6.5		2.0	1.2	.4	.4	.1		
30			1.6	5.5		2.0	1.2	.5	.4	.1		
31			134	5.5		2.0		.5		.1		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.1	6.1
November			.06	3.6
December	134	0.1	7.36	453
January	406	4.5	24.6	1,510
February	57	2.4	9.61	534
March	10	2.0	4.27	263
April	2.0	1.2	1.55	92.2
May	1.2	.4	.57	35.3
June	1.3	.4	.71	42.0
July	.4	.1	.14	8.9
August			.05	3.1
September			.02	1.2
The year	406		4.08	2,950

Santa Anita Creek near Sierra Madre, Calif.

Location.- Water-stage recorder in SW¼NE¼ sec. 10, T. 1 N., R. 11 W., at head of Hermits Falls, 4 miles northeast of Sierra Madre. Altitude, about 1,400 feet.

Drainage area.- 10.5 square miles.

Records available.- July 1916 to September 1934.

Average discharge.- 18 years (1916-34), 4.32 second-feet.

Extremes.- Maximum discharge during year, 564 second-feet Jan. 1 (gage height, 6.10 feet); minimum, less than 0.1 second-foot during part of August and September.
1916-34: Maximum discharge, about 1,400 second-feet Apr. 7, 1926 (gage height, 10.7 feet); practically no flow Aug. 18 to Sept. 14, 1929.

Remarks.- Records good. Discharge estimated Jan. 2-8, Feb. 17, 18. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.4	0.3	301	3.1	8.5	3.3	2.0	1.0	0.7	0.2	0.2
2	.1	.3	.4	50	3.1	8	3.3	1.9	1.0	.7	.2	.1
3	.1	.2	.3	22	3.1	7	3.1	1.8	1.0	.7	.2	.1
4	.1	.2	.4	16	2.9	6.5	3.1	1.6	1.1	.7	.2	.1
5	.1	.2	.5	12	3.1	6.5	2.8	1.3	1.6	.6	.2	.1
6	.1	.2	.4	10	3.1	6	2.8	1.3	1.4	.6	.2	.1
7	.1	.2	.3	9	3.3	6	2.5	1.3	1.4	.4	.2	.1
8	.1	.2	.3	8	3.3	6	2.3	1.3	1.3	.3	.2	.1
9	.1	.2	.3	7	3.3	5.5	2.3	1.1	1.4	.3	.2	.1
10	.1	.2	.3	6.5	3.1	5.5	2.5	1.0	1.5	.2	.2	.1
11	.1	.2	.3	6	3.1	5	2.6	1.0	1.3	.2	.2	.1
12	.1	.2	.4	6	2.9	4.6	2.6	1.0	1.3	.2	.2	.1
13	.1	.2	29	6	2.8	4.6	2.5	1.0	1.5	.2	.2	.1
14	.1	.2	5.5	5.5	2.8	4.6	2.6	1.0	1.7	.2	.2	.1
15	.1	.2	3.3	5.5	2.8	4.4	2.6	1.1	1.7	.2	.2	.1
16	.1	.2	2.6	5.5	2.9	4.4	2.6	1.1	1.4	.2	.2	.1
17	.1	.2	1.9	5	2.9	4.4	2.5	1.1	1.4	.2	.2	.1
18	.1	.2	1.6	5	2.9	4.2	2.3	1.3	1.4	.2	.2	.2
19	.1	.2	1.4	4.9	3.9	4.0	2.0	1.3	1.3	.2	.2	.2
20	.1	.2	1.3	4.9	3.1	3.8	1.9	1.2	1.4	.2	.2	.2
21	.1	.2	1.3	4.6	2.2	3.6	1.8	1.1	1.5	.2	.2	.2
22	.1	.2	1.2	4.2	3.7	3.6	1.9	1.2	1.2	.2	.2	.2
23	.1	.2	1.2	4.2	24	3.6	2.2	1.2	1.1	.2	.2	.2
24	.1	.2	1.2	4.2	32	3.6	2.2	1.2	1.1	.2	.2	.2
25	.1	.2	1.2	4.0	18	3.4	2.2	1.2	1.3	.2	.2	.2
26	.1	.2	1.2	3.8	14	3.3	2.0	1.3	1.1	.2	.2	.2
27	.1	.2	1.0	3.6	11	3.3	1.7	1.2	1.0	.2	.2	.2
28	.2	.2	1.0	3.4	9.5	3.3	1.7	1.2	.9	.2	.2	.2
29	.2	.3	1.0	3.4		3.1	1.5	1.1	.7	.2	.2	.2
30	.2	.4	1.5	3.3		2.9	1.7	1.1	.7	.2	.2	.2
31	.6		168	3.3		2.9		1.2		.2		.2

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.6	0.1	0.13	7.7
November	.4	.2	.22	13.1
December	168	.3	7.44	457
January	301	3.3	17.3	1,070
February	32	2.2	6.28	349
March	8.5	2.9	4.71	290
April	3.3	1.5	2.37	141
May	2.0	1.0	1.25	76.8
June	1.7	.7	1.26	74.8
July	.7	.2	.30	18.6
August	.2	.2	.20	12.3
September	.2	.1	.15	8.7
The year	301	.1	3.47	2,520

Little Santa Anita Creek near Sierra Madre, Calif.

Location.- Water-stage recorder near center of W½ sec. 9, T. 1 N., R. 11 W., 2 miles northeast of Sierra Madre.

Drainage area.- 1.9 square miles.

Records available.- April 1916 to September 1934.

Average discharge.- 17 years (1916-25, 1926-34), 0.63 second-foot.

Extremes.- Maximum discharge during year, 89 second-feet Dec. 31 (gage height, 2.40 feet); minimum, less than 0.1 second-foot during summer.
1916-34: Maximum stage, 11.75 feet Apr. 7, 1926 (discharge not determined); no flow during periods in 1919, 1924, 1925.

Remarks.- Records good. Discharge estimated Jan. 6-10. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				40	0.7	1.7	0.6	0.3	0.2	0.1		
2				7.5	.7	1.7	.7	.3	.2	.1		
3				4.5	.6	1.6	.7	.3	.2	.1		
4				3.4	.6	1.5	.6	.3	.2	.1		
5				3.0	.6	1.4	.6	.3	.2			
6				2.4	.6	1.3	.5	.2	.2			
7				1.9	.6	1.3	.5	.2	.2			
8				1.8	.5	1.2	.5	.2	.2			
9				1.7	.5	1.2	.4	.2	.2			
10				1.6	.5	1.2	.3	.2	.2			
11				1.5	.5	1.1	.3	.2	.2			
12			0.1	1.4	.4	1.0	.3	.2	.2			
13			3.1	1.3	.4	.9	.3	.2	.2			
14			.7	1.3	.4	.9	.3	.2	.2			
15			.3	1.2	.5	.9	.3	.2	.2			
16			.3	1.2	.5	.9	.4	.2	.2			
17			.2	1.1	.5	.8	.4	.2	.2			
18			.2	1.1	.5	.8	.4	.2	.2			
19			.2	1.0	.5	.7	.3	.2	.2			
20			.2	.9	.6	.7	.3	.2	.2			
21			.2	.9	.5	.7	.3	.2	.2			
22			.2	.9	.8	.7	.3	.2	.2			
23			.2	.8	2.9	.7	.3	.2	.2			
24			.2	.8	6	.7	.3	.2	.2			
25			.2	.7	2.8	.7	.3	.2	.2			
26			.1	.7	2.4	.6	.3	.2	.2			
27			.1	.7	2.1	.6	.2	.2	.2			
28			.1	.7	1.9	.6	.2	.2	.2			
29			.1	.7		.6	.2	.2	.2			
30			.3	.7		.6	.2	.2	.2			
31			28	.7		.6		.2				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.015	0.9
November			.03	1.8
December	28		1.15	70.6
January	40	.7	2.84	175
February	6	.4	1.08	59.7
March	1.7	.6	.96	59.3
April	.7	.2	.38	22.4
May	.3	.2	.22	13.3
June	.2	.2	.2	11.9
July	.1		.057	3.5
August			.023	1.4
September			.024	1.4
The year	40		.58	421

Note.- Discharge less than 0.1 second-foot on days for which no discharge is given.

Eaton Creek near Pasadena, Calif.

Location.- Water-stage recorder near line between secs. 2 and 11, T. 1 N., R. 12 W., at mouth of canyon just above Mount Wilson toll bridge and 4 miles northeast of Pasadena.

Drainage area.- 6.5 square miles.

Records available.- March 1918 to September 1934.

Average discharge.- 16 years, 2.02 second-feet.

Extremes.- Maximum discharge during year, 330 second-feet Jan. 1 (gage height, 3.52 feet); no flow for several months.
1918-34: Maximum discharge, about 1,360 second-feet Apr. 7, 1926 (gage height, 5.0 feet); no flow for periods each year.

Remarks.- Records good. Water diverted above the station by city of Pasadena is not included in tables of daily and monthly discharge; record of monthly diversion furnished by the city.

Monthly diversion, in acre-feet, from Eaton Creek, by city of Pasadena, 1933-34

October	10.2	May	46.8
November	10.4	June	42.1
December	51.4	July	20.4
January	185	August	11.9
February	119	September	10.7
March	160		
April	77.6	The year	744

Discharge, in second-feet, of Eaton Creek near Pasadena, Calif., 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	196	0	0.3						
2			0	39	0	0						
3			0	22	0	0						
4			0	11	0	0						
5			0	2.9	0	0						
6			0	2.3	0	0						
7			0	1.9	0	0						
8			0	1.0	0	0						
9			0	.2	0	0						
10			0	0	0	0						
11			0	0	0	0						
12			0	0	0	0						
13			40	0	0	0						
14			2.9	0	0	0						
15			.3	0	0	0						
16			0	0	0	0						
17			0	0	0	0						
18			0	0	0	.1						
19			0	0	0	.2						
20			0	0	0	0						
21			0	0	0	0						
22			0	0	0	0						
23			0	0	12	0						
24			0	0	25	0						
25			0	0	9	0						
26			0	0	2.3	0						
27			0	0	1.3	0						
28			0	0	.7	0						
29			0	0		0						
30			1.8	0		0						
31			96	0		0						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	96	0	.45	280
January	196	0	8.91	548
February	25	0	1.80	99.8
March	.3	0	.02	1.2
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	196	0	1.28	929

Note.- No flow during months left blank.

Rio Hondo near Montebello, Calif.

Location.- Water-stage recorder in Potrero Grande grant at Montebello oil field, about 1,000 feet above Mission Bridge and 2 miles northeast of Montebello, Los Angeles County.

Records available.- October 1928 to September 1934.

Extremes.- Maximum discharge during year, 11,800 second-feet Jan. 1 (gage height, 10.43 feet); minimum, 0.3 second-foot Dec. 1 (gage height, 1.31 feet).
1928-34: Maximum discharge, that of Jan. 1, 1934; minimum, that of Dec. 1, 1933.

Remarks.- Records furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	10	3.3	4,690	21	21	16	16	13	12	7.5	13
2	10	12	6.5	442	21	17	16	16	12	11	8.5	13
3	10	13	11	66	20	20	13	16	12	12	10	13
4	7	16	11	50	20	17	17	16	11	13	10	16
5	16	13	8.5	26	20	17	24	16	13	13	9.5	17
6	13	16	10	30	17	17	16	14	11	12	11	13
7	13	13	11	18	17	17	14	16	11	11	11	14
8	10	14	10	37	20	17	17	17	9.5	11	11	13
9	13	13	6.5	56	18	16	17	16	9.5	10	11	13
10	13	14	6	44	21	16	17	16	10	9.5	11	12
11	10	13	8.5	46	21	14	17	16	11	7	11	10
12	10	10	10	30	21	13	17	16	10	7	13	10
13	10	11	418	26	20	16	16	12	10	7.5	12	12
14	13	16	51	34	21	18	17	12	11	8.5	10	12
15	12	18	21	30	24	18	17	14	10	8.5	11	13
16	12	14	23	26	24	17	18	16	12	11	13	14
17	11	16	18	32	20	12	17	14	12	12	12	16
18	11	16	14	26	16	10	17	16	12	11	10	14
19	10	13	16	28	21	12	17	14	11	12	10	16
20	10	13	11	21	24	13	17	11	13	12	11	14
21	14	14	11	18	16	17	20	13	13	13	10	16
22	13	13	13	21	6	16	18	14	13	13	7.5	14
23	18	11	14	21	86	17	17	14	11	12	9.5	14
24	16	10	14	26	268	16	18	13	12	11	9.5	18
25	13	11	14	24	59	17	17	14	11	11	10	18
26	10	11	13	18	46	17	16	14	11	11	10	16
27	10	11	10	18	41	18	17	14	11	11	11	14
28	6	10	6	34	26	20	16	14	10	11	12	18
29	7	11	6	44		21	14	13	11	9.5	12	16
30	8	4.5	45	46		21	17	13	12	10	13	14
31	9		3,130	20		20		13		8.5	13	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	18	6	11.2	690
November	18	4.5	12.7	755
December	3,130	3.3	128	7,860
January	4,690	18	195	12,000
February	268	6	34.1	1,890
March	21	10	16.9	1,040
April	24	13	16.9	1,010
May	17	11	14.5	891
June	13	9.5	11.3	672
July	13	7	10.7	659
August	13	7.5	10.7	657
September	18	10	14.2	845
The year	4,690	3.3	40.0	28,960

Rio Hondo near Downey, Calif.

Location.- Water-stage recorder in San Antonio grant on Stewart and Gray road bridge half a mile above junction with Los Angeles River and 1½ miles west of Downey, Los Angeles County.

Drainage area.- 374 square miles.

Records available.- March 1928 to September 1934.

Extremes.- Maximum discharge during year, 16,000 second-feet Jan. 1 (gage height, 11.80 feet); no flow during several periods.
1928-34: Maximum discharge, that of Jan. 1, 1934; no flow part of each year.

Remarks.- Entire record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Dec. 12	0.1	Dec. 31	2,130	Jan. 3	4
Dec. 13	328	Jan. 1	5,810	Feb. 23	17
Dec 14	.1	Jan. 2	130	Feb. 24	168

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	2,130	0	79.3	4,880
January	5,810	0	192	11,800
February	168	0	6.6	367
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	5,810	0	23.5	17,050

Note.- No flow during year except for days given above.

Rio Hondo Slough near Montebello, Calif.

Location.- Water-stage recorder on the San Gabriel Boulevard bridge in Paso de Bartolo grant, 2 miles northeast of Montebello, Los Angeles County.

Records available.- October 1932 to September 1934.

Extremes.- Maximum discharge during year, 166 second-feet Jan. 1 (gage height, 6.71 feet); minimum, 6.5 second-feet Aug. 4 (gage height, 0.23 foot).
1932-34: Maximum discharge, that of Jan. 1, 1934; minimum, that of Aug. 4, 1934.

Remarks.- Records furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	13	12	64	13	14	12	12	11	11	9	9
2	14	13	13	27	13	14	12	12	11	11	9	9
3	14	13	13	24	13	14	12	11	12	12	8.5	9
4	14	12	13	22	13	14	12	12	9.5	12	8	9
5	14	13	13	21	13	14	13	12	9.5	12	8	10
6	13	13	13	20	12	14	13	12	9.5	12	7.5	10
7	13	13	14	19	12	14	12	12	10	12	8	9.5
8	13	13	13	18	12	14	12	13	11	11	9	9
9	13	13	13	18	13	14	12	13	11	10	10	9
10	13	13	13	16	13	14	12	12	10	10	9	9
11	13	13	13	18	13	14	12	12	10	10	9	9
12	12	13	13	18	13	14	12	12	10	10	10	9
13	12	13	24	17	13	14	12	12	11	9.5	10	9
14	12	13	17	16	14	13	12	12	12	9.5	10	9
15	12	12	16	16	13	13	12	11	11	9	9.5	9
16	12	13	16	15	13	13	12	11	11	10	10	10
17	11	13	15	15	13	13	11	11	11	10	9.5	10
18	12	14	15	14	13	12	11	11	11	10	9.5	9
19	12	13	15	15	13	12	11	12	11	9	10	10
20	12	14	15	14	14	13	12	12	11	9	10	9.5
21	12	14	15	15	13	13	12	12	11	9	10	10
22	12	14	14	14	14	13	12	12	11	9	9	10
23	13	14	14	14	14	12	12	12	11	9	9	10
24	13	14	14	14	16	12	12	11	11	10	9.5	10
25	13	13	14	14	14	12	12	11	11	11	10	10
26	13	12	14	14	15	12	12	11	11	10	10	10
27	12	12	14	14	14	12	12	12	11	10	10	10
28	12	12	14	14	14	12	12	12	10	10	9.5	9.5
29	12	12	15	14		11	12	11	10	9.5	9	9.5
30	13	12	18	13		11	12	11	10	9.5	9	9
31	14		44	13		11		11		9.5	9	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	14	11	12.7	781
November	14	12	13.0	772
December	44	12	15.5	950
January	84	13	18.7	1,150
February	16	12	13.3	740
March	14	11	13.0	797
April	13	11	12.0	712
May	13	11	11.7	720
June	12	9.5	10.7	636
July	12	9	10.2	626
August	10	7.5	9.27	570
September	10	9	9.5	563
The year	84	7.5	12.5	9,020

Ballona Creek near Culver City, Calif.

Location.- Water-stage recorder in La Ballona grant on Centinela Boulevard bridge about 2½ miles southeast of Culver City, Los Angeles County.

Drainage area.- 112 square miles.

Records available.- February 1928 to September 1934.

Extremes.- Maximum discharge during year, 11,300 second-feet Jan. 1 (gage height, 18.5 feet); no flow at times.
1928-34: Maximum discharge, that of Jan. 1, 1934; no flow at times each year.

Remarks.- Entire record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	4.6	0.4	3,060	0.4	4.6	0	1.0	0			
2	0	.5	.4	101	.5	5	.5	15	0			
3	0	.5	.4	23	.5	2.3	3.2	9.5	0			
4	0	.4	.4	16	.5	1.8	.5	5	0			
5	0	.3	.5	22	3.2	5	0	2.8	105			
6	0	.1	.5	34	5	3.6	0	1.8	4.0			
7	0	.2	.5	14	4.1	1.8	0	1.8	0			
8	0	.3	3.2	13	7	3.6	0	.5	0			
9	0	.2	3.2	14	8	2.3	0	0	0			
10	0	0	1.4	12	10	1.0	0	0	0			
11	0	0	.5	13	11	2.8	0	0	0			
12	0	0	211	46	10	0	0	0	0			
13	0	0	771	48	17	0	0	0	0			
14	0	0	126	46	16	0	0	0	0			
15	0	0	31	43	74	0	0	0	0			
16	0	0	14	40	40	0	0	0	0			
17	0	0	8	14	25	0	0	0	0			
18	0	0	6	2.3	18	0	0	0	0			
19	0	0	6	.5	55	0	0	0	0			
20	2.0	0	4.6	.5	40	0	0	0	0			
21	.3	0	3.2	.5	5.5	0	8.5	0	0			
22	.2	.3	1.8	2.3	18	0	7.5	0	0			
23	0	.5	.5	1.0	230	0	1.4	0	0			
24	0	.5	.4	.5	283	0	0	0	0			
25	0	.5	.4	.4	.4	0	0	0	0			
26	0	.5	.4	.5	.4	0	0	0	0			
27	0	.5	2.3	.4	1.4	0	0	0	0			
28	0	4.6	5.5	.5	2.8	0	0	0	0			
29	0	4.1	9	.5		0	0	0	0			
30	101	.4	90	.4		0	0	0	0			
31			4,310	.4		0		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	101	0	3.34	205
November	4.6	0	.63	37.7
December	4,310	.4	181	11,130
January	3,060	.4	115	7,080
February	283	.4	31.7	1,760
March	5	0	1.09	67.0
April	8.5	0	.72	42.8
May	15	0	1.21	74.2
June	105	0	3.6	216
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	4,310	0	28.5	20,610

Note.- No flow during months left blank.

Topanga Creek near Topanga Beach, Calif.

Location.- Water-stage recorder in Boca de Santa Monica grant on highway bridge 2 miles north of Topanga Beach, Los Angeles County.

Drainage area.- 17.9 square miles.

Records available.- January 1930 to September 1934.

Extremes.- Maximum discharge during year, 4,510 second-feet Dec. 31 (gage height, 11.27 feet); no flow during part of year.
1930-34: Maximum discharge, that of Dec. 31, 1933; no flow during 1933 and 1934.

Remarks.- Entire record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	1,030	0.7	3.3	0.8	0.4	0.1	0.1		
2			0	325	.6	3.1	.7	.3	.1	.1		
3			0	28	.6	2.8	.6	.3	.1	.1		
4			0	9.5	.6	2.7	.6	.3	.1	.1		
5			0	7.5	.6	2.5	.6	.3	.2	.1		
6			0	6.5	.6	2.4	.6	.3	.3	.1		
7			0	5.5	.6	2.4	.5	.3	.3	.1		
8			0	4.5	.6	2.3	.5	.3	.3	.1		
9			0	3.7	.6	2.3	.4	.3	.2	.1		
10			0	3.1	.6	2.2	.4	.3	.2	.1		
11			0	2.9	.6	2.2	.4	.3	.2	.1		
12			.8	2.5	.6	2.1	.4	.2	.2	.1		
13			3.6	2.3	.6	2.1	.4	.2	.1	.1		
14			.8	2.1	.6	2.0	.4	.2	.1	.1		
15			.5	1.8	4.3	2.0	.4	.2	.1	.1		
16			.5	1.6	3.4	2.0	.5	.2	.1	.1		
17			.4	1.4	2.7	2.0	.5	.2	.1	.1		
18			.3	1.2	2.1	1.9	.5	.2	.1	.1		
19			.2	1.2	1.8	1.8	.6	.2	.1	.1		
20			.2	1.2	1.4	1.8	.6	.2	.1	.1		
21			.2	1.2	1.1	1.7	.5	.2	.1	.1		
22			.2	1.1	1.2	1.7	.5	.1	.1	.1		
23			.3	1.1	4.0	1.6	.5	.1	.1	.1		
24			.3	1.1	45	1.5	.5	.1	.1	.1		
25			.3	1.0	4.3	1.4	.5	.1	.1	.1		
26			.3	.9	4.0	1.3	.5	.1	.1	.1		
27			.3	.e	4.1	1.2	.4	.1	.1	.1		
28			.4	.8	3.6	1.1	.4	.1	.1	.1		
29			.4	.8		1.0	.4	.1	.1	.1		
30			.4	.7		1.0	.4	.1	.1	.1		
31			1,590	.7		.9		.1		.1		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.02	1.2
November			.03	1.6
December	1,590	0	51.6	3,170
January	1,030	.7	46.8	2,880
February	45	.6	3.27	183
March	3.3	.9	1.95	120
April	.8	.4	.50	29.8
May	.4	.1	.21	12.7
June	.3	.1	.14	8.1
July	.1	.1	.10	6.1
August			.02	1.5
September			.03	1.8
The year	1,590	0	8.86	6,420

Note:- Daily discharge nothing or less than 0.1 second-foot during Oct., Nov., Aug., and Sept.

Malibu Creek at Crater Camp, near Calabasas, Calif.

Location.- Water-stage recorder in SW¼ sec. 18, T. 1 S., R. 17 W., a quarter of a mile below Crater Camp and 6 miles southwest of Calabasas.

Drainage area.- 103 square miles.

Records available.- January 1931 to September 1934.

Extremes.- Maximum discharge during year, 9,650 second-feet Jan. 1 (gage height, 13.75 feet); minimum, 0.1 second-foot for several periods.
1931-34: Maximum discharge, that of Jan. 1, 1934; no flow for several periods in 1932.

Remarks.- Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.3	0.9	3,160	7.5	10	1.5	1.5	0.8	0.4	0.2	0.1
2	.1	.3	.8	326	7.5	10	2.1	1.5	.8	.4	.2	.1
3	.1	2.1	.8	56	7.5	9	2.1	1.5	.8	.4	.2	.1
4	.1	3.2	.7	4.4	7.5	8.5	2.1	1.0	.9	.4	.2	.2
5	.1	3.9	.7	6	6.5	8.5	2.1	.9	.9	.4	.2	.2
6	.1	3.2	.7	12	6	8.5	2.1	.9	.8	.4	.2	.2
7	.1	1.1	.7	18	6.5	8.5	2.1	.9	.8	.4	.2	.2
8	.1	1.0	.7	9	6.5	7.5	2.1	.9	.8	.4	.2	.2
9	.1	1.7	.7	16	6	6.5	2.1	1.0	.8	.4	.2	.2
10	.1	2.9	.7	13	6.5	6	2.1	.8	.8	.3	.2	.2
11	.1	1.6	.7	12	6.5	5	2.1	.8	.8	.2	.2	.2
12	.1	1.5	.9	11	6	6.5	2.1	.8	.8	.2	.2	.2
13	.1	1.4	2.4	11	8.5	6.5	2.6	.8	.8	.2	.2	.1
14	.1	1.3	1.6	10	5	4.4	3.7	.7	1.0	.3	.2	.2
15	.1	1.0	.9	9	4.4	6	3.7	.7	1.0	.4	.2	.2
16	.1	1.0	.6	9	3.7	6.5	4.4	.8	1.0	.4	.2	.2
17	.1	1.0	.4	12	2.6	5	4.4	.8	1.0	.3	.1	.2
18	.1	.9	.3	13	5	3.7	3.2	.8	1.0	.3	.1	.2
19	.1	1.0	.2	13	6	4.4	2.6	.8	1.0	.2	.2	.2
20	.1	1.0	.1	11	7.5	5	2.1	.8	.8	.1	.2	.2
21	.1	1.0	.1	12	6.5	4.4	2.1	.8	.7	.1	.2	.2
22	.1	1.0	.2	14	6.5	5	1.5	.6	.6	.1	.2	.2
23	.1	.9	.2	13	18	6	1.5	.9	.6	.1	.2	.2
24	.1	1.0	.3	13	90	6	1.5	.9	.6	.1	.2	.2
25	.1	.9	.4	12	13	6	1.5	.9	.6	.1	.2	.2
26	.1	.9	.4	8.5	11	4.4	1.5	.9	.5	.1	.2	.2
27	.1	.9	.6	8.5	10	4.4	1.5	.9	.4	.1	.2	.2
28	.1	1.0	.8	8.5	10	3.2	1.5	.8	.4	.1	.2	.1
29	.1	1.0	.8	8.5		2.6	1.5	.8	.4	.1	.2	.1
30	.1	.9	.8	9		2.1	1.5	.8	.4	.1	.2	.1
31	.1		1,720	8.5		1.5		.8		.1	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.1	0.1	0.10	6.1
November	3.9	.3	1.36	81.1
December	1,720	.1	56.1	3,450
January	3,160	4.4	124	7,630
February	90	2.6	10.3	572
March	10	1.5	5.86	360
April	4.4	1.5	2.23	133
May	1.5	.7	.90	55.6
June	1.0	.4	.75	44.8
July	.4	.1	.25	15.1
August	.2	.1	.19	11.9
September	.2	.1	.18	10.5
The year	3,160	.1	17.1	12,370

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Santa Clara River near Saugus, Calif.

Location.- Water-stage recorder on old highway bridge pier in the San Francisco grant, 3 miles west of Saugus, Los Angeles County.

Drainage area.- 355 square miles.

Records available.- October 1929 to September 1934.

Extremes.- Maximum discharge during year, 3,870 second-feet Jan. 1 (gage height, 15.07 feet); minimum, less than 0.1 second-foot at times.
1929-34: Maximum discharge, that of Jan. 1, 1934; no flow Aug. 10, 1933.

Remarks.- Record furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0.2	0.2	448	0.8	0.6	0.3	0.3	0.2	0.1	0.1	
2		.1	.2	26	.8	.6	.4	.3	.2	.1	.1	
3			.2	10	.9	.7	.4	.2	.2	.1	.1	
4			.2	4.6	.9	.8	.5	.2	.3	.1	.1	
5			.2	1.4	.9	.7	.5	.2	.3	.1	.1	
6			.2	.6	.9	.7	.5	.2	.2	.1	.1	
7			.2	.5	.6	.6	.5	.2	.2	.1	.1	
8			.2	.4	.5	.4	.5	.2	.2	.1	.1	
9			.2	.4	.5	.5	.5	.2	.2	.1	.1	
10		.1	.6	.5	.5	.5	.5	.2	.2	.1	.1	
11		.2	.6	.6	.5	.5	.5	.2	.2	.2	.1	
12	0.1	.2	2.6	.5	.6	.5	.5	.2	.2	.2	.1	
13	.1	.1	7.5	.5	.6	.5	.4	.2	.2	.1	.1	
14			1.0	.5	.6	.4	.5	.2	.2	.1	.1	
15			.2	.5	.6	.4	.4	.2	.2	.1	.1	
16		.1	.2	.5	.7	.5	.4	.2	.2	.1	.1	
17		.2	.2	.5	.8	.4	.4	.2	.2	.1	.1	
18			.2	.5	.8	.4	.3	.2	.2	.1	.1	
19			.2	.5	.7	.5	.3	.2	.2	.1	.1	
20			.6	.4	.6	.5	.3	.2	.2	.1	.1	
21			.2	.4	.6	.5	.2	.2	.2	.1	.1	
22			.2	.4	2.9	.4	.3	.2	.1	.1	.1	
23			.2	.5	4.2	.4	.5	.2	.1	.1	.1	
24		.2	.2	.5	6.5	.5	.5	.2	.1	.1	.1	
25		.2	.2	.5	.2	.6	.4	.2	.1	.1	.1	
26		.2	.2	.4	.2	.4	.3	.2	.1	.1	.1	
27	.1	.2	.2	.5	.3	.3	.3	.2	.1	.1	.1	
28	.2	.2	.2	.5	.4	.3	.3	.2	.1	.1	.1	
29	.2	.2	.2	.6		.4	.3	.2	.1	.1	.1	
30	.2	.2	.2	.7		.5	.3	.2	.1	.1	.1	
31	.2		203	.8		.4		.2		.1	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.2		0.07	4.2
November	.2		.12	7.3
December	203	0.2	7.12	438
January	448	.4	16.2	998
February	6.5	.2	1.04	57.7
March	.8	.3	.50	30.5
April	.5	.2	.40	23.8
May	.3	.2	.21	12.7
June	.3	.1	.18	10.5
July	.2	.1	.11	6.5
August	.1	.1	.10	6.1
September			.06	3.6
The year	448		2.21	1,600

Note:- Discharge less than 0.1 second-foot on days for which no discharge is given.

Piru Creek at Piru, Calif.

Location.- Water-stage recorder in southwest corner Temescal grant, at Southern Pacific Co.'s railroad bridge a quarter of a mile northeast of Piru, Ventura County. Altitude, about 680 feet.

Drainage area.- 432 square miles.

Records available.- October 1927 to September 1934. October 1911 to September 1913 at station 1½ miles above Southern Pacific Co.'s railroad bridge.

Extremes.- Maximum discharge during year, 12,000 second-feet Jan. 1 (gage height, 5.20 feet); no flow at times.
1927-34: Maximum discharge, 15,800 second-feet Feb. 9, 1932; no flow during part of each year.

Remarks.- Records poor. During year Piru Water Co. diverted about 610 acre-feet above station. The Doheny Ditch also diverts above station (see miscellaneous measurements). Results of discharge measurements furnished by Ventura County Water Survey. Discharge estimated Dec. 17-19, Jan. 2 to May 7, May 12, 13, 26-30, June 9, 11, 12, July 27 to Sept. 25.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	.1	2.0	0	3,360	13	53	10	1.4	0.3	0	.4	.1
2	1.1	1.4	0	380	13	49	10	1.5	0	0	.4	.1
3	1.1	.6	0	164	13	44	10	1.6	0	0	.4	.1
4	.8	0	0	92	13	40	10	1.2	0	0	.4	.1
5	.2	0	0	74	13	36	9.5	.8	3.6	0	.4	.1
6	0	0	0	64	13	32	9.5	.5	3.3	0	.4	.1
7	0	0	0	51	13	28	9	.4	.6	0	.4	.1
8	0	0	0	39	13	25	8	0	.5	0	.4	.1
9	0	0	0	36	12	24	7	0	.1	0	.4	.1
10	0	0	0	34	12	23	6.5	0	.1	0	.4	.3
11	0	0	0	28	12	22	6	0	.1	0	.4	.3
12	0	0	0	27	12	22	5	.4	.1	0	.4	.3
13	0	0	64	26	12	21	5	1.0	.2	0	.4	.3
14	0	0	62	24	11	21	5	0	.4	0	.4	.3
15	0	0	26	22	13	20	5	0	0	0	.4	.2
16	0	0	16	19	15	19	5	0	0	0	.3	.1
17	0	0	10	19	13	18	5	0	0	0	.3	.1
18	0	0	7.5	18	13	18	4.9	0	0	0	.3	.2
19	0	0	6	18	12	18	4.8	0	0	0	.3	.3
20	0	0	4.4	18	12	17	4.7	0	0	0	.3	.4
21	.4	0	4.0	18	12	17	4.5	.1	0	0	.3	.4
22		0	3.0	18	30	16	4.4		0	0	.3	.4
23	0	0	3.5	16	367	16	4.3	0	0	0	.2	.4
24	0	0	3.5	15	500	16	4.1	0	0	0	.2	.4
25	0	0	2.8	15	92	16	4.0	.6	0	0	.2	.2
26	0	0	2.6	14	78	16	3.0	1.0	0	0	.1	0
27	0	0	2.8	14	60	15	2.0	1.0	0	.4	.1	0
28	0	0	2.8	13	56	14	1.1	.9	0	.4	.1	0
29	0	0	2.5	13		11	1.7	.8	0	.4	.1	0
30	.4	0	3.0	13		10	1.7	.2	0	.4	.1	0
31	2.7		948	13		10		0		.4	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.7	0	0.22	13.5
November	2.0	0	.13	7.9
December	948	0	37.9	2,330
January	3,360	13	151	9,270
February	500	11	51.7	2,870
March	53	10	22.8	1,400
April	10	1.1	5.69	339
May	1.6	0	.43	26.6
June	3.8	0	.32	18.8
July	.4	0	.06	4.0
August	.4	.1	.30	18.8
September	.4	0	.18	10.9
The year	3,360	0	22.5	16,300

Sespe Creek at Sespe, Calif.

Location.- Water-stage recorder in Sespe no. 2 grant at highway bridge half a mile southeast of Sespe, Ventura County. Altitude, about 680 feet.

Drainage area.- 257 square miles.

Records available.- September 1911 to September 1913, October 1927 to September 1934.

Extremes.- Maximum discharge during year, about 34,000 second-feet Dec. 31 (gage height, 16.2 feet); no flow for several months.
1927-34: Maximum discharge, that of Dec. 31, 1933; no flow for several months each year.

Remarks.- Records fair. Fillmore Irrigation Co. diverts water about 4 miles above station (see miscellaneous measurements). Discharge estimated Feb. 7-15, Mar. 3 to June 19. Results of many discharge measurements furnished by Ventura County Water Survey.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			1.0	7,220	34	141	35	2.1	2.9			
2			2.5	1,360	34	125	33	2.8	3.5			
3			2.5	535	34	108	32	3.7	4.0			
4			2.7	292	34	94	31	4.2	6			
5			2.2	204	34	86	30	7	7			
6			1.7	157	34	80	29	7	9			
7			2.7	128	34	75	24	6	8			
8			2.3	108	34	69	21	6	6			
9			1.8	97	34	67	20	6	5			
10			1.1	88	34	65	20	6	4			
11			.2	82	33	64	19	5.5	4			
12			2.5	76	33	62	19	4.9	3			
13			748	72	28	60	18	4.6	2			
14			212	70	24	59	17	4.4	2			
15			58	68	27	57	15	4.0	1			
16			35	65	35	55	15	3.8	1			
17			26	63	32	52	14	3.5	1			
18			23	61	28	50	13	3.3	1			
19			20	56	28	48	13	3.2	1			
20			18	53	30	46	13	3.2	0			
21			18	51	29	44	12	3.1	0			
22			16	48	28	43	11	3.1	0			
23			15	45	1,450	42	10	3.0	0			
24			14	42	1,460	41	9	3.0	0			
25			14	39	366	40	7.5	3.0	0			
26			14	39	228	40	6	3.0	0			
27			12	36	218	39	4.8	3.0	0			
28			12	36	172	38	3.7	3.0	0			
29			12	35		37	2.9	3.0	0			
30			19	35		36	2.6	3.0	0			
31			5,020	34		36		2.9				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	5,020	.2	204	12,600
January	7,220	34	364	22,400
February	1,460	24	164	9,100
March	141	36	61.3	3,770
April	35	2.6	16.7	993
May	7	2.1	4.01	247
June	9	0	2.38	142
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	7,220	0	68.0	49,300

Note:- No flow during months left blank.

Hopper Creek near Piru, Calif.

Location.- Water-stage recorder on south line of NW¼ sec. 25, T. 4 N., R. 19 W., at highway bridge 2 miles southwest of Piru.

Drainage area.- 23.0 square miles.

Records available.- October 1930 to September 1932, October 1933 to September 1934.

Remarks.- Records furnished by Ventura County Water Survey.

Discharge, in second-feet, 1933-34.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	713	1.1	3.5	0.3	0				
2			0	34	1.0	3.2	.3	0				
3			0	13	1.0	2.8	.3	0				
4			0	6.5	1.0	2.4	.2	.1				
5			0	4.6	.9	2.1	.1	.1				
6			0	3.7	.9	1.7	.1	.1				
7			0	2.7	.9	1.3	0	.1				
8			0	2.5	.8	1.2	0	.1				
9			0	2.3	.8	1.2	0	0				
10			0	2.2	.8	1.1	0	0				
11			0	1.9	.7	1.0	0	0				
12			2.5	1.7	.7	1.0	0	0				
13			124	1.6	.6	.9	0	0				
14			5.5	1.6	.6	.8	0	0				
15			2.0	1.6	.7	.7	0	0				
16			1.5	1.5	.9	.7	0	0				
17			1.3	1.5	1.0	.6	0	0				
18			1.1	1.5	1.1	.5	0	0				
19			1.0	1.4	1.3	.5	0	0				
20			.8	1.4	1.3	.4	0	0				
21			.6	1.4	.6	.4	0	0				
22			.4	1.4	2.7	.4	0	0				
23			.4	1.3	83	.4	0	0				
24			.4	1.3	102	.4	0	0				
25			.3	1.3	8	.4	0	0				
26			.3	1.3	4.9	.4	0	0				
27			.3	1.2	4.4	.4	0	0				
28			.3	1.2	3.9	.3	0	0				
29			.3	1.2		.3	0	0				
30			.6	1.1		.3	0	0				
31			565.0	1.1		.3		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	565	0	22.9	1,410
January	713	1.1	26.3	1,610
February	102	.6	8.13	451
March	3.5	.3	1.02	62.7
April	.3	0	.04	2.6
May	.1	0	.02	1.0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	713	0	4.89	3,540

Note.- No flow during months left blank.

Santa Paula Creek near Santa Paula, Calif.

Location.- Water-stage recorder 50 feet upstream from Santa Paula Water Works' diversion dam, near east boundary Ex Mission San Buenaventura grant, and about 3 miles north of Santa Paula, Ventura County. Altitude, about 650 feet.

Drainage area.- 39.8 square miles.

Records available.- October 1927 to September 1934. October 1927 to Feb. 20, 1931, station was 500 feet downstream and below diversion for city of Santa Paula water supply; also April 1912 to September 1913 about 2½ miles upstream.

Extremes.- Maximum discharge during year, about 10,000 second-feet Dec. 31 (gage height, 8.30 feet); minimum, 0.5 second-foot Oct. 4 (gage height, 1.04 feet). 1927-34: Maximum discharge, that of Dec. 31, 1933; minimum, 0.3 second-foot Aug. 25, 1933.

Remarks.- Record good except those for discharges greater than 2,000 second-feet, which are fair. About 264 acre-feet was diverted from stream above station. Daily discharge estimated Mar. 4-6, 26, Apr. 2, 3, 6-9, June 8, July 6-31. Results of discharge measurements furnished by Ventura County Water Survey.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	1.7	1.9	1,230	12	42	9	7	4.4	2.2	1.8	1.0
2	1.5	1.9	2.1	219	12	42	10	7	4.1	2.2	1.8	1.0
3	.8	2.4	2.1	99	12	40	10	7	4.4	1.8	1.8	1.8
4	.5	2.4	2.1	59	12	38	10	6.5	4.8	1.8	2.2	1.8
5	.8	2.4	2.1	48	12	34	8.5	6	17	2.2	2.2	.7
6	.8	2.1	1.5	34	12	30	8	6	7.5	1.8	1.5	1.0
7	1.0	2.1	1.1	29	12	26	8	5.5	5	1.7	1.5	1.2
8	1.3	1.9	1.3	27	12	21	8	5	4.6	1.6	1.5	1.5
9	1.7	1.3	1.3	26	12	20	8	4.8	4.4	2.0	1.2	2.2
10	1.3	1.5	1.7	24	12	19	7.5	4.4	4.4	1.5	1.1	2.2
11	1.0	1.3	2.6	23	12	18	7.5	4.4	4.4	1.4	1.0	2.2
12	1.2	1.2	4.0	21	12	18	7.5	4.0	4.1	1.4	1.2	1.0
13	1.7	1.2	78	19	12	18	7.5	5	4.1	1.4	1.2	1.8
14	1.9	1.3	24	19	12	17	7.5	5	4.1	1.4	1.0	1.8
15	2.1	1.1	13	18	12	16	7.5	5	3.8	1.6	1.0	1.5
16	1.7	1.2	8.5	16	12	15	7.5	5	3.8	1.6	.8	1.8
17	1.7	1.9	6.5	16	12	15	7.5	5	3.8	1.4	.6	1.8
18	1.1	1.7	5.5	15	12	14	7.5	5	3.8	1.6	.8	1.8
19	1.1	1.6	5.5	14	12	14	7.5	4.8	3.4	1.8	1.2	1.8
20	1.3	.9	4.2	12	13	14	8	4.8	3.4	1.8	1.8	1.5
21	1.7	1.2	4.2	12	12	14	8	4.4	3.1	1.9	1.8	1.1
22	1.7	1.1	4.2	12	14	14	7.5	4.1	2.8	2.0	1.2	1.2
23	1.9	.8	4.2	12	283	14	8	4.1	2.8	2.0	1.0	2.5
24	1.5	.9	3.6	14	204	18	7.5	4.1	3.1	2.1	.8	1.8
25	1.5	.9	3.6	14	87	20	7	4.1	3.1	2.1	1.1	1.2
26	1.0	.9	3.6	14	68	15	7	4.4	2.8	2.0	1.1	1.1
27	.9	1.2	3.6	14	56	15	7	4.4	2.8	2.0	1.5	1.2
28	1.2	1.3	3.6	14	50	12	7	4.4	1.8	2.0	1.8	2.2
29	1.5	1.3	3.6	15		10	7	4.1	1.5	2.0	1.2	1.8
30	2.6	1.5	9	14		10	7	4.1	2.2	1.9	1.2	1.0
31	3.4		1,160	14		9		4.1		1.9	1.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.4	0.5	1.46	89.9
November	24	.8	1.47	87.5
December	1,160	1.1	44.3	2,720
January	1,230	12	68.3	4,200
February	283	12	36.2	2,010
March	42	9	20.1	1,230
April	10	7	7.85	467
May	7	4.1	4.98	306
June	17	1.5	4.18	249
July	2.2	1.4	1.81	111
August	2.2	.6	1.33	81.5
September	2.5	.7	1.60	95.4
The year	1,230	.5	16.1	11,600

Matilija Creek at Matilija, Calif.

Location.- Water-stage recorder in NE¼ sec. 29, T. 5 N., R. 23 W., half a mile northwest of Matilija. Altitude, about 970 feet.

Drainage area.- 55 square miles.

Records available.- October 1927 to September 1934.

Extremes.- Maximum discharge during year, about 7,000 second-feet Dec. 31 (gage height, 7.20 feet); minimum, 1.4 second-feet Oct. 5 (gage height, 0.95 foot). 1927-34: Maximum discharge, that of Dec. 31, 1933; minimum, 0.4 second-foot Oct. 28, 1930.

Remarks.- Record good. Discharge estimated Dec. 16-19, May 20-24.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	3.0	2.7	1,000	20	34	13	8	5	4.7	2.3	2.6
2	1.9	2.8	2.7	241	19	30	13	8	5	4.7	2.3	2.6
3	1.8	2.7	3.0	101	18	28	13	8	5	4.4	2.3	2.6
4	1.6	2.7	3.0	71	18	26	13	8	5	4.4	2.3	2.6
5	1.4	2.7	2.8	53	18	26	13	7	8	4.4	2.3	2.3
6	1.8	2.8	2.8	47	17	26	13	7	7	4.4	2.0	2.3
7	2.1	2.8	2.8	47	16	25	13	6.5	5	4.1	2.0	2.3
8	2.3	2.8	2.7	41	15	25	12	6.5	5	3.8	2.0	2.3
9	2.5	2.8	2.7	37	14	25	12	6.5	5	3.5	2.0	2.3
10	4.9	2.8	2.8	34	14	24	12	6.5	5	3.5	2.0	2.3
11	8.5	3.0	3.0	32	13	24	12	6.5	5	3.2	2.0	2.3
12	6.5	3.4	9	33	13	24	12	6.5	5	3.2	2.0	2.3
13	5.5	3.4	149	32	13	24	11	6.5	5	3.2	2.0	2.3
14	5	3.4	20	30	13	24	11	6.5	5	3.2	2.0	2.3
15	4.6	3.4	12	28	20	22	11	6.5	5	2.9	2.0	2.3
16	3.9	3.4	*10	26	14	21	10	6.5	5	2.9	2.0	2.3
17	3.4	3.4	*8	25	13	20	10	6.5	5	2.9	2.0	2.3
18	3.2	3.4	*6	25	13	19	9	6.5	5	2.9	2.0	2.3
19	3.0	3.4	*5.5	25	14	18	9	6.5	5	2.9	2.0	2.3
20	3.0	3.2	5	25	14	17	9	*6	5	2.9	2.0	2.3
21	3.2	3.2	5	25	14	17	8.5	*6	5	3.2	2.0	2.3
22	3.2	3.0	5	25	14	17	8.5	*6	4.7	2.9	2.3	2.3
23	2.8	2.8	5	24	185	17	8.5	*6	4.7	2.9	2.3	2.3
24	2.8	2.7	4.9	24	100	21	8.5	*6	4.7	2.6	2.3	2.6
25	3.0	2.3	4.6	24	51	20	8.5	5.5	4.7	2.6	2.6	2.6
26	2.8	2.1	4.6	22	53	16	8	5.5	4.7	2.6	2.6	2.6
27	3.0	2.1	4.6	21	43	15	8	5.5	4.7	2.6	2.3	2.6
28	3.2	2.1	4.6	20	39	15	8	5.5	4.7	2.6	2.3	2.3
29	3.2	2.5	4.9	20		15	8	5.5	4.7	2.3	2.3	2.3
30	3.7	2.3	37	20		14	8	5	4.7	2.3	2.6	2.3
31	4.1		1,050	20		13		5		2.3	2.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	8.5	1.4	3.36	207
November	3.4	2.1	2.88	171
December	1,050	2.7	44.7	2,750
January	1,000	20	70.9	4,360
February	185	13	28.9	1,600
March	34	13	21.4	1,310
April	13	8	10.4	622
May	8	5	6.39	393
June	8	4.7	5.08	302
July	4.7	2.3	3.26	200
August	2.6	2.0	2.18	134
September	2.6	2.3	2.38	142
The year	1,050	1.4	16.8	12,200

*Estimated.

Ventura River near Ventura, Calif.

Location.- Water-stage recorder in southeast corner of Santa Ana grant, at highway bridge at entrance to Foster Memorial Park a quarter of a mile below Ventura diversion dam and mouth of Coyote Creek and 5 miles north of Ventura, Ventura County.

Drainage area.- 187 square miles.

Records available.- September 1911 to January 1914, October 1929 to September 1934.

Extremes.- Maximum discharge during year, 23,000 second-feet Dec. 31 (gage height, 14.8 feet); no flow for several months.
1929-34: Maximum discharge, that of Dec. 31, 1933; no flow for several months each year.

Remarks.- Records good. Daily discharge estimated Dec. 21-29, Jan. 1, 15-17, Apr. 11-26. Water diverted for irrigation and municipal use from Ventura River and tributaries above station. Results of many discharge measurements furnished by Ventura County Water Survey.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	4,900	28	54	19					
2			0	648	28	52	19					
3			0	238	28	48	17					
4			0	141	27	45	17					
5			0	110	28	43	15					
6			0	91	28	39	15					
7			0	79	26	39	9.5					
8			0	71	25	34	8.5					
9			0	67	24	32	8.5					
10			0	60	24	32	5.5					
11			0	56	24	32	4.4					
12			0	52	21	32	3.3					
13			239	48	20	32	3.2					
14			40	46	20	32	3.0					
15			22	44	28	31	2.9					
16			16	42	31	30	2.8					
17			12	41	26	28	2.6					
18			9.5	39	25	27	2.5					
19			8	37	26	26	2.4					
20			6.5	36	27	25	2.3					
21			4.5	34	22	21	2.2					
22			3.2	34	21	18	2.1					
23			3.2	34	614	16	2.0					
24			3	34	490	13	1.9					
25			3	34	103	30	1.8					
26			2.5	32	82	27	.5					
27			2.5	32	69	24	0					
28			2.5	31	58	18	0					
29			2.5	30		15	0					
30			23	30		20	0					
31			3,700	30		19						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	3,700	0	132	8,140
January	4,900	30	232	14,300
February	614	20	70.5	3,910
March	54	13	30.1	1,850
April	19	0	5.00	345
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	4,900	0	39.4	28,500

Note:- No flow during months left blank.

North Fork of Matilija Creek at Matilija, Calif.

Location.- Water-stage recorder in NE¼ sec. 29, T. 5 N., R. 23 W., at highway bridge half a mile above junction with Matilija Creek and half a mile north of Matilija.

Drainage area.- 15.5 square miles.

Records available.- October 1928 to September 1932. October 1933 to September 1934.

Remarks.- Records furnished by Ventura County Water Survey.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.5	0.6	312	2.8	7.5	2.5	1.3	1.0	0.9	0.4	0.6
2	.4	.5	.6	80	2.8	7	2.5	1.3	1.0	.8	.4	.6
3	.4	.5	.5	27	2.6	6.5	2.5	1.3	1.0	.8	.4	.6
4	.4	.5	.5	19	2.4	6.5	2.4	1.3	1.0	.8	.4	.6
5	.4	.5	.6	11	2.2	6	2.4	1.3	1.0	.8	.4	.6
6	.4	.5	.8	9	2.2	5.5	2.4	1.3	1.0	.8	.4	.7
7	.4	.5	1.0	10	2.2	5	2.3	1.3	1.0	.8	.4	.7
8	.4	.5	.8	8.5	2.2	5	2.3	1.3	1.0	.8	.4	.7
9	.4	.5	.8	8	2.4	4.8	2.2	1.2	1.0	.8	.4	.7
10	.4	.6	.6	7.5	2.2	4.3	2.2	1.2	1.0	.8	.5	.7
11	.4	.6	1.0	7	2.4	3.9	2.2	1.2	1.0	.8	.5	.7
12	.4	.5	2.9	6	2.4	3.5	2.1	1.2	.9	.8	.5	.7
13	.4	.6	11	5	2.6	3.0	2.1	1.2	.9	.8	.5	.6
14	.4	.6	2.1	4.0	2.8	2.6	2.0	1.2	.9	.8	.5	.6
15	.4	.6	1.7	5	2.8	2.6	2.0	1.2	.9	.7	.5	.6
16	.4	.6	1.6	5	2.8	2.7	2.0	1.2	.9	.7	.5	.6
17	.4	.6	1.5	4.8	2.8	2.7	1.9	1.2	.9	.7	.5	.5
18	.4	.6	1.4	4.0	2.8	2.7	1.9	1.1	.9	.7	.5	.5
19	.4	.6	1.3	3.6	2.8	2.8	1.8	1.1	.9	.7	.5	.5
20	.4	.6	1.2	2.8	2.8	2.8	1.8	1.1	.9	.6	.5	.4
21	.5	.6	1.1	2.8	2.8	2.8	1.7	1.1	.9	.6	.5	.4
22	.5	.6	1.0	2.8	2.8	2.8	1.7	1.1	.9	.6	.5	.4
23	.5	.6	.9	2.6	73	2.8	1.7	1.1	.9	.6	.6	.5
24	.5	.6	.9	2.8	48	3.2	1.6	1.1	.9	.6	.6	.5
25	.5	.6	.9	3.2	13	3.2	1.6	1.1	.9	.5	.6	.6
26	.5	.6	1.0	2.8	9.5	2.8	1.5	1.1	.9	.5	.6	.6
27	.5	.6	1.0	2.8	7.5	2.7	1.5	1.0	.9	.5	.6	.6
28	.5	.6	1.1	2.8	7.5	2.7	1.5	1.0	.9	.5	.6	.6
29	.5	.6	1.1	3.2		2.7	1.4	1.0	.9	.5	.6	.7
30	.5	.6	6.5	3.2		2.6	1.4	1.0	.9	.4	.6	.7
31	.5		393	3.2		2.6		1.0		.4	.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.5	0.4	0.44	26.8
November	.6	.5	.57	33.9
December	393	.5	14.2	875
January	312	2.6	18.5	1,130
February	73	2.2	7.68	427
March	7.5	2.6	3.82	235
April	2.5	1.4	1.97	117
May	1.3	1.0	1.16	71.6
June	1.0	.9	.94	55.7
July	.9	.4	.68	41.9
August	.6	.4	.50	30.7
September	.7	.4	.59	35.3
The year	393	.4	4.26	3,080

Coyote Creek near Ventura, Calif.

Location.- Water-stage recorder 200 feet below highway bridge near southeast corner of Santa Ana grant, half a mile above mouth, and 5½ miles northwest of Ventura, Ventura County.

Drainage area.- 41.1 square miles.

Records available.- October 1927 to September 1932; October 1933 to September 1934.

Extremes.- Maximum daily discharge during year, 1,220 second-feet Dec. 31; minimum, less than 0.1 second-foot for several periods.
1927-32, 1933-34: Maximum daily discharge, 1,463 second-feet Feb. 9, 1932; no flow Aug. 19 to Sept. 18, 1929.

Remarks.- Records fair. Discharge for period Oct. 1 to Apr. 4 furnished by Ventura County Water Survey.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0.1	741	3.4	9.5	1.8	0.8	0.1			
2			.1	145	3.3	9	1.6	.8	.1			
3			.1	63	3.1	8	1.4	.8	.1			
4			.1	29	3.0	7.5	1.2	.8	.2			
5			.1	22	2.9	7	1.1	.8	.3			
6			.1	18	2.8	6	1.0	.5	.3			
7			.1	15	2.7	5.5	.9	.4	.3			
8			.1	13	2.6	4.7	.9	.4	.3			
9			.1	11	2.5	4.6	1.0	.3	.3			
10			.1	10	2.3	4.5	1.0	.2	.3			
11			.1	9	2.2	4.4	1.0	.2	.2			
12			.1	8.5	2.1	4.4	1.0	.2	.2			
13			76	8	2.0	4.3	1.0	.2	.2			
14			12	8	2.0	4.2	1.1	.2	.2			
15			3.7	8	2.3	4.0	1.1	.1	.2			
16			2.7	7.5	2.6	3.9	1.0	.1	.2			
17			2.4	7	2.9	3.7	1.0	.2	.1			
18			2.1	6.5	3.2	3.5	.8	.2	.1			
19			1.8	6	3.5	3.4	.7	.2	*.1			
20			1.5	6	3.8	3.2	.8	.1	*.1			
21			1.2	5.5	3.0	3.1	.8	.2	*.1			
22			.9	4.9	3.8	3.0	1.0	.1	*.1			
23			.6	4.5	134	2.9	1.0	.1	*.1			
24			.6	4.0	76	2.8	1.0	.1	*.1			
25			.5	3.6	21	2.7	1.0	.1	*.1			
26			.5	3.6	18	2.6	.9	.1	*.1			
27			.4	3.6	15	2.5	.9	.1	.1			
28			.4	3.6	11	2.4	.9	.1	.1			
29			.3	3.5		2.3	.9	.1	.1			
30			14	3.5		2.1	.9	.1	*.1			
31			1,220	3.5		2.0		.1				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			*0.1	6.1
November			*.1	6.0
December	1,220	0.1	43.3	2,660
January	741	3.5	38.2	2,350
February	134	2.0	12.1	670
March	9.5	2.0	4.31	265
April	1.8	.7	1.02	60.9
May	.8	.1	.28	17.3
June	.3	.1	.16	9.7
July			*.075	4.6
August			*.05	3.1
September			*.04	2.4
The year	1,220		8.37	6,060

*Estimated.

Santa Ynez River at Juncal Reservoir, near Montecito, Calif.

Location.- Water-stage recorder in sec. 28, T. 5 N., R. 26 W., at Juncal Reservoir dam 8.5 miles northeast of Montecito.

Records available.- December 1930 to September 1934.

Remarks.- Montecito County Water District diverts at dam for municipal use in city of Montecito. Record furnished by city of Santa Barbara.

Discharge, in second-feet, 1933-34

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.2	0.1	0.13	7.7
November	.1	.1	.10	6.0
December	95	.1	5.05	311
January	625	1.7	24.7	1,520
February	75	1.3	5.30	294
March	4.5	1.8	2.33	143
April	1.9	.3	.89	53.0
May	1.6	.1	.68	41.8
June	2.0	.1	.73	43.2
July	.7	.1	.29	17.6
August	.2	.1	.14	8.3
September	.2	.1	.11	6.3
The year	625	.1	3.38	2,450

Note.- Discharge equals change in storage plus discharge to city, plus discharge to river, plus waste over spillway, plus evaporation, and minus precipitation.

Santa Ynez River near Santa Barbara, Calif.

Location.- About on line between secs. 10 and 11, T. 5 N., R. 27 W., at Gibraltar dam, 7 miles north of Santa Barbara.

Drainage area.- 219 square miles (revised).

Average discharge.- 20 years (1904-6, 1911-14, 1916-17, 1920-34), 47.5 second-feet.

Records available.- November 1903 to April 1907, October 1907 to January 1908, February 1910 to November 1918, April 1920 to September 1934.

Remarks.- Beginning April 1920 discharge at station compiled from reservoir records. City of Santa Barbara diverts at dam for municipal use. Records furnished by city of Santa Barbara.

Discharge, in second-feet, 1933-34

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	403	0	18.9	1,160
January	3,210	15	140	8,590
February	283	11	37.7	2,090
March	35	9	17.7	1,090
April	9	2	4.57	272
May	1.7	.6	.85	52.0
June	15	.1	1.32	78.5
July	.1	0	.01	.6
August	0	0	0	0
September	0	0	0	0
The year	3,210	0	18.4	13,330

Note.- Discharge equals change in storage, plus discharge to city, plus discharge to river, plus waste over spillway, plus evaporation, and minus precipitation.

Santa Ynez River below Gibraltar Dam, near Santa Barbara, Calif.

Location.- About on section line between secs. 10 and 11, T. 5 N., R. 27 W., below Gibraltar Dam, 7 miles north of Santa Barbara.

Records available.- April 1920 to September 1934.

Average discharge.- 13 years, 21.8 second-feet.

Remarks.- Regulated by storage in reservoir and diversion to city of Santa Barbara. Record furnished by city of Santa Barbara.

Discharge, in second-feet, 1933-34.

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.5	0.3	0.49	30.3
November	.5	.5	.50	29.8
December	.5	0	.24	14.5
January	2,110	11	107	6,560
February	295	8	36.4	2,020
March	36	2	14.5	889
April	1.0	0	.093	5.6
May	1.1	0	.68	41.9
June	1.2	.5	.88	52.2
July	.5	.5	.50	30.7
August	.5	.5	.50	30.7
September	.5	.5	.50	29.8
The year	2,110	0	13.4	9,730

Note.- Discharge equals waste over spillway plus release to river.

Santa Ynez River near Lompoc, Calif.

Location.- Water-stage recorder near east boundary of La Mision Vieja la Purisima grant, at highway bridge 1½ miles east of Lompoc, Santa Barbara County.

Drainage area.- 790 square miles.

Records available.- November 1906 to September 1918, April 1925 to September 1934. (Discharge not computed for 1909.)

Average discharge.- 18 years (1907-08, 1910-18, 1925-34), 229 second-feet.

Extremes.- Maximum discharge during year, 4,280 second-feet Jan. 1 (gage height, 15.9 feet); no flow at times.
1906-1918 and 1925-1934: Maximum discharge, 41,800 second-feet Jan. 25, 1914 (gage height, 13.0 feet); no flow for several months in 1929, 1930, 1931, 1934.

Remarks.- Records fair. Water diverted by city of Santa Barbara at Gibraltar Dam, and some irrigation water is pumped from wells along banks of river.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.3	.2	1,080	28	178	24	*2.5	0.3	*0.3		
2	.3	.3	.2	3,040	27	154	22	*2.4	.3	.3		
3	.3	.4	.2	1,190	25	134	21	*2.2	.3	*.2		
4	.4	.4	.3	610	23	116	20	2.1	.3	*.2		
5	.4	.4	.4	360	22	101	18	1.8	.4	*.2		
6	.3	.4	.4	195	23	88	16	1.8	.4	*.2		
7	.4	.4	.4	*150	22	76	16	1.8	.4	.1		
8	.4	.3	.4	*110	22	73	15	1.8	.4	.1		
9	.4	.2	.4	93	23	63	14	1.8	.4	.1		
10	.4	.1	.4	*84	22	59	12	1.8	.4	.1		
11	.4	.2	.4	*72	22	56	10	1.1	.4	.1		
12	.5	.3	.5	67	22	54	10	.6	.4	.1		
13	.5	.4	1.4	60	22	51	10	.6	.4	.1		
14	.5	.4	2.9	57	23	50	9	.6	.4	*.1		
15	.5	.4	1.5	52	34	49	9	.6	.3	*.1		
16	.5	.4	1.3	*45	37	45	9	.6	.4	.1		
17	.5	.3	1.1	*40	29	43	9	.6	.4	*.1		
18	.4	.3	.8	35	28	42	7	.6	.4	*.1		
19	.4	.3	.8	36	30	*40	7	.6	.3	*.1		
20	.4	.4	.8	37	35	*36	7	.6	.3	*.1		
21	.3	.4	.7	*37	30	*34	6	.5	.3	*.1		
22	.3	.4	.7	*36	29	*31	5	.5	.3	0		
23	.3	.4	.6	*35	68	28	4.6	.5	.3	0		
24	.3	.4	.6	*34	171	28	4.0	.4	.3	0		
25	.3	.3	.6	*33	536	28	3.4	.4	.3	0		
26	.3	.3	.7	32	366	27	3.4	.4	.3	0		
27	.3	.3	.7	*33	225	28	3.1	.4	.3	0		
28	.3	.3	.8	*34	201	27	2.9	.4	*.3	0		
29	.3	.2	.8	35		26	*2.8	.3	*.3	0		
30	.3	.3	.7	*33		27	*2.7	.3	*.3	0		
31	.3		46	*30		26		.3		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.5	0.3	0.37	23.0
November	.4	.1	.33	19.6
December	46	.2	2.16	134
January	3,040	30	251	15,440
February	536	22	76.6	4,250
March	178	26	58.6	3,610
April	24	2.7	10.1	601
May	2.5	.3	1.00	61.3
June	.4	.3	.34	20.4
July	.3	0	.09	5.8
August	0	0	0	0
September	0	0	0	0
The year	3,040	0	33.4	24,170

*Estimated.

Note:- No flow during months left blank.

Cuyama River near Santa Maria, Calif.

Location.- Water-stage recorder in Suey grant, at highway bridge 1½ miles above mouth of Alamos Creek and 10 miles northeast of Santa Maria, Santa Barbara County. Altitude, about 610 feet.

Drainage area.- 576 square miles.

Records available.- December 1929 to September 1934.

Extremes.- Maximum discharge during year, 382 second-feet Jan. 2 (gage height, 2.36 feet); no flow for several months.
1929-1934: Maximum discharge, 4,480 second-feet Feb. 9, 1932 (gage height, 4.72 feet); no flow for several months during most years.

Remarks.- Records good except those for estimated periods. Discharge estimated Oct. 5-10, Oct. 17 to Nov. 17, Nov. 28 to Dec. 11, Dec. 15-20, Jan. 7, 8, Mar. 2-8, 14-27, Apr. 12 to June 30. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.2	72	9	10	5.5	0.8				
2	.2	.2	.3	195	9	9	5.5	.7				
3	.2	.2	1.0	72	9	9	4.9	.7				
4	.2	.2	1.0	36	9	8	4.8	.6				
5	.2	.2	.9	26	9	8	4.4	.5				
6	.2	.2	.9	19	9	8	4.0	.5				
7	.2	.2	.8	17	9	8	3.7	.4				
8	.2	.2	.8	14	8.5	8	3.4	.4				
9	.2	.2	.7	12	8.5	7.5	3.0	.3				
10	.3	.2	.7	12	8.5	7.5	2.9	.3				
11	.3	.2	.7	12	8.5	7	2.4	.3				
12	.3	.2	2.9	12	8	7	2.4	.3				
13	.3	.2	21	11	8	7	2.3	.3				
14	.3	.3	19	11	8	7	2.1	.2				
15	.3	.3	12	10	11	7	2.0	.2				
16	.2	.3	10	10	11	7	1.9	.2				
17	.2	.3	8	9.5	10	7	1.9	.2				
18	.2	.3	8	9.5	9.5	7	1.8	.2				
19	.2	.3	8	9	10	7	1.7	.2				
20	.2	.3	7	9	12	7	1.6	.2				
21	.2	.3	7	9	10	7	1.6	.2				
22	.2	.3	7	9	10	7	1.5	.2				
23	.2	.3	6.5	9	14	7	1.4	.1				
24	.2	.2	6.5	9	16	7	1.3	.1				
25	.2	.2	6.5	9	18	7	1.2	.1				
26	.2	.2	6.5	9	42	7	1.2	.1				
27	.2	.2	6.5	9	25	7.5	1.1	.1				
28	.2	.2	7	9	15	7.5	1.0	.1				
29	.2	.2	7.5	9		7	.9	.1				
30	.2	.2	8.5	9		6.5	.9	.1				
31	.2		13	9		6		.1				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.3	0.2	0.22	13.5
November	.3	.2	.23	13.9
December	21	.2	6.01	370
January	195	9	21.8	1,340
February	42	8	11.9	663
March	10	6	7.40	455
April	5.5	.6	2.48	147
May	.8	.1	.28	17.5
June			.05	3.0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	195	0	4.18	3,020

Note:- No flow during months left blank.

Huasna River near Santa Maria, Calif.

Location.- Water-stage recorder in Suey grant, half a mile above junction with Cuyama River and 8 miles northeast of Santa Maria.

Drainage area.- 119 square miles.

Records available.- December 1929 to September 1934.

Extremes.- Maximum discharge during year, 37 second-feet Dec. 31 (gage height, 2.70 feet); no flow at times.
1929-34: Maximum discharge, 4,000 second-feet Dec. 28, 1931; no flow for part of several years.

Remarks.- Records good. Discharge estimated Oct. 1 and Oct. 5 to Nov. 17. No diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	1.4	1.3	16	1.5	2.1	0.7	0.1				
2	.1	1.2	1.5	4.4	1.5	1.8	.7	.1				
3	.1	1.0	1.9	3.0	1.5	1.7	.7	0				
4	.1	.9	1.7	2.4	1.4	1.6	.7	0				
5	.1	.9	1.6	2.3	1.4	1.6	.7	0				
6	.1	.8	1.5	2.1	1.8	1.6	.6	0				
7	.1	.8	1.5	2.1	1.4	1.6	.7	0				
8	.1	.8	1.5	2.1	1.3	1.6	.7	0				
9	.1	.7	1.5	2.1	1.0	1.6	.6	0				
10	.1	.7	1.6	2.1	1.0	1.7	.6	0				
11	.1	.7	1.7	2.0	1.0	1.8	.6	0				
12	.1	.7	3.9	1.9	1.1	1.8	.6	0				
13	.1	.8	9	1.8	1.1	1.9	.6	0				
14	.1	.8	4.6	1.8	1.1	1.9	.6	0				
15	.1	.8	3.1	1.7	1.9	1.9	.6	0				
16	.1	.7	2.4	1.6	1.6	1.9	.6	0				
17	.1	.7	1.9	1.7	1.5	1.9	.6	0				
18	.1	.7	1.8	1.6	1.4	1.9	.6	0				
19	.1	.8	1.7	1.6	2.3	2.1	.5	0				
20	.1	.8	1.7	1.5	3.3	1.9	.5	0				
21	.1	.9	1.6	1.5	1.9	1.6	.5	0				
22	.1	.9	1.6	1.5	1.7	1.8	.5	0				
23	.1	.9	1.6	1.5	2.1	2.0	.6	0				
24	.1	1.0	1.6	1.5	3.0	1.9	.6	0				
25	.1	1.0	1.6	1.5	2.0	1.9	.5	0				
26	.1	1.0	1.6	1.5	7	1.4	.4	0				
27	.1	1.2	1.6	1.5	4.4	1.2	.3	0				
28	.1	1.3	1.6	1.5	2.6	1.2	.3	0				
29	.2	1.3	1.8	1.6		1.1	.1	0				
30	1.0	1.2	2.6	1.6		1.0	.1	0				
31	1.5		6	1.6		.9		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.5	0.1	0.18	10.9
November	1.4	.7	.91	54.3
December	9	1.3	2.28	140
January	16	1.5	2.34	144
February	7	1.0	1.96	109
March	2.1	.9	1.68	103
April	.8	.1	.55	32.9
May	.1	0	.006	4.0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	16	0	.82	596

Note:- No flow during months left blank.

Salinas River near Santa Margarita, Calif.

Location.- Water-stage recorder in N½ sec. 15, T. 29 S., R. 13 E., 250 feet below Calf Canyon highway bridge, 250 feet above Morano Creek, and 2½ miles northeast of Santa Margarita. Altitude, about 960 feet.

Drainage area.- 150 square miles.

Records available.- April to September 1922; February 1932 to September 1934.

Extremes.- Maximum discharge during year, 730 second-feet Jan. 1 (gage height, 5.45 feet); no flow for several months.
1932-34: Maximum discharge recorded, 3,580 second-feet Jan. 19, 1933 (gage height, 8.58 feet); no flow several months each year.

Remarks.- Records good. No diversions above station. Discharge estimated Apr. 12 to May 15.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	510	6	66	5	1.5				
2			0	176	6	51	5	1.4				
3			0	52	6	38	5	1.3				
4			0	25	6	29	5	1.2				
5			0	16	6.5	24	5	1.1				
6			0	13	14	22	4.4	1.0				
7			0	10	5.5	20	3.9	.9				
8			0	7.5	4.4	16	3.6	.8				
9			0	7.5	4.4	18	3.2	.7				
10			0	7.5	4.4	16	2.7	.6				
11			0	7.5	4.4	16	2.7	.5				
12			0	7.5	4.4	12	2.6	.4				
13			47	7.5	4.4	13	2.6	.3				
14			10	7.5	4.4	10	2.5	.2				
15			6	7.5	14	6.5	2.5	.1				
16			1.8	7.5	5.5	5.5	2.5	0				
17			1.0	7.5	4.4	4.4	2.4	0				
18			.8	7.5	4.4	4.4	2.4	0				
19			.8	6.5	7.5	4.4	2.3	0				
20			.8	7.5	25	4.4	2.3	0				
21			1.0	8.5	6.5	5	2.2	0				
22			1.0	7.5	6.5	4.4	2.2	0				
23			1.1	6.5	54	5.5	2.1	0				
24			1.2	6.5	70	10	2.1	0				
25			1.2	6	41	7.5	2.0	0				
26			1.4	6	217	6	2.0	0				
27			1.4	6	170	5.5	1.9	0				
28			1.4	6	93	5	1.8	0				
29			1.8	6		4.4	1.7	0				
30			3.6	6		5	1.6	0				
31			20	6		5		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	47	0	3.33	205
January	510	6	31.3	1,920
February	217	4.4	28.6	1,590
March	66	4.4	14.3	879
April	5	1.6	2.91	173
May	1.5	0	.39	23.8
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	510	0	6.62	4,790

Note:- No flow during months left blank.

Salinas River near Spreckels, Calif.

Location.- Water-stage recorder in El Toro grant, at bridge on Salinas-Monterey highway 2 miles west of Spreckels and 4 miles south of Salinas, Monterey County. Altitude, about 50 feet.

Drainage area.- 4,180 square miles.

Records available.- January 1900 to August 1901, December 1929 to September 1934.

Extremes.- Maximum discharge during year, 8,060 second-feet Jan. 2 (gage height, 13.50 feet); no flow at times.

1929-34: Maximum discharge, 42,100 second-feet Dec. 29, 1931 (gage height, 20.4 feet); no flow at times each year. A previous high-water mark of 26.6 feet is indicated at oil pumping station opposite gage house; date and discharge unknown.

Remarks.- Records good. Small diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.7	4.7	11	72	12	2,480	17	1.0	0.5			
2	4.7	4.7	11	5,750	11	1,690	13	1.0	.5			
3	4.2	4.7	12	5,040	11	1,300	11	1.7	.4			
4	3.8	4.7	13	2,960	10	1,040	9	1.7	.5			
5	2.5	4.7	14	1,750	9	865	8	1.6	1.1			
6	2.5	4.7	15	1,100	9	751	7.5	1.6	1.2			
7	2.0	5	16	732	9	637	7	1.4	1.0			
8	2.0	6	16	485	9	550	6	1.2	.8			
9	2.0	6.5	16	346	9	475	5.5	1.1	.6			
10	2.0	7	16	252	8	407	5.5	.8	.6			
11	2.0	7	17	193	7.5	352	5	.8	.0			
12	1.2	6.5	17	144	7.5	314	4.6	.6	.5			
13	1.2	6.5	19	111	7.5	279	4.4	.6	1.0			
14	1.2	6.5	19	85	7.5	252	4.4	.4	1.1			
15	1.6	6.5	19	64	7.5	227	4.0	.3	1.1			
16	1.6	7	18	49	7.5	206	3.6	.3	1.1			
17	1.6	0	17	36	6	188	3.2	.3	1.0			
18	1.6	5.5	17	27	5.5	167	3.0	.3	.8			
19	2.0	9.5	17	22	6	153	2.8	.3	.6			
20	2.0	9.5	16	18	6	138	2.6	.3	.5			
21	2.0	9.5	16	17	6.5	124	2.4	.3	.5			
22	2.0	9.5	16	15	241	109	2.4	.3	.4			
23	2.0	9.5	16	15	618	94	2.4	.3	.4			
24	2.0	9.5	16	14	675	84	2.2	.4	.3			
25	2.0	8.5	16	13	2,170	74	2.0	.8	.2			
26	2.0	8.5	16	13	2,410	64	2.0	1.0	.2			
27	2.5	8.5	16	13	2,340	56	2.0	.8	.1			
28	2.5	9.5	16	13	2,340	46	1.8	.5	.1			
29	3.3	10	16	12		37	1.8	.6	0			
30	3.0	11	19	12		29	1.8	.5	0			
31	4.2		19	12		23		.5				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4.7	1.2	2.41	148
November	11	4.7	7.41	441
December	19	11	16.1	990
January	5,750	12	625	38,400
February	2,410	5.5	392	21,800
March	2,480	23	426	26,200
April	17	1.8	4.93	293
May	1.8	.3	.61	50.0
June	1.2	0	.61	36.1
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	5,750	0	122	88,400

Note:- No flow during months left blank.

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San Antonio River at Pleyto, Calif.

Location.- Water-stage recorder in Pleyto grant, at highway bridge at old town site of Pleyto, Monterey County, 15 miles West of Bradley. Altitude, about 720 feet.

Drainage area.- 282 square miles.

Records available.- April to September 1922, December 1929 to September 1934.

Extremes.- Maximum discharge during year, 3,120 second-feet Jan. 1 (gage height, 3.56 feet); no flow several months.
1930-34: Maximum discharge, 7,460 second-feet Dec. 28. 1931 (gage height, 4.55 feet); no flow several months each year.

Remarks.- Records good. Discharge estimated Dec. 13, Feb. 16, Apr. 11 to May 8. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	2,010	46	250	33	4.8				
2			0	1,170	46	200	30	4.5				
3			0	570	46	168	29	4.2				
4			0	372	45	146	28	3.8				
5			0	272	45	130	27	3.5				
6			0	215	45	115	26	3.2				
7			0	173	45	106	25	2.8				
8			0	143	45	98	24	2.4				
9			0	127	45	92	21	2.2				
10			0	120	43	87	19	2.0				
11			0	111	42	83	18	1.8				
12			0	102	41	80	17	1.5				
13			350	96	39	75	16	1.2				
14			165	89	37	72	15	.8				
15			95	83	37	67	14	.6				
16			104	75	70	64	13	.4				
17			76	70	102	60	12	.2				
18			59	67	80	56	11	.1				
19			44	67	60	53	10	0				
20			36	67	291	51	10	0				
21			32	64	178	48	9.5	0				
22			28	61	130	46	9	0				
23			27	59	178	42	8.5	0				
24			26	56	294	41	8	0				
25			24	54	230	41	7.5	0				
26			24	52	435	40	7	0				
27			24	48	507	39	6.5	0				
28			21	47	335	39	6	0				
29			21	47		37	5.5	0				
30			641	47		36	5	0				
31			608	46		34		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	641	0	77.6	4,770
January	2,010	46	212	13,000
February	507	37	127	7,050
March	250	34	80.5	4,950
April	33	5	15.7	934
May	4.8	0	1.29	79.3
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	2,010	0	42.6	30,800

Note:- No flow during months left blank.

Arroyo Seco near Soledad, Calif.

Location.- Water-stage recorder in sec. 21, T. 19 S., R. 6 E., half a mile downstream from Vaquero Creek and 11 miles south of Soledad. Altitude, about 370 feet.

Drainage area.- 238 square miles (revised).

Records available.- January 1901 to September 1934.

Average discharge.- 33 years, 167 second-feet.

Extremes.- Maximum discharge during year, 5,820 second-feet Jan. 1 (gage height, 11.01 feet); no flow Oct. 1 to Nov. 8 and Aug. 23 to Sept. 30.
1901-34: Maximum discharge, about 22,000 second-feet Feb. 21, 1917, and Nov. 27, 1926 (gage height, 16.5 feet); no flow during periods in 1902-4, 1906, 1913, 1914, 1919, 1921, 1924, 1926, 1931-34.

Remarks.- Records good. No large diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	4.0	4,220	71	545	80	40	20	5.5	0.2	
2		0	4.5	1,780	70	464	79	40	10	5	.2	
3		0	5	900	68	402	75	39	17	3.8	.7	
4		0	13	565	68	356	73	37	10	3.8	.8	
5		0	16	432	71	318	71	34	24	3.3	.8	
6		0	13	350	88	288	68	34	50	3.3	.8	
7		0	11	291	86	263	64	31	39	3.3	.8	
8		0	10	255	84	239	63	30	31	2.8	.8	
9		.9	9.5	227	84	224	61	29	25	2.8	1.0	
10		1.1	9	205	80	208	61	29	23	2.8	1.0	
11		1.3	8.5	187	82	196	60	26	22	2.4	.8	
12		1.4	584	172	84	185	58	25	20	2.4	.8	
13		1.5	1,780	159	71	176	56	23	19	2.4	.8	
14		1.7	556	148	71	167	55	22	18	2.4	.7	
15		1.9	436	140	178	159	52	22	18	2.0	.7	
16		2.0	351	134	353	150	53	20	17	1.7	.7	
17		2.1	231	129	244	144	53	22	14	1.5	.6	
18		2.3	100	125	205	136	50	19	13	1.5	.4	
19		2.5	149	117	570	129	49	17	13	2.0	.3	
20		3.0	126	107	605	125	47	18	12	2.0	.3	
21		3.0	111	103	389	119	46	18	11	2.0	.2	
22		3.0	99	99	340	117	46	16	11	1.5	.2	
23		3.2	92	95	628	113	60	16	10	1.7	0	
24		3.2	85	94	900	115	55	17	9	1.7	0	
25		3.5	80	90	585	107	50	19	8.5	2.0	0	
26		3.8	72	86	1,470	101	47	23	7.5	1.7	0	
27		4.0	68	82	930	97	44	28	7.5	1.7	0	
28		4.0	63	80	695	94	42	28	8.5	1.7	0	
29		4.0	569	77		90	40	29	6.5	1.5	0	
30		4.0	2,020	75		86	42	28	5.5	.7	0	
31			1,310	71		84		23		.4	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	4.0	0	1.91	114
December	2,020	4.0	292	18,000
January	4,220	71	374	23,000
February	1,470	68	320	18,200
March	545	84	193	11,900
April	80	40	56.7	3,370
May	40	16	25.9	1,590
June	50	5.5	17.2	1,020
July	5.5	.4	2.36	145
August	1.0	0	.44	27.0
September	0	0	0	0
The year	4,220	0	107	77,400

Note:- No flow during months left blank.

Uvas Creek near Morgan Hill, Calif.

Location.- Water-stage recorder in Las Uvas grant, 500 feet above Uvas Dam and 4¾ miles southwest of Morgan Hill, Santa Clara County. Altitude, about 390 feet.

Drainage area.- 30.2 square miles.

Records available.- December 1930 to September 1934.

Extremes.- Maximum discharge during year, 970 second-feet Dec. 12 (gage height, 5.70 feet); no flow at times.
1930-34: Maximum discharge, 4,340 second-feet Dec. 27, 1931 (gage height, 10.82 feet); no flow at times each year.

Remarks.- Records good. Discharge estimated Apr. 22-23, May 1-7, June 28 to Aug. 15. No regulation or large diversions above station. Water diverted at Uvas Dam, 500 feet below gage, for Gilroy water supply.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	2.5	2.1	421	9	73	10	3.7	2.2	0.9	0.1	
2	0	1.6	2.4	152	9	61	9.5	3.5	2.1	.9	.1	
3	0	1.5	8	86	9	52	9	3.3	2.1	.9	.1	
4	0	1.2	5	61	8.5	44	8.5	3.1	2.4	.9	.1	
5	0	1.1	3.2	46	9	40	8.5	2.9	5.5	.8	.1	
6	0	1.1	2.8	38	12	36	8	2.7	6	.8	.1	
7	0	1.1	2.6	32	10	33	7.5	2.5	4.4	.8	.1	
8	0	1.1	2.5	28	14	30	7	2.5	3.1	.7	.1	
9	0	1.1	2.5	26	12	29	6.5	2.5	2.6	.7	.1	
10	0	1.1	2.4	24	10	26	6.5	2.4	2.4	.7	.1	
11	0	1.2	2.4	21	9.5	24	6.5	2.1	2.1	.7	.1	
12	0	1.2	157	20	9	23	6	1.8	2.1	.6	.1	
13	0	1.2	255	19	8.5	21	5.5	1.8	2.5	.6	.1	
14	0	1.2	88	18	8.5	20	5.5	1.9	2.4	.6	.1	
15	0	1.2	104	17	19	19	5.5	1.9	2.2	.5	.1	
16	0	1.2	52	17	58	19	6	2.1	1.9	.5	0	
17	0	1.2	29	16	27	18	5.5	2.1	1.9	.5	0	
18	0	1.2	21	15	21	17	5.5	1.9	1.8	.5	0	
19	0	1.2	17	14	122	17	5	1.8	1.7	.4	0	
20	0	1.3	15	14	67	16	4.6	1.8	1.8	.4	0	
21	0	1.4	13	14	45	16	4.4	1.6	1.7	.4	0	
22	0	1.4	12	13	47	15	6	1.6	1.6	.3	0	
23	0	1.4	10	12	197	14	7	1.8	1.4	.3	0	
24	0	1.4	9.5	12	160	14	5.5	1.9	1.3	.3	0	
25	0	1.4	9	12	101	14	5	3.9	1.4	.3	0	
26	0	1.5	8.5	11	205	13	4.9	6	1.6	.2	0	
27	0	1.5	7.5	11	119	12	4.6	3.1	1.5	.2	0	
28	0	1.6	7	10	92	12	4.1	2.9	1.0	.2	0	
29	0.1	1.8	114	10		12	3.9	2.6	1.0	.2	0	
30	11	1.8	208	9.5		11	3.9	2.5	1.0	.1	0	
31	6		119	9.5		10		2.4		.1	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	11	0	0.55	33.9
November	2.5	1.1	1.36	80.9
December	255	2.1	41.7	2,560
January	421	9.5	39.1	2,400
February	205	8.5	50.6	2,810
March	73	10	24.5	1,510
April	10	3.9	6.19	368
May	6	1.6	2.53	156
June	6	1.0	2.22	132
July	.9	.1	.52	31.7
August	.1	0	.05	3.0
September	0	0	0	0
The year	421	0	13.9	10,100

Note:- No flow in September.

San Francisquito Creek at Stanford University, Calif.

Location.- Water-stage recorder in Rinconada del Arroyo de San Francisquito grant, Santa Clara County, at Stanford University golf course, three-quarters of a mile below junction with Los Trancos Creek. Altitude, about 120 feet.

Drainage area.- 37.7 square miles.

Records available.- January 1931 to September 1934.

Extremes.- Maximum discharge during year, 670 second-feet Feb. 26 (gage height, 4.03 feet); no flow several months.
1931-34: Maximum discharge, 1,160 second-feet Dec. 27, 1931 (gage height, 5.20 feet); no flow several months each year.

Remarks.- Records good. Discharge estimated Dec. 25, May 15-31. Storage at Searsville Lake. See records for Los Trancos Canal and Lagunita Canal, which divert water above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	24	0.2	0.5	0.2	0.1				
2			0	3.2	.2	.3	.2	.1				
3			0	.3	.2	.3	.2	.1				
4			0	.2	.2	.3	.2	.1				
5			0	.2	.2	.3	.2	.1				
6			0	.2	.2	.3	.2	.1				
7			0	.2	.2	.2	.2	.1				
8			0	.2	.2	.2	.2	.1				
9			0	.2	.2	.2	.2	.1				
10			0	.2	.2	.2	.1	.1				
11			0	.2	.2	.2	.1	.1				
12			0	.2	.2	.2	.1	.1				
13			0	.2	.2	.2	.1	.1				
14			0	.2	.2	.2	.1	.1				
15			0	.2	.2	.2	.1					
16			0	.2	.2	.2	.1					
17			0	.2	.2	.2	.1					
18			0	.2	.2	.2	.1					
19			0	.2	8	.2	.1					
20			0	.2	.7	.2	.1					
21			0	.2	.3	.2	.1					
22			0	.2	.3	.2	.1	.1				
23			0	.2	1.2	.2	.1					
24			0	.2	1.2	.2	.1					
25			.1	.2	.3	.2	.1					
26			.1	.2	145	.2	.1					
27			.1	.2	3.1	.2	.1					
28			.1	.2	3.6	.2	.1					
29			.2	.2		.2	.1					
30			.3	.2		.2	.1					
31			.4	.2		.2						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	.4	0	.04	2.6
January	24	.2	1.07	65.8
February	145	.2	5.98	332
March	.5	.2	.23	13.9
April	.2	.1	.13	7.7
May			.10	6.1
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	145	0	0.59	428

Note.- No flow during months left blank.

San Francisquito Creek at Palo Alto, Calif.

Location.- Water-stage recorder in Rancho de las Pulgas grant, San Mateo County, 175 feet above Newell Avenue Bridge, Palo Alto, and about 2 miles above mouth. Altitude, about 5 feet.

Drainage area.- 38.6 square miles.

Records available.- January 1931 to September 1934.

Extremes.- Maximum discharge during year, 582 second-feet Feb. 26 (gage height, 6.91 feet); no flow several months.
1931-34: Maximum discharge, 1,170 second-feet Dec. 27, 1931 (gage height, 10.07 feet); no flow several months each year.

Remarks.- Records good. Storage at Searsville Lake. See records for Los Trancos Canal and Lagunita Canal, which divert water above station.

Discharge, in second-feet, 1933-34

Dec. 14	0.2	Feb. 20	0.5	Mar. 1	0.7
Jan. 1	9.5	Feb. 26	128		
Jan. 2	5.5	Feb. 27	4.5		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	.2	0	.01	.4
January	9.5	0	.48	29.8
February	128	0	4.75	264
March	.7	0	.02	1.4
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	128	0	.41	296

Note.- No flow during year except for days given above.

Los Trancos Creek at Stanford University, Calif.

Location.- Water-stage recorder in El Corte de Madera grant, about 800 feet above mouth and 1.6 miles southwest of Stanford University post office, Santa Clara County. Altitude, about 160 feet.

Drainage area.- 7.5 square miles.

Records available.- January 1931 to September 1934.

Extremes.- Maximum discharge during year, 119 second-feet Feb. 26 (gage height, 1.99 feet); no flow several months.
1931-34: Maximum discharge, 277 second-feet Feb. 8, 1932 (gage height, 2.93 feet); no flow several months each year.

Remarks.- Records good. See record for Los Trancos Canal, which diverts water above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	1.6	0	0.2		0				
2			0	.3	0	.1		0				
3			.1	.1	0	.1		0				
4			0	.1	0	0		0				
5			0	0	0	0		0				
6			0	0	0	0		0				
7			0	0	0	0		0				
8			0	0	0	0		0				
9			0	0	0	0		0				
10			0	0	0	0		0				
11			0	0	0	0		0				
12			.1	0	0	0		0				
13			.4	0	0	0		0				
14			.1	0	0	0		.1				
15			.1	0	.1	0		0				
16			0	0	.1	0		0				
17			0	0	.1	0		0				
18			0	0	.1	0		0				
19			0	0	.4	0		0				
20			0	0	.2	0		0				
21			0	0	.1	0		0				
22			0	0	.2	0		0				
23			0	0	.2	0		0				
24			0	0	.1	0		0				
25			0	0	.5	0		0				
26			0	0	13	0		0				
27			0	0	.5	0		0				
28			0	0	.3	0		0				
29			.1	0		0		0				
30			.3	0		0		0				
31			.1	0		0		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	.4	0	.04	2.6
January	1.6	0	.07	4.2
February	13	0	.57	31.5
March	.2	0	.01	.8
April	0	0	0	0
May	.1	0	.003	.2
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	13	0	.054	39.3

Note.- No flow during months left blank.

Los Trancos Canal near Stanford University, Calif.

Location.- Water-stage recorder in El Corte de Madera grant, half a mile below intake and 3 miles southwest of Stanford University post office, Santa Clara County. Altitude, about 360 feet.

Records available.- October 1931 to September 1934.

Extremes.- Maximum mean daily discharge during year, 25 second-feet Jan. 1; no flow at times.

1931-34: Maximum mean daily discharge, 33 second-feet Dec. 24, 27, 1931; no flow at times each year.

Remarks.- Records good except those for Dec. 5-19, Dec. 29 to Jan. 1, which were estimated. Canal diverts water from Los Trancos Creek 2 miles above mouth and conveys it to Felt Lake, an irrigation reservoir on Stanford University campus.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.2	0.1	25	0.3	3.1	0.5	0.1	0			
2	0	.1	.1	7	.3	2.5	.4	.1	0			
3	0	.1	.2	2.9	.2	2.2	.3	.1	0			
4	0	.1	.2	1.9	.3	1.9	.3	.1	.1			
5	0	.1		1.9	.3	1.9	.3	0	.1			
6	0	.1		1.3	.3	1.5	.4	0	.1			
7	0	.1		1.0	.3	1.4	.3	.1	0			
8	0	.1		.8	.4	1.2	.3	0	0			
9	0	.1		.8	.4	1.2	.3	0	0			
10	0	.1		.7	.3	1.1	.3	0	0			
11	0	.1		.6	.3	1.1	.2	0	0			
12	0	.1	1.6	.6	.3	1.0	.2	.1	0			
13	0	.1		.6	.3	.9	.2	.1	0			
14	0	.1		.5	.2	.8	.2	.1	0			
15	0	.1		.5	1.9	.8	.2	0	0			
16	0	.1		.4	1.5	.8	.2	0	0			
17	0	.1		.4	.9	.8	.2	0	0			
18	0	.1		.4	.8	.8	.2	0	0			
19	0	.1		.4	8.5	.7	.2	0	0			
20	0	.1	0	.4	3.1	.6	.2	0	0			
21	0	.1	.1	.4	1.9	.6	.2	0	0			
22	0	.1	.2	.4	2.4	.6	.1	0	0			
23	0	.1	.1	.4	4.1	.6	.1	0	0			
24	0	.1	.1	.3	3.1	.6	.1	0	0			
25	0	.1	.1	.4	4.7	.6	.1	0	0			
26	0	.1	.1	.4	24	.5	.1	0	0			
27	0	.1	.1	.3	6.5	.5	.1	.1	0			
28	0	.1	.1	.4	3.9	.5	.1	0	0			
29	0	.1	5	.4		.5	.1	0	0			
30	1.6	.1	10	.3		.5	.2	0	0			
31	1.8		5	.3		.5		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.8	0	0.11	6.8
November	.2	.1	.10	6.1
December	10	0	1.47	90.4
January	25	.3	1.67	103
February	24	.2	2.55	142
March	3.1	.5	1.04	64.0
April	.5	.1	.22	13.3
May	.1	0	.03	1.8
June	.1	0	.01	6
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	25	0	0.59	428

Note.- No flow during months left blank.

Lagunita Canal at Stanford University, Calif.

Location.- Water-stage recorder in Rinconada del Arroyo de San Francisquito grant, 500 feet below intake, at Stanford University, Santa Clara County. Altitude, about 150 feet.

Records available.- January 1931 to September 1934.

Extremes.- Maximum mean daily discharge during year, 19 second-feet Feb. 26; no flow several months.
1931-34: Maximum mean daily discharge, 21 second-feet Dec. 27, 31, 1931, Jan. 2, 1932; no flow several months each year.

Remarks.- Records fair. Discharge estimated Mar. 22, Mar. 27 to Apr. 1. Canal diverts water from San Francisquito Creek below junction with Los Trancos Creek to supply the Lagunita, an irrigation reservoir on Stanford University campus.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	12	0.2	10	0.2	0.2				
2			0	12	.2	6	.2	.2				
3			.6	2.4	.2	6	.2	.2				
4			.2	.9	.2	8	.2	.2				
5			0	.6	.3	6.5	.2	.2				
6			0	.4	.3	3.1	.2	.2				
7			0	.3	.3	1.2	.2	.2				
8			.1	.2	.3	.6	.2	.2				
9			.1	.2	.3	.2	.2	.2				
10			.1	.2	.3	.1	.2	.2				
11			.2	.2	.3	.9	.2	0				
12			.4	.3	.2	1.3	.2	0				
13			.9	.2	.2	1.8	.2	0				
14			.3	.2	.2	2.4	.2	0				
15			.2	.2	.2	1.7	.2	0				
16			.2	.3	.2	.6	.1	0				
17			.2	.3	.3	.1	.2	0				
18			.2	.3	.3	.3	.2	0				
19			.2	.3	10	.2	.2	0				
20			.2	.3	8	.2	.4	0				
21			.2	.3	1.6	.1	.2	0				
22			.2	.3	1.8	.2	.2	0				
23			.2	.4	6	.4	.2	0				
24			.2	.4	11	.4	.2	0				
25			.2	.4	3.6	.2	.2	0				
26			.2	.2	19	.4	.2	0				
27			.2	.2	15	.3	.2	0				
28			.2	.2	13	.3	.2	0				
29			.4	.2		.2	.2	0				
30			4.5	.2		.2	.2	0				
31			4.9	.2		.2		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	4.9	0	.50	30.7
January	12	.2	1.12	68.9
February	19	.2	3.34	185
March	10	.1	1.75	108
April	.4	.1	.20	12.1
May	.2	0	.06	4.0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	19	0	.56	409

Note.- No flow during months left blank.

Stevens Creek near Cupertino, Calif.

Location.- Water-stage recorder in SW¼ sec. 22, T. 7 S., R. 2 W., at county highway bridge about 4 miles west of Cupertino. Altitude, about 385 feet.

Drainage area.- 18.1 square miles.

Records available.- January 1930 to September 1934.

Extremes.- Maximum discharge during year, 389 second-feet Jan. 1 (gage height, 3.63 feet); no flow several months.
1930-34: Maximum discharge, 709 second-feet Dec. 27, 1931 (gage height, 4.57 feet); no flow several months each year.

Remarks.- Records good. Discharge estimated Dec. 18-28, Aug. 4-10. Small diversions at times above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	216	3.4	22	3.5	1.4	0.8	0.4	0.1	
2			0	63	3.4	20	3.9	1.4	.7	.4	.1	
3			0	31	3.4	18	3.5	1.4	.7	.4	.1	
4			0	22	3.4	16	3.5	1.2	1.2	.4	.1	
5			0	16	3.4	14	3.5	1.2	1.9	.3	.1	
6			0	12	3.6	14	3.1	1.2	1.9	.3	.1	
7			0	10	3.6	12	2.6	1.0	1.4	.3	.1	
8			0	8.5	4.2	11	2.5	1.2	.7	.3	.1	
9			0	8	4.2	11	3.1	1.4	.5	.3	.1	
10			0	6.5	3.8	10	3.1	1.0	.5	.3	.1	
11			0	6	3.8	9.5	2.8	.7	.6	.3	0	
12			62	5	3.4	8.5	2.8	.7	.6	.3	0	
13			48	4.6	3.4	8	2.8	.7	.6	.3	0	
14			29	5	3.4	7.5	2.8	.8	.6	.3	0	
15			40	5.5	16	6.5	2.2	.8	.6	.2	0	
16			15	5	17	6.5	2.8	1.0	.5	.2	0	
17			7.5	5	11	5.5	2.5	1.0	.5	.2	0	
18			5.5	5	8.5	5.5	2.2	.8	.5	.2	0	
19			4.0	4.6	34	5.5	2.2	.8	.4	.2	0	
20			3.5	4.2	28	5.5	2.2	.8	.4	.2	0	
21			3.5	3.8	21	4.9	2.2	.8	.4	.1	0	
22			3.0	3.6	21	4.4	2.8	.8	.4	.1	0	
23			3.0	3.8	33	4.4	3.1	.8	.4	.1	0	
24			3.0	3.4	36	3.9	2.5	1.0	.4	.1	0	
25			3.0	3.4	28	3.9	2.2	1.4	.4	.1	0	
26			2.5	3.4	113	3.5	1.6	3.1	.4	.1	0	
27			2.5	3.4	43	3.5	1.6	3.5	.4	.1	0	
28			2.5	3.4	29	3.5	1.4	2.5	.4	.1	0	
29			45	3.4		3.5	1.0	1.6	.4	.1	0	
30			84	3.4		3.1	1.2	1.0	.4	.1	0	
31			34	3.4		3.1		.7		.1	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	84	0	12.9	793
January	216	3.4	15.6	959
February	113	3.4	17.5	972
March	22	3.1	8.33	512
April	3.9	1.0	2.58	154
May	3.5	.7	1.22	75.0
June	1.9	.4	.65	38.9
July	.4	.1	.22	13.7
August	.1	0	.03	2.0
September	0	0	0	0
The year	216	0	4.86	3,520

Note.- No flow during months left blank.

Guadalupe Creek at Guadalupe, Calif.

Location.- Water-stage recorder in SW¼ sec. 19, T. 8 S., R. 1 E., half a mile northwest of Guadalupe and 3½ miles upstream from junction with Alamitos Creek. Altitude, about 325 feet.

Drainage area.- 12.6 square miles.

Records available.- January 1930 to September 1934.

Extremes.- Maximum discharge during year, 525 second-feet Jan. 1 (gage height, 2.90 feet); no flow several months.
1930-34: Maximum discharge, 1,160 second-feet Dec. 28, 1931 (gage height, 4.05 feet); no flow during part of each year.

Remarks.- Records good. Small diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1.4	0.7	303	4.4	39	5.5	3.3	1.2	0.1		
2	0	1.0	.9	111	4.4	32	4.9	3.0	1.2	0		
3	0	.9	1.8	56	4.4	27	4.6	2.7	.9	0		
4	0	.8	1.4	39	4.4	24	4.6	2.5	.8	0		
5	0	.6	1.0	29	4.6	21	4.4	2.2	1.3	0		
6	0	.6	.9	24	6	19	4.4	2.0	1.3	0		
7	0	.6	.9	20	5	16	4.1	1.7	1.1	0		
8	0	.6	.9	17	5.5	15	4.1	1.6	.8	0		
9	0	.6	.9	15	5	14	4.4	1.6	.6	0		
10	0	.6	.9	14	4.9	13	4.4	1.5	.6	0		
11	0	.6	1.4	12	4.6	12	4.4	1.4	.6	0		
12	0	.6	120	12	4.6	12	4.4	1.3	.7	0		
13	0	.6	64	10	4.4	11	4.1	1.3	.6	0		
14	0	.6	39	10	4.4	10	4.1	1.3	.6	0		
15	0	.6	48	9.5	9	10	3.8	1.3	.6	0		
16	0	.6	32	9	16	9.5	3.6	1.2	.5	0		
17	0	.7	20	8.5	12	9	3.6	1.2	.5	0		
18	0	.7	13	8	10	8.5	3.3	1.2	.5	0		
19	0	.7	10	8	47	8	3.1	1.1	.5	0		
20	0	.7	8	7.5	34	8	3.1	1.0	.5	0		
21	0	.7	7	7	25	7.5	3.0	1.0	.4	0		
22	0	.7	6	6.5	25	7	3.8	1.0	.4	0		
23	0	.7	5	6	79	7	4.6	1.1	.4	0		
24	0	.7	4.5	5.5	75	6.5	3.8	1.2	.4	0		
25	0	.7	4.0	5.5	55	6	3.6	1.7	.4	0		
26	0	.7	3.7	5.5	117	5.5	3.1	1.9	.4	0		
27	0	.7	3.7	5	69	5.5	3.0	1.5	.4	0		
28	0	.7	3.7	5	51	5.5	2.5	1.4	.3	0		
29	0	.8	24	4.9		5.5	2.7	1.4	.2	0		
30	2.6	.8	76	4.6		5.5	3.0	1.4	.1	0		
31	2.4		52	4.6		5.5		1.3		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.6	0	0.16	9.9
November	1.4	.6	0.71	42.2
December	120	.7	18.6	1,140
January	303	4.6	25.2	1,550
February	117	4.4	24.7	1,370
March	39	5.5	12.4	762
April	5.5	2.5	3.87	230
May	3.3	1.0	1.59	97.8
June	1.3	.1	.63	37.3
July	.1	0	.003	.2
August	0	0	0	0
September	0	0	0	0
The year	303	0	7.24	5,240

Note.- No flow during months left blank.

Guadalupe Creek at San Jose, Calif.

Location.- Water-stage recorder 100 feet downstream from junction with Los Gatos Creek, at San Jose, Santa Clara County. Altitude, about 80 feet.

Drainage area.- 131 square miles.

Records available.- January 1930 to September 1934.

Extremes.- Maximum discharge during year, 2,450 second-feet Jan. 1 (gage height, 5.37 feet); no flow most of year.
1930-34: Maximum discharge, 6,700 second-feet Dec. 27, 1931 (gage height, 11.12 feet); no flow most of each year.

Remarks.- Records good. Small diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	1,380	0	16						
2			0	462	0	1.8						
3			0	109	0	0						
4			0	34	0	0						
5			0	2.8	0	0						
6			0	0	0	0						
7			0	0	0	0						
8			0	0	0	0						
9			0	0	0	0						
10			0	0	0	0						
11			0	0	0	0						
12			89	0	0	0						
13			86	0	0	0						
14			.1	0	0	0						
15			0	0	0	0						
16			0	0	0	0						
17			0	0	0	0						
18			0	0	0	0						
19			0	0	0	0						
20			0	0	0	0						
21			0	0	0	0						
22			0	0	0	0						
23			0	0	133	0						
24			0	0	236	0						
25			0	0	54	0						
26			0	0	528	0						
27			0	0	188	0						
28			0	0	70	0						
29			14	0		0						
30			277	0		0						
31			58	0		0						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	277	0	16.9	1,040
January	1,380	0	64.1	3,940
February	528	0	43.2	2,400
March	16	0	.57	35.3
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	1,380	0	10.2	7,420

Note.- No flow during months left blank.

Alamitos Creek near Edenvale, Calif.

Location.- Water-stage recorder in W½ sec. 16, T. 8 S., R. 1 E., 7½ miles south of San Jose and 4 miles southwest of Edenvale. Altitude, about 200 feet.

Drainage area.- 35.0 square miles.

Records available.- January 1930 to September 1934.

Extremes.- Maximum discharge during year, 1,490 second-feet Jan. 1 (gage height, 5.78 feet); no flow several months.
1930-34: Maximum discharge, 2,670 second-feet Dec. 27, 1931 (gage height, 6.60 feet); no flow several months each year.

Remarks.- Records good. Discharge estimated Apr. 1, 2. Small diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	783	5.5	56	6					
2			0	186	5	50	5					
3			0	100	4.5	42	4.2					
4			0	68	4.5	37	3.3					
5			0	52	4.5	33	3.3					
6			0	40	6.5	30	3.3					
7			0	32	6.5	27	2.7					
8			0	28	6.5	24	2.5					
9			0	24	6.5	22	2.7					
10			0	21	6	21	2.3					
11			0	19	5	20	1.0					
12			3.1	17	4.5	19	.1					
13			100	15	4.2	18	0.0					
14			23	15	4.2	17	0					
15			32	13	6.5	16	0					
16			25	13	18	15	0					
17			13	12	16	14	0					
18			7.5	11	13	12	0					
19			4.0	10	38	12	0					
20			2.6	9.5	37	11	0					
21			1.5	9.5	29	10	0					
22			1.0	9	28	10	0					
23			.7	8.5	123	10	0					
24			.6	8	140	9.5	0					
25			.1	7.5	82	9	0					
26			0	7	154	8	0					
27			0	6.5	91	8	0					
28			0	6	69	7.5	0					
29			28	6		7	0					
30			127	5.5		7	0					
31			81	5.5		7						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	127	0	14.5	892
January	783	5.5	49.9	3,070
February	154	4.2	32.8	1,820
March	56	7	19.0	1,170
April	6	0	1.21	72.0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	783	0	9.70	7,020

Note.- No flow during months left blank.

Los Gatos Creek at Los Gatos, Calif.

Location.- Water-stage recorder about 700 feet upstream from highway bridge at Los Gatos, Santa Clara County. Altitude, about 360 feet.

Drainage area.- 40.0 square miles.

Records available.- January 1930 to September 1934.

Extremes.- Maximum discharge during year, 1,080 second-feet Jan. 1 (gage height, 6.00 feet); minimum, 0.1 second-foot Oct. 6-10.
1930-34: Maximum discharge, 3,340 second-feet Dec. 27 1931 (gage height, 9.75 feet); no flow during part of most years.

Remarks.- Records good except those for Nov. 1, 8-12, Jan. 13-31, Aug. 24 to Sept. 22, which were estimated. Several small storage reservoirs and diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	5	1.8	760	6.5	133	6.5	5.5	1.2	0.2	0.2	
2	.3	3.2	2.2	289	6.5	107	6.5	4.9	.5	.2	.3	
3	.3	2.3	11	160	6.5	94	8.5	1.9	.6	.2	.3	
4	.2	1.9	5.5	106	7.5	82	6	1.5	2.9	.2	.3	
5	.2	1.5	4.1	61	13	74	5	1.1	10	.2	.3	
6	.1	1.5	4.3	65	19	69	4.5	1.1	8.5	.2	.3	
7	.1	1.5	3.7	49	17	59	5	1.5	4.2	.2	.3	
8	.1	1.8	2.7	40	21	52	6	1.2	1.0	.2	.3	
9	.1	2.0	3.0	36	13	48	6.5	1.2	.8	.2	.3	
10	.1	1.8	3.0	33	11	44	6.5	1.7	.6	.2	.4	1.5
11	.6	1.5	8.5	28	11	40	5.5	.9	.5	.2	.4	
12	.4	1.3	296	26	10	37	6.5	1.1	.5	.2	.2	
13	.3	1.3	195	23	8.5	36	7.5	4.0	.5	.2	.3	
14	.5	1.5	96	21	9.5	34	6	5	.4	.2	.3	
15	.4	1.5	104	19	53	34	3.9	1.4	.4	.2	.5	
16	.4	1.6	65	17	67	34	5.5	1.1	.3	.2	.7	
17	.3	1.6	39	15	39	31	5.5	1.2	.3	.2	.8	
18	.2	1.6	26	14	30	24	5	1.0	.3	.2	.7	.5
19	.2	1.6	19	13	159	22	5	1.0	.3	.2	.7	
20	.2	1.6	16	12	115	21	4.3	1.0	.3	.2	1	
21	.2	1.6	11	12	76	20	2.8	.5	.3	.2	1.3	1.0
22	.2	1.6	9.5	11	86	20	5	.6	.3	.2	1.5	
23	.2	1.7	8.5	10	325	14	5.5	1.1	.2	.2	1.5	1.1
24	.3	1.7	7.5	9	250	13	3.8	2.8	.2	.2		2.1
25	.3	1.7	7	9	192	12	3.4	8	.2	.2		2.1
26	.3	1.7	6.5	8	442	13	2.2	9.5	.2	.2		1.8
27	.4	1.7	7.5	8	219	12	1.6	7.5	.2	.2	1.0	1.6
28	.5	1.8	6	7.5	163	12	1.7	7.5	.2	.2		1.5
29	.8	1.6	205	7.5		11	2.1	4.9	.2	.2		1.2
30	34	1.6	424	7		8.5	1.2	4.5	.2	.2		1.0
31	14		177	7		9		2.2		.2		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	34	0.1	1.82	112
November	5	1.3	1.81	108
December	424	1.8	57.3	3,520
January	760	7	61.4	3,780
February	442	6.5	64.9	4,720
March	133	8.5	39.3	2,420
April	8.5	1.2	4.97	296
May	9.5	.5	2.85	175
June	10	.2	1.22	72.6
July	.2	.2	.20	12.3
August			.67	41.4
September			1.41	83.9
The year	760	1.1	21.2	15,300

Campbell Creek at Saratoga, Calif.

Location.- Water-stage recorder in Quito grant, half a mile southwest of Saratoga post office, Santa Clara County.

Records available.- October 1933 to September 1934.

Extremes.- Maximum discharge during year, 314 second-feet Jan. 1 (gage height, 3.13 feet); no flow several months.

Remarks.- Records excellent. Discharge estimated Oct. 30 to Nov. 2 and June 2-3, 15-28. Diversion above station by San Jose Water Works.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.8	0.2	222	2.7	25	3.7	1.6	1.0	0.2		
2	0	.6	.4	88	2.6	18	3.5	1.6	.6	.2		
3	0	.3	3.4	41	2.5	16	3.3	1.5	.7	.2		
4	0	.2	1.0	28	2.5	13	3.2	1.3	.8	.2		
5	0	.2	.8	20	2.9	12	3.1	1.1	1.7	.2		
6	0	.2	.6	15	3.0	11	3.1	1.2	1.4	.2		
7	0	.2	.4	10	2.9	11	2.9	1.1	1.2	.2		
8	0	.3	.6	8.5	3.5	9.5	2.9	1.0	.9	.2		
9	0	.4	.6	8	3.2	8.5	2.8	1.0	.8	.1		
10	0	.4	.6	7	2.9	8	2.8	1.0	.9	.1		
11	0	.2	5	6	2.6	7.5	2.8	.8	.8	.1		
12	0	.1	76	5	2.6	7	2.6	.6	.6	.1		
13	0	.1	39	4.8	2.6	6.5	2.6	.7	.6	.1		
14	0	.1	24	4.6	3.0	6	2.5	.8	.6	.1		
15	0	.2	25	4.6	16	6	2.3	.7	.5	.1		
16	0	.2	10	4.6	10	5.5	2.3	.8	.5	.1		
17	0	.3	6	4.1	6.5	5.5	2.3	1.0	.5	.1		
18	0	.2	4.3	3.8	5.5	5.5	2.3	.8	.4	.1		
19	0	.2	3.8	3.7	24	4.9	2.1	.8	.4	.1		
20	0	.2	3.3	3.7	18	4.7	2.0	.6	.4	.1		
21	0	.2	3.0	3.5	13	4.4	2.0	.8	.4	.1		
22	0	.3	2.5	3.5	12	4.4	2.1	.6	.3	.1		
23	0	.3	2.4	3.5	42	4.4	2.6	.6	.3	.1		
24	0	.3	2.4	3.3	43	4.4	2.0	.9	.2	.1		
25	0	.2	2.3	3.2	36	4.2	1.9	1.4	.3	.1		
26	0	.4	2.0	3.2	74	4.2	1.7	1.4	.2	0		
27	0	.4	1.9	3.0	52	4.2	1.5	1.3	.2	0		
28	0	.2	2.0	2.7	38	4.0	1.5	1.1	.2	0		
29	0	.4	46	2.9		4.0	1.4	.9	.2	0		
30	43	.3	82	2.9		4.0	1.4	1.1	.2	0		
31	2.7		42	2.7		3.8		1.0		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	43	0	1.47	90.4
November	.8	.1	.28	16.7
December	82	.2	12.7	781
January	222	2.7	17.0	1,050
February	74	2.5	15.3	850
March	25	3.8	7.65	470
April	3.7	1.4	2.44	145
May	1.6	.6	1.02	62.7
June	1.7	.2	.60	35.7
July	.2	0	.11	6.5
August	0	0	0	0
September	0	0	0	0
The year	222	0	4.84	3,510

Note.- No flow during months left blank.

Coyote Creek near Madrone, Calif.

Location.- Water-stage recorder in northwest corner of San Jose grant, above highway bridge at mouth of canyon, a quarter of a mile below mouth of Las Animas Creek, and 2¾ miles northeast of Madrone, Santa Clara County. Altitude, about 420 feet.

Drainage area.- 193 square miles.

Records available.- October 1902 to September 1912, December 1916 to September 1934.

Average discharge.- 28 years, 71.5 second-feet.

Extremes.- Maximum discharge during year, 2,010 second-feet Jan. 1 (gage height, 8.65 feet); no flow parts of several months.
1902-12, 1916-34: Maximum discharge, 25,000 second-feet, probably on Mar. 7, 1911, furnished by Duryea, Haehl, & Gilman; no flow for several short periods during 1902-11, 1920, 1924, 1929-31, 1933-34.

Remarks.- Records excellent except those for October, November, Dec. 1,2, 11-14, Apr. 26, and August, which were estimated. No large diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0.1	1,030	6	73	8	3.5	1.9	0.6		
2			.1	404	6	56	8	3.3	1.9	.5		
3			.4	119	6	45	7.5	3.0	1.8	.4		
4			.4	64	5.5	36	7	3.0	2	.4		
5			.2	40	5.5	30	7	2.8	3.2	.4		
6			.2	28	5.5	26	7	2.6	2.8	.4		
7			.2	21	5.5	23	6.5	2.5	2.4	.4		
8			.2	18	6	20	6.5	2.5	1.9	.4		
9			.2	16	5.5	19	6	2.4	1.6	.4		
10			.1	14	5	17	6	2.3	1.5	.3		
11			.2	14	4.9	16	6	2.1	1.5	.2		
12			10	13	4.9	16	5.5	2.0	1.6	.1		
13			15	12	4.9	15	5.5	2.0	1.6	.2		
14			12	12	5	15	5.5	2.0	1.6	.2		
15			103	11	8	14	5.5	2.0	1.4	.2		
16			86	10	24	14	4.9	2.2	1.3	.2		
17			26	10	32	13	4.8	2.2	1.3	.2		
18			15	9.5	23	13	4.4	2.3	1.3	.2		
19			12	9	105	12	4.3	2.2	1.2	.2		
20			11	8.5	146	12	4.1	2.2	1.2	.2		
21			10	8	70	12	4.2	2.1	1.1	.2		
22			9	7.5	50	11	5.5	2.0	1.0	.1		
23			8.5	7.5	213	11	5	2.1	.9	.1		
24			8	7	468	10	4.1	2.3	.9	.2		
25			7	7	171	10	3.9	3.0	.9	.2		
26			7	6.5	235	9.5	3.8	3.0	.9	.1		
27			6.5	6.5	148	9	3.6	2.5	.8	.1		
28			6	6.5	98	9	3.4	2.2	.8	.1		
29			7	6.5		9	3.5	2.2	.6	0		
30			225	6		8.5	3.4	2.3	.6	0		
31			133	6		8.5		2.0		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.01	0.6
November			.05	3.0
December	225	0.1	23.2	1,430
January	1,030	6	62.5	3,840
February	468	4.9	66.7	3,700
March	73	8.5	19.1	1,170
April	8	3.4	5.35	318
May	3.5	2.0	2.41	148
June	3.2	.6	1.45	86.3
July	.6	0	.23	14.3
August			.02	1.2
September	0	0	0	0
The year	1,030	0	14.8	10,700

Note.- No flow during September.

Coyote Creek near Edenvale, Calif.

Location.- Staff gage at east boundary of Santa Teresa grant, at "The Narrows," 7 miles south of San Jose and 1½ miles northeast of Edenvale, Santa Clara County. Altitude, about 190 feet.

Drainage area.- 229 square miles.

Records available.- October 1916 to September 1934.

Average discharge.- 18 years, 26.1 second-feet.

Extremes.- Maximum discharge during year, 1,620 second-feet Jan. 1 (gage height, 5.80 feet); no flow during most of year.
1916-34: Maximum discharge, 10,000 second-feet Feb. 10, 1922 (gage height, 12.8 feet); no flow during most of each year.

Remarks.- Records good. Water pumped from wells along creek above station for irrigation.

Discharge, in second-feet, 1933-34

Jan. 1	492	Jan. 4	0.2	Feb. 26	39
Jan. 2	411	Feb. 24	306	Feb. 27	29
Jan. 3	40	Feb. 25	33	Feb. 28	.4

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	492	0	30.4	1,870
February	306	0	14.6	811
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	492	0	3.70	2,680

Note.- No flow during year except for days given above.

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Alameda Creek near Niles, Calif.

Location.- Water-stage recorder in Arroyo de la Alameda grant, one-eighth of a mile above highway bridge and 1¼ miles northeast of Niles, Alameda County. Altitude, about 100 feet.

Drainage area.- 633 square miles.

Records available.- October 1916 to September 1934.

Average discharge.- 17 years (1916-19, 1920-34), 56.4 second-feet.

Extremes.- Maximum discharge during year, 2,100 second-feet Jan. 1 (gage height, 6.51 feet); no flow during several months.
1916-34: Maximum discharge, 13,900 second-feet Feb. 10, 1922 (gage height, 12.44 feet); no flow during periods in 1918, possibly 1920, 1924-34.

Remarks.- Records excellent. Discharge estimated Feb. 21-26, Apr. 25 to May 13. Storage at Calaveras Reservoir; San Francisco Aqueduct and other diversions above station. Water released from Calaveras Reservoir Mar. 24 to Apr. 17.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	431	0.3	36	68	0.5				
2			0	952	.3	16	54	.5				
3			0	223	.3	5	55	.5				
4			0	88	.3	3.4	42	.4				
5			0	41	.3	2.6	35	.3				
6			0	20	.3	2.2	29	.2				
7			0	4.7	.3	2.0	64	.2				
8			0	2.1	.4	1.9	80	.2				
9			0	1.4	.4	1.9	77	.2				
10			0	1.2	.4	1.9	72	.2				
11			0	1.1	.4	1.6	70	.1				
12			0	1.1	.4	1.5	60	.1				
13			.1	1.0	.3	1.5	47	0				
14			.2	1.0	.4	1.3	62	0				
15			.2	.9	.6	1.2	64	0				
16			.2	.9	.6	1.2	44	0				
17			.2	1.0	.5	1.2	7.5	0				
18			.2	1.0	.4	1.2	1.9	0				
19			.2	1.1	.7	1.2	1.2	0				
20			.2	1.2	6	1.2	.8	0				
21			.2	1.1	2.5	1.3	.6	0				
22			.2	1.1	1.5	1.3	.7	0				
23			.2	1.2	3	1.3	.6	0				
24			.2	1.1	16	53	.6	0				
25			.2	.6	8	73	.5	0				
26			.2	.3	225	75	.4	0				
27			.2	.3	195	76	.4	0				
28			.2	.3	86	60	.4	0				
29			.4	.3		84	.4	0				
30			.6	.3		87	.4	0				
31			.6	.3		69		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	.6	0	.15	9.3
January	952	.3	57.5	3,540
February	225	.3	19.7	1,090
March	89	1.2	22.9	1,410
April	80	.4	31.3	1,860
May	.5	0	.11	6.6
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	952	0	10.9	7,920

Note.- No flow during months left blank.

Kern River near Kernville, Calif.

Location.- Water-stage recorder in NE¼ sec. 14, T. 23 S., R. 32 E., 3 miles above Salmon Creek and 15 miles north of Kernville. Altitude, about 3,550 feet.

Drainage area.- 845 square miles.

Records available.- January 1912 to September 1934.

Average discharge.- Combined flow of Kern River near Kernville and Kern River no. 3 Canal, 22 years, 634 second-feet.

Extremes.- Maximum discharge during year, 1,080 second-feet Apr. 20 (gage height, 7.20 feet); minimum, 0.3 second-foot July 18.
1912-34: Maximum discharge, 9,690 second-feet Jan. 17, 1916 (gage height, 8.8 feet, old datum); no flow at intervals July 31, 1924, to Feb. 7, 1925.

Remarks.- Records good. See record for Kern River no. 3 Canal, which diverts water 1 mile above station. Gage-height record and results of several discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	1.3	1.8	16	1.2	1.9	2.3	39	1.2	1.7	1.6	2.1
2	2.1	1.9	2.2	3.1	2.2	2.0	2.2	27	.8	1.1	1.5	1.7
3	1.6	1.4	1.9	2.2	1.5	2.4	1.2	21	1.1	1.0	1.6	1.6
4	1.0	1.7	2.0	1.8	.9	2.3	1.9	15	1.4	1.7	1.5	.9
5	1.1	1.5	.6	1.3	1.2	2.3	1.7	80	1.8	1.8	1.6	.7
6	.9	1.7	1.3	1.2	.8	2.2	2.0	192	2.7	.8	1.9	.9
7	1.8	1.3	2.2	1.3	1.1	2.3	2.9	283	1.4	1.2	1.2	1.0
8	1.4	2.3	1.6	1.2	.6	1.7	3.5	296	1.1	1.0	1.3	.8
9	2.0	.9	1.3	1.0	1.5	1.4	17	256	3.1	1.2	1.5	.9
10	2.7	1.3	1.8	1.3	1.9	2.0	44	311	1.6	1.1	1.2	1.4
11	2.7	1.5	1.2	1.5	1.6	2.5	81	358	1.0	1.4	1.5	1.4
12	2.1	1.1	1.6	1.3	1.6	2.7	66	296	1.7	1.6	1.2	1.7
13	1.5	1.6	139	1.4	2.0	1.8	104	290	2.5	1.4	1.1	1.5
14	1.2	1.4	4.0	1.0	1.8	2.4	184	247	2.0	1.7	1.0	1.5
15	1.0	1.4	1.5	1.0	2.3	3.5	265	212	1.5	.9	1.4	1.2
16	.8	1.3	1.0	1.2	1.8	3.5	272	170	1.9	.6	.9	1.2
17	.9	.8	20	1.3	1.7	2.7	228	116	2.7	.5	.7	1.8
18	2.4	1.4	2.3	1.4	1.3	2.4	207	65	1.2	.4	1.0	1.0
19	1.2	1.3	2.2	1.0	2.5	2.0	302	25	2.0	1.7	2.4	1.0
20	1.8	1.0	1.4	1.4	2.1	1.7	567	15	.9	1.8	4.3	1.6
21	1.6	1.5	1.8	1.3	1.0	1.8	185	20	1.6	2.0	4.3	1.6
22	1.7	1.5	2.1	2.1	1.6	1.8	192	16	1.6	1.3	2.5	1.1
23	1.9	1.4	1.8	2.3	2.5	2.2	178	6	1.3	1.8	3.7	1.5
24	1.1	1.2	1.8	1.7	2.2	2.7	119	2.1	1.8	2.1	2.0	1.7
25	1.5	1.5	1.6	1.3	1.4	2.5	76	1.7	1.2	2.4	1.1	2.0
26	2.1	1.2	1.6	1.8	2.2	1.7	48	1.2	1.0	1.4	1.7	2.0
27	1.5	1.4	1.4	1.7	2.1	2.3	50	1.6	.6	1.5	3.5	1.8
28	1.6	2.1	1.0	2.3	2.1	2.7	67	.9	.8	1.9	3.9	1.8
29	1.6	1.1	1.1	1.4		2.5	68	1.0	1.7	2.9	1.3	1.5
30	1.5	1.0	1.2	1.5		2.5	56	1.2	1.7	2.3	1.5	1.4
31	2.5		1.5	1.7		2.5		1.1		2.3	2.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.7	0.8	1.62	99.6
November	2.3	.8	1.40	83.3
December	139	.6	6.70	412
January	16	1.0	2.00	123
February	2.5	.6	1.67	92.8
March	3.5	1.4	2.29	141
April	567	1.2	113	6,720
May	358	.9	109	6,700
June	3.1	.6	1.56	92.8
July	2.9	.4	1.50	92.2
August	4.3	.7	1.87	115
September	2.1	.7	1.41	83.9
The year	567	.4	20.4	14,800

Kern River near Kernville, Calif.

(Continued)

Combined discharge, in second-feet, of Kern River and Kern River No. 3 Canal near Kernville, Calif., 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	151	190	170	498	241	281	530	643	345	268	165	172
2	173	190	176	398	248	291	520	624	323	264	158	178
3	181	188	183	332	256	312	483	618	315	268	155	178
4	168	187	189	314	256	338	460	607	309	276	148	159
5	162	182	172	283	258	364	450	685	319	272	143	149
6	158	179	177	267	257	386	457	797	357	253	139	142
7	160	174	186	259	254	394	480	889	348	241	134	137
8	162	178	185	247	247	389	524	903	334	228	131	131
9	169	174	180	239	246	375	589	865	397	215	130	127
10	182	173	182	238	240	374	627	919	392	205	128	124
11	215	174	182	242	233	376	664	967	362	198	128	121
12	215	171	208	228	229	382	649	906	360	196	123	121
13	206	176	632	228	229	377	688	900	386	193	121	120
14	195	174	336	225	234	386	769	856	394	192	119	118
15	191	173	256	222	241	408	852	820	396	189	119	114
16	187	171	219	219	246	428	861	778	413	186	119	113
17	181	167	213	219	231	441	818	722	446	176	116	119
18	179	169	254	223	231	445	796	670	416	169	116	117
19	176	165	253	221	242	440	803	628	420	167	117	115
20	174	162	241	225	259	430	840	614	384	167	123	118
21	174	166	236	219	241	421	794	618	374	167	128	120
22	172	168	234	220	238	418	800	614	369	165	140	114
23	171	167	231	226	278	421	783	597	351	161	158	116
24	168	166	231	238	283	442	725	554	363	160	143	119
25	166	166	229	222	262	434	682	526	351	159	131	122
26	167	164	227	226	292	425	653	463	321	151	127	123
27	164	162	229	227	298	437	654	440	288	146	140	123
28	165	171	228	231	279	456	671	404	270	152	190	122
29	167	166	227	230		488	673	372	260	157	181	120
30	168	162	230	232		512	660	363	257	177	160	116
31	196		236	237		526		365		178	150	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	215	151	176	10,800
November	190	162	172	10,200
December	632	170	230	14,100
January	498	219	253	15,600
February	298	229	252	14,000
March	526	281	406	25,000
April	861	450	665	39,600
May	967	363	669	41,100
June	446	257	354	21,100
July	276	148	197	12,100
August	190	116	138	8,480
September	178	113	129	7,680
The year	967	113	304	220,000

Kern River at Isabella, Calif.

Location.- Water-stage recorder in SW¼ sec. 17, T. 26 S., R. 33 E., half a mile above South Fork of Kern River and half a mile north of Isabella. Altitude, about 2,490 feet.

Drainage area.- 1,070 square miles.

Records available.- October 1910 to September 1912 (fragmentary), October 1925 to September 1934.

Extremes.- Maximum discharge during year, 462 second-feet May 12 (gage height, 8.36 feet); minimum, 0.2 second-foot Sept. 5-8, 14-16, 18-23.
1925-34: Maximum discharge, 4,500 second-feet Nov. 27, 1926 (gage height, 12.73 feet); minimum, that of September 1934.

Remarks.- Records good. Diversions for irrigation and power above station (see record for Borel Canal). Gage-height record and results of several discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	1.6	2.4	31	2.7	2.7	12	115	2.4	1.0	0.4	0.3
2	1.4	1.8	2.4	43	2.7	2.2	15	102	2.4	.9	.3	.3
3	1.4	1.8	2.4	10	2.7	2.2	3.4	81	2.2	.9	.3	.3
4	1.2	1.8	2.7	7	3.0	2.2	2.4	69	2.0	.8	.4	.3
5	1.2	1.8	2.7	6	3.0	2.2	2.2	74	2.0	.7	.4	.2
6	1.0	1.8	3.0	5.5	3.0	1.8	2.2	172	2.0	.6	.4	.2
7	.9	1.8	3.0	5	3.4	1.8	2.2	304	1.8	.6	.4	.2
8	1.0	1.8	3.0	4.6	3.4	2.0	2.2	350	1.6	.6	.4	.2
9	1.0	1.8	3.0	4.1	2.7	2.0	27	326	1.6	.6	.4	.3
10	1.2	1.8	3.0	3.7	2.0	2.0	56	326	1.0	.6	.4	.3
11	1.4	1.8	3.0	3.4	2.0	2.0	81	390	.8	.6	.4	.3
12	1.4	1.8	3.0	3.7	2.0	2.0	112	375	.8	.6	.4	.3
13	1.4	1.8	22	4.1	2.0	2.0	102	336	.8	.5	.5	.3
14	1.2	1.8	84	3.7	2.2	2.2	165	331	.8	.5	.5	.2
15	1.0	1.8	8.5	3.7	2.2	2.2	264	277	.9	.6	.4	.2
16	1.0	2.0	6	3.4	2.2	2.2	318	264	.9	.6	.4	.2
17	1.2	2.0	4.6	3.7	2.2	2.2	300	224	1.0	.6	.5	.3
18	1.2	2.0	4.1	3.7	2.2	2.2	250	176	1.0	.7	.5	.2
19	1.2	2.0	4.1	3.7	2.2	2.4	232	131	1.0	.7	.5	.2
20	1.2	2.0	4.6	3.7	2.7	2.4	183	94	1.0	.7	.7	.2
21	1.2	2.0	5	3.4	2.2	2.4	300	81	1.0	.7	.6	.2
22	1.2	2.0	5.5	3.4	2.0	2.4	259	81	1.0	.6	.5	.2
23	1.4	2.0	5.5	3.4	3.0	2.4	259	79	1.0	.6	.5	.2
24	1.4	2.0	5.5	3.7	3.4	2.4	237	52	.9	.6	.4	.3
25	1.6	2.2	6	3.4	3.0	2.4	172	21	.9	.5	.4	.4
26	1.6	2.2	6	3.0	2.7	2.2	134	7.5	.9	.6	.3	.6
27	1.6	2.2	6.5	2.7	4.6	2.2	105	4.6	1.2	.6	.3	.6
28	1.6	2.2	6.5	2.7	3.4	2.2	112	3.7	1.2	.5	.3	.7
29	1.6	2.2	6.5	2.7		2.2	124	3.4	1.0	.6	.3	.7
30	1.6	2.4	6.5	3.7		2.4	124	3.4	1.0	.5	.3	.7
31	1.6		6.5	3.0		6		3.0		.4	.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.6	0.9	1.30	79.9
November	2.4	1.6	1.94	115
December	84	2.4	7.66	471
January	43	2.7	6.19	381
February	4.6	2.0	2.67	148
March	6	1.8	2.33	143
April	318	2.2	132	7,860
May	390	3.0	157	9,650
June	2.4	.8	1.27	75.6
July	1.0	.4	.63	38.9
August	.7	.3	.41	25.4
September	.7	.2	.32	19.0
The year	390	.2	26.2	19,000

Kern River at Isabella, Calif.

(Continued)

Combined discharge, in second-feet, of Kern River and Borel Canal at Isabella, Calif., 1933-34.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	141	205	172	465	268	326	540	653	357	254	154	155
2	153	194	177	534	274	330	544	638	335	258	148	168
3	172	200	184	389	283	367	505	617	325	255	146	167
4	163	196	199	359	286	402	477	605	318	268	140	151
5	156	192	189	328	287	423	462	610	317	266	136	141
6	151	189	183	308	287	436	465	706	349	250	132	134
7	151	182	197	294	288	434	482	837	358	234	130	127
8	155	184	197	283	281	424	515	881	335	224	123	124
9	161	180	192	270	280	415	564	857	372	211	117	119
10	167	177	193	268	268	418	594	856	382	199	116	115
11	203	177	193	271	260	421	620	918	361	190	117	112
12	212	177	197	260	258	423	652	901	353	186	116	112
13	207	180	448	260	256	420	644	861	368	180	110	108
14	194	178	544	256	259	428	707	859	382	174	108	104
15	187	177	316	252	267	440	806	806	373	175	107	103
16	183	177	267	249	285	462	860	792	394	169	105	101
17	178	172	222	249	264	477	842	749	417	162	104	106
18	174	172	286	252	262	492	792	700	406	156	102	103
19	174	170	285	250	270	480	775	654	400	151	102	103
20	172	165	272	254	304	470	726	616	375	149	105	105
21	174	167	263	249	283	458	843	603	358	149	109	108
22	173	169	262	248	274	452	802	602	353	150	120	105
23	171	171	260	252	312	447	801	599	340	144	138	104
24	170	167	260	272	339	470	776	570	345	141	136	105
25	168	159	258	255	315	466	712	535	341	142	125	108
26	168	163	256	253	324	456	674	482	317	137	120	113
27	167	164	258	256	361	457	645	445	287	132	121	116
28	166	170	260	257	330	472	654	414	263	128	158	117
29	168	174	258	257		496	664	384	251	132	180	116
30	168	168	260	260		518	663	367	248	152	157	111
31	184		262	262		532		369		160	143	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	212	141	172	10,600
November	205	159	177	10,500
December	544	172	251	15,400
January	534	248	286	17,600
February	361	256	287	15,900
March	532	326	442	27,200
April	860	462	660	39,300
May	918	367	661	40,600
June	417	248	346	20,600
July	268	128	183	11,300
August	180	102	127	7,810
September	168	101	119	7,080
The year	918	101	309	224,000

Kern River near Bakersfield, Calif.

Location.- Water-stage recorder in SW¼ sec. 2, T. 29 S., R. 28 E., at mouth of lower canyon, 5 miles northeast of Bakersfield. Altitude, about 470 feet.

Drainage area.- 2,345 square miles.

Records available.- October 1893 to September 1934.

Average discharge.- 39 years (1893-1906, 1908-34), 925 second-feet.

Extremes.- 1896-1934: Maximum discharge, 18,287 second-feet Jan. 26, 1914; minimum, 57 second-feet in November 1924.

Remarks.- Many irrigation diversions and four power plants above station. Complete record, except run-off in acre-feet and annual figures, furnished by Kern County Land Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	147	189	180	300	281	353	531	716	401	253	142	139
2	145	202	184	455	286	347	543	714	387	260	138	138
3	148	196	195	593	287	353	543	711	362	256	135	146
4	167	198	206	483	297	372	525	707	338	255	132	145
5	169	201	210	441	298	392	490	705	339	271	129	139
6	161	198	205	396	301	406	474	695	355	270	123	133
7	162	192	193	362	303	409	472	754	381	262	121	131
8	163	187	203	343	301	435	492	842	401	248	118	127
9	166	183	209	330	291	441	526	874	385	233	116	124
10	168	182	208	322	289	436	570	838	388	215	110	122
11	175	176	210	314	281	427	605	835	398	192	104	117
12	210	175	205	313	274	432	638	890	390	178	108	114
13	213	173	235	300	273	442	671	883	384	175	100	112
14	211	176	423	304	270	443	680	869	384	164	99.4	112
15	206	180	560	300	270	417	719	857	386	163	97.8	112
16	201	181	384	294	280	454	794	824	392	164	96.4	113
17	195	179	307	292	305	481	837	803	397	159	89.7	112
18	189	178	263	287	284	502	825	768	417	157	85.8	107
19	187	174	323	289	289	511	805	725	420	152	89.1	104
20	182	174	316	284	305	499	787	685	413	144	91.6	103
21	179	172	308	284	335	475	792	645	397	145	91.4	102
22	175	171	297	279	311	453	826	593	375	146	93.9	103
23	172	171	296	267	303	443	812	623	361	148	98.9	104
24	171	175	295	272	351	449	804	623	349	144	107	104
25	171	178	293	297	362	474	780	606	339	141	116	106
26	169	171	285	286	336	482	738	586	325	140	112	108
27	170	171	279	283	352	478	722	531	310	142	111	112
28	176	174	278	283	377	477	705	488	294	137	115	116
29	181	175	279	284		496	704	469	277	133	132	122
30	185	182	280	283		517	715	444	257	133	155	123
31	179		283	279		533		409		140	146	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	216	144	177	10,900
November	208	169	181	10,800
December	645	177	271	16,700
January	634	266	326	20,000
February	388	267	303	16,800
March	548	338	446	27,400
April	913	462	671	39,900
May	914	401	700	43,000
June	432	251	367	21,900
July	275	132	184	11,300
August	159	81.6	113	6,950
September	148	99.3	118	7,020
The year	914	81.6	321	233,000

Note.- Maximum and minimum are absolute values determined from water-stage recorder graph.

Kern River no. 3 Canal near Kernville, Calif.

Location.- Water-stage recorder in NE¼ sec. 25, T. 23 S., R. 32 E., 4 miles below intake and 12 miles north of Kernville. Altitude, about 3,450 feet.

Records available.- March 1921 to September 1934.

Average discharge.- 13 years, 327 second-feet.

Extremes.- Maximum mean daily discharge during year, 610 second-feet May 12-13; minimum, 112 second-feet Sept. 16
1921-34: Maximum mean daily discharge, 648 second-feet July 16, 1921; no flow at times.

Remarks.- Records excellent. Canal diverts from left bank of Kern River in sec. 12, T. 23 S., R. 32 E. Water is used for power and returned to river 8 miles below. Gage-height record and results of several discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	150	189	168	482	240	279	528	604	344	266	163	170
2	171	188	174	395	246	289	518	597	322	263	157	176
3	179	187	181	330	255	310	482	597	314	267	153	176
4	167	185	187	312	255	336	458	592	308	274	147	158
5	161	181	171	282	257	362	448	605	317	270	141	148
6	157	177	176	266	256	384	455	605	354	252	137	141
7	158	173	184	258	253	392	477	606	347	240	133	136
8	161	176	183	246	246	387	521	607	333	227	130	130
9	167	173	179	238	244	374	572	609	394	214	129	126
10	179	172	180	237	238	372	583	608	390	204	127	123
11	212	172	181	240	231	373	583	609	361	197	126	120
12	213	170	206	227	227	379	583	610	358	194	122	119
13	204	174	493	227	227	375	584	610	383	192	120	118
14	194	173	332	224	232	384	585	609	392	190	118	116
15	190	172	255	221	239	405	587	608	394	188	118	113
16	186	170	218	218	244	424	589	608	411	185	118	112
17	180	166	193	218	229	438	590	606	443	176	115	117
18	177	168	252	222	230	443	589	605	415	169	115	116
19	175	164	251	220	240	438	501	603	418	165	115	114
20	172	161	240	224	257	428	273	599	383	165	119	116
21	172	165	234	218	240	419	609	598	372	165	124	118
22	170	166	232	218	236	416	608	598	367	164	137	113
23	169	166	229	224	276	419	605	591	350	159	154	115
24	167	165	229	236	281	439	606	552	361	158	141	117
25	165	165	227	221	261	431	606	524	350	157	130	120
26	165	163	225	224	290	423	605	462	320	150	125	121
27	163	161	228	225	296	435	604	438	287	147	136	121
28	163	169	227	229	277	453	604	403	269	150	186	120
29	165	165	226	229		485	605	371	258	154	180	118
30	166	161	229	231		510	604	362	255	175	158	115
31	194		234	235		524		364		176	148	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	213	150	175	10,800
November	189	161	171	10,200
December	493	168	223	13,700
January	482	218	251	15,400
February	296	227	250	13,900
March	524	279	404	24,800
April	609	273	552	32,800
May	610	362	560	34,400
June	443	255	352	20,900
July	274	147	195	12,000
August	186	115	136	8,360
September	176	112	127	7,560
The year	610	112	283	205,000

Borel Canal at Tilley Creek, Calif.

Location.- Water-stage recorder in sec. 4, T. 26 S., R 33 E., where canal crosses Tilley Creek, three-quarters of a mile south of Kernville. Altitude, about 2,570 feet.

Records available.- January 1910 to September 1914, October 1925 to September 1934.

Extremes.- Maximum mean daily discharge during year, 543 second-feet Apr. 19-22; minimum, 101 second-feet Aug. 18-19, Sept. 16.
1925-34: Maximum mean daily discharge, 605 second-feet June 3-5, 1927; no flow at times.

Remarks.- Records good. Daily discharge estimated Mar. 3, 16-18, Apr. 11-12. Canal diverts from Kern River half a mile below Kernville. It supplies Borel Hydroelectric plant of Southern California Edison Co., Ltd., 10 miles below; water then returns to Kern River. Gage-height record and results of several discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	140	203	170	434	265	323	528	538	355	253	154	155
2	152	192	175	491	271	328	529	536	333	257	148	168
3	171	198	182	379	280	365	502	536	323	254	146	167
4	162	194	196	352	283	400	475	536	316	267	140	151
5	155	190	186	322	284	421	460	536	315	265	136	141
6	150	187	180	302	284	434	463	534	347	249	132	134
7	150	180	194	289	285	432	480	533	356	233	130	127
8	154	182	194	278	278	422	513	531	333	223	123	124
9	160	178	189	266	277	413	537	531	370	210	117	119
10	166	175	190	264	266	416	538	530	381	198	116	115
11	202	175	190	268	258	419	539	528	360	189	117	112
12	211	175	194	256	256	421	540	526	352	185	116	112
13	206	178	426	256	254	418	542	525	367	179	110	108
14	193	176	460	252	257	426	542	528	381	174	108	104
15	186	175	308	248	265	438	542	529	372	174	107	103
16	182	175	261	246	283	460	542	528	393	168	105	101
17	177	170	217	245	262	475	542	525	416	161	103	106
18	173	170	282	248	260	490	542	524	405	155	101	103
19	173	168	281	246	268	478	543	523	399	150	101	103
20	171	163	267	250	301	468	543	522	374	148	104	105
21	173	165	258	246	281	456	543	522	357	148	108	108
22	172	167	256	245	272	450	543	521	352	149	120	105
23	170	169	254	249	309	445	542	520	339	143	138	104
24	169	165	254	268	336	468	539	518	344	140	136	105
25	166	157	252	252	312	464	540	514	340	142	125	108
26	166	161	250	250	321	454	540	474	316	136	120	112
27	165	162	252	253	356	455	540	440	286	131	121	115
28	164	168	253	254	327	470	542	410	262	128	158	116
29	166	172	252	254		494	540	381	250	131	180	115
30	166	166	254	256		516	539	364	247	151	157	110
31	182		256	259		526		366		160	143	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	211	140	171	10,500
November	203	157	175	10,400
December	460	170	243	14,900
January	491	245	280	17,200
February	356	254	284	15,800
March	526	323	440	27,100
April	543	460	528	31,400
May	538	364	504	31,000
June	416	247	345	20,500
July	267	128	182	11,200
August	180	101	126	7,750
September	168	101	119	7,080
The year	543	101	283	205,000

South Fork of Kern River near Onyx, Calif.

Location.- Water-stage recorder in SW¼ sec. 24, T. 25 S., R. 35 E., three-quarters of a mile north of Kernville-Walker Pass road and 5 miles northeast of Onyx. Altitude, about 2,900 feet.

Drainage area.- 531 square miles.

Records available.- September 1911 to August 1914, January 1919 to September 1934.

Average discharge.- 13 years (1911-13, 1919-25, 1929-34), 72.3 second-feet.

Extremes.- Maximum discharge during year, 176 second-feet Mar. 29 (gage height, 2.80 feet); no flow reported on Sept. 1.

1911-14, 1919-34: Maximum discharge, 2,360 second-feet Jan. 25, 1914 (gage height, 7.1 feet); no flow several days in July and August 1929 and in September 1934.

Remarks.- Records good except those for July 12 to Sept. 25, which were estimated. Lowell and Thomas irrigation ditches divert a total of about 2,000 acre-feet yearly above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	19	18	114	32	37	137	32	14	1.3	0.3	0
2	8.5	21	17	68	33	40	124	33	13	1.2		
3	11	21	17	46	34	43	108	35	11	1.0		
4	11	21	22	41	34	47	94	33	9.5	1.0		
5	11	20	22	36	35	52	86	30	7.5	1.0		
6	11	19	20	33	36	58	82	29	11	1.0		
7	12	19	23	32	36	64	81	26	14	.9		
8	12	19	21	29	36	69	82	24	14	.9		
9	14	19	21	27	37	70	82	19	16	.9		
10	15	19	23	29	34	75	80	18	18	.8		
11	17	19	24	30	33	88	76	18	19	.8		
12	19	19	27	31	34	101	72	20	16			
13	18	19	74	31	33	96	70	19	14			2.0
14	16	20	51	31	34	90	69	19	14			
15	15	21	30	29	35	101	68	18	13			
16	14	22	22	29	37	115	66	17	9.5		0.2	
17	14	21	19	28	34	132	62	15	8			
18	14	20	22	30	33	138	58	12	8.5			
19	14	20	23	29	34	130	55	13	7			
20	14	19	22	31	37	130	55	13	7			
21	14	19	23	29	36	122	52	13	7	0.5		
22	13	19	25	30	36	120	48	12	5			
23	13	19	27	31	44	121	48	11	4.6			
24	14	20	28	32	44	121	45	11	3.9			
25	15	20	29	29	40	115	43	12	3.4			
26	15	20	30	30	40	115	41	12	2.7			1.0
27	15	20	30	29	39	127	38	13	4.1			1.2
28	16	22	30	29	36	138	37	14	4.1			1.2
29	16	25	30	30		147	31	14	2.4			1.3
30	17	21	30	30		151	28	15	1.4			1.2
31	17		32	31		147		15				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	19	7.5	14.0	661
November	25	19	20.1	1,200
December	74	17	26.8	1,650
January	114	27	35.0	2,150
February	44	32	35.9	1,990
March	151	37	100	6,150
April	137	28	67.3	4,000
May	35	11	18.9	1,160
June	19	1.4	9.39	559
July	1.3		.67	41.3
August			.20	12.5
September	1.3	0	.36	21.2
The year	151	0	27.3	19,800

South Fork of Kern River at Isabella, Calif.

Location.- Water-stage recorder in NW¼ sec. 20, T. 26 S., R. 33 E., a quarter of a mile above junction with Kern River, at Isabella. Altitude, about 2,480 feet.

Drainage area.- 985 square miles.

Records available.- October 1910 to September 1913, January 1929 to September 1934.

Extremes.- Maximum discharge during year, 62 second-feet Jan. 2 (gage height, 1.50 feet); minimum, 2.0 second-feet Aug. 17; minimum gage height, 0.70 foot Sept. 16. 1929-34: Maximum discharge, 675 second-feet Apr. 18, 1932 (gage height, 3.27 feet); minimum, 0.3 second-foot July 26, 1931.

Remarks.- Records good. Daily discharge estimated Feb. 28 to Mar. 4 and Mar. 7-10. Twenty-seven irrigation ditches divert from river above station; considerable return flow from many of them.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9	9	11	17	13	e	8	5	6.5	3.3	5.5	3.5
2	9	7	11	58	14	7.5	8	6.5	3.8	3.3	6	3.6
3	9.5	7	12	47	14	7.5	6	4.9	3.5	3.5	6	3.5
4	9.5	6.5	12	37	14	7	6	5	5.5	4.7	5.5	6
5	10	6.5	11	36	13	6.5	5.5	8.5	5.5	5.5	3.5	5.5
6	9.5	6.5	11	35	13	7.5	6	4.5	4.0	5.5	4.3	4.7
7	10	6	11	34	13	8.5	4.7	4.0	4.2	5.5	3.6	3.6
8	10	6	11	32	14	9.5	7.5	4.0	3.8	5.5	3.6	5
9	10	6	11	31	13	10	9	4.0	3.8	5.5	5.5	3.3
10	10	6	12	20	14	11	9	4.9	3.3	5.5	5.5	3.0
11	10	6	12	21	13	12	8	4.3	3.6	4.0	3.1	3.0
12	10	6.5	12	20	12	12	10	4.7	3.8	5.5	2.6	4.3
13	11	6	12	24	13	13	10	4.7	3.3	3.6	2.6	6
14	11	5.5	12	26	13	12	10	4.5	3.5	3.6	2.7	4.5
15	11	6	12	26	12	12	10	4.3	3.6	3.5	2.7	3.0
16	10	8	13	20	12	12	10	4.5	3.6	4.7	2.7	2.8
17	10	7.5	14	19	12	11	9.5	4.5	4.0	5	2.6	3.0
18	8.5	6.5	14	17	12	11	5.5	4.7	5.5	3.5	2.6	3.1
19	7	6	14	17	12	11	6.5	4.3	3.8	3.3	2.8	3.1
20	6	6.5	14	17	15	12	6.5	4.2	3.8	3.1	3.0	3.3
21	6	6	15	17	11	12	5.5	4.2	4.0	3.1	2.8	3.5
22	7	6	15	17	8	11	5	4.2	4.0	6	2.8	3.6
23	7.5	9.5	15	16	12	7	5.5	8	4.0	5.5	3.0	3.5
24	6.5	6.5	15	19	10	7.5	7	8	4.5	3.5	3.0	4.2
25	6.5	8	15	19	9	7.5	5.5	8.5	4.7	3.8	2.8	5.5
26	7	11	15	15	9	7.5	4.5	8.5	8	7	2.7	3.6
27	7	11	14	13	9	7	4.5	9	6	7.5	2.8	7.5
28	7	11	14	12	8.5	7.5	4.2	9.5	4.5	7	2.8	8.5
29	8.5	11	14	12		10	4.2	9.5	7	5.5	3.0	9
30	10	11	14	13		7.5	4.0	9	5.5	7	3.0	9
31	11		14	13		4.7		8.5		6	2.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	11	6	8.87	545
November	11	5.5	7.40	440
December	15	11	13.0	799
January	58	12	23.3	1,430
February	15	8	12.1	672
March	13	4.7	9.36	576
April	10	4.0	6.85	408
May	9.5	4.0	5.90	363
June	8	3.3	4.49	267
July	7.5	3.1	4.82	296
August	6	2.6	3.47	213
September	9	2.8	4.52	269
The year	58	2.6	8.67	6,280

Deer Creek at Hot Springs, Calif.

Location.- Staff gage in sec. 31, T. 23 S., R. 31 E., at forest supervisor's headquarters, 1 mile west of Hot Springs.

Drainage area.- 16.9 square miles.

Records available.- October 1910 to September 1934.

Average discharge.- 16 years (1910-15, 1917-21, 1925-31, 1934), 7.01 second-feet.

Extremes.- Maximum discharge recorded during year, 21 second-feet Dec. 13 (gage height, 1.00 foot); minimum, 0.7 second-foot Sept. 6-7.
1910-34: Maximum discharge recorded, about 420 second-feet Jan. 24, 1914 (gage height, 2.9 feet); minimum, 0.5 second-foot July 20, 1931.

Remarks.- Records fair. Flow regulated at times by filling and emptying swimming tank at Hot Springs. Gage-height record furnished by U. S. Forest Service.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.6	1.9	2.6	16	3.0	6			2.1	0.9	1.2	1.1
2	1.9	2.3	2.6	12	3.0	6			1.9	.9	1.0	1.2
3	1.9	1.9	2.6	7	3.0	*6	3.8		1.8	.9	1.0	1.2
4	2.3	2.3	4.0	5.5	*3.0	*6			1.8	.9	1.2	1.0
5	2.3	2.3	3.0	4.6	3.0	6	3.8		2.4	1.0	1.2	.8
6	2.3	2.3	3.4	*4.2	4.8	5.5			3.8	1.0	1.2	.7
7	2.3	2.3	3.4	3.8	4.3	5			4.3	1.0	1.2	.7
8	2.3	2.3	3.0	3.8	4.3	5			3.8	1.0	1.1	.9
9	2.3	2.3	3.4	3.6	*4.2	4.8			3.0	3.4	1.1	.9
10	2.3	2.3	3.0	*3.6	4.0	*4.6			2.3	1.4	1.1	.9
11	2.3	2.3	3.0	*3.6	4.0	*4.4		*2.0	2.1	1.1	1.1	1.0
12	1.9	2.3	4.3	3.6	3.6	4.3			2.1	1.1	1.1	1.1
13	1.6	2.3	21	*3.6	3.4	4.6			2.1	.9	1.1	1.1
14	1.6	1.9	6.5	*3.6	3.0	4.6			2.1	1.1	.9	.9
15	1.6	1.9	4.3	3.6	4.3	4.0			2.1	1.1	.9	.9
16	1.6	1.9	3.4	3.6	4.0	4.3			2.3	1.1	1.1	.9
17	1.6	1.9	2.3	3.6	*3.5	*4.2			1.4	1.3	1.1	.9
18	1.9	1.9	3.0	3.6	*3.0	*4.1			1.2	1.2	1.3	.9
19	1.9	1.9	2.8	3.6	3.0	4.0			1.0	1.0	1.3	.9
20	1.9	1.9	2.6	3.6	7.5	4.3			.9	1.0	1.3	.8
21	1.9	1.9	2.8	3.4	4.6	3.8		1.8	.9	1.0	1.1	.8
22	1.9	1.9	2.8	3.0	4.6	4.0		1.8	1.0	1.0	1.1	1.0
23	1.9	1.9	3.2	4.3	*5	4.0		1.8	1.0	1.0	1.5	1.4
24	1.9	1.9	3.4	3.8	10	*5		1.8	1.0	1.0	1.3	1.4
25	1.9	1.9	3.6	3.6	6.5	*4.5		1.8	1.0	.9	1.2	1.2
26	1.9	1.9	4.0	4.0	8	4.3		2.3	.9	1.1	1.1	1.0
27	1.9	1.9	4.0	*3.8	8.5	*4.0		2.1	.9	1.3	1.4	1.0
28	1.9	1.9	4.0	3.6	7.5	*4.0	2.3	1.9	.9	1.3	1.0	1.0
29	2.3	2.6	3.8	3.0		*4.0		2.6	.9	1.3	1.0	1.1
30	2.3	2.6	3.8	3.0		*4.0		2.3	1.1	1.3	1.0	1.2
31	3.8		3.e	3.0		*4.0		2.3		1.3	1.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.8	1.6	2.03	125
November	2.6	1.9	2.09	124
December	21	2.3	3.98	245
January	16	3.0	4.47	275
February	10	3.0	4.66	259
March	6	3.8	4.62	284
April			*3.0	179
May			2.02	124
June	4.3	.9	1.80	107
July	3.4	.9	1.15	70.7
August	1.5	.9	1.14	70.1
September	1.4	.7	1.00	59.3
The year	21	.7	2.66	1,920

*Estimated.

Tule River near Porterville, Calif.

Location.- Water-stage recorder in NW¼ sec. 25, T. 21 S., R. 28 E., at highway bridge 1 mile above mouth of South Fork and 6 miles east of Porterville. Altitude, about 580 feet.

Drainage area.- 266 square miles.

Records available.- May 1901 to September 1934.

Average discharge.- 33 years, 131 second-feet.

Extremes.- Maximum discharge during year, 580 second-feet Dec. 13 (gage height, 4.75 feet); no flow Aug. 6 to Sept. 30.
1901-34: Maximum discharge, about 6,780 second-feet Jan. 17, 1916 (gage height, 11.0 feet, old staff-gage datum); no flow Aug. 6 to Sept. 30, 1934.

Remarks.- Records good. Discharge estimated Dec. 5-6. Several small diversions above station. Power is developed on Middle Fork and tributaries.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	16	11	240	38	73	62	12	1.7	0.5	0.1	
2	.4	12	12	202	38	72	60	13	1.5	.4	.1	
3	.4	11	13	108	38	78	56	12	1.4	.4	.1	
4	.4	10	17	89	38	87	53	11	1.4	.3	.1	
5	.4	9	17	77	39	89	50	8	4.0	.3	.1	
6	.4	9	16	68	42	87	46	7	30	.3	0	
7	.3	9	16	62	43	84	46	6.5	22	.3	0	
8	.3	8.5	15	59	41	76	43	6	16	.3	0	
9	.4	8	15	55	38	69	43	5.5	12	.3	0	
10	.4	8	14	52	38	66	34	4.7	9	.2	0	
11	.5	8.5	16	51	36	62	23	4.1	6	.2	0	
12	.6	9	17	48	35	60	17	3.8	4.1	.2	0	
13	.7	9	312	46	34	55	13	2.7	2.5	.2	0	
14	.8	9	147	46	34	51	14	3.8	1.1	.2	0	
15	.9	8.5	100	44	34	49	16	3.2	.9	.2	0	
16	.9	9	69	43	35	46	17	2.9	.9	.2	0	
17	.9	8.5	58	42	34	47	17	2.7	.9	.2	0	
18	.9	8.5	53	42	34	48	16	2.5	.8	.2	0	
19	.9	8	48	42	38	48	14	2.3	.7	.2	0	
20	1.0	8	46	41	62	57	13	2.1	.7	.2	0	
21	1.0	8	44	40	49	58	13	1.9	.7	.2	0	
22	1.0	7.5	44	39	44	56	14	1.5	.6	.2	0	
23	1.0	6.5	46	40	68	58	16	1.2	.6	.2	0	
24	.8	6	48	46	96	68	15	.8	.6	.1	0	
25	.9	6	49	44	77	64	14	.8	.6	.1	0	
26	.9	7	50	42	79	61	14	1.1	.6	.1	0	
27	.9	8	50	39	98	60	12	2.5	.6	.1	0	
28	1.0	8.5	49	38	77	60	12	2.5	.6	.1	0	
29	1.1	10	46	38		60	12	2.5	.5	.1	0	
30	1.2	11	45	38		62	12	3.8	.5	.1	0	
31	9		44	38		63		2.7		.1	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9	0.3	0.99	60.9
November	16	6	8.83	525
December	312	11	49.3	3,030
January	240	38	61.3	3,770
February	98	34	48.5	2,690
March	89	46	63.7	3,920
April	62	12	26.2	1,560
May	13	.8	4.42	272
June	30	.5	4.12	245
July	.5	.1	.22	13.3
August	.1	0	.02	1.0
September	0	0	0	0
The year	312	0	22.2	16,100

Note.- No flow during September.

South Fork of Tule River near Success, Calif.

Location.- Water-stage recorder in NW¼ sec. 4, T. 22 S., R. 29 E., 3 miles southeast of Success and 5 miles above mouth. Altitude, about 750 feet.

Drainage area.- 106 square miles.

Records available.- June 1930 to September 1934.

Extremes.- Maximum discharge during year, 160 second-feet Dec. 13 (gage height, 2.40 feet); no flow several months.
1930-34: Maximum discharge, 1,520 second-feet Dec. 28, 1931 (gage height, 5.20 feet); no flow several months each year.

Remarks.- Records good. Discharge estimated Oct. 31 to Nov. 4, Nov. 20-28. Several irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1.3	1.2	74	12	21	12		0			
2	0	1.2	1.9	62	12	20	12		0			
3	0	1.2	2.4	32	12	20	12		0			
4	0	1.2	4.2	24	12	21	12		0			
5	0	1.3	4.2	21	12	21	11		.6			
6	0	1.1	3.5	18	12	20	10		7			
7	0	1.2	2.5	17	15	19	9.5		4.5			
8	0	1.4	2.5	16	12	18	8.5		3.5			
9	0	1.4	2.5	15	12	17	7.5		2.7			
10	0	1.4	2.5	14	10	16	3.2		2.4			
11	0	1.2	2.5	14	10	15	1.7		1.3			
12	0	1.2	2.8	14	9	13	1.3		.4			
13	0	1.3	70	13	9	12	1.4		.1			
14	0	1.3	39	13	9	12	1.4		0			
15	0	1.3	26	12	9.5	12	1.6		0			
16	0	1.3	21	12	10	11	1.9		0			
17	0	.8	15	12	9.5	12	2.0		0			
18	0	.3	13	12	8.5	11	1.9		0			
19	0	.3	13	12	10	11	1.6		0			
20	0	.3	12	12	23	12	1.2		0			
21	0	.3	12	11	16	12	.9		0			
22	0	.3	12	10	12	12	.7		0			
23	0	.3	12	10	17	12	.4		0			
24	0	.3	14	16	28	16	.4		0			
25	0	.4	14	13	24	14	.4		0			
26	0	.4	14	12	24	14	.4		0			
27	0	.4	14	12	31	13	.2		0			
28	0	.4	14	12	23	13	.1		0			
29	0	.4	14	12		13	0		0			
30	0	.4	14	12		13	0		0			
31	2.5		14	12		12						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.5	0	0.08	5.0
November	1.4	.3	.85	50.8
December	70	1.2	12.6	775
January	74	10	17.8	1,090
February	31	8.5	14.4	800
March	21	11	14.8	910
April	12	0	3.91	233
May	0	0	0	0
June	7	0	.75	44.6
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	74	0	5.40	3,910

Note.- No flow during months left blank.

Kaweah River near Three Rivers, Calif.

Location.- Water-stage recorder in SE¼ sec. 27, T. 17 S., R. 28 E., three-quarters of a mile below South Fork, 3 miles below North Fork, and 1¼ miles southwest of Three Rivers. Altitude, about 680 feet.

Drainage area.- 514 square miles (revised).

Records available.- April 1903 to September 1934.

Average discharge.- 31 years (1903-34), 526 second-feet.

Extremes.- Maximum discharge during year, 2,230 second-feet Dec. 13 (gage height, 8.10 feet); minimum, 8.5 second-feet Sept. 19.
1903-34: Maximum discharge, about 14,700 second-feet Jan. 17, 1916 (gage height, 13.5 feet); minimum, 8.5 second-feet Sept. 19, 1934.

Remarks.- Records good except those for Apr. 28-29, June 5-10, which were estimated. Irrigation diversions above station. Power is developed on Middle and East Forks.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	89	48	832	171	224	484	387	200	102	25	22
2	34	69	50	494	184	242	462	373	184	97	25	21
3	33	61	52	331	190	268	387	413	177	97	25	21
4	32	57	63	280	184	300	358	387	168	92	25	19
5	30	53	57	246	177	335	354	462	220	87	24	18
6	30	50	57	224	177	354	368	542	240	77	23	16
7	30	45	57	207	180	363	418	554	220	73	24	14
8	30	43	57	193	171	331	489	542	210	65	24	14
9	33	41	55	184	168	300	592	489	230	59	23	14
10	38	40	53	177	164	304	580	512	210	53	23	14
11	43	40	55	168	155	296	599	500	193	52	24	13
12	40	38	230	161	152	300	542	434	200	50	24	12
13	35	35	1,520	158	152	284	639	445	249	50	23	12
14	32	41	434	155	149	309	695	387	249	52	22	12
15	32	41	268	149	149	335	748	368	461	52	22	12
16	33	41	214	149	164	340	674	349	272	50	22	11
17	30	41	184	152	152	358	639	318	436	45	22	10
18	30	40	180	149	152	387	606	296	284	41	23	9.5
19	30	38	168	149	164	368	586	276	228	40	23	9
20	30	35	158	146	207	335	592	276	197	38	23	9.5
21	30	35	155	142	184	318	625	272	180	38	23	10
22	30	35	158	142	171	304	625	264	168	35	26	10
23	30	34	161	149	187	309	586	253	161	35	25	12
24	29	34	164	171	253	363	500	228	152	34	25	14
25	28	35	168	164	228	331	462	200	142	33	24	17
26	26	35	171	158	238	322	467	238	130	32	24	17
27	26	37	174	155	268	354	472	268	121	29	26	14
28	25	38	174	152	224	378	470	231	116	25	25	17
29	26	43	174	155		434	450	217	110	25	25	14
30	29	50	168	158		478	434	280	105	30	23	12
31	99		161	161		467		221		26	22	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	99	25	33.5	2,060
November	89	34	43.8	2,610
December	1,520	48	187	11,500
January	832	142	207	12,700
February	268	149	183	10,200
March	478	224	335	20,600
April	748	354	530	31,500
May	554	200	354	21,800
June	461	105	207	12,300
July	102	25	52.1	3,200
August	26	22	23.8	1,460
September	22	9	14.0	833
The year	1,520	9	181	131,000

North Fork of Kaweah River at Kaweah, Calif.

Location.- Water-stage recorder in SE¼ sec. 34, T. 16 S., R. 28 E., 1½ miles above Mannikin Creek, 1½ miles north of Kaweah, and 3 miles upstream from mouth. Altitude, about 1,080 feet. Previous to Oct. 26, 1933, record was obtained at staff-gage station 1 mile downstream.

Drainage area.- 128 square miles.

Records available.- October 1910 to September 1934.

Average discharge.- 23 years (1911-34), 83.2 second-feet.

Extremes.- Maximum discharge during year, 1,220 second-feet Dec. 13 (gage height, 5.30 feet); minimum, 0.6 second-foot Sept. 15.

1910-34: Maximum discharge (at former station 1 mile downstream), about 7,400 second-feet Jan. 25, 1914 (gage height, 10.2 feet); no flow many days during July to October 1924.

Remarks.- Records good except those for Oct. 29, 31, Nov. 4-5, 9, 12, Jan. 2-5, Feb. 18-26, which were estimated. Several small irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	16	7.5	294	41	68	69	30	20	6	0.8	1.0
2	2.0	11	7.5	134	45	72	66	33	16	5.5	1.0	.8
3	1.6	9.5	8	112	45	80	63	32	15	5	1.0	.7
4	1.8	9	10	92	42	88	60	28	15	4.5	1.1	.7
5	1.8	8.5	10	74	41	94	56	26	22	4.2	1.2	.7
6	2.0	8.5	9	62	43	94	54	25	30	3.9	1.2	.7
7	2.0	8	9	55	43	92	53	24	23	3.9	1.3	.7
8	1.4	7	9	51	41	84	53	23	22	3.7	1.4	.7
9	1.1	6.5	9	48	41	79	53	22	26	3.6	1.3	.7
10	1.1	6	8.5	46	40	79	52	21	19	3.5	1.2	.7
11	1.8	6	8.5	43	37	77	51	20	16	3.3	1.3	.8
12	1.8	6	104	42	36	78	49	18	15	3.1	1.1	.7
13	2.0	6	576	40	36	75	49	16	15	2.8	1.1	.8
14	2.1	6	132	39	35	78	49	15	16	2.6	1.0	.9
15	2.0	6.5	75	37	36	81	49	15	14	2.6	1.0	.8
16	2.1	6.5	48	37	39	79	48	14	13	2.4	.9	.9
17	2.1	6.5	43	37	39	83	47	14	12	2.5	.8	.8
18	2.1	6	41	37	38	83	45	14	12	2.2	.9	.8
19	2.2	6	38	37	38	78	42	14	11	2.3	.8	.8
20	2.5	6.5	36	36	50	73	40	14	11	2.2	.7	.8
21	2.7	6.5	36	36	45	73	39	13	10	2.1	.7	.8
22	2.8	6.5	36	36	40	70	37	12	10	2.2	.7	.9
23	2.8	6.5	38	37	45	70	37	12	8.5	2.2	.8	1.0
24	2.8	6.5	40	37	65	88	36	12	7	2.2	.9	1.4
25	2.8	6.5	40	36	60	77	36	12	7	2.2	.9	2.6
26	3.7	6.5	41	35	65	72	34	26	7.5	2.2	1.1	2.7
27	3.8	6.5	40	35	75	71	32	27	8	1.9	1.0	2.5
28	3.9	6.5	39	35	63	70	30	21	7	1.5	.9	2.2
29	4.2	7.5	37	36		71	28	30	7	1.5	1.0	2.0
30	4.4	7.5	36	37		70	28	37	6.5	1.4	1.2	1.6
31	46		103	40		69		23		1.0	1.0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	46	1.1	3.79	233
November	16	6	7.30	434
December	576	7.5	54.0	3,320
January	294	35	56.5	3,470
February	75	35	45.1	2,500
March	94	68	77.9	4,790
April	69	28	46.2	2,750
May	37	12	20.7	1,270
June	30	6.5	14.0	833
July	6	1.0	2.91	179
August	1.4	.7	1.01	62.1
September	2.7	.7	1.11	66.0
The year	576	.7	27.5	19,900

Kings River near Hume, Calif.

Location.- Water-stage recorder near west line of sec. 35, T. 12 S., R. 28 E., 1½ miles below junction of South and Middle Forks of Kings River and 3¾ miles north of Hume. Altitude, about 2,100 feet.

Drainage area.- 838 square miles (revised).

Records available.- August 1921 to September 1934.

Average discharge.- 10 years (1921-22, 1923-24, 1926-34), 993 second-feet.

Extremes.- Maximum discharge during year, 2,740 second-feet May 11 (gage height, 4.75 feet); minimum, 85 second-feet Sept. 30.
1921-34: Maximum discharge, 11,700 second-feet June 4, 1922 (gage height, 8.67 feet); minimum, 63 second-feet Sept. 29 to Oct. 4, 1924.

Remarks.- Records good. No diversions. Small amount of water released from Hume Lake occasionally.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	108	173	132	810	334	428	1,240	1,360	698	615	298	197
2	114	173	142	540	354	451	1,170	1,280	670	632	282	188
3	120	170	142	530	370	510	1,060	1,240	659	725	262	182
4	116	161	148	510	370	560	965	1,360	648	698	243	170
5	112	150	130	475	370	632	965	1,750	725	642	226	158
6	108	140	142	446	370	670	998	2,150	810	588	212	150
7	108	140	145	438	358	725	1,140	2,210	780	535	200	142
8	112	172	140	410	362	698	1,320	2,210	870	475	188	135
9	114	278	138	388	346	698	1,500	2,150	900	438	179	128
10	128	270	140	388	330	698	1,550	2,340	840	406	170	122
11	152	209	140	366	330	725	1,650	2,400	810	388	161	116
12	150	130	640	358	322	752	1,600	2,270	932	384	150	114
13	142	132	1,040	346	318	752	1,750	2,340	1,030	379	145	110
14	135	132	525	338	318	810	1,910	2,090	932	370	140	104
15	126	135	446	326	334	870	2,090	2,030	1,060	362	135	98
16	124	135	415	302	354	932	2,030	1,860	1,030	342	130	94
17	120	138	406	302	338	965	1,910	1,700	1,060	322	126	94
18	118	128	397	298	350	998	1,910	1,550	1,060	306	122	92
19	116	126	384	298	370	965	1,910	1,460	965	298	120	90
20	114	124	358	294	370	870	1,910	1,460	932	286	122	90
21	114	126	350	286	354	870	1,970	1,500	932	282	124	90
22	114	126	350	290	346	870	2,030	1,500	900	270	142	88
23	112	126	350	298	374	932	1,970	1,410	932	258	152	92
24	110	124	342	306	392	900	1,750	1,240	900	250	142	102
25	110	122	338	302	384	932	1,550	1,060	840	240	135	104
26	108	122	330	298	456	965	1,500	1,030	725	226	140	102
27	106	120	318	298	428	998	1,600	900	648	215	194	100
28	106	126	310	298	415	1,060	1,600	780	610	212	246	94
29	106	120	302	302		1,200	1,550	725	604	226	215	90
30	125	120	306	310		1,240	1,460	725	615	302	200	87
31	246		327	318		1,200		725		306	194	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	246	106	122	7,500
November	278	120	148	8,810
December	1,040	130	315	19,400
January	810	286	370	22,800
February	456	318	361	20,000
March	1,240	428	835	51,300
April	2,090	965	1,590	94,600
May	2,400	725	1,570	96,500
June	1,060	604	837	49,800
July	725	212	386	23,700
August	298	120	177	10,900
September	197	87	117	6,960
The year	2,400	87	570	412,000

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Kings River above North Fork, Calif.

Location.- Water-stage recorder in N½ sec. 27, T. 12 S., R. 26 E. (unsurveyed), 1 mile above junction with North Fork of Kings River and 10 miles southeast of Trimmer. Altitude, about 1,020 feet.

Drainage area.- 956 square miles.

Records available.- March 1927 to December 1928, October 1931 to September 1934.

Extremes.- Maximum discharge during year, 3,060 second feet May 11 (gage height, 4.70 feet); minimum, 90 second-feet Sept. 30.

1927-28, 1931-34: Maximum discharge, 11,200 second-feet May 17, 1927 (gage height, 10.30 feet at station a quarter of a mile downstream); minimum, 81 second-feet Oct. 16-17, 1931.

Remarks.- Records good. Discharge estimated Dec. 9-11, Jan. 24-26, 31, May 2-3, 27-31, June 20-22. No diversions. Small amount of water released from Hume Lake occasionally.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	117	191	129	1,230	322	458	1,280	1,510	716	620	305	196
2	118	161	135	722	339	475	1,230	1,450	692	630	292	191
3	120	176	142	609	357	517	1,070	1,400	674	698	270	184
4	116	172	152	572	361	567	986	1,510	664	686	254	174
5	113	161	137	517	357	636	972	1,890	704	636	240	165
6	110	150	137	475	364	686	1,010	2,390	824	583	231	156
7	108	146	146	458	353	722	1,150	2,460	800	537	217	146
8	113	144	150	432	353	710	1,360	2,530	860	489	201	137
9	117	273	154	407	346	692	1,660	2,460	958	449	191	133
10	120	273	154	403	325	698	1,720	2,680	888	420	181	126
11	154	242	154	383	322	704	1,780	2,750	842	399	174	120
12	154	139	527	372	315	728	1,780	2,600	930	383	163	117
13	146	135	1,460	357	311	740	1,950	2,600	1,070	383	154	113
14	137	135	652	346	311	794	2,130	2,390	1,000	372	148	108
15	131	135	513	336	315	860	2,390	2,320	1,110	364	144	102
16	127	133	454	311	361	909	2,320	2,190	1,070	346	139	100
17	124	127	441	306	336	937	2,130	1,950	1,110	325	133	98
18	120	126	424	302	339	993	2,190	1,780	1,110	306	129	97
19	118	124	399	298	361	958	2,130	1,610	1,030	296	126	95
20	115	122	372	295	395	874	2,130	1,610	970	288	126	95
21	113	120	361	288	364	860	2,260	1,660	970	285	127	94
22	115	122	364	288	350	854	2,320	1,660	950	276	137	93
23	113	120	357	295	391	895	2,260	1,610	951	260	163	95
24	112	118	346	325	428	895	1,950	1,410	937	254	152	104
25	110	116	342	310	407	902	1,780	1,190	654	245	142	106
26	106	117	332	300	508	916	1,660	1,070	752	234	142	104
27	106	117	318	295	494	986	1,780	950	664	220	167	102
28	108	118	315	295	454	1,040	1,780	800	614	214	254	98
29	108	118	305	298		1,190	1,780	750	604	228	225	95
30	117	115	305	302		1,280	1,660	750	614	279	206	92
31	261		311	310		1,280		750		308	193	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	261	108	124	7,620
November	273	115	149	8,870
December	1,460	129	338	20,600
January	1,230	288	401	24,700
February	508	311	366	20,300
March	1,280	458	831	51,100
April	2,390	972	1,750	104,000
May	2,750	750	1,760	108,000
June	1,110	604	864	51,400
July	698	214	388	23,900
August	305	126	185	11,400
September	196	92	121	7,200
The year	2,750	92	608	439,000

Kings River at Piedra, Calif.

Location.- Water-stage recorder in NW¼ sec. 8, T. 13 S., R. 24 E., half a mile below highway bridge at Piedra and 12 miles northeast of Sanger. Altitude, about 500 feet.

Drainage area.- 1,694 square miles.

Records available.- September 1895 to September 1934.

Average discharge.- 39 years, 2,270 second-feet.

Extremes.- Maximum discharge during year, 6,690 second-feet Dec. 13 (gage height, 7.68 feet); minimum, 92 second-feet Sept. 23 (gage height, 1.14 feet).
1895-1934: Maximum discharge, about 59,700 second-feet Jan. 25, 1914 (gage height, 21.8 feet, old datum); minimum, 67 second-feet Oct. 3, 1924.

Remarks.- Records excellent. No large diversions; small storage on Hume Creek; one power plant on North Fork of Kings River.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	126	334	138	2,340	526	850	2,490	2,260	978	667	302	186
2	126	246	153	1,830	565	880	2,320	2,210	880	650	296	186
3	126	226	169	1,150	590	978	1,960	2,260	850	706	286	176
4	130	220	184	1,010	601	1,150	1,830	2,260	820	748	267	169
5	130	207	164	912	601	1,290	1,780	2,730	850	689	249	160
6	126	191	164	790	612	1,400	1,880	3,250	1,040	634	237	158
7	124	176	162	748	656	1,430	2,110	3,460	1,080	596	229	151
8	122	172	164	694	612	1,400	2,550	3,460	1,080	540	215	144
9	124	202	189	650	634	1,320	3,050	3,250	1,260	490	199	138
10	126	283	186	612	580	1,320	3,050	3,460	1,180	450	189	130
11	136	280	186	596	526	1,320	3,180	3,460	1,080	422	179	124
12	164	223	900	550	513	1,360	3,050	3,320	1,080	394	167	118
13	164	160	4,690	536	500	1,400	3,390	3,320	1,220	390	160	116
14	158	158	1,650	518	495	1,500	3,600	3,050	1,290	386	151	113
15	149	158	1,010	500	500	1,620	4,050	2,860	1,360	374	144	109
16	142	158	820	477	580	1,700	3,900	2,670	1,360	360	140	106
17	138	155	667	454	585	1,830	3,600	2,430	1,430	338	136	102
18	134	151	628	459	550	1,920	3,600	2,160	1,360	318	128	100
19	130	151	565	454	623	1,780	3,530	2,010	1,290	309	124	100
20	128	149	555	450	790	1,620	3,460	1,960	1,180	296	122	104
21	126	144	531	446	684	1,620	3,680	1,960	1,120	299	126	100
22	126	147	536	434	612	1,620	3,750	1,960	1,120	296	130	97
23	126	149	545	446	880	1,660	3,680	1,880	1,080	283	142	94
24	124	147	540	500	945	1,700	3,250	1,700	1,080	270	155	97
25	122	149	526	468	850	1,740	2,860	1,460	1,010	264	144	104
26	120	149	522	450	945	1,740	2,670	1,360	880	255	136	109
27	120	144	504	434	1,120	1,920	2,790	1,320	754	240	142	111
28	118	140	495	442	880	1,960	2,730	1,120	684	232	194	111
29	120	144	486	446		2,320	2,670	1,080	656	229	240	107
30	124	140	482	468		2,550	2,490	1,080	650	240	218	104
31	288		490	495		2,430		1.010		309	196	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	288	118	136	8,360
November	334	140	182	10,800
December	4,690	138	614	37,800
January	2,340	434	670	41,200
February	1,120	495	663	36,800
March	2,550	850	1,590	97,800
April	4,050	1,780	2,960	176,000
May	3,460	1,010	2,320	143,000
June	1,430	660	1,060	63,100
July	748	229	409	25,100
August	302	122	185	11,400
September	186	94	124	7,380
The year	4,690	94	909	659,000

North Fork of Kings River below Meadow Brook, Calif.

Location.- Water-stage recorder in SE¼ sec. 1, T. 10 S., R. 28 E., half a mile below Meadow Brook and half a mile above Fleming Creek. Altitude, about 8,150 feet.

Drainage area.- 35.3 square miles.

Records available.- October 1921 to September 1934.

Extremes.- Maximum discharge during year, 304 second-feet Apr. 20 (gage height, 3.70 feet); minimum recorded, 0.5 second-foot Aug. 19-21.
1921-34: Maximum discharge, 1,090 second-feet June 14, 1933 (gage height, 4.93 feet); minimum, 0.3 second-foot part of Sept. 12-14, 1924.

Remarks.- Records good. Discharge estimated Nov. 30; no record Dec. 1 to Mar. 24. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	3.9					103	126	31	17	7.5	2.6
2	1.4	5					86	112	28	17	5.5	2.4
3	1.4	4.1					71	124	27	17	4.4	2.3
4	1.3	3.0					65	165	27	18	3.5	2.1
5	1.2	2.3					73	196	35	16	2.8	1.8
6	1.2	2.2					89	220	43	15	2.6	1.7
7	1.2	2.3					120	220	48	13	2.0	1.5
8	1.2	2.3					153	209	61	11	1.9	1.4
9	1.3	2.3					165	207	56	10	1.6	1.3
10	1.5	2.2					162	207	46	8	1.4	1.2
11	1.5	2.2					162	188	38	7.5	1.3	1.2
12	1.4	2.2					162	185	42	6.5	1.2	1.0
13	1.3	2.4					188	180	58	6	1.0	1.0
14	1.3	2.4					212	160	55	5.5	.9	.9
15	1.3	2.4					215	146	70	5.5	.8	.8
16	1.3	2.2					188	116	67	5	.7	.8
17	1.3	2.1					196	112	56	4.9	.6	.7
18	1.3	2.1					215	102	53	4.4	.6	.8
19	1.3	2.0					218	94	50	3.9	.5	.8
20	1.3	2.0					220	90	42	3.9	.5	.6
21	1.3	2.0					229	89	38	3.7	.5	.8
22	1.3	2.0					226	86	35	3.4	.9	.9
23	1.3	2.0					204	79	34	3.0	.9	1.5
24	1.3	2.0					168	66	31	3.0	.8	1.9
25	1.3	2.0				57	151	55	28	2.7	.9	1.9
26	1.3	1.9				65	155	52	24	2.4	1.7	1.7
27	1.3	2.0				75	165	42	21	2.1	5.5	1.5
28	1.3	1.9				84	155	36	18	2.1	3.5	1.3
29	1.3	1.8				103	148	39	17	2.7	3.0	1.2
30	1.9	1.8				105	129	37	16	5.5	2.7	1.2
31	3.7					98		33		8	2.7	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.7	1.2	1.40	86.1
November	5	1.8	2.37	141
December				
January				
February				
March				
April	229	65	160	9,520
May	220	33	122	7,500
June	70	16	39.8	2,370
July	18	2.1	7.54	464
August	7.5	.5	2.08	128
September	2.6	.7	1.37	81.5

North Fork of Kings River near Cliff Camp, Calif.

Location.- Water-stage recorder in NW¼ sec. 12, T. 11 S., R. 27 E., at Cliff Camp Bridge, 1 mile northwest of Cliff Camp. Altitude, about 6,150 feet.

Drainage area.- 174 square miles.

Records available.- August 1921 to September 1934.

Average discharge.- 12 years (1921-32, 1933-34), 296 second-feet.

Extremes.- Maximum discharge during year, 1,430 second-feet Apr. 14 (gage height, 7.90 feet); minimum, 2.5 second-feet Sept. 17.
1921-34: Maximum discharge, 6,030 second-feet June 4, 1922 (gage height, 10.6 feet at former gage); minimum, 0.6 second-foot Dec. 30, 1930.

Remarks.- Records good except those estimated for period of ice effect, Dec. 19-30. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	20	8	157	90	104	648	508	100	38	16	8.5
2	5.5	20	9.5	96	98	130	560	449	89	37	14	7.5
3	6	18	12	92	99	174	446	472	84	36	12	7.5
4	6	16	12	86	95	206	407	612	80	35	11	7
5	5.5	12	11	74	89	249	449	648	101	33	9.5	6
6	5	11	12	69	105	260	542	700	140	30	8.5	5.5
7	5	11	12	67	94	266	665	682	153	27	7.5	4.8
8	5.5	10	12	65	98	240	820	630	169	24	6.5	4.4
9	5.5	10	11	59	87	229	860	595	153	22	6	4.0
10	5.5	9.5	12	58	77	236	820	578	143	20	5.5	3.8
11	6	9	12	54	72	244	820	525	111	18	5	3.5
12	6	9	433	53	69	264	820	508	101	16	4.8	3.4
13	6	9	297	50	67	287	940	472	185	16	4.3	3.3
14	5.5	9.6	64	49	67	332	1,020	407	183	15	4.0	3.1
15	5.5	10	43	47	69	371	1,020	365	206	15	3.8	2.8
16	5.5	10	41	47	79	389	860	319	214	14	3.6	2.8
17	5	9	41	53	75	440	860	280	176	14	3.4	2.7
18	5	9	44	53	86	446	920	246	136	13	3.1	2.8
19	5	8.5	50	50	98	362	880	225	140	12	2.8	2.8
20	5	8	50	50	94	319	880	212	110	11	2.8	2.9
21	5	9	52	47	83	337	940	198	96	11	2.7	3.1
22	5.5	9	58	52	77	340	920	189	86	10	2.8	3.4
23	5.5	9	57	57	92	359	840	172	84	9.5	3.3	6
24	5.5	8.5	56	56	96	371	682	150	77	9	5	10
25	5.5	8.5	55	53	87	404	630	135	67	9	4.4	8.5
26	5.5	8.5	54	50	96	440	630	145	59	8	4.8	8
27	5.5	9	50	54	91	490	630	136	53	7.5	13	7
28	5.5	9.5	50	58	90	560	595	114	46	7.5	18	6
29	5.5	8.5	50	65		648	560	133	41	6.5	12	5.5
30	27	8.5	50	69		665	490	145	38	9.5	10	5
31	46		91	79		648		120		14	9	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	46	4.8	7.45	458
November	20	8	10.6	631
December	433	8	58.4	3,590
January	157	47	63.5	3,900
February	105	67	86.4	4,800
March	665	104	349	21,500
April	1,020	407	738	43,900
May	700	114	357	22,000
June	214	38	114	6,780
July	38	7.5	17.7	1,090
August	18	2.7	7.07	435
September	10	2.7	5.05	300
The year	1,020	2.7	151	109,000

North Fork of Kings River below Rancheria Creek, Calif.

Location.- Water-stage recorder in SE¼ sec. 34, T. 11 S., R. 27 E., just above backwater from forebay of Balch power house and 1 mile below mouth of Rancheria Creek. Altitude, about 4,150 feet.

Drainage area.- 225 square miles.

Records available.- March 1927 to September 1934.

Extremes.- Maximum discharge during year, 1,660 second-feet Dec. 13 (gage height, 8.20 feet); minimum, 5.5 second-feet Sept. 19.
1927-34: Maximum discharge, 5,910 second-feet May 16, 1927 (gage height, 12.6 feet); minimum, 5 second-feet Aug. 29, 1931.

Remarks.- Records good. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	39	16	419	122	156	750	570	127	45	19	11
2	12	29	16	195	134	188	640	526	113	44	18	11
3	12	28	20	168	135	240	526	540	104	42	17	10
4	13	25	21	149	132	291	486	658	100	40	16	10
5	12	22	19	130	125	338	512	710	123	39	14	9
6	12	19	19	117	158	358	605	770	173	36	13	8
7	12	19	21	111	140	368	730	750	188	34	12	8
8	12	19	20	102	142	338	870	692	195	31	11	7.5
9	12	18	19	94	129	318	920	640	182	29	10	7
10	13	18	20	92	111	328	895	640	173	26	10	7
11	13	18	21	84	103	328	895	588	136	24	9.5	6.5
12	13	17	774	82	98	358	895	540	116	23	9	6.5
13	13	18	766	80	96	378	995	526	188	21	8.5	6.5
14	12	18	159	78	94	418	1,040	462	217	20	8	6
15	12	18	98	75	102	462	1,070	429	224	20	8	6
16	12	18	83	73	117	474	945	378	240	20	7.5	6
17	12	17	81	77	111	526	945	338	217	19	7	6
18	12	16	82	78	118	540	995	300	150	18	7	6
19	12	16	91	76	148	462	945	273	164	17	6.5	5.5
20	12	15	92	75	140	408	945	256	129	17	6.5	6
21	12	16	96	71	126	429	995	232	111	16	6.5	6
22	12	16	102	74	113	429	970	217	98	16	6.5	6
23	12	16	103	82	154	451	920	202	91	15	6.5	8
24	12	16	100	84	152	451	790	175	87	15	6.5	12
25	12	16	98	80	135	486	710	163	78	14	8	14
26	12	16	97	75	167	512	710	182	70	13	8	12
27	12	16	93	76	148	570	710	175	63	12	11	12
28	12	16	90	80	139	622	575	149	56	12	22	11
29	12	16	90	87		730	640	170	50	13	18	10
30	29	16	91	94		770	570	182	46	13	14	9.5
31	86		141	105		710		150		14	12	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	86	11	15.1	928
November	39	15	18.9	1,120
December	774	16	114	7,010
January	419	71	105	6,460
February	167	94	128	7,110
March	770	156	433	26,600
April	1,070	486	810	48,200
May	770	149	406	25,000
June	240	46	134	7,970
July	45	12	23.2	1,430
August	22	6.5	10.9	670
September	14	5.5	8.33	496
The year	1,070	5.5	184	133,000

Helms Creek at Sand Meadow, Calif.

Location.- Water-stage recorder in sec. 1, T. 10 S., R. 27 E., at lower end of Sand Meadow, half a mile below crossing of trail from Deer Meadow to Long Meadow. Altitude, about 8,000 feet.

Drainage area.- 34.1 square miles.

Records available.- October 1922 to September 1934.

Extremes.- Maximum discharge during year, 298 second-feet Apr. 14 (gage height, 3.91 feet); minimum recorded, 1.2 second-feet Aug. 18.
1922-34: Maximum discharge, 1,140 second-feet May 16, 1927 (gage height, 5.58 feet); minimum, 1.1 second-feet Aug. 1, 27, 1924, Oct. 30, 1932.

Remarks.- Records good. Discharge estimated Oct. 8, 29-31, May 2-14, Sept. 24-29. No record Nov. 1 to Mar. 27. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6						141	95	16	4.0	1.8	1.9
2	3.2						123	90	15	3.8	1.6	2.1
3	2.8						98	90	13	3.6	1.6	1.8
4	2.2						93	100	13	3.4	1.6	1.8
5	2.2						106	110	17	3.2	1.5	1.6
6	2.2						127	110	19	3.2	1.5	1.6
7	2.2						154	105	18	3.0	1.5	1.6
8	2.2						164	100	18	3.0	1.6	1.6
9	2.2						189	95	19	2.8	1.5	1.6
10	2.2						187	90	17	2.6	1.5	1.6
11	2.4						181	85	14	2.4	1.5	1.6
12	2.2						189	80	12	2.4	1.5	1.6
13	2.2						204	65	13	2.2	1.5	1.8
14	2.2						216	60	15	2.2	1.5	1.8
15	2.2						210	50	15	2.2	1.5	1.8
16	2.2						198	44	12	2.2	1.5	1.8
17	2.2						189	39	12	2.1	1.4	1.8
18	2.2						187	35	12	1.9	1.4	1.8
19	2.2						173	33	11	1.9	1.4	1.8
20	2.2						175	31	9	1.9	1.4	1.9
21	2.2						167	28	8	1.9	1.5	1.9
22	2.2						170	26	7.5	1.9	1.6	1.9
23	2.2						151	23	6.5	1.9	2.4	2.6
24	2.2						125	20	6	1.9	1.9	2.8
25	2.2						116	19	5	1.9	1.9	3.0
26	2.2						120	20	5	1.9	3.4	2.5
27	2.2						114	20	4.7	1.8	5	2.5
28	2.2					127	108	19	4.4	2.1	3.2	2.2
29	2.3					149	100	24	4.0	2.4	2.4	2.0
30	5					151	88	22	4.0	1.9	2.1	1.9
31	4					154		19		1.9	2.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5	2.2	2.42	149
November				
December				
January				
February				
March				
April	216	88	154	9,160
May	110	19	56.4	3,470
June	19	4.0	11.5	684
July	4.0	1.8	2.44	150
August	5	1.4	1.86	114
September	3.0	1.6	1.94	115

Rancheria Creek near Smith Meadow, Calif.

Location.- Water-stage recorder in SW¼ sec. 19, T. 11 S., R. 28 E., half a mile below North Fork of Rancheria Creek and half a mile north of Smith Meadow. Altitude, about 6,400 feet.

Drainage area.- 21.9 square miles.

Records available.- October 1924 to September 1934.

Extremes.- Maximum discharge during year, 122 second-feet probably in April (gage height, 3.5 feet); minimum unrecorded.

1924-34: Maximum discharge, 426 second-feet May 16, 1927 (gage height, 5.45 feet); practically no flow part of Nov. 25, 26, 27, 1924.

Remarks.- Records fair. Discharge estimated Nov. 22-30; not computed Dec. 1 to June 11, either on account of ice or clock being stopped. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6	7.5								6.5	3.5	3.0
2	4.8	8								6.5	3.4	3.0
3	4.8	7.5								6	3.4	2.8
4	4.6	7								6	3.4	2.8
5	4.6	6.5								6	3.2	2.8
6	4.6	6.5								5.5	3.2	2.8
7	4.6	7								5.5	3.2	2.8
8	4.6	7								5	3.0	2.8
9	4.6	7								5	3.0	2.8
10	4.8	7.5								5	3.0	2.8
11	4.8	7.5								4.8	3.0	2.8
12	4.8	6.5							11	4.8	3.0	3.0
13	4.6	6							11	4.8	3.0	3.0
14	4.6	6							11	4.8	3.0	3.0
15	4.6	6							10	4.6	3.0	3.0
16	4.6	5							9.5	4.6	3.0	3.0
17	4.6	5							9.5	4.4	2.8	3.0
18	4.6	4.8							9	4.4	2.8	3.0
19	4.6	3.9							8.5	4.4	2.8	3.2
20	4.4	3.9							8.5	4.4	3.0	3.2
21	4.4	3.4							8.5	4.1	3.2	3.2
22	4.6								8	4.1	3.2	3.4
23	4.6								7.5	4.1	3.2	3.9
24	4.6								7.5	4.1	3.0	4.6
25	4.4								7.5	3.9	3.0	3.9
26	4.4	3.5							7.5	3.9	3.5	3.7
27	4.4								7	3.7	4.8	3.7
28	4.4								7	3.9	3.5	3.7
29	4.6								6.5	3.9	3.2	3.7
30	10								6.5	3.7	3.2	3.7
31	9									3.5	3.0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	10	4.4	4.91	302
November	8		5.37	320
December				
January				
February				
March				
April				
May				
June 12-30	11	6.5	8.50	320
July	6.5	3.5	4.71	290
August	4.8	2.8	3.18	196
September	4.6	2.8	3.20	190

Dinkey Creek at Dinkey Meadow, Calif.

Location.- Water-stage recorder in sec. 21, T. 10 S., R. 26 E., at lower end of Dinkey Meadow, half a mile above Bear Creek and 11 miles above mouth of stream. Altitude, about 5,440 feet.

Drainage area.- 50.8 square miles.

Records available.- October 1921 to September 1934.

Extremes.- Maximum discharge during year, 1,300 second-feet Dec. 13 (gage height, 5.90 feet); minimum, 0.2 second-foot parts of Sept. 7-9.
1921-34: Maximum discharge, 2,660 second-feet Nov. 26, 1927 (gage height, 7.62 feet); minimum, 0.2 second-foot Aug. 24-30, 1931, parts of Sept. 7-9, 1934.

Remarks.- Records good. Discharge estimated Oct. 15-29, Nov. 29 to Dec. 9 (ice effect), and Sept. 13-20. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	5.5	2.5	184	54	77	191	120	32	7	0.9	0.3
2	1.4	4.2	2.5	100	57	100	161	106	28	7	.9	.4
3	1.4	3.2	3.5	82	57	131	135	102	26	6	.9	.3
4	1.4	2.5	4.0	69	53	151	131	108	25	5.5	.9	.3
5	1.4	2.1	4.0	59	53	163	140	124	38	5	.9	.3
6	1.4	1.9	3.5	53	77	163	154	133	41	4.8	.9	.3
7	1.3	1.8	3.5	51	61	155	175	131	36	4.4	.8	.3
8	1.3	1.8	3.5	48	68	142	202	120	36	4.0	.8	.3
9	1.4	1.8	3.5	45	58	133	209	111	34	3.8	.7	.3
10	1.4	1.9	3.4	43	51	133	203	109	31	3.4	.6	.3
11	1.4	1.9	3.4	38	46	135	200	102	25	3.0	.6	.3
12	1.4	2.0	521	37	45	144	200	96	23	2.8	.6	.3
13	1.4	2.1	486	36	43	151	207	89	23	2.4	.6	.3
14	1.4	2.2	87	35	43	163	220	78	24	2.3	.5	.3
15	1.4	2.3	50	32	47	171	215	70	22	2.1	.4	.3
16	1.4	2.4	45	33	54	176	205	63	20	2.0	.4	.3
17	1.4	2.4	40	35	50	194	194	57	19	1.9	.4	.3
18	1.4	2.5	38	35	54	180	182	52	18	1.8	.4	.3
19	1.4	2.4	33	34	59	152	176	48	17	1.7	.3	.3
20	1.4	2.4	34	33	61	149	184	45	16	1.7	.3	.3
21	1.4	2.5	35	32	54	158	193	42	15	1.6	.3	.3
22	1.4	2.5	35	35	53	152	182	38	14	1.5	.3	.3
23	1.4	2.4	36	38	61	157	180	36	12	1.4	.3	.6
24	1.4	2.5	37	36	60	158	149	33	12	1.3	.3	2.1
25	1.4	2.4	36	33	55	160	135	35	11	1.2	.3	1.8
26	1.4	2.3	38	30	56	163	135	50	10	1.2	.3	1.4
27	1.4	2.3	39	31	57	175	134	44	9.5	1.1	.4	1.3
28	1.4	2.5	42	35	59	194	128	44	9	1.0	.6	1.2
29	1.4	2.5	40	38		213	123	57	8	.9	.5	1.1
30	20	2.5	40	43		209	113	46	7.5	.9	.4	.9
31	17		81	48		202		36		.9	.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	20	1.3	2.50	154
November	5.5	1.8	2.46	146
December	521	2.5	59.0	3,630
January	184	30	47.8	2,940
February	77	43	55.2	3,070
March	213	77	158	9,720
April	220	113	172	10,200
May	133	33	75.0	4,610
June	41	7.5	21.4	1,270
July	7	.9	2.76	170
August	.9	.3	.55	33.5
September	2.1	.3	.57	33.9
The year	521	.3	49.7	36,000

Dinkey Creek at mouth, Calif.

Location.- Water-stage recorder in sec. 3, T. 12 S., R. 26 E. (unsurveyed), half a mile above mouth. Altitude, about 1,310 feet.

Drainage area.- 136 square miles.

Records available.- January 1920 to September 1934.

Average discharge.- 13 years (1921-34), 161 second-feet.

Extremes.- Maximum discharge during year, 1,930 second-feet Dec. 13 (gage height, 9.24 feet); minimum, 1.4 second-feet Sept. 6-13, 16-22.
1920-34: Maximum discharge, 3,360 second-feet Nov. 9, 1924 (gage height, 10.57 feet); minimum, 0.9 second-foot Aug. 26-30, 1931.

Remarks.- Records good. Discharge interpolated Jan. 19. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	26	8	498	97	124	330	185	56	14	3.3	1.9
2	4.8	16	8	214	103	164	291	176	50	13	3.1	1.7
3	5	14	9.5	158	103	206	241	179	46	12	3.1	1.6
4	5	12	13	132	95	234	230	159	44	11	3.0	1.5
5	4.6	11	11	112	92	261	239	172	53	10	3.0	1.5
6	4.4	10	10	100	119	263	256	179	79	9.5	2.8	1.4
7	4.2	9.5	10	95	109	261	284	179	65	9.5	2.8	1.4
8	4.2	9	10	90	107	243	324	168	56	9	2.6	1.4
9	4.4	8.5	10	83	100	222	335	151	61	9	2.5	1.4
10	4.6	8.5	11	81	90	226	319	144	54	8	2.3	1.4
11	5	8.5	11	74	80	222	314	136	45	8	2.2	1.4
12	5	8	724	73	81	241	306	130	39	7.5	2.2	1.4
13	5	6	971	69	80	248	327	121	38	7	2.1	1.4
14	5	8	202	68	77	270	330	109	40	6.5	2.0	1.5
15	5	8	114	64	85	286	335	99	39	6.5	1.9	1.5
16	4.6	8.5	80	64	90	288	314	90	36	6.5	1.9	1.4
17	4.6	8	75	67	87	314	296	83	32	6	1.9	1.4
18	4.4	8	74	65	90	308	286	76	31	6	1.8	1.4
19	4.4	8	67	64	114	263	267	72	29	5.5	1.7	1.4
20	4.4	8	64	64	106	243	272	66	27	5.5	1.6	1.4
21	4.4	8	65	61	99	265	279	62	26	5	1.6	1.4
22	4.4	8	71	63	91	256	274	57	24	5	1.6	1.4
23	4.5	7.5	75	71	135	265	270	54	22	5	1.6	1.6
24	4.6	7.5	76	68	118	265	237	51	21	5	1.6	3.0
25	4.4	7.5	74	67	109	275	212	51	20	4.8	1.6	5
26	4.6	7	78	59	135	270	206	76	19	4.6	1.6	5
27	4.8	7	76	61	121	298	202	79	19	4.0	1.7	4.2
28	4.8	8	76	63	106	308	190	62	18	3.9	2.0	3.7
29	4.8	8	77	69		346	183	106	16	3.7	2.4	3.1
30	6	8	75	74		358	172	86	15	3.5	2.3	3.0
31	81		74	85		324		65		3.5	2.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	81	4.2	7.17	441
November	26	7	9.40	559
December	971	8	106	6,520
January	498	59	96.0	5,900
February	135	77	101	5,610
March	358	124	262	16,100
April	335	172	271	16,100
May	185	51	110	6,760
June	79	15	37.4	2,230
July	14	3.5	7.03	432
August	3.3	1.6	2.19	135
September	5	1.4	2.03	121
The year	971	1.4	84.2	60,900

Deer Creek below East Fork, Calif.

Location.- Water-stage recorder in sec. 6, T. 11 S., R. 27 E., 100 feet above proposed dam and about 200 feet below mouth of East Fork. Altitude, about 6,700 feet.

Drainage area.- 21.1 square miles.

Records available.- October 1923 to September 1934.

Extremes.- Maximum discharge during year, 134 second-feet Apr. 8 (gage height, 5.05 feet); minimum, 0.1 second-foot Sept. 2-8.
1923-34: Maximum discharge, 860 second-feet May 16, 1932 (gage height, 7.02 feet); minimum, 0.1 second-foot Aug. 9-11, 1931, Sept. 2-8, 1934.

Remarks.- Records good. Discharge estimated on account of ice Nov. 29 to Dec. 7; no record Dec. 8 to Mar. 13. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	2.0	1.3				70	33	9	1.5	0.4	0.2
2	.7	1.8	1.3				60	36	8.5	1.3	.4	.1
3	.7	1.5	1.3				50	30	8	1.1	.4	.1
4	.6	1.3	1.2				50	26	8	1.1	.4	.1
5	.6	1.1	1.1				56	23	12	.9	.4	.1
6	.5	.9	1.0				61	21	13	.9	.4	.1
7	.6	.9	1.0				70	20	12	.9	.4	.1
8	.6	.9					78	18	11	.9	.4	.1
9	.6	.7					75	17	9.5	.9	.4	.2
10	.7	.7					72	17	9	.9	.4	.2
11	.7	.7					70	15	8	.9	.3	.2
12	.9	.7					75	14	7	.9	.3	.2
13	.9	.9					75	13	6.5	.9	.4	.2
14	.9	.9				64	78	13	6.5	.9	.4	.2
15	.9	.7				64	72	13	5	.9	.3	.2
16	1.1	.9				69	66	12	4.5	.9	.3	.2
17	.9	.7				75	61	12	4.5	.9	.3	.2
18	.9	.7				67	57	12	4.0	.9	.3	.2
19	.9	.7				56	56	11	4.0	.7	.3	.2
20	.9	.7				57	56	10	4.0	.6	.3	.3
21	.7	.7				61	54	9.5	3.5	.6	.2	.3
22	.7	.9				61	50	9.5	3.5	.6	.2	.3
23	.6	.9				61	50	9	3.0	.6	.2	.5
24	.6	.9				66	43	8	2.5	.5	.2	.7
25	.6	.9				67	38	9.5	2.5	.5	.2	.5
26	.6	.9				70	37	16	2.0	.4	.2	.4
27	.6	.9				72	32	13	2.0	.4	.4	.3
28	.6	.9				80	30	14	1.7	.4	.2	.3
29	.6	.9				81	27	18	1.7	.4	.2	.2
30	8.5	1.0				77	25	12	1.5	.4	.2	.2
31	6					77		10		.4	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	8.5	0.5	1.14	70.1
November	2.0	.7	.94	56.1
December 1-7			1.17	16
January				
February				
March 14-31			68.1	2,430
April	78	25	56.5	3,360
May	36	8	16.0	984
June	13	1.5	5.93	353
July	1.5	.4	.78	47.8
August	.4	.2	.31	19.1
September	.7	.1	.24	14.1

Los Gatos Creek near Coalinga, Calif.

Location.- Water-stage recorder in SW¼ sec. 4, T. 20 S., R. 14 E., at mouth of canyon 7½ miles northwest of Coalinga. Altitude, about 1,000 feet.

Drainage area.- 105 square miles.

Records available.- October 1931 to September 1934.

Extremes.- Maximum discharge during year, about 500 second-feet Dec. 31 (gage height, 3.15 feet); no flow several months.
1931-34: Maximum discharge, about 1,050 second-feet Dec. 28, 1931 (gage height, 4.66 feet, present datum); no flow several months each year.

Remarks.- Records poor. Discharge estimated on basis of partial gage-height graph for Dec. 31, Jan. 1, Feb. 23, 24, discharge measurement on Feb. 25, and field estimates of discharge on Jan. 10, Feb. 17, Apr. 11. No diversions or regulation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	40								
2			0	10								
3			0	5								
4			0	3								
5			0	2								
6			0	1								
7			0	.8								
8			0	.6								
9			0	.4								
10			0	.2								
11			0									
12			0		0.1							
13			0									
14			0									
15			0									
16			0									
17			0									
18			0									
19			0									
20			0									
21			0	.15								
22			0									
23			0		75							
24			0		40							
25			0		3							
26			0		2							
27			0		1.5							
28			0		1							
29			0									
30			0									
31			50									

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	50	0	1.61	99.0
January	40		2.13	131
February	75		4.45	247
March			.10	6.1
April			.05	3.0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	75	0	.67	486

Note.- Discharge estimated. No flow during months left blank.

Florence Lake near Big Creek, Calif.

Location.- Water-stage recorder in SE¼ sec. 36, T. 7 S., R. 27 E., in gate house of Florence Lake Tunnel, 16 miles northeast of Big Creek.

Records available.- November 1925 to September 1934.

Remarks.- Florence Lake on South Fork of San Joaquin River is one of main storage units of Big Creek system of Southern California Edison Co., Ltd.; capacity, 64,406 acre-feet. Crest of dam is 7,329 feet above mean sea level. Released water flows through Florence Lake Tunnel into Huntington Lake. Record of daily contents shows available storage and is furnished by Southern California Edison Co., Ltd.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21,440	519	87	132	130	136	372	12,395	42,014	15,823	513	371
2	20,451	404	88	148	134	151	343	13,070	41,368	14,636	530	272
3	19,468	324	86	163	135	169	313	13,765	40,718	13,530	577	240
4	18,490	274	80	158	132	189	298	14,729	40,071	12,406	588	227
5	17,528	253	85	149	131	207	296	16,020	39,477	11,284	578	219
6	16,574	223	89	145	130	211	319	17,593	38,893	10,172	558	211
7	15,634	185	86	140	126	218	384	19,167	38,353	9,030	528	205
8	14,679	162	85	133	127	208	478	20,668	37,832	7,897	495	198
9	13,669	148	83	130	124	207	547	22,227	37,320	6,804	487	192
10	12,677	141	81	126	122	208	610	23,915	36,843	5,753	488	186
11	11,683	135	83	122	121	211	670	25,547	36,351	4,700	488	179
12	10,720	130	151	119	117	227	740	27,201	35,940	3,695	498	170
13	9,756	128	120	117	114	240	850	28,835	35,602	2,752	506	161
14	8,768	125	107	115	111	261	966	30,353	35,256	2,061	504	155
15	8,027	119	118	115	114	286	1,002	31,807	34,990	1,458	497	150
16	7,376	113	137	114	118	294	996	33,087	34,732	1,105	485	146
17	6,734	110	156	114	122	302	997	34,264	33,876	864	486	144
18	6,102	121	159	114	120	305	1,144	35,342	32,656	668	496	142
19	5,443	146	150	113	122	280	1,164	36,375	31,380	592	506	141
20	4,741	130	141	112	122	256	1,787	37,471	30,090	581	514	141
21	4,011	105	136	113	120	246	3,024	38,539	28,798	565	533	138
22	3,216	97	132	114	118	244	4,442	39,672	27,544	537	574	137
23	2,433	94	128	117	127	256	5,689	40,677	26,378	505	548	140
24	1,655	91	123	117	132	287	6,416	41,525	25,145	509	526	139
25	944	88	120	117	131	292	7,224	42,229	23,858	523	528	137
26	687	86	119	116	134	291	8,079	42,888	22,484	521	545	134
27	608	86	117	117	134	310	9,020	43,423	21,090	516	626	131
28	600	82	117	118	134	351	9,938	43,894	19,702	532	592	127
29	594	85	115	120		376	10,856	43,785	18,358	602	564	123
30	610	81	114	123		389	11,643	43,222	17,081	683	546	120
31	599		133	127		376		42,646		583	518	

Note.- Contents on Sept. 30, 1933, was 22,449 acre-feet.

South Fork of San Joaquin River near Florence Lake, Calif.

Location.- Water-stage recorder in sec. 36, T. 7 S., R. 27 E., just below spillway of Florence Lake Dam and 6 miles above mouth of Bear Creek. Altitude, about 7,200 feet.

Drainage area.- 171 square miles.

Records available.- December 1921 to September 1934.

Extremes.- Maximum discharge during year, 464 second-feet Apr. 19-20 (gage height, 10.64 feet); minimum, 0.1 second-foot several days in January, April, May, June, and July.

1921-34: Maximum discharge, 3,460 second-feet June 4, 1922 (gage height, 13.75 feet); practically no flow Aug. 30, Sept. 2-7, 1924, Dec. 16-17, 1925.

Remarks.- Records good. Storage and diversion above station (see records for Florence Lake and Florence Lake Tunnel at intake). Gage-height record and results of discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	0.5	1.5	0.7	0.2	0.3	0.3	*0.1	0.1	0.5	0.7	0.5
2	1.1	.5	1.5	.3	.2	.3	.5	*.1	.1	.5	.7	.5
3	1.1	.7	1.3	.3	.2	.5	.5	*.1	.2	.5	.7	.3
4	1.1	.7	1.1	.3	.3	.5	.7	*.1	.2	.5	.7	.3
5	1.1	.9	1.5	.3	.3	.5	.5	*.1	.2	.5	.7	.5
6	1.1	.9	1.5	.3	.7	.5	.2	*.1	.2	.3	.7	.5
7	1.1	1.1	1.1	.2	.3	.5	.1	*.1	.1	.3	.7	.5
8	1.1	1.1	.9	.2	.5	.3	.1	*.1	.1	.3	.7	.7
9	1.1	.9	.7	.2	.3	.2	.1	*.1	.1	.2	.7	.7
10	1.1	.9	.7	.2	.2	.2	.1	*.1	.5	.2	.9	.7
11	1.1	.9	.7	.2	.2	.2	.1	.1	.5	.2	.9	.7
12	1.1	1.1	4.7	.2	.2	.2	*.1	.1	.5	.2	.9	.7
13	.9	1.1	2.3	.2	.2	.2	*.1	.1	.5	.2	1.1	.7
14	.9	1.1	.9	.1	.2	.2	.1	.1	.5	.2	1.1	.7
15	.9	1.1	.5	.1	.2	.2	*.1	.1	.5	.1	1.1	.7
16	.9	1.1	.3	.1	.3	.2	*.1	.1	.5	.1	1.1	.7
17	.9	.9	.3	.1	.2	.2	*.1	.1	.5	.1	.9	.7
18	.9	.9	.3	.1	.3	.2	*.1	.1	.5	.1	.9	.7
19	.9	.9	.3	.1	.3	.2	179	.1	.5	.1	.9	.7
20	.9	1.1	.2	.1	.3	.3	229	.1	.5	.1	.9	.7
21	.9	1.3	.2	.2	.2	.2	.1	.1	.5	.1	.9	.7
22	.9	1.3	.3	.2	.2	.2	*.1	.1	.5	.1	.9	.7
23	.9	1.3	.3	.2	.7	.2	*.1	.1	.5	.1	.9	.7
24	.9	1.3	.3	.2	.5	.2	*.1	.1	.5	.2	.7	.7
25	.7	1.3	.2	.2	.3	.2	*.1	.2	.7	.3	.7	.7
26	.7	1.3	.2	.2	.5	.2	*.1	.2	.7	.7	.9	.7
27	.7	1.3	.2	.2	.3	.2	*.1	.2	.7	.7	1.1	.7
28	.7	1.3	.2	.2	.2	.2	*.1	.2	.7	.7	.7	.7
29	.7	1.3	.2	.2		.2	*.1	.2	.5	.7	.5	.7
30	1.1	1.3	.2	.2		.3	*.1	.1	.5	.7	.5	.5
31	.7		.3	.2		.3		.1		.7	.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.1	0.7	0.95	58.1
November	1.3	.5	1.05	62.5
December	4.7	.2	.80	49.4
January	.7	.1	.21	12.9
February	.7	.2	.30	16.9
March	.5	.2	.27	16.5
April	229	.1	13.8	821
May	.2	.1	.12	7.1
June	.7	.1	.42	25.0
July	.7	.1	.33	20.2
August	1.1	.5	.82	50.2
September	.7	.3	.63	37.7
The year	229	.1	1.62	1,180

*Estimated.

San Joaquin River above Big Creek, Calif.

Location.- Water-stage recorder in NW¼ sec. 11, T. 8 S., R. 24 E., 3 miles above mouth of Big Creek. Altitude, about 2,500 feet.

Drainage area.- 1,042 square miles (revised).

Records available.- March 1922 to September 1934.

Average discharge.- 12 years (1922-34), 1,050 second-feet.

Extremes.- Maximum discharge during year, 2,940 second-feet Dec. 13 (gage height, 11.78 feet); minimum, 55 second-feet Sept. 18.
1922-34: Maximum discharge, 18,000 second-feet June 5, 1922 (gage height, 17.34 feet); minimum, 52 second-feet Sept. 24-25, 1931.

Remarks.- Records good. Large diversions and storage on South Fork San Joaquin River and tributaries. Gage-height record and results of discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	161	77	1,520	372	632	1,520	1,120	560	335	146	92
2	72	125	66	895	394	700	1,340	1,090	494	332	134	86
3	74	119	90	655	412	840	1,090	1,150	458	332	125	83
4	76	110	125	572	404	978	978	1,280	438	338	117	81
5	74	102	101	498	394	1,120	978	1,480	478	312	110	78
6	72	93	92	446	408	1,120	1,090	1,730	606	282	104	76
7	71	88	102	412	416	1,120	1,310	1,770	655	256	99	74
8	71	88	101	386	423	978	1,590	1,700	745	238	95	70
9	72	88	96	355	454	950	1,700	1,520	745	217	90	69
10	72	86	96	345	397	950	1,660	1,560	722	201	86	66
11	72	86	99	332	358	922	1,770	1,560	655	191	83	65
12	71	85	747	312	341	922	1,660	1,590	632	189	82	63
13	71	85	2,130	303	335	978	1,810	1,590	655	191	80	62
14	70	83	722	294	328	1,090	1,850	1,420	678	189	80	60
15	69	85	435	285	341	1,210	2,050	1,310	632	179	77	59
16	68	85	338	279	446	1,210	1,970	1,210	655	168	75	57
17	67	85	306	279	438	1,240	1,770	1,090	655	161	74	56
18	67	82	322	282	416	1,280	1,700	1,000	678	157	70	55
19	66	80	306	276	498	1,180	1,730	922	815	152	69	56
20	66	80	282	282	593	978	2,170	922	632	148	69	56
21	66	80	273	276	514	978	2,250	922	572	144	70	57
22	66	80	279	276	458	950	1,930	922	560	138	70	59
23	67	80	288	297	722	1,030	1,770	868	568	132	75	60
24	67	80	288	312	722	1,120	1,520	790	539	125	75	88
25	66	80	282	285	632	1,180	1,240	678	470	123	71	106
26	66	80	276	282	768	1,150	1,210	678	408	119	71	99
27	66	78	276	285	745	1,240	1,340	722	348	114	80	96
28	66	80	276	306	632	1,310	1,340	610	328	109	188	95
29	67	81	276	322		1,480	1,280	700	322	109	152	93
30	76	76	319	335		1,620	1,180	745	328	121	119	92
31	207		359	348		1,520		632		146	101	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	207	66	74.0	4,550
November	161	76	89.7	5,340
December	2,130	77	318	19,600
January	1,520	276	398	24,500
February	768	328	477	26,500
March	1,620	632	1,100	67,600
April	2,250	978	1,560	92,800
May	1,770	610	1,140	70,100
June	815	322	568	33,800
July	338	109	192	11,800
August	188	69	94.7	5,820
September	106	55	73.6	4,380
The year	2,250	55	506	367,000

San Joaquin River near Friant, Calif.

Location.- Water-stage recorder in NE¼ sec. 5, T. 11 S., R. 21 E., 1⅛ miles northeast of Friant. Altitude, about 320 feet.

Drainage area.- 1,632 square miles (revised).

Records available.- October 1907 to September 1934.

Average discharge.- 26 years (1908-34), 2,220 second-feet.

Extremes.- Maximum discharge during year, 5,290 second-feet Dec. 13 (gage height, 9.25 feet); minimum, 70 second-feet Sept. 10 and 17.
1907-34: Maximum discharge, about 46,200 second-feet Jan. 25, 1914 (gage height, 21.72 feet); minimum, 44 second-feet Sept. 15, 1924, Sept. 14, Oct. 12, 1931.

Remarks.- Records excellent. There are four storage reservoirs and six power plants above station. See records for Florence Lake, Huntington Lake, and Shaver Lake. Storage in Crane Valley Reservoir was 24,945 acre-feet on Sept. 30, 1933, and 26,831 acre-feet on Sept. 30, 1934.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	940	464	752	2,010	1,170	1,420	2,000	1,800	1,280	1,030	981	610
2	847	348	912	2,600	1,140	1,300	1,960	1,660	1,130	1,000	935	553
3	740	332	928	1,670	1,150	1,170	1,960	1,690	820	1,140	950	533
4	734	336	958	1,440	997	1,370	1,800	1,720	992	1,020	898	475
5	806	412	1,020	1,360	990	1,800	1,800	1,800	1,000	1,100	693	550
6	780	284	1,020	1,210	1,130	1,890	1,450	1,920	1,080	1,070	983	505
7	751	386	1,050	1,070	1,190	1,700	1,760	2,040	1,170	1,090	852	451
8	660	347	962	1,080	1,250	1,580	1,840	2,200	1,290	1,030	895	500
9	554	366	938	1,170	1,260	1,610	1,840	2,080	1,430	1,080	672	604
10	764	364	582	1,150	1,190	1,520	2,040	2,000	1,250	1,100	960	106
11	694	380	622	1,130	624	1,280	2,120	1,960	1,340	1,130	871	366
12	709	397	1,220	1,160	1,040	1,560	2,160	2,000	1,140	1,100	734	453
13	675	324	2,970	1,120	1,160	1,480	2,080	2,080	1,210	1,100	945	399
14	649	386	2,300	878	1,140	1,690	2,420	2,000	1,440	1,060	875	396
15	626	360	1,180	972	1,220	1,570	2,510	1,920	1,340	1,060	973	530
16	416	390	1,440	1,020	1,250	1,630	2,420	1,840	1,330	1,040	766	333
17	456	573	1,020	1,100	1,380	1,760	2,420	1,760	1,370	1,120	750	254
18	482	654	1,030	1,090	1,060	1,870	2,280	1,580	1,420	1,070	744	485
19	486	540	1,130	1,140	1,200	1,690	2,280	1,520	1,370	1,100	698	277
20	455	434	1,080	1,060	1,780	1,610	2,700	1,440	1,560	1,080	760	312
21	478	691	1,040	827	1,280	1,600	3,140	1,550	1,200	1,060	800	324
22	438	661	1,080	921	1,410	1,580	2,600	1,580	1,160	1,080	752	353
23	423	640	1,070	1,060	1,920	1,510	2,200	1,550	1,250	1,000	770	515
24	394	475	616	1,100	1,760	1,660	2,240	1,540	1,190	1,080	770	303
25	554	610	732	1,100	1,580	1,660	2,000	1,540	1,170	1,010	676	531
26	372	528	1,000	1,120	1,680	1,660	1,800	1,340	1,060	1,040	660	412
27	509	480	1,130	1,100	1,830	1,620	1,840	1,420	1,020	934	876	240
28	477	638	1,150	874	1,690	1,840	1,800	1,390	969	661	723	250
29	400	862	1,110	946		1,840	1,840	1,130	1,060	1,050	810	325
30	394	900	1,040	1,120		1,920	1,800	1,340	1,070	954	772	328
31	474		980	1,140		2,120		1,400		921	604	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	940	372	585	36,000
November	900	284	485	28,900
December	2,970	582	1,100	67,600
January	2,600	827	1,190	73,200
February	1,920	824	1,310	72,800
March	2,120	1,170	1,630	100,000
April	3,140	1,450	2,100	125,000
May	2,200	1,130	1,700	105,000
June	1,560	820	1,200	71,400
July	1,140	861	1,050	64,600
August	983	604	819	50,400
September	610	106	409	24,300
The year	3,140	106	1,130	819,000

San Joaquin River near Newman, Calif.

Location.- Water-stage recorder in SW¼ sec. 3, T. 7 S., R. 9 E., at highway bridge on Hills Ferry road 300 feet below mouth of Merced River and 3½ miles northeast of Newman. Elevation of zero of gage is 51.0 feet, United States Army Engineers datum.

Records available.- April 1912 to September 1934.

Average discharge.- 22 years (1912-34), 2,100 second-feet.

Extremes.- Maximum discharge during year, 2,300 second-feet Jan. 3 (gage height, 6.62 feet); minimum, 53 second-feet Sept. 1 (gage height, 1.00 foot).
1912-34: Maximum discharge, 20,700 second-feet Jan. 27, 1914 (gage height, 18.0 feet); minimum, 15 second-feet Aug. 9, 10, 1924.

Remarks.- Records good except those for June 19, Sept. 15-20, which were estimated. Practically entire flow of main river and tributaries is diverted during irrigation season, and low-water records show mainly amount of return water.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	210	175	171	1,100	1,140	1,720	362	195	188	148	94	62
2	231	173	171	1,520	1,140	1,570	385	198	188	144	102	70
3	236	168	175	2,240	1,120	1,420	369	213	188	137	120	76
4	243	168	180	2,060	1,140	1,190	375	226	180	135	107	70
5	229	164	180	2,000	1,190	980	347	203	190	144	118	80
6	219	164	182	1,940	1,240	860	326	198	211	124	118	64
7	217	164	184	2,000	1,240	763	320	208	221	126	104	70
8	210	164	187	1,940	1,240	687	302	198	229	144	100	76
9	207	162	187	1,770	1,240	649	288	219	219	148	104	86
10	189	159	187	1,620	1,170	649	296	229	189	131	98	109
11	189	159	187	1,520	1,170	592	290	216	182	115	92	118
12	187	162	194	1,470	1,170	574	276	198	184	111	96	109
13	184	162	198	1,370	1,170	538	282	203	187	107	104	100
14	198	162	207	1,280	1,170	520	296	203	178	120	88	92
15	222	164	231	1,280	1,120	503	296	178	182	135	82	90
16	222	166	326	1,240	960	486	268	166	187	157	70	90
17	194	166	342	1,240	880	486	237	166	180	151	86	85
18	175	166	334	1,240	820	520	229	164	189	137	82	90
19	168	166	354	1,190	725	503	219	159	192	133	88	90
20	164	166	354	1,140	668	469	208	166	196	118	90	95
21	162	164	438	1,140	1,000	486	203	180	178	98	88	88
22	159	159	438	1,140	960	520	221	173	159	131	84	90
23	157	162	438	1,140	880	486	221	166	164	137	88	100
24	159	164	454	1,120	860	503	206	178	168	148	70	120
25	159	166	470	1,100	960	469	195	178	187	142	72	133
26	159	166	503	1,080	1,420	436	193	203	189	137	90	129
27	162	168	520	1,040	1,720	420	188	213	162	153	107	109
28	164	175	574	1,040	1,770	417	183	221	153	133	88	100
29	162	168	630	1,080		420	188	206	148	131	76	107
30	166	175	706	1,120		398	193	237	146	131	68	118
31	173		860	1,140		372		211		113	70	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	243	157	190	11,700
November	175	159	166	9,880
December	860	171	341	21,000
January	2,240	1,040	1,400	86,100
February	1,770	668	1,120	62,200
March	1,720	372	665	40,900
April	385	183	265	15,800
May	237	159	196	12,100
June	229	146	184	10,900
July	157	98	133	8,180
August	120	68	91.7	5,640
September	133	62	93.9	5,590
The year	2,240	62	400	290,000

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San Joaquin River near Vernalis, Calif.

Location.- Water-stage recorder in El Pescadero grant, at Durham Ferry highway bridge 3½ miles northeast of Vernalis, San Joaquin County.

Records available.- July 1922 to September 1934; low-water records only 1922-23 and 1925-29.

Extremes.- Maximum discharge during year, 4,260 second-feet Jan. 3 (gage height, 10.20 feet); minimum, 308 second-feet Aug. 17.
1922-34: Maximum discharge determined, 18,200 second-feet May 31, 1932 (gage height, 21.58 feet); minimum, 184 second-feet Aug. 14, 1931.

Remarks.- Records good. Discharge estimated Dec. 17 to Jan. 10, May 16 to June 3. Practically entire flow of main river and tributaries is diverted during irrigation season, and low-water records show mainly amount of return water.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,370	1,630	1,470	3,700	2,150	2,740	1,160	522	685	462	349	437
2	1,370	1,560	1,400	3,950	2,220	2,540	1,100	558	640	473	349	476
3	1,400	1,630	1,370	4,200	2,220	2,410	1,100	586	620	422	346	487
4	1,400	1,630	1,400	4,100	2,150	2,340	1,040	604	627	426	370	487
5	1,400	1,600	1,400	3,900	2,150	2,150	950	635	646	433	380	480
6	1,440	1,630	1,530	3,500	2,150	1,960	950	645	684	440	373	444
7	1,400	1,500	1,760	3,300	2,220	1,820	895	675	703	448	373	444
8	1,440	1,530	1,760	3,150	2,220	1,700	840	710	722	440	373	458
9	1,500	1,530	1,760	3,000	2,220	1,630	785	665	722	430	373	466
10	1,500	1,530	1,760	2,900	2,280	1,530	760	655	722	394	356	484
11	1,890	1,500	1,760	2,810	2,220	1,530	710	685	722	370	346	505
12	1,700	1,530	1,630	2,670	2,220	1,500	690	705	684	342	346	512
13	1,760	1,530	1,630	2,600	2,150	1,530	670	665	684	336	353	516
14	1,960	1,500	1,760	2,540	2,150	1,560	612	695	665	339	366	509
15	2,020	1,500	1,820	2,480	2,150	1,530	617	690	646	349	356	494
16	1,760	1,530	1,960	2,410	2,150	1,470	640	620	627	359	339	516
17	1,700	1,530	2,500	2,410	2,080	1,400	626	600	627	376	315	527
18	1,600	1,530	2,850	2,540	2,080	1,370	576	600	627	387	339	523
19	1,470	1,530	2,500	2,410	2,080	1,370	576	560	627	387	349	516
20	1,470	1,530	2,900	2,340	2,080	1,500	568	560	608	380	366	491
21	1,440	1,470	3,300	2,280	2,280	1,760	522	600	608	380	349	469
22	1,400	1,530	3,500	2,280	2,740	1,700	536	640	608	370	349	466
23	1,400	1,500	3,500	2,220	2,480	1,760	599	600	559	383	366	480
24	1,440	1,500	3,600	2,220	2,220	1,700	563	560	520	412	404	505
25	1,440	1,500	3,500	2,220	2,410	1,560	540	600	538	415	422	545
26	1,400	1,500	3,300	2,220	2,220	1,560	514	620	563	412	469	559
27	1,400	1,500	3,400	2,220	2,280	1,500	480	665	570	408	487	563
28	1,440	1,530	3,350	2,150	2,740	1,530	468	685	548	383	516	559
29	1,470	1,470	3,300	2,150		1,400	472	805	509	390	487	559
30	1,560	1,470	3,450	2,080		1,280	500	710	498	356	473	538
31	1,600		3,550	2,150		1,220		685		363	448	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,020	1,370	1,530	94,100
November	1,630	1,470	1,530	91,000
December	3,600	1,370	2,410	148,000
January	4,200	2,080	2,750	169,000
February	2,740	2,080	2,240	124,000
March	2,740	1,220	1,700	105,000
April	1,160	468	702	41,800
May	805	522	639	39,300
June	722	498	627	37,300
July	473	336	395	24,300
August	516	315	383	23,600
September	563	437	500	29,800
The year	4,200	315	1,280	927,000

Florence Lake Tunnel at intake, Calif.

Location.- Water-stage recorders and Venturi meter in SE¼ sec. 36, T. 7 S., R. 27 E., in gate house at entrance of tunnel. Altitude, about 7,350 feet.

Records available.- April 1925 to September 1934.

Extremes.- Maximum mean daily discharge during year, 992 second-feet June 18; no flow Nov. 19 and part of Nov. 17 and 18.
1925-34: Maximum mean daily discharge, 1,990 second-feet Apr. 30, 1926; no flow at times.

Remarks.- Records good. Discharge estimated Feb. 21 and Sept. 12-30. Florence Lake Tunnel diverts water from Florence Lake, a storage reservoir on South Fork of San Joaquin River, to Huntington Lake for use in Big Creek power plants of Southern California Edison Co., Ltd., who furnished gage-height record and results of discharge measurements.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	520	70	11	50	47	51	209	0.3	510	830	198	147
2	516	82	16	52	51	57	198	.4	506	816	137	130
3	508	67	16	70	53	70	174	.3	504	802	100	90
4	505	50	14	74	51	82	160	.3	502	790	102	74
5	499	30	12	67	50	98	158	.3	499	777	104	68
6	491	31	17	61	50	106	165	.3	497	763	102	63
7	486	40	16	60	47	111	192	.3	497	745	99	60
8	492	29	13	53	47	107	238	.3	495	718	93	56
9	518	22	14	48	43	104	289	.3	493	690	81	53
10	514	18	15	48	40	105	320	.3	491	658	71	50
11	520	16	14	43	38	105	353	.3	489	623	66	46
12	512	15	32	41	37	112	378	.3	486	588	59	43
13	502	15	52	38	36	119	410	.3	486	550	59	38
14	508	15	33	37	36	128	441	.4	484	493	59	36
15	396	15	32	35	36	145	499	.4	482	436	59	30
16	332	13	41	35	36	158	484	.4	480	304	59	29
17	332	12	56	36	37	163	465	.4	750	237	50	29
18	329	5.5	67	36	42	170	478	.4	992	214	46	28
19	336	0	66	36	42	163	290	.4	983	146	46	27
20	331	18	57	35	43	144	.1	.5	972	108	47	29
21	334	20	51	34	41	129	.1	.5	964	107	46	30
22	358	13	49	35	39	126	.1	.5	952	106	48	28
23	400	11	46	37	41	129	.2	.5	942	103	68	30
24	412	10	43	38	45	140	.2	.5	930	85	67	33
25	389	10	39	38	47	159	.2	.6	921	77	51	33
26	152	9.5	38	38	50	159	.2	.6	911	77	51	32
27	58	10	37	38	51	163	.2	.5	895	76	80	29
28	22	11	36	39	50	180	.3	.5	880	74	126	29
29	22	8	35	40		204	.3	253	863	76	109	25
30	22	8	35	42		217	.3	516	844	152	93	24
31	38		37	44		213		510		240	92	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	520	22	366	22,500
November	82	0	22.5	1,340
December	67	11	33.5	2,060
January	74	34	44.5	2,740
February	53	36	43.8	2,430
March	217	51	133	8,180
April	499	.1	197	11,700
May	516	.3	41.6	2,560
June	992	480	690	41,100
July	830	74	402	24,700
August	198	46	79.6	4,890
September	147	24	47.2	2,810
The year	992	0	175	127,000

Florence Lake Tunnel at outlet, Calif.

Location.- Water-stage recorder in SE¼ sec. 5, T. 8 S., R. 26 E., just above tunnel outlet at east end of Huntington Lake, 6 miles northeast of Big Creek. Altitude, about 7,200 feet.

Records available.- November 1927 to September 1934.

Extremes.- Maximum mean daily discharge during year, 1,370 second-feet June 18; minimum, 21 second-feet Nov. 19.
1927-34: Maximum mean daily discharge, 1,840 second-feet Nov. 20-21, 1927, May 30, 1928; minimum, 3.2 second-feet Oct. 23, 1929.

Remarks.- Records excellent. Tunnel diverts water from Florence Lake to Huntington Lake (see Florence Lake Tunnel at intake). Between intake and outlet tunnel receives water diverted from Bear Creek, Mono Creek, and at times from several other very small tributaries of South Fork of San Joaquin River. Gage-height record and results of discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	555	98	39	106	124	134	439	313	691	1,030	316	221
2	552	145	46	112	132	146	408	287	679	1,010	257	219
3	545	110	46	150	134	183	361	287	670	1,010	196	164
4	539	97	42	158	129	207	338	323	667	985	190	141
5	533	65	40	144	124	242	336	409	689	952	183	131
6	525	60	51	134	125	241	358	525	706	920	176	123
7	518	82	49	128	120	251	419	560	701	890	170	115
8	520	68	45	120	120	241	517	553	730	852	161	108
9	552	57	47	111	111	237	604	553	718	814	145	103
10	547	52	48	110	106	243	650	607	711	772	131	96
11	555	49	48	103	102	247	713	602	699	735	122	91
12	545	46	63	101	102	263	749	638	716	703	112	87
13	536	48	91	97	103	278	787	624	778	667	110	81
14	539	48	68	95	101	300	846	571	758	606	110	76
15	435	48	69	93	98	329	954	547	769	542	108	70
16	362	45	81	92	100	340	952	494	785	418	105	66
17	365	42	112	94	100	354	880	445	1,070	335	96	65
18	361	35	147	93	114	368	901	410	1,370	310	89	64
19	366	21	142	93	112	343	698	389	1,320	255	89	63
20	365	35	125	92	113	308	42	388	1,270	201	90	65
21	368	54	117	90	112	295	255	399	1,250	198	93	65
22	387	44	112	94	108	291	444	402	1,240	192	104	63
23	427	40	107	98	110	300	442	376	1,250	183	118	69
24	442	40	103	95	117	309	385	335	1,230	165	124	75
25	426	38	99	99	120	334	340	285	1,160	153	100	75
26	210	38	97	98	124	334	334	285	1,120	150	103	71
27	109	38	96	100	128	354	358	260	1,090	146	165	66
28	50	39	96	103	124	383	367	221	1,060	148	244	63
29	50	30	94	106		430	363	431	1,040	170	209	59
30	52	33	91	110		460	338	718	1,040	325	177	56
31	73		91	117		433		706		382	167	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	555	50	400	24,600
November	145	21	54.8	3,260
December	147	39	80.8	4,970
January	158	90	108	6,640
February	134	98	115	6,390
March	460	134	296	18,200
April	954	42	519	30,900
May	718	221	450	27,700
June	1,370	667	933	55,500
July	1,030	146	523	32,200
August	316	89	147	9,040
September	221	56	93.7	5,580
The year	1,370	21	311	225,000

Bear Creek near Vermilion Valley, Calif.

Location.- Water-stage recorder in sec. 12, T. 7 S., R. 27 E., 2 miles above mouth and 4 miles by trail south of Vermilion Valley, from which it is separated by Bear Ridge. Altitude, about 7,400 feet.

Drainage area.- 53.5 square miles.

Records available.- November 1921 to September 1934.

Average discharge.- 10 years (1922-30, 1932-34), 67.2 second-feet.

Extremes.- Maximum discharge during year, 269 second-feet May 12 (gage height, 4.76 feet); minimum, 2.0 second-feet Nov. 29.
1921-34: Maximum discharge, 857 second-feet June 4, 1922 (gage height, 5.97 feet); minimum, 1.2 second-feet Sept. 29 to Oct. 5, 1924.

Remarks.- Records good except those for Nov. 28 to Jan. 31, which were estimated on account of ice. No storage or diversions above station. Gage-height record and results of discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.0	8	*4.7		21	23	64	95	51	60	42	25
2	4.3	8.5			23	28	55	87	49	62	35	22
3	3.8	7.5			22	35	46	85	46	66	31	20
4	3.5	6.5			18	40	42	106	45	63	27	18
5	3.5	5.5			18	45	44	148	52	56	23	16
6	3.5	5.5			18	38	55	188	55	50	20	14
7	3.5	5.5			17	40	73	198	56	44	18	13
8	3.5	5			17	36	90	190	69	38	16	12
9	3.5	4.6			17	37	98	198	64	35	15	10
10	3.8	4.9			19	37	104	215	66	32	14	10
11	4.0	4.9			18	36	116	210	66	32	13	9
12	4.0	4.6			16	42	120	220	78	31	12	8.5
13	4.0	4.9			15	42	123	212	104	31	11	7.5
14	4.0	5			13	46	142	198	104	31	10	6.5
15	4.0	4.9			13	50	150	186	106	30	9.5	6.5
16	4.0	4.3			16	49	140	168	115	28	9	6
17	3.8	4.0			19	52	138	148	118	26	8.5	6
18	3.8	3.5			16	54	142	138	125	24	8	6
19	3.8	3.8			17	44	144	134	110	23	7.5	6
20	3.8	3.8			17	40	148	134	101	23	7	6
21	3.5	4.0			17	38	146	140	97	21	8	6
22	3.5	4.0			17	37	150	138	97	20	11	6
23	3.5	3.8			17	42	142	130	104	18	10	7.5
24	3.5	4.0			21	43	120	112	97	17	9.5	8.5
25	3.5	3.8			22	45	106	91	83	16	8.5	8
26	3.5	3.8			20	46	108	88	67	16	11	8
27	3.5	4.0			23	51	115	76	56	15	33	7
28	3.5	3.0	*14		22	59	118	64	52	16	29	6.5
29	3.5	2.2				67	116	62	54	41	25	6.5
30	4.0	4.0				70	104	56	57	81	23	6
31	6					62		55		50	20	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	6	3.5	3.79	233
November	6.5	2.2	4.73	281
December			12	738
January			17	1,050
February	23	13	18.2	1,010
March	70	23	44.3	2,720
April	150	42	109	6,490
May	220	55	138	8,480
June	125	45	78.1	4,650
July	81	15	35.4	2,180
August	42	7	16.9	1,040
September	25	6	9.93	591
The year	220	2.2	40.6	29,500

*Discharge measurement.

Mono Creek near Vermilion Valley, Calif.

Location.- Water-stage recorder in sec. 35, T. 6 S., R. 27 E. (unsurveyed), 1 mile below lower end of Vermilion Valley and 6 miles below mouth of North Fork. Altitude, about 7,400 feet.

Drainage area.- 92.0 square miles.

Records available.- November 1921 to September 1934.

Average discharge.- 10 years (1922-30, 1932-34), 118 second-feet.

Extremes.- Maximum discharge during year, 404 second-feet May 12 (gage height, 6.26 feet); minimum, 10 second-feet Nov. 30.
1921-34: Maximum discharge, 1,420 second-feet June 16, 1927, June 22, 1932 (gage height, 6.10 feet); minimum, 7.5 second-feet Dec. 6, 1932.

Remarks.- Records good except those for Nov. 29-30, Dec. 13 to Jan. 31, Feb. 9-13, 17, Mar. 1, which were estimated on account of ice. No storage or diversions above station. Gage-height record and results of discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	22	22		47	44	133	175	105	107	54	37
2	16	24	21		47	45	124	164	101	107	49	35
3	17	24	18		44	56	110	167	96	110	44	33
4	16	21	21		40	60	103	166	94	105	43	31
5	16	18	26		38	73	99	224	112	92	38	28
6	15	21	29		38	71	110	276	121	86	37	28
7	15	20	27		38	75	128	296	121	79	35	26
8	15	20	26		37	73	151	300	138	71	33	24
9	15	19	29		37	73	167	300	131	67	33	23
10	16	18	25		37	77	175	324	124	62	32	22
11	16	18	22		36	81	186	332	121	62	30	20
12	15	18	20		36	86	189	348	131	63	28	20
13	15	19			35	90	195	332	151	63	28	19
14	15	18			35	101	211	308	141	63	28	18
15	15	18			33	110	224	292	141	60	27	18
16	15	18			35	112	214	264	164	54	25	17
17	15	18			36	119	214	238	192	52	23	17
18	15	18			37	121	218	221	189	50	23	16
19	15	20			35	112	214	211	161	49	23	16
20	15	20			36	101	228	211	151	48	23	17
21	15	20	26		35	99	228	214	148	47	27	16
22	15	19			34	99	231	214	148	45	32	17
23	15	17			35	105	235	198	159	42	29	21
24	15	17			42	105	211	181	148	42	28	22
25	15	17			44	105	186	156	128	41	26	23
26	15	16			38	107	186	159	107	38	29	20
27	15	16			49	114	195	141	99	36	53	19
28	15	15			44	124	202	124	94	41	63	18
29	15	15				131	198	121	99	50	50	18
30	16	14				138	184	121	105	88	43	17
31	20					131		116		63	38	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	20	15	15.5	953
November	24	14	18.6	1,110
December			25.2	1,550
January			35	2,150
February	49	33	38.5	2,140
March	138	44	94.8	5,830
April	235	99	182	10,600
May	348	116	223	13,700
June	192	94	131	7,800
July	110	36	64.0	3,940
August	63	23	34.6	2,130
September	37	16	21.9	1,300
The year	348	14	73.7	53,400

Huntington Lake near Big Creek, Calif.

Location.- Water-stage recorder in SW¼ sec. 14, T. 8 S., R. 25 E., at dam no. 1, 2 miles northeast of Big Creek.

Records available.- October 1926 to September 1934.

Remarks.- Huntington Lake on Big Creek is original storage reservoir of Big Creek system of Southern California Edison Co., Ltd.; capacity, 88,834 acre-feet. Crest of dam is 6,952 feet above mean sea level. It receives water from South Fork of San Joaquin River, Bear Creek, and Mono Creek, through Florence Lake Tunnel. Released water is discharged through Big Creek power house no. 1. Surplus water flows through Huntington-Shaver Conduit to Shaver Lake. Record of daily contents shows available storage and is furnished by Southern California Edison Co., Ltd.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	87,633	85,563	66,836	46,930	29,969	14,876	16,698	39,049	46,197	72,780	69,375	44,349
2	87,576	85,506	65,839	46,531	29,414	14,719	17,125	39,099	46,693	73,912	68,720	43,886
3	87,633	85,309	65,087	46,111	28,880	14,595	17,185	39,138	47,298	74,906	67,954	43,365
4	87,661	85,168	64,115	45,684	28,421	14,622	17,161	39,228	47,799	75,706	67,164	43,042
5	87,647	84,732	63,148	45,258	27,930	14,514	17,131	39,814	48,311	76,428	66,432	42,547
6	87,633	84,325	62,223	44,992	27,421	14,427	17,077	40,941	48,818	77,074	65,626	42,011
7	87,604	83,990	61,281	44,715	26,853	14,331	17,626	41,694	49,313	77,666	64,787	41,501
8	87,776	83,640	60,369	44,349	26,330	14,141	18,966	42,361	49,946	78,344	63,978	40,982
9	87,833	83,277	59,511	43,751	25,682	13,967	20,143	43,063	50,413	78,791	63,098	40,538
10	87,876	82,874	58,982	43,188	24,879	13,805	21,352	43,959	50,997	79,186	62,235	40,075
11	87,947	82,666	58,085	42,578	24,299	13,666	22,719	44,739	51,435	79,513	61,355	39,546
12	87,990	82,139	57,775	41,980	23,710	13,558	24,200	45,482	51,888	79,773	60,636	39,019
13	88,033	81,627	57,787	41,379	23,123	13,414	25,690	46,262	52,456	79,923	59,727	38,498
14	88,105	81,159	57,465	40,759	22,550	13,491	27,103	46,811	52,958	80,005	58,813	37,938
15	88,233	80,732	56,780	40,146	22,025	13,723	28,973	47,352	53,405	80,114	57,882	37,328
16	88,205	80,210	56,074	39,506	21,458	13,951	30,520	47,592	53,922	79,910	56,946	36,999
17	88,105	79,295	55,478	38,861	20,866	14,009	31,964	47,679	55,045	79,431	56,027	36,329
18	87,962	78,385	54,779	38,223	20,351	14,336	33,480	47,668	56,710	78,886	55,115	35,759
19	87,862	77,734	54,119	37,561	19,833	14,411	34,605	47,548	58,156	78,235	54,362	35,306
20	87,747	76,818	53,417	36,951	19,358	14,389	34,400	47,505	59,583	77,478	53,382	34,847
21	87,762	75,893	52,683	36,300	18,786	14,204	34,670	47,363	60,988	76,710	52,422	34,410
22	87,762	74,946	51,956	35,674	18,250	14,025	35,589	47,124	62,396	76,120	51,514	33,837
23	87,690	74,045	51,492	35,080	17,817	13,872	36,262	46,811	63,779	75,346	50,637	33,407
24	87,976	73,332	50,907	34,428	17,307	13,857	36,654	46,456	65,125	74,535	49,746	32,952
25	88,062	72,398	50,335	33,782	16,910	14,204	36,922	45,983	66,407	73,700	48,840	32,465
26	87,704	71,772	49,768	33,142	16,499	14,405	37,173	45,631	67,623	72,859	48,147	32,026
27	87,191	70,951	49,181	32,510	16,004	14,616	37,522	45,354	68,694	72,163	47,374	31,671
28	86,680	70,019	48,619	32,080	15,419	14,871	38,193	44,939	69,709	71,419	46,704	31,343
29	86,113	68,874	48,093	31,502		15,352	38,733	44,823	70,679	70,744	45,993	31,106
30	85,830	67,852	47,559	31,010		15,867	38,920	45,269	71,615	70,278	45,258	31,002
31	85,703		47,156	30,503		16,312		45,738		69,902	44,707	

Note.- Contents on Sept. 30, 1933, was 87,647 acre-feet.

Big Creek below Huntington Lake, Calif.

Location.- Water-stage recorder in sec. 23, T. 8 S., R. 25 E., 800 feet above Grouse Creek and 1 mile below Huntington Lake. Altitude, about 8,600 feet.

Records available.- June 1925 to September 1934.

Extremes.- Maximum discharge during year, 8 second-feet Dec. 13 (gage height, 3.00 feet); minimum, 0.2 second-foot Sept. 28-30.
1925-34: Maximum discharge, 2,040 second-feet June 23, 1925 (gage height, 10.3 feet); minimum, 0.1 second-foot Sept. 10-13, Oct. 7-18, Dec. 5-16, 1931.

Remarks.- Records good. Natural flow of Big Creek is regulated at Huntington Lake and during most of year is diverted for use through Big Creek Power House No. 1. Gage-height record and results of discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	1.0	0.7	1.8	0.5	0.6	0.8	0.5	0.4	0.7	0.7	0.5
2	.9	1.0	.7	1.1	.5	.7	.7	.5	.4	.7	.7	.5
3	.9	.9	.7	1.0	.5	.8	.7	.4	.4	.7	.7	.5
4	.8	.8	.7	.9	.5	1.1	.7	.4	.5	.7	.7	.5
5	.9	.8	.6	.8	.6	1.1	.6	.4	.6	.7	.7	.5
6	.8	.8	.6	.7	.6	1.1	.6	.4	.5	.7	.7	.5
7	.8	.8	.6	.7	.6	1.0	.6	.4	.5	.7	.7	.5
8	.8	.8	.6	.7	.6	.9	.5	.4	.6	.7	.6	.4
9	.8	.7	.5	.6	.6	.9	.5	.5	.6	.7	.6	.4
10	.8	.7	.5	.6	.5	.9	.5	.5	.5	.7	.6	.4
11	.8	.7	.5	.6	.5	.9	.4	.5	.6	.8	.6	.4
12	.8	.7	3.8	.6	.4	.9	.4	.5	.6	.8	.6	.4
13	.8	.7	3.8	.6	.4	.9	.4	.5	.6	.8	.6	.4
14	.8	.7	1.2	.5	.4	.9	.4	.5	.6	.8	.6	.4
15	.8	.7	1.0	.5	.5	1.0	.4	.5	.6	.8	.6	.4
16	.8	.7	.9	.5	.5	1.0	.4	.5	.6	.8	.6	.4
17	.8	.7	.8	.5	.5	1.0	.4	.5	.5	.8	.6	.4
18	.8	.7	.8	.5	.6	1.0	.4	.5	.5	.8	.5	.4
19	.8	.7	.8	.5	.6	1.0	.4	.4	.6	.8	.5	.4
20	.8	.7	.7	.5	.6	.9	.4	.4	.6	.8	.6	.4
21	.8	.7	.7	.5	.6	.9	.4	.4	.6	.8	.6	.4
22	.8	.7	.7	.5	.6	.8	.4	.4	.6	.8	.6	.3
23	.8	.7	.7	.5	.6	.9	.4	.4	.6	.8	.5	.3
24	.8	.7	.8	.5	.5	1.0	.4	.4	.7	.8	.5	.3
25	.8	.7	.8	.5	.5	1.0	.4	.4	.7	.8	.5	.3
26	.8	.7	.7	.5	.5	.9	.4	.5	.7	.8	.6	.3
27	.8	.7	.7	.5	.5	.9	.4	.5	.7	.8	.6	.3
28	.8	.7	.7	.5	.5	.8	.4	.5	.7	.7	.5	.2
29	.8	.7	.7	.5		.8	.4	.6	.7	.7	.5	.2
30	1.2	.7	.7	.5		.8	.4	.5	.7	.8	.5	.2
31	1.2		1.0	.5		.8		.5		.8	.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.2	0.8	0.84	51.3
November	1.0	.7	.74	44.2
December	3.8	.5	.93	56.9
January	1.8	.5	.64	39.0
February	.6	.4	.53	29.4
March	1.1	.6	.91	56.0
April	.8	.4	.47	28.1
May	.6	.4	.46	28.3
June	.7	.4	.58	34.7
July	.8	.7	.76	46.8
August	.7	.5	.59	36.5
September	.5	.2	.38	22.8
The year	3.8	.2	.66	474

Pitman Creek below Tamarack Creek, Calif.

Location.- Water-stage recorder in NW¼ sec. 35, T. 8 S., R. 25 E., 500 feet below Tamarack Creek, 3 miles above mouth, and 3 miles southeast of Big Creek. Altitude, about 7,100 feet.

Drainage area.- 22.0 square miles.

Records available.- December 1927 to September 1934.

Extremes.- Maximum discharge during year, 151 second-feet Apr. 14 (gage height, 4.07 feet); minimum, 0.2 second-foot many days in October, August, and September.
1927-34: Maximum discharge, 605 second-feet May 16, 1932 (gage height, 5.93 feet); no flow part of Nov. 24, 1930, and Oct. 15-18, 1931.

Remarks.- Records good except those for period of ice effect, Nov. 19 to Mar. 22, which were estimated; discharge Aug. 8 to Sept. 16 also estimated. No diversions above station; practically all flow diverted to Huntington-Shaver Tunnel just below. Gage-height record and results of discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.7					85	57	16	2.4	0.3	0.2
2	.2	.7	*0.3		*7.8		73	56	15	2.1	.3	.2
3	.2	.6		*5.5			63	55	14	1.8	.3	.2
4	.2	.5					63	54	13	1.5	.2	.2
5	.2	.4					68	57	17	1.1	.2	.2
6	.2	.3					76	57	18	.9	.2	.2
7	.2	.3					88	54	16	.8	.2	.2
8	.2	.3					101	50	16	.7	.2	.2
9	.2	.3					104	46	15	.7	.2	.2
10	.2	.3					105	45	13	.6	.2	.2
11	.2	.3				36	104	42	11	.6	.2	.2
12	.2	.3					105	39	9.5	.5	.2	.2
13	.2	.3					108	35	10	.4	.2	.2
14	.2	.3					113	31	9.5	.4	.2	.2
15	.2	.3					111	28	9.5	.4	.2	.2
16	.2	.3					108	26	8	.4	.2	.2
17	.2	.3					102	24	7.5	.4	.2	.2
18	.2	.3					96	22	7	.4	.2	.2
19	.2						93	20	6.5	.4	.2	.2
20	.2						95	19	6	.4	.2	.2
21	.2						96	17	5.5	.4	.2	.2
22	.2						92	16	5	.4	.2	.2
23	.2					53	94	15	4.4	.4	.2	.3
24	.2	.3				56	76	14	4.0	.4	.2	.4
25	.2					59	69	14	3.7	.4	.2	.4
26	.2					64	68	22	3.7	.4	.2	.3
27	.2					70	66	23	3.7	.4	.2	.3
28	.2					77	62	21	3.4	.3	.2	.2
29	.2					88	59	30	2.7	.3	.2	.2
30	.8					89	54	25	2.4	.3	.2	.2
31	1.8					87		19		.3	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.8	0.2	0.27	16.7
November	.7		.35	20.6
December			2.4	148
January			4.0	246
February			7.5	417
March	89		46.3	2,850
April	113	54	86.6	5,150
May	57	14	33.3	2,050
June	18	2.4	9.20	547
July	2.4	.3	.67	41.4
August	.3	.2	.21	12.9
September	.4	.2	.22	13.3
The year	113	.2	15.9	11,500

*Discharge measurement.

Shaver Lake near Big Creek, Calif.

Location.- Water-stage recorder in SE¼ sec. 13, T. 9 S., R. 24 E., at dam on Stevenson Creek 6 miles southwest of Big Creek.

Records available.- October 1927 to September 1934.

Remarks.- Record shows available storage. This is largest storage unit of Big Creek system of Southern California Edison Co., Ltd.; capacity, 135,283 acre-feet. Elevation of crest of dam, 5,371 feet above mean sea level. It normally receives water from Huntington Lake Reservoir and Pitman Creek through Huntington-Shaver Conduit. However, no water was received from Huntington Lake during year ending Sept. 30, 1934. Released water is discharged through power house no. 2A, on Big Creek. Record of daily contents furnished by Southern California Edison Co., Ltd.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52,961	50,138	48,659	41,036	27,511	19,646	24,899	29,689	30,467	26,983	11,171	4,981
2	52,695	50,152	48,144	40,925	27,084	19,774	25,113	29,762	30,482	26,443	10,951	4,981
3	52,373	50,152	47,875	40,726	26,852	19,926	25,211	29,878	30,510	26,023	10,700	4,981
4	52,000	50,166	47,282	40,415	26,792	20,096	25,269	30,005	30,424	25,796	10,469	4,985
5	51,656	50,152	46,587	39,950	26,413	20,190	25,308	30,122	30,521	25,562	10,211	4,985
6	51,313	50,152	45,904	39,411	26,023	20,351	25,513	30,252	30,585	25,250	9,868	4,985
7	51,121	50,138	45,225	39,070	25,582	20,283	25,748	30,370	30,628	24,747	9,594	4,985
8	51,107	50,138	44,602	38,453	25,181	20,308	26,013	30,477	30,510	24,290	9,260	4,981
9	50,833	50,138	44,434	37,970	24,899	20,463	26,283	30,574	30,553	23,790	8,951	4,981
10	50,574	50,111	44,447	37,457	24,861	20,611	26,542	30,671	30,445	23,221	8,600	4,981
11	50,370	50,111	43,778	36,945	24,852	20,760	26,792	30,757	30,445	22,698	8,248	4,981
12	50,193	50,111	44,569	36,438	24,433	20,908	27,044	30,833	30,424	22,241	7,727	4,981
13	50,016	50,111	45,563	36,016	23,855	21,065	27,308	30,886	30,252	21,730	7,399	4,981
14	49,921	50,111	45,721	35,911	23,240	21,230	27,582	30,940	30,144	21,065	7,069	4,981
15	49,893	50,098	45,510	35,422	22,744	21,417	27,847	30,994	29,994	20,420	6,719	4,981
16	49,893	50,098	45,199	34,892	22,296	21,614	28,114	31,037	29,805	19,876	6,547	4,981
17	49,893	50,070	45,043	34,399	21,909	21,820	28,352	31,091	29,689	19,238	6,395	4,981
18	49,880	50,057	44,693	33,889	21,846	22,016	28,579	31,123	29,562	18,676	6,217	4,981
19	49,866	50,070	44,330	33,403	21,435	22,187	28,486	31,156	29,404	18,069	5,852	4,981
20	49,853	50,043	43,918	33,056	21,039	22,360	28,114	31,200	29,278	17,480	5,696	4,981
21	49,853	50,030	43,509	32,978	20,611	22,524	28,259	31,222	29,183	16,800	5,548	4,985
22	49,853	50,016	43,099	32,499	20,258	22,689	28,476	31,233	29,046	16,137	5,396	4,992
23	49,839	50,030	43,125	31,979	20,156	22,890	28,703	31,134	28,848	15,511	5,244	5,003
24	49,839	50,030	43,163	31,496	20,003	23,072	28,889	30,854	28,621	14,862	5,213	5,010
25	49,825	50,030	43,061	30,983	20,062	23,268	29,056	30,596	28,528	14,215	5,191	4,917
26	49,825	50,030	42,516	30,477	19,909	23,464	29,214	30,327	28,310	13,790	4,974	4,913
27	49,812	50,030	41,872	30,069	19,697	23,668	29,362	30,370	28,104	13,409	4,971	4,917
28	49,812	49,975	41,273	29,783	19,544	23,883	29,509	30,219	27,887	12,661	4,971	4,920
29	49,812	49,336	40,726	29,278		24,137	29,636	30,338	27,643	11,884	4,978	4,920
30	50,125	49,296	40,219	28,610		24,404	29,762	30,413	27,420	11,557	4,978	4,920
31	50,138		40,366	27,990		24,661		30,445		11,342	4,978	

Note.- Contents on Sept. 30, 1933, was 53,241 acre-feet.

Huntington-Shaver Conduit at outlet, Calif.

Location.- Water-stage recorder at tunnel outlet in SW¼ sec. 10, T. 9 S., R. 25 E., 4 miles south of Big Creek. Altitude, about 6,680 feet.

Records available.- October 1928 to September 1934.

Extremes.- Maximum mean daily discharge during year, 117 second-feet Apr. 14; minimum, 1.5 second-feet Sept. 12-16.
1928-34: Maximum mean daily discharge, 1,640 second-feet May 27, 1932; minimum, that of Sept. 12-16, 1934.

Remarks.- Records good. Conduit diverts water from Huntington Lake to Shaver Lake and picks up water from Pitman Creek and a little seepage en route. During year ending Sept. 30, 1934, no water from Huntington Lake entered the conduit. Gage-height record and results of discharge measurements furnished by Southern California Edison Co., Ltd.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	3.3	2.2	7.5	8.5	10	92	63	20	4.8	2.2	2.0
2	2.4	3.0	2.2	7.5	9.5	12	81	61	17	4.0	2.2	1.8
3	2.4	3.0	2.2	7.5	10	16	70	61	16	4.5	2.2	1.8
4	2.4	2.8	2.4	7.5	10	21	68	60	15	4.2	2.2	1.8
5	2.4	2.6	2.4	7.5	10	26	75	63	19	3.9	2.2	1.8
6	2.4	2.6	2.2	7.5	10	30	84	64	20	3.6	2.2	1.8
7	2.4	2.4	2.2	7	10	32	95	60	19	3.6	2.2	1.8
8	2.4	2.4	2.2	6.5	10	33	107	56	18	3.6	2.2	1.6
9	2.4	2.2	2.2	6.5	10	34	110	51	19	3.3	2.0	1.6
10	2.4	2.2	2.2	6.5	10	36	110	49	16	3.3	2.0	1.6
11	2.4	2.2	2.2	6	9.5	37	110	47	14	3.0	2.0	1.6
12	2.4	2.2	10	6	9.5	41	110	43	12	2.8	2.0	1.5
13	2.4	2.2	16	6	9.5	45	113	40	12	2.8	2.0	1.5
14	2.4	2.2	5.5	6	9.5	48	117	36	12	2.8	2.0	1.5
15	2.4	2.4	4.8	6	9.5	52	116	34	12	2.6	2.0	1.5
16	2.4	2.4	4.8	5.5	9.5	56	113	30	10	2.6	2.0	1.5
17	2.4	2.4	5.5	5.5	9.5	61	109	28	9.5	2.6	2.0	1.6
18	2.4	2.4	5	5.5	9.5	61	103	26	9	2.6	2.0	1.6
19	2.4	2.4	4.8	5.5	10	54	99	24	9	2.4	2.0	1.6
20	2.4	2.4	4.8	5.5	10	52	100	23	8.5	2.4	2.0	1.6
21	2.4	2.2	4.8	5.5	9.5	52	103	21	8	2.4	2.0	1.6
22	2.4	2.2	4.5	5.5	9.5	53	97	18	7.5	2.4	2.0	1.6
23	2.4	2.2	4.5	6	9.5	56	99	18	7	2.4	2.0	1.8
24	2.4	2.2	4.5	6	9.5	58	83	16	6.5	2.4	2.0	2.0
25	2.4	2.2	4.5	6	9.5	63	75	17	6	2.4	2.0	2.0
26	2.4	2.2	4.8	6	9.5	69	74	25	6	2.2	2.0	2.0
27	2.4	2.2	4.8	6	9.5	75	72	27	6	2.2	2.0	1.8
28	2.4	2.2	4.8	6	9.5	83	69	24	6	2.2	2.0	1.8
29	2.4	2.2	4.8	5.5		94	64	34	5.5	2.2	2.0	1.8
30	2.8	2.2	4.5	7		97	61	30	5	2.2	2.0	1.8
31	4.8		4.5	7.5		94		24		2.2	2.0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4.8	2.4	2.49	153
November	3.3	2.2	2.39	142
December	16	2.2	4.41	271
January	7.5	5.5	6.35	390
February	10	8.5	9.64	535
March	97	10	50.0	3,070
April	117	61	92.6	5,510
May	64	16	37.8	2,320
June	20	5	11.7	696
July	4.8	2.2	2.95	181
August	2.2	2.0	2.05	126
September	2.0	1.5	1.71	102
The year	117	1.5	18.7	13,500

Fresno River near Knowles, Calif.

Location.- Water-stage recorder in NW¼ sec. 15, T. 8 S., R. 20 E., at Fresno Crossing, 6 miles northeast of Knowles. Altitude, about 1,140 feet.

Drainage area.- 132 square miles.

Records available.- September 1911 to January 1914, November 1915 to September 1934.

Average discharge.- 19 years (1911-12, 1916-34), 63.0 second-feet.

Extremes.- Maximum discharge during year, 364 second-feet Feb. 23 (gage height, 2.28 feet); no flow July 13-16 and July 30 to Sept. 30.
1911-14, 1915-34: Maximum discharge, about 4,500 second-feet Feb. 21, 1917 (gage height, 6.0 feet at former staff gage); no flow at times in 1919, 1924, 1926, 1928-31, 1933-34.

Remarks.- Records excellent. Water is brought into this drainage basin from San Joaquin and Merced River basins; also diversions above station for irrigation and lumbering. Average annual excess of "foreign" water over diversions is estimated roughly as 8 second-feet.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	10	4.0	133	11	66	56	26	17	2.7		
2	.3	5.5	4.3	146	11	56	56	32	15	2.9		
3	.3	4.6	5.5	56	10	52	54	29	14	2.9		
4	.3	4.3	8.5	39	11	50	52	26	12	1.9		
5	.2	4.0	9.5	30	12	46	48	24	13	1.2		
6	.2	3.7	8	26	14	44	44	22	19	.9		
7	.1	3.7	7	22	15	43	46	20	23	.8		
8	.2	3.5	4.6	19	17	50	48	19	22	.7		
9	.2	3.5	5.5	18	18	61	46	18	18	.3		
10	.2	3.5	5.5	17	17	64	44	17	19	.3		
11	.3	3.5	5.5	17	16	64	50	16	16	.2		
12	.4	3.7	18	16	16	61	50	16	15	.1		
13	.4	3.7	105	16	16	64	50	14	15	0		
14	.4	3.7	68	16	15	61	50	13	16	0		
15	.5	4.0	44	15	18	59	50	12	16	0		
16	.5	4.0	30	15	52	59	48	11	13	0		
17	.6	4.0	20	14	37	59	48	11	10	.2		
18	.7	4.0	17	14	28	56	48	10	8	.2		
19	.6	3.7	16	14	53	56	44	9.5	8	.3		
20	.6	3.7	15	14	96	54	41	9.5	7.5	.3		
21	.5	3.7	13	14	56	52	39	8.5	7	.3		
22	.6	3.7	13	12	52	54	39	8	6	.8		
23	.6	3.7	13	14	265	54	41	7	5.5	.7		
24	.6	3.5	14	16	125	68	39	7	4.9	1.0		
25	.7	3.5	14	15	81	64	35	8	4.3	.9		
26	.7	3.5	14	14	128	59	32	18	4.0	.7		
27	.6	3.5	13	14	128	56	30	18	3.7	.5		
28	.6	3.5	13	14	81	56	29	16	3.7	.2		
29	.6	3.7	13	13		54	29	20	3.5	.2		
30	1.3	3.7	16	13		56	30	26	3.2	0		
31	7.5		22	12		59		20		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	7.5	0.1	0.70	42.9
November	10	3.5	4.01	239
December	105	4.0	18.0	1,110
January	146	12	26.1	1,600
February	265	10	50.0	2,780
March	68	43	56.7	3,490
April	56	29	43.9	2,610
May	32	7	16.5	1,010
June	23	3.2	11.4	678
July	2.9	0	.68	42.1
August	0	0	0	0
September	0	0	0	0
The year	265	0	18.8	13,600

Note.- No flow during months left blank.

Chowchilla River at Buchanan Dam Site, Calif.

Location.- Water-stage recorder in SW¼ sec. 22, T. 8 S., R. 18 E., 5 miles west of Raymond. Altitude, about 390 feet.

Drainage area.- 238 square miles.

Records available.- October 1921 to September 1923, October 1930 to September 1934.

Extremes.- Maximum discharge during year, 2,170 second-feet Feb. 23 (gage height, 7.17 feet); no flow for several months.
1921-23, 1930-34: Maximum discharge, 8,520 second-feet Dec. 28, 1931 (gage height, 11.65 feet); no flow several months each year.

Remarks.- Records good. No large diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	141	8	101	15	3.2	1.7			
2			0	314	8	84	14	3.2	1.4			
3			0	85	8	73	14	3.7	.6			
4			0	46	8	65	13	3.7	.4			
5			0	31	8	58	12	3.0	1.2			
6			0	25	8	53	12	2.4	1.4			
7			0	20	10	49	12	1.9	.6			
8			0	18	10	45	11	1.5	1.0			
9			0	16	18	39	10	1.1	1.4			
10			0	15	17	36	9.5	.8	1.0			
11			0	14	13	34	9	.5	.5			
12			0	12	12	32	9	.4	.4			
13			11	12	11	30	8	.2	.2			
14			28	11	10	28	8	.2	.2			
15			45	11	14	26	7.5	.1	.1			
16			43	10	66	24	7.5	.1	.1			
17			24	10	55	24	7	.1	.1			
18			16	10	32	22	6.5	0	0			
19			13	9	70	20	6	0	0			
20			11	9.5	356	19	5.5	0	0			
21			10	9.5	122	19	4.9	0	0			
22			9	9	71	18	4.4	0	0			
23			9	9	1,010	18	4.4	0	0			
24			9	9.5	335	20	5.5	0	0			
25			9	12	173	23	7.5	0	0			
26			9	11	236	19	6.5	0	0			
27			8.5	10	248	18	5.5	0	0			
28			8	9	131	17	4.2	0	0			
29			7.5	8.5		16	3.8	.9	0			
30			8.5	8		16	3.2	1.2	0			
31			11	8		15		1.3				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	45	0	9.34	574
January	314	8	29.8	1,830
February	1,010	8	110	6,110
March	101	15	34.2	2,100
April	15	3.2	8.21	489
May	3.7	0	.95	58.5
June	1.7	0	.41	24.4
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	1,010	0	15.4	11,200

Note.- No flow during months left blank.

Merced River at Happy Isles Bridge, near Yosemite, Calif.

Location.- Water-stage recorder at Happy Isles Bridge, 1½ miles southeast of Yosemite, in Yosemite National Park, Mariposa County. Altitude, about 4,000 feet.

Drainage area.- 181 square miles.

Records available.- August 1915 to September 1934.

Average discharge.- 19 years, 302 second-feet.

Extremes.- Maximum discharge during year, 935 second-feet May 7 (gage height, 3.95 feet); minimum, 1.8 second-feet Oct. 5.

1915-34: Maximum discharge, 3,800 second-feet May 28, 1919 (gage height, 7.10 feet); minimum, 1.5 second-feet Sept. 30, 1926.

Remarks.- Records good except those for Jan. 5-16, which were estimated. Small diversion above station for Yosemite Valley water supply.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	14	5	80	63	83	356	449	206	164	45	33
2	2.2	10	5.5	66	68	105	309	405	173	162	40	27
3	1.9	9.5	6.5	64	72	140	263	424	157	157	35	23
4	1.9	9.5	6.5	60	70	171	238	511	149	160	30	21
5	1.8	8.5	7	55	70	206	246	697	169	148	27	19
6	1.9	8.5	7	50	68	210	300	839	220	128	24	17
7	2.1	8	6.5	45	65	203	394	857	249	115	22	15
8	2.2	7	6	41	81	186	502	809	329	100	20	14
9	2.2	6.5	6	38	71	182	530	730	319	86	18	12
10	2.4	6.5	6	35	66	194	575	763	360	79	17	11
11	2.4	6	7	32	62	196	638	736	316	74	15	10
12	2.4	6	54	30	59	203	638	780	339	71	14	8.5
13	2.4	6	80	29	58	218	697	763	436	70	12	8
14	2.2	6	39	28	57	249	736	659	633	70	12	7
15	2.4	6	27	29	57	281	809	595	474	66	11	6.5
16	2.2	6	26	31	62	290	763	515	424	64	10	6
17	2.2	5.5	29	32	67	303	697	445	413	58	9.5	5
18	2.2	4.9	36	34	74	322	702	394	424	54	8.5	4.9
19	2.1	5	36	34	80	296	724	367	540	52	7.5	4.9
20	2.1	5.5	34	36	76	249	780	356	386	48	7	4.3
21	2.2	5.5	37	37	71	227	827	367	322	46	6.5	4.1
22	2.2	5	39	38	70	218	815	379	300	42	6.5	4.1
23	2.2	4.9	39	41	76	227	758	356	316	39	8	4.9
24	2.2	4.6	38	42	83	254	580	296	306	35	9.5	9.5
25	2.1	4.6	37	45	80	269	453	254	252	33	9	11
26	2.1	4.6	36	42	83	254	461	254	203	30	9.5	10
27	2.1	5	36	44	81	275	535	254	162	27	15	10
28	2.1	5	37	47	77	312	555	220	149	26	80	10
29	2.2	4.9	39	50		375	540	269	149	26	77	10
30	4.7	5.5	40	54		386	479	296	153	30	55	9.5
31	15		49	57		367		246		46	40	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	15	1.8	2.66	164
November	14	4.6	6.48	386
December	80	5	27.6	1,700
January	80	28	43.4	2,670
February	83	57	70.2	3,900
March	386	83	240	14,800
April	827	238	563	33,500
May	857	220	493	30,300
June	633	149	301	17,900
July	164	26	74.4	4,570
August	80	6.5	22.6	1,390
September	33	4.1	11.3	672
The year	857	1.8	155	112,000

Merced River at Pohono Bridge, near Yosemite, Calif.

Location.- Water-stage recorder at Pohono Bridge, 5 miles below Yosemite, in Yosemite National Park, Mariposa County. Altitude, about 3,870 feet.

Drainage area.- 321 square miles.

Records available.- November 1916 to September 1934.

Average discharge.- 17 years (1917-34), 508 second-feet.

Extremes.- Maximum discharge during year, 1,470 second-feet June 14 (gage height, 5.43 feet); minimum, 10 second-feet Sept. 21-23.
1916-34: Maximum discharge, 6,370 second-feet June 5, 1922 (gage height, 10.0 feet); minimum, 3.3 second-feet Sept. 29, Oct. 1, 1924.

Remarks.- Records good. Discharge estimated Jan. 10-15, Feb. 17 to Mar. 4. Small diversion above station for Yosemite Valley water supply.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	26	16	154	128	200	785	740	326	204	55	47
2	16	24	17	130	136	250	675	718	278	198	52	40
3	15	22	18	120	145	350	575	740	250	190	48	35
4	15	22	20	114	143	400	535	785	258	192	44	31
5	15	21	18	106	138	430	555	955	270	178	39	27
6	14	20	18	99	142	434	635	1,110	361	160	37	25
7	14	20	18	97	138	430	785	1,170	406	143	34	23
8	14	20	18	93	163	388	930	1,080	555	130	32	21
9	14	20	18	86	152	391	980	980	555	114	30	21
10	14	19	18	80	140	409	1,000	1,000	555	104	27	19
11	14	18	18	76	128	412	1,080	980	476	96	26	18
12	14	18	64	73	124	440	1,080	1,000	451	91	25	16
13	14	18	165	72	122	518	1,170	980	675	88	24	16
14	14	18	79	71	122	635	1,200	855	1,060	87	23	15
15	14	18	60	70	122	655	1,320	785	740	85	22	14
16	14	18	49	70	133	635	1,230	718	615	81	21	13
17	14	18	48	72	140	655	1,140	635	675	76	21	12
18	14	18	53	71	155	695	1,140	575	595	72	20	12
19	14	17	57	72	170	635	1,140	535	695	68	20	11
20	14	17	56	73	155	535	1,200	518	535	65	19	11
21	14	17	57	73	145	518	1,290	518	451	62	18	11
22	14	17	63	80	135	500	1,260	518	403	59	17	10
23	14	17	65	85	145	518	1,230	496	403	55	17	11
24	14	17	67	83	175	615	980	424	388	52	18	16
25	14	17	67	91	170	635	785	376	329	48	18	16
26	14	16	67	86	175	595	762	403	273	45	19	16
27	13	16	67	87	170	615	830	415	221	41	21	16
28	13	16	67	94	160	675	830	352	198	39	54	16
29	13	16	71	103		855	808	454	194	38	88	16
30	21	16	77	108		855	740	465	198	38	70	16
31	27		82	116		808		385		50	57	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	27	13	14.8	910
November	26	16	18.6	1,110
December	165	16	50.9	3,130
January	154	70	90.5	5,560
February	175	122	145	8,050
March	855	200	538	33,100
April	1,320	535	956	56,900
May	1,170	352	699	43,000
June	1,060	194	446	26,500
July	204	38	95.1	5,850
August	88	17	32.8	2,020
September	47	10	19.0	1,130
The year	1,320	10	259	187,000

Merced River at Kittridge, Calif.

Location.- Water-stage recorder in sec. 26, T. 3 S., R. 16 E., 3 miles above Horseshoe Bend and a quarter of a mile below Kittridge. Altitude, about 750 feet.

Drainage area.- 935 square miles.

Records available.- November 1922 to September 1934 (incomplete).

Extremes.- Maximum discharge during year, 5,280 second-feet Jan. 1 (gage height, 9.10 feet); minimum, 16 second-feet Sept. 21.
1922-34: Maximum discharge, 20,900 second-feet Mar. 25, 1928 (gage height, 19.20 feet at former location); minimum, 13 second-feet Oct. 5, 1925.

Remarks.- Records good except those for estimated periods, Apr. 3-4, Apr. 27 to May 11, May 13, 15-21, June 17-21, July 27-30. No large diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	114	48	3,010	250	752	1,460	1,050	509	210	49	60
2	30	81	49	2,090	272	732	1,320	1,050	427	212	64	52
3	30	68	58	792	290	792	1,100	1,050	374	201	62	46
4	29	62	70	576	298	896	920	1,100	344	194	59	42
5	28	55	80	460	290	1,000	938	1,200	335	194	56	39
6	27	55	69	380	312	1,020	1,050	1,400	434	186	51	36
7	27	55	66	336	350	1,020	1,260	1,500	568	166	45	33
8	27	54	64	309	380	959	1,600	1,300	640	153	45	32
9	28	53	60	282	486	896	1,660	1,200	812	142	42	30
10	28	52	60	262	380	896	1,700	1,200	792	131	40	28
11	28	52	59	258	338	896	1,800	1,200	732	118	38	27
12	28	52	87	232	306	896	1,800	1,230	600	111	35	27
13	28	51	1,490	228	290	938	1,960	1,150	712	104	32	25
14	29	51	980	214	280	1,070	1,960	1,070	1,140	104	31	23
15	29	50	568	204	298	1,170	2,160	940	1,120	103	30	22
16	29	49	400	199	692	1,170	2,040	880	875	102	28	20
17	28	49	262	190	552	1,200	1,920	800	950	98	27	19
18	28	49	226	192	449	1,260	1,840	740	850	93	25	18
19	28	49	208	186	701	1,200	1,800	680	980	88	23	17
20	27	49	197	192	1,630	1,020	1,840	640	800	82	23	16
21	27	49	190	195	917	959	1,960	635	650	79	22	16
22	28	49	194	190	712	938	1,960	632	548	75	22	16
23	29	49	201	201	2,400	938	1,960	632	486	71	22	18
24	29	48	208	234	1,490	1,050	1,700	584	479	68	20	21
25	29	48	204	220	980	1,120	1,350	513	434	65	20	25
26	29	48	199	218	1,070	1,070	1,230	524	356	60	18	31
27	29	48	194	206	1,070	1,070	1,300	596	293	57	21	32
28	30	48	190	206	854	1,140	1,300	536	244	55	22	31
29	31	48	190	216		1,320	1,200	576	224	52	22	29
30	40	48	228	228		1,600	1,100	652	210	50	62	28
31	72		280	240		1,490		608		48	73	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	72	27	30.3	1,860
November	114	48	54.4	3,240
December	1,490	48	238	14,600
January	3,010	186	418	25,700
February	2,400	250	655	36,400
March	1,600	732	1,050	64,600
April	2,160	920	1,570	93,400
May	1,500	513	899	55,300
June	1,140	210	597	35,500
July	212	48	112	6,890
August	73	18	36.4	2,240
September	60	16	28.6	1,700
The year	3,010	16	472	341,000

Lake McClure at Exchequer, Calif.

Location.- Staff gage at Exchequer Dam, on Merced River, and indicator in power house in SW¼ sec. 13, T. 4 S., R. 15 E., 5 miles northeast of Merced Falls.

Drainage area.- 1,020 square miles.

Records available.- April 1926 to September 1934.

Remarks.- This is main storage unit for Merced Irrigation District; capacity, 250,000 acre-feet. Elevation of crest of dam is 714.0 feet, top of spillway gate 707.0 feet, and spillway 693.0 feet above mean sea level. Released water passes through power house at dam and down Merced River to diversion dam below Merced Falls, where it enters main irrigation canal. Gage-height record furnished by Merced Irrigation District.

Gage-height, in feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	490.0	488.3	493.1	549.3	575.3	612.3	641.4	641.6	631.3	608.8	527.2	500.6
2	489.5	488.9	493.3	555.8	575.8	613.3	641.4	641.4	630.8	607.0	526.3	499.7
3	489.4	489.3	493.5	558.1	576.5	614.6	641.3	641.1	630.2	605.3	525.6	498.6
4	489.3	489.6	493.7	559.7	577.1	616.0	640.8	640.8	629.4	603.4	525.0	497.5
5	489.3	489.8	494.1	561.0	577.6	617.3	640.3	640.8	628.5	601.4	524.1	496.4
6	489.2	490.0	494.4	562.0	578.2	618.9	639.9	640.9	627.9	599.5	523.4	495.3
7	489.1	490.2	494.6	562.8	579.0	620.3	639.7	641.2	627.5	597.4	522.6	494.0
8	489.1	490.4	494.8	563.6	579.7	621.6	639.7	641.5	627.3	595.3	521.8	492.7
9	489.0	490.5	495.0	564.3	580.7	622.9	639.7	641.5	627.2	593.1	521.1	491.4
10	488.9	490.7	495.2	565.0	581.5	624.0	639.8	641.5	627.2	590.7	520.4	489.8
11	488.9	490.8	495.5	565.6	582.1	625.2	639.9	641.5	627.0	588.4	519.5	488.2
12	488.8	491.0	496.1	566.2	582.7	626.3	640.1	641.5	626.5	585.9	518.7	486.6
13	488.8	491.1	509.3	566.8	583.2	627.6	640.4	641.5	626.3	583.4	518.0	484.9
14	488.8	491.2	516.2	567.2	583.7	629.0	640.6	641.3	626.5	580.8	517.2	483.0
15	488.7	491.4	520.0	567.6	584.3	630.4	641.2	641.1	626.7	578.1	516.4	
16	488.5	491.4	522.2	568.1	586.0	632.0	641.5	640.7	626.6	575.4	515.5	
17	488.2	491.5	523.6	568.6	587.0	633.4	641.8	640.7	626.3	572.5	514.6	
18	488.0	491.6	524.7	568.9	587.4	634.9	641.9	639.6	625.8	569.5	513.7	
19	487.9	491.8	525.5	569.3	589.7	635.7	642.1	639.0	625.2	566.4	512.8	
20	487.7	491.9	526.4	569.7		636.3	642.3	638.5	624.5	563.4	512.0	
21	487.5	492.0	527.1	570.2	594.8	636.8	642.6	637.8	623.5	560.1	511.0	
22	487.4	492.1	527.9	570.6	596.3	637.3	643.0	637.1	622.4	556.6	510.1	
23	487.3	492.2	528.7	571.1	598.6	637.6	643.5	636.4	621.2	553.0	509.3	
24	487.2	492.4	529.3	571.6	602.7	638.0	643.6	635.5	619.8	549.2	508.4	
25	487.1	492.5	530.2	572.1	605.1	638.5	643.4	634.7	618.5	545.2	507.4	
26	487.1	492.5	531.0	572.6	606.5	639.0	643.1	633.8	617.1	540.9	506.5	
27	487.0	492.7	531.7	573.1	609.2	639.4	642.9	633.0	615.4	536.3	505.5	
28	487.0	492.8	532.4	573.5	611.1	639.7	642.6	632.3	613.8	533.6	504.5	
29	486.9	492.9	533.1	574.0		640.1	642.3	632.3	612.2	530.7	503.4	
30	487.0	493.0	533.8	574.4		640.6	642.0	632.1	610.6	529.2	502.3	
31	487.3		535.2	574.9		641.0		631.7		527.7	501.5	

Note.- No record Feb. 20; water below gage Sept. 15-30.

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Merced River at Exchequer, Calif.

Location.- Water-stage recorder about on line between secs. 14 and 23, T. 4 S., R. 15 E., at Exchequer, half a mile below Lake McClure and 5 miles northeast of Merced Falls. Altitude, about 400 feet.

Drainage area.- 1,030 square miles.

Records available.- November 1915 to September 1934. 1915-22 at station 1 mile above present site.

Average discharge.- 18 years (1916-34), 1,040 second-feet; affected by storage in Lake McClure since Apr. 20, 1926.

Extremes.- Maximum discharge during year, 1,770 second-feet Apr. 15 (gage height, 4.08 feet); minimum, 8 second-feet Dec. 16.
1915-34: Maximum discharge, about 22,000 second-feet Jan. 17, 1916 (gage height, 20.0 feet at old station); minimum, 7.5 second-feet Oct. 18, 1932.

Remarks.- Records good. Discharge estimated Sept. 20-21. No large diversions. See record for Lake McClure, which stores water above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	195	34	32	49	49	28	1,130	1,380	838	1,350	200	186
2	96	34	32	18	49	28	1,190	1,350	838	1,350	244	186
3	38	34	34	20	49	28	1,250	1,350	838	1,350	221	183
4	38	34	34	18	49	28	1,320	1,350	950	1,380	221	176
5	37	34	34	21	49	28	1,350	1,320	950	1,380	221	176
6	36	34	34	28	49	28	1,420	1,320	920	1,380	218	174
7	36	34	34	27	49	28	1,460	1,320	865	1,380	210	172
8	35	34	34	27	49	28	1,490	1,320	810	1,380	210	172
9	37	34	34	27	49	29	1,600	1,280	810	1,380	208	176
10	36	34	34	27	49	31	1,630	1,280	810	1,380	200	176
11	36	34	25	27	49	30	1,630	1,280	865	1,420	193	176
12	35	34	17	27	49	29	1,660	1,280	950	1,420	193	176
13	31	34	17	26	49	43	1,660	1,280	950	1,380	193	176
14	30	34	8	26	49	58	1,660	1,280	980	1,420	190	188
15	31	34	8	26	51	58	1,660	1,250	1,010	1,420	190	186
16	42	34	8	26	53	57	1,660	1,220	1,010	1,380	190	176
17	60	34	8.5	25	50	57	1,660	1,220	1,130	1,380	188	87
18	43	34	19	25	50	63	1,660	1,220	1,160	1,380	188	41
19	45	35	25	26	44	544	1,660	1,190	1,190	1,380	186	65
20	46	35	27	26	46	564	1,630	1,160	1,250	1,380	186	100
21	38	35	27	25	26	572	1,630	1,160	1,320	1,380	186	40
22	39	35	27	25	26	560	1,600	1,160	1,350	1,380	178	48
23	38	35	32	25	28	685	1,600	1,160	1,350	1,380	169	45
24	36	35	33	25	25	690	1,560	1,250	1,380	1,420	172	28
25	35	35	27	25	25	695	1,520	1,220	1,380	1,420	163	37
26	34	35	27	25	25	695	1,490	1,190	1,380	1,420	163	32
27	34	34	27	24	26	810	1,490	1,190	1,380	1,420	172	33
28	34	32	28	24	28	865	1,460	1,100	1,350	838	176	33
29	34	32	28	24		920	1,460	585	1,350	810	183	53
30	34	32	26	37		1,040	1,460	810	1,350	453	186	53
31	34		26	49		1,070		838		354	186	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	195	30	44.4	2,730
November	35	32	34.1	2,030
December	34	8	26.0	1,600
January	49	18	26.8	1,650
February	53	25	42.5	2,360
March	1,070	28	335	20,600
April	1,660	1,130	1,520	90,400
May	1,380	585	1,200	73,800
June	1,380	810	1,090	64,900
July	1,420	354	1,290	79,300
August	244	163	193	11,900
September	188	26	118	7,020
The year	1,660	8	495	358,000

Merced River near Livingston, Calif.

Location.- Water-stage recorder in SE¼ sec. 20, T. 6 S., R. 11 E., 3½ miles west of Livingston. Altitude, about 82 feet.

Records available.- March 1922 to September 1924, October 1925 to September 1934.

Extremes.- Maximum discharge during year, 1,700 second-feet Jan. 2 (gage height, 6.35 feet); minimum, 76 second-feet Sept. 5.
1922-24, 1925-34: Maximum discharge, 8,100 second-feet June 5, 1922 (gage height, 15.80 feet, present datum); minimum recorded, 18 second-feet Aug. 30, 1924.

Remarks.- Records good. Practically entire flow is diverted above station during irrigation season; return water enters above station. Storage at Lake McClure. Gage-height record furnished by Merced Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	147	105	93	160	114	173	182	108	142	129	108	83
2	161	103	94	1,030	114	162	185	116	125	132	128	80
3	172	101	99	513	121	154	185	118	130	126	110	82
4	172	99	102	284	121	148	150	129	126	129	102	83
5	158	98	102	228	121	142	123	118	152	126	91	80
6	148	98	103	203	118	141	122	136	169	129	88	84
7	129	96	102	185	121	136	108	136	180	132	89	84
8	118	96	101	173	122	134	101	147	162	144	87	86
9	114	96	103	165	126	130	94	156	135	132	87	84
10	112	96	103	159	126	128	99	140	126	112	89	85
11	111	96	103	153	132	126	85	132	132	115	92	84
12	110	96	106	150	126	123	98	140	132	119	94	84
13	110	95	111	146	123	119	110	138	140	126	94	84
14	107	95	121	141	122	116	121	130	135	121	88	85
15	101	95	213	138	123	114	119	111	150	132	87	85
16	100	95	246	135	175	116	123	108	135	146	87	82
17	100	95	182	134	265	136	115	121	141	136	85	85
18	99	96	156	134	192	144	119	118	167	144	80	87
19	96	96	141	129	167	141	119	112	170	119	79	91
20	95	98	130	129	520	154	108	132	132	107	81	93
21	95	96	123	128	627	256	132	129	130	112	81	88
22	95	96	119	128	294	237	119	112	144	119	82	85
23	94	96	115	125	256	246	126	122	135	116	84	86
24	94	96	112	126	353	228	112	126	144	108	85	90
25	92	96	118	125	246	208	115	152	153	121	88	90
26	93	96	118	125	205	190	116	164	158	135	89	90
27	95	98	114	123	217	184	102	156	144	118	88	87
28	95	95	114	121	197	215	101	147	136	110	87	87
29	93	95	122	119		206	95	199	134	103	83	87
30	96	93	132	116		165	106	138	144	103	82	83
31	103		135	115		169		129		100	82	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	172	92	113	6,950
November	105	93	96.7	5,750
December	246	93	124	7,620
January	1,030	115	188	11,600
February	627	114	198	11,000
March	256	114	163	10,000
April	185	85	120	7,140
May	199	108	133	8,180
June	180	125	143	8,510
July	146	100	123	7,560
August	128	79	89.6	5,510
September	93	80	85.5	5,090
The year	1,030	79	131	94,900

Tenaya Creek near Yosemite, Calif.

Location.- Water-stage recorder at Tenaya Bridge, in Yosemite National Park, five-eighths of a mile above junction with Merced River and 1.9 miles east of Yosemite, Mariposa County. Altitude, about 4,000 feet.

Drainage area.- 47 square miles.

Records available.- July 1904 to June 1909, January 1912 to September 1934.

Average discharge.- 20 years (1913-15, 1916-34), 95.1 second-feet.

Extremes.- Maximum discharge during year, 372 second-feet June 13 (gage height, 3.61 feet); minimum, 1.0 second-foot Sept. 28-30.
1904-9, 1912-34: Maximum discharge, 1,730 second-feet May 28, 1919 (gage height, 7.05 feet); minimum, 0.5 second-foot Sept. 12 and most of October 1906.

Remarks.- Records good except those for Nov. 12 to Dec. 4, Dec. 7-28, Dec. 30 to Jan. 16, Feb. 5-18, which were estimated. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	2.0	2.0		27	34	170	143	33	12	2.0	1.4
2	1.5	2.0	2.0		29	45	148	152	28	11	2.0	1.4
3	1.5	2.0	2.0		29	68	121	148	24	10	2.0	1.4
4	1.5	2.0	2.0		27	64	109	142	22	9	2.0	1.4
5	1.3	2.0	2.0			96	118	148	38	8.5	2.0	1.4
6	1.3	2.0	2.0			96	143	154	59	8	2.0	1.4
7	1.3	2.0	2.0			94	175	154	66	7.5	2.0	1.3
8	1.3	2.0	2.0			80	196	140	88	7	1.9	1.3
9	1.3	2.0	2.0	17		82	200	132	90	6.5	1.9	1.3
10	1.3	2.0	2.0			88	214	121	66	6	1.9	1.3
11	1.3	2.0	2.0		25	88	218	115	58	5.5	1.9	1.3
12	1.3					107	210	109	87	5	1.9	1.3
13	1.3					168	224	99	169	4.7	1.8	1.3
14	1.3					212	236	86	198	4.2	1.8	1.2
15	1.3					184	243	78	118	4.0	1.8	1.2
16	1.3					166	224	68	127	3.9	1.8	1.2
17	1.3			9.5		159	210	58	139	3.6	1.8	1.2
18	1.3			9.5		161	212	50	107	3.3	1.7	1.2
19	1.3			9.5	29	137	210	44	97	3.0	1.7	1.2
20	1.3		13	10	30	107	216	38	70	2.8	1.7	1.2
21	1.3	2.0		10	28	101	220	34	54	2.4	1.7	1.2
22	1.3			12	28	104	214	32	42	2.4	1.7	1.2
23	1.3			14	30	115	214	28	35	2.3	1.6	1.3
24	1.3			14	31	138	173	26	29	2.3	1.6	1.3
25	1.3			14	30	142	147	29	26	2.3	1.6	1.3
26	1.3			14	33	130	142	49	23	2.2	1.6	1.3
27	1.3			16	33	133	140	42	15	2.2	1.6	1.2
28	1.3			19	32	154	135	45	15	2.2	1.5	1.0
29	1.3		15	20		210	125	63	14	2.2	1.5	1.0
30	1.8		16	22		192	113	50	13	2.2	1.5	1.0
31	2.0		16	24		175		38		2.2	1.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.0	1.3	1.36	83.6
November			2.00	119
December			9.35	575
January			15.8	972
February			27.4	1,520
March	212	34	124	7,620
April	243	109	181	10,800
May	154	26	84.4	5,190
June	198	13	66.3	3,950
July	12	2.2	4.85	298
August	2.0	1.5	1.77	109
September	1.4	1.0	1.26	75.0
The year	243	1.0	43.2	31,300

Orestimba Creek near Newman, Calif.

Location.- Water-stage recorder in NW¼ sec. 20, T. 7 S., R. 8 E., at highway bridge 5 miles west of Newman. Altitude, about 190 feet.

Records available.- January 1932 to September 1934.

Extremes.- Maximum discharge during year, 516 second-feet Jan. 1 (gage height, 2.61 feet); no flow several months.
1932-34: Maximum discharge, 3,440 second-feet Feb. 8, 1932 (gage height, 5.15 feet); no flow several months each year.

Remarks.- Records good except those of high water, which are fair. No large diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	199	0	11						
2			0	79	0	8.5						
3			0	21	0	6.5						
4			0	9.5	0	4.2						
5			0	2.8	0	3.0						
6			0	.7	0	2.0						
7			0	0	0	1.7						
8			0	0	0	1.3						
9			0	0	0	1.1						
10			0	0	0	1.0						
11			0	0	0	.9						
12			0	0	0	.8						
13			0	0	0	.6						
14			0	0	0	.3						
15			0	0	0	.3						
16			0	0	0	.1						
17			0	0	0	0						
18			0	0	0	0						
19			0	0	0	0						
20			0	0	0	0						
21			0	0	0	0						
22			0	0	0	0						
23			0	0	.2	0						
24			0	0	54	0						
25			0	0	27	0						
26			0	0	21	0						
27			0	0	22	0						
28			0	0	15	0						
29			0	0		0						
30			21	0		0						
31			17	0		0						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	21	0	1.23	75.6
January	199	0	10.1	621
February	54	0	4.97	276
March	11	0	1.40	86.1
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	199	0	1.46	1,060

Note.- No flow during months left blank.

Hetch Hetchy Reservoir at Hetch Hetchy, Calif.

Location.- Water-stage recorder at O'Shaughnessy Dam, in sec. 16, T. 1 N., R. 20 E., on Tuolumne River at Hetch Hetchy.

Records available.- May 1923 to September 1934 (gage heights only, 1923-30).

Remarks.- This reservoir is main storage unit of Hetch Hetchy water-supply system for San Francisco; capacity, 206,000 acre-feet. Elevation of crest of dam, 3,726.5 feet above mean sea level. Released water flows down natural channel of Tuolumne River for 15 miles to Early Intake and is then diverted through Hetch Hetchy Aqueduct to Moccasin Creek power plant.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	132,700	94,160	55,220	27,110	8,900	4,490	23,550	83,000	138,240	167,750	138,370	97,780
2	131,680	93,120	53,940	27,520	8,380	4,380	24,600	84,400	138,100	167,600	137,020	96,580
3	130,650	91,960	52,580	27,440	7,890	4,490	25,330	85,900	137,830	167,160	135,670	95,220
4	129,630	90.800	51,210	27,030	7,400	4,810	25,740	87,860	137,560	166,420	134,460	93,850
5	128,480	89,650	50,030	26,540	6,970	5,350	26,140	90,490	137,420	165,970	133,240	92,590
6	127,320	88,280	48,760	26,060	6,380	5,840	26,630	94,060	137,830	165,530	131,930	91,220
7	126,040	87,020	47,510	25,570	5,950	6,320	27,440	97,900	138,640	164,940	130,650	89,960
8	124,890	85,700	46,190	25,010	5,680	6,590	28,810	101,820	140,400	164,340	129,370	88,600
9	123,870	84,400	44,780	24,440	5,620	6,860	30,430	104,840	142,690	163,750	127,960	87,240
10	122,590	83,000	43,370	23,710	5,350	7,080	32,360	107,860	144,850	162,860	126,680	85,900
11	121,180	81,700	42,140	23,140	4,970	7,300	34,480	111,120	146,340	161,980	125,400	84,500
12	119,780	80,400	40,910	22,380	4,490	7,510	36,780	114,640	147,740	160,940	124,000	83,300
13	118,610	79,200	40,730	21,550	3,950	7,780	39,240	117,790	149,280	159,920	122,590	82,000
14	117,330	77,900	40,560	20,880	3,410	8,210	41,960	120,540	151,800	158,940	121,180	80,600
15	115,920	76,600	40,120	20,120	3,040	8,770	45,130	122,840	154,040	158,100	119,780	79,300
16	114,640	75,350	39,420	19,380	2,810	9,440	48,300	125,020	156,000	157,120	118,500	78,000
17	113,350	74,000	38,650	18,620	2,690	10,240	51,210	126,810	157,400	156,140	117,330	76,700
18	112,180	72,660	37,800	17,800	2,550	11,180	53,760	128,220	159,080	155,160	116,040	75,540
19	110,770	71,320	36,950	16,980	2,550	12,120	56,580	129,370	163,160	154,180	114,750	74,480
20	109,370	70,070	36,100	16,150	2,780	12,790	59,580	130,400	165,230	153,060	113,350	73,330
21	107,980	68,720	35,250	15,400	2,900	13,260	62,620	131,420	166,560	151,940	112,060	72,180
22	106,630	67,380	34,480	14,860	2,870	13,720	65,860	132,570	167,600	150,820	110,660	70,930
23	105,400	66,040	33,720	14,260	2,980	14,130	69,110	133,510	168,340	149,700	109,370	69,680
24	104,170	64,720	32,780	13,720	3,210	14,530	71,800	134,180	168,930	148,580	107,980	68,340
25	102,820	63,380	32,020	13,190	3,300	15,400	73,720	134,720	169,080	147,320	106,630	67,280
26	101,370	62,060	31,170	12,450	3,570	16,150	74,960	135,130	169,230	145,930	105,400	66,240
27	99,910	60,720	30,350	11,780	4,380	16,900	76,500	136,080	169,080	144,580	104,170	65,100
28	98,570	59,300	29,540	11,110	4,600	17,650	78,300	136,620	168,930	143,360	102,940	63,860
29	97,340	57,970	26,650	10,580		19,000	80,100	137,290	168,490	142,020	101,590	62,530
30	96,060	56,490	27,760	10,040		20,800	81,700	137,960	168,190	140,800	100,360	61,200
31	95,000		27,030	9,440		22,300		138,240		139,580	99,020	

Note.- Contents on Sept. 30, 1933, was 133,780 acre-feet.

Tuolumne River near Hetch Hetchy, Calif.

Location.- Water-stage recorder in SE¼ sec. 17, T. 1 N., R. 20 E., in Yosemite National Park, three-quarters of a mile below O'Shaughnessy Dam at Hetch Hetchy. Altitude, about 3,450 feet.

Drainage area.- 462 square miles.

Records available.- December 1914 to September 1934.

Average discharge.- 19 years (1915-34), 877 second-feet.

Extremes.- Maximum discharge during year, 970 second-feet Sept. 26 (gage height, 6.68 feet); minimum, 6.5 second-feet Feb. 27.
1915-34: Maximum discharge, 12,000 second-feet June 16, 1929 (gage height, 13.58 feet); minimum, 1.2 second-feet Jan. 18, 1931.

Remarks.- Records excellent. No diversions. See record for Hetch Hetchy Reservoir, which stores water above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	590	615	730	346	552	470	520	552	565	520	745	730
2	565	655	715	337	552	480	510	540	565	500	745	730
3	578	670	700	420	552	490	510	552	565	615	730	730
4	590	685	685	500	520	500	520	565	578	565	730	730
5	578	640	685	520	520	520	520	552	565	480	730	730
6	590	655	700	510	530	520	530	540	540	530	730	730
7	602	700	715	500	510	520	540	520	540	565	730	730
8	565	730	715	500	480	520	520	510	520	510	745	730
9	615	715	715	520	490	520	520	520	490	500	745	730
10	715	730	640	520	500	530	540	530	470	628	745	730
11	715	730	640	520	490	530	552	540	470	615	745	730
12	715	685	615	530	500	540	552	540	480	640	745	730
13	730	685	441	530	500	530	578	530	510	655	745	730
14	745	700	470	530	490	540	552	510	540	655	730	730
15	715	700	490	520	480	540	520	540	540	590	730	730
16	655	730	530	520	470	552	510	565	520	602	730	730
17	685	730	552	530	460	520	510	552	480	615	745	655
18	715	730	552	540	460	510	510	540	460	640	745	602
19	745	700	540	540	420	520	530	530	470	640	730	602
20	745	685	552	520	373	530	540	510	500	670	745	615
21	745	700	565	500	391	530	552	480	530	715	745	615
22	685	715	552	500	420	530	530	510	540	670	730	628
23	685	730	530	510	337	552	490	540	552	685	730	715
24	730	730	530	510	355	520	490	552	510	700	730	685
25	745	715	530	540	391	520	520	530	510	715	730	602
26	745	700	520	552	135	530	540	520	500	745	730	640
27	745	700	520	540	103	530	565	510	530	730	730	670
28	730	715	552	520	440	530	565	500	565	730	730	685
29	685	730	565	490		530	565	510	565	745	730	685
30	640	730	530	510		540	552	530	552	745	730	715
31	565		552	540		530		565		745	730	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	745	565	673	41,400
November	730	615	701	41,700
December	730	441	591	36,300
January	552	337	505	31,100
February	552	103	444	24,700
March	552	470	523	32,200
April	578	490	532	31,700
May	565	480	532	32,700
June	578	460	524	31,200
July	745	480	634	39,000
August	745	730	736	45,300
September	730	602	693	41,200
The year	745	103	592	428,000

Tuolumne River near Buck Meadows, Calif.

Location.- Water-stage recorder in SW¼ sec. 24, T. 1 S., R. 17 E., two-thirds of a mile below junction with South Fork of Tuolumne River and 2 miles north of Buck Meadows. Altitude, about 1,375 feet.

Drainage area.- 934 square miles.

Records available.- September 1907 to September 1934.

Extremes.- Maximum discharge during year, 2,940 second-feet Dec. 13 (gage height, 6.86 feet); minimum, 3.0 second-feet Sept. 23.
1907-34: Maximum discharge, 27,200 second-feet Jan. 14, 1909 (gage height, 14.0 feet); minimum, that of Sept. 23, 1934.

Remarks.- Records excellent except those for Nov. 30, Feb. 15 to Mar. 5, June 23 to Aug. 10, which were estimated. City of San Francisco diverts water from Cherry Creek and Tuolumne River at Early Intake above station to develop power and discharges it to Moccasin Creek. Storage in Hetch Hetchy Reservoir and Lake Eleanor.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	83	23	1,450	61	245	1,080	610	145	13	170	121
2	41	39	24	510	71	282	888	615	95	12	310	119
3	23	37	33	234	74	386	684	696	60	56	310	117
4	20	28	38	165	76	450	590	768	40	35	310	117
5	20	26	32	143	89	485	570	914	37	9	305	117
6	19	25	15	117	111	483	672	1,030	399	9	305	117
7	19	24	21	72	160	478	840	1,140	595	9	305	117
8	36	24	18	58	279	510	1,060	1,060	792	15	305	117
9	25	27	24	50	209	615	1,090	894	750	17	305	119
10	22	25	20	48	109	660	1,050	858	928	110	310	119
11	19	24	16	48	97	620	1,120	894	620	130	312	119
12	19	24	473	47	76	660	1,220	864	384	130	320	119
13	19	24	1,510	41	71	714	1,310	810	296	125	324	119
14	16	24	279	44	62	792	1,300	696	736	125	165	119
15	20	23	117	47	92	882	1,450	615	756	125	123	119
16	34	23	66	41	266	894	1,310	570	420	125	121	119
17	23	23	47	44	165	928	1,220	424	265	125	115	113
18	20	23	54	45	164	963	1,140	396	221	125	115	17
19	21	22	47	55	388	935	1,160	340	200	120	115	5
20	23	21	39	78	465	822	1,180	296	125	120	113	4.0
21	21	22	32	67	249	766	1,310	251	72	120	121	3.5
22	21	22	54	58	259	744	1,360	221	52	120	123	3.2
23	21	22	66	87	500	768	1,760	237	21	120	119	3.6
24	19	22	42	111	329	956	1,290	227	20	120	117	7.5
25	19	22	30		306	970	870	212	58	120	117	13
26	22	23	36		511	921	816	265	18	120	117	9
27	23	23	41		419	894	600	344	18	120	115	7
28	25	24	37	101	224	928	630	265	17	120	119	6
29	34	20	32	123		1,760	605	258	16	120	117	5.5
30	227	20	89	55		1,600	510	293	13	105	119	5
31	377		147	51		1,260		206		120	119	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	377	16	40.9	2,510
November	83	20	26.3	1,560
December	1,510	15	113	6,950
January	1,450	41	135	8,300
February	511	61	210	11,700
March	1,760	245	787	48,400
April	1,760	510	1,020	60,700
May	1,140	206	557	34,200
June	928	13	272	16,200
July	130	9	91.6	5,630
August	324	113	196	12,100
September	121	3.2	69.9	4,160
The year	1,760	3.2	293	212,000

Tuolumne River near Jacksonville, Calif.

Location.- Water-stage recorder in S½ sec. 18, T. 1 S., R. 15 E., above Woods Creek, three-quarters of a mile east of Jacksonville, and 1½ miles below Moccasin Creek. Altitude, about 620 feet.

Drainage area.- 1,352 square miles.

Records available.- July 1923 to August 1934.

Extremes.- 1923-34: Maximum discharge, 35,300 second-feet Mar. 25, 1928 (gage height, 12.38 feet); minimum, 12 second-feet several days in September 1931.

Remarks.- Records good but incomplete. Storage, regulation, and diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				3,480	206				257	44	169	
2				2,090	223				201	67	252	
3				1,080	232				173	235	370	
4				852	228				140	104	370	
5				465	262				102	126	317	
6				413	277				226	107	323	
7			52	328	382				762	82		
8			48	282	577				958	33		
9			48	252	658				910	44		
10			54	228	400				1,070	78		
11			52	214	334				870	186		
12			397	201	311				570	192		
13			3,130	188	277				400	173		
14			1,260	177	257				549	165		
15			846	177	543			755	1,080	132		
16			635	173				846	577	150		
17			426	161				591	382	180		
18			452	165				535	294	160		
19			264	165				465	262	184		
20			158	184				413	282	188		
21			135	206				370	201	173		
22			132	184				305	158	123		
23			244	489				317	141	169		
24			258	941				358	72	188		
25			141	1,030				493	82	188		
26			132	581				563	107	180		
27			144	180				446	120	180		
28			138	214				420	104	154		
29			138	257				346	97	123		
30			256	247				388	92	144		
31			507	197				340		154		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December 7-31	3,130	46	402	19,900
January	3,480	161	510	31,400
February 1-15	543	206	344	10,200
March				
April				
May 15-31	846	305	468	15,600
June	1,080	72	375	22,300
July	235	33	143	8,790
August 1-6	370	169	300	3,570
September				

Don Pedro Reservoir near La Grange, Calif.

Location.- Staff gage in SW¼ sec. 35, T. 2 S., R. 14 E., at Don Pedro Dam on Tuolumne River, 5½ miles above La Grange.

Records available.- October 1924 to September 1934 (stage only, 1924-30).

Remarks.- This is joint storage reservoir for Turlock and Modesto Irrigation Districts; capacity, 290,000 acre-feet. Elevation of crest of dam, 613.5 feet above mean sea level. Water released from reservoir develops power at dam and is diverted into Turlock and Modesto Canals at La Grange Dam, 4 miles downstream. Record of daily elevation furnished by Turlock and Modesto Irrigation Districts.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	126,600	80,100	80,200	67,700	107,500	159,700	216,500	214,500	205,700	158,400	78,600	29,200
2	123,900	80,100	80,400	78,000	108,300	161,100	217,900	213,900	204,300	155,200	76,000	29,200
3	121,700	80,100	80,700	83,100	109,100	163,100	217,300	213,400	202,400	152,500	73,800	29,200
4	119,500	80,100	80,400	84,600	109,500	165,200	216,200	213,400	200,700	150,300	71,700	29,300
5	117,100	79,900	81,000	85,900	110,300	166,900	215,100	213,600	199,000	147,200	69,600	29,200
6	114,700	79,500	81,100	87,400	111,200	169,500	213,600	213,900	197,100	145,300	67,400	29,300
7	112,400	79,500	81,300	89,000	112,000	171,800	213,100	213,900	195,700	143,100	65,100	29,500
8	110,100	79,500	81,300	90,200	113,200	173,800	212,500	214,600	194,600	140,300	63,000	29,700
9	107,500	79,500	81,600	90,900	115,400	175,900	211,400	215,100	194,100	136,500	61,000	29,800
10	104,900	79,500	81,600	91,700	117,500	177,700	210,500	215,300	193,800	133,700	59,100	30,000
11	103,000	79,500	81,400	92,600	118,200	180,300	209,900	215,300	193,000	130,900	57,300	30,100
12	101,700	79,800	81,700	93,600	119,000	182,200	209,000	215,900	192,400	128,600	55,600	30,400
13	99,400	79,500	83,100	94,100	119,900	183,800	207,700	216,200	191,600	126,400	53,800	30,600
14	97,600	79,500	89,500	95,000	121,400	186,400	207,700	215,900	190,800	123,700	52,700	30,800
15	95,200	79,600	91,500	95,600	122,300	189,200	207,400	215,900	190,200	120,100	51,600	30,900
16	92,100	79,600	91,500	95,900	123,700	191,600	206,600	215,600	190,000	117,500	50,500	30,900
17	90,400	79,800	90,200	96,800	125,700	193,600	206,800	215,300	187,800	114,900	49,200	31,100
18	88,500	79,800	88,500	97,600	127,500	196,500	206,800	214,800	185,400	112,400	48,000	31,200
19	86,700	79,600	86,700	97,900	128,200	199,000	207,700	214,500	183,800	109,700	47,200	31,300
20	85,100	79,500	85,600	98,300	133,500	201,800	208,500	214,500	182,700	107,500	45,300	31,400
21	83,400	79,600	83,900	98,900	137,900	203,200	209,900	213,600	180,900	105,300	43,700	31,400
22	83,100	79,600	81,900	99,600	140,300	205,700	210,800	214,200	179,600	102,400	42,000	31,400
23	82,600	79,600	80,100	100,100	142,600	207,700	211,400	214,500	177,500	99,800	40,600	31,500
24	82,500	79,600	78,100	101,100	147,400	209,000	213,600	213,100	174,900	97,700	39,100	31,500
25	82,300	79,600	76,200	102,000	149,900	210,500	214,800	211,600	171,300	95,200	37,700	31,600
26	82,200	79,800	73,900	103,000	151,800	210,800	215,600	210,800	169,200	93,100	36,400	31,800
27	82,000	79,600	72,400	104,000	155,500	211,400	215,900	209,900	167,200	90,900	35,100	32,000
28	81,000	79,800	70,800	104,500	157,700	212,200	215,600	208,500	165,200	88,500	33,600	32,100
29	79,600	79,900	69,000	104,700		213,100	215,100	208,000	163,100	85,900	32,400	32,200
30	78,700	80,100	67,500	105,500		216,500	214,500	207,400	161,100	83,700	31,200	32,300
31	78,700		66,300	106,700		217,900		206,800		81,300	30,100	

Note.- Contents on Sept. 30, 1933, was 129,100 acre-feet.

Tuolumne River above La Grange Dam, near La Grange, Calif.

Location.- Water-stage recorder in NE¼ sec. 3, T. 3 S., R. 14 E., half a mile below Don Pedro Dam, 3½ miles above La Grange Dam, and 5 miles above La Grange. Altitude, about 330 feet.

Drainage area.- 1,509 square miles (revised).

Records available.- March 1915 to September 1934; 1895 to 1917 at La Grange Dam.

Average discharge.- 18 years (1916-34), 2,010 second-feet.

Extremes.- Maximum discharge during year, 2,910 second-feet Apr. 11 (gage height, 8.97 feet); minimum, 83 second-feet Dec. 8.

1915-34: Maximum discharge, 38,100 second-feet Mar. 25, 1928 (gage height, 29.6 feet); minimum, about 0.5 second-foot momentarily, many days in October and November 1931.

Remarks.- Records good. A small amount of water is diverted for irrigation; diversion through Hetch Hetchy Aqueduct to San Francisco will begin late in 1934. See records for Don Pedro Reservoir, Hetch Hetchy Reservoir, and Lake Eleanor, where water is stored above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,780	788	706	575	635	818	2,270	1,740	1,690	1,880	2,140	810
2	1,800	772	706	550	645	818	2,200	1,710	1,760	1,980	2,150	757
3	1,860	750	650	515	635	818	2,270	1,710	1,730	1,960	2,180	810
4	1,760	766	700	535	600	762	2,270	1,710	1,760	1,880	2,140	630
5	1,800	711	716	575	610	818	2,270	1,740	1,760	1,910	2,070	810
6	1,800	799	706	595	600	818	2,270	1,680	1,780	1,960	2,140	775
7	1,800	794	716	540	625	818	2,270	1,740	1,760	1,960	2,120	790
8	1,710	799	722	610	615	845	2,270	1,740	1,780	1,920	2,150	766
9	1,780	794	711	645	625	845	2,670	1,740	1,800	2,000	2,020	744
10	1,770	804	640	625	635	845	2,750	1,740	1,780	2,030	2,000	757
11	1,860	750	728	635	605	790	2,750	1,740	1,780	2,050	1,930	752
12	1,710	706	733	645	635	845	2,750	1,710	1,840	2,050	1,840	744
13	1,800	755	733	645	635	845	2,590	1,610	1,800	2,020	1,900	744
14	1,780	782	760	595	610	845	2,590	1,610	1,860	2,030	1,440	800
15	1,730	766	1,600	635	635	818	2,590	1,580	1,820	1,940	1,410	820
16	1,750	760	1,660	655	625	818	2,350	1,580	1,840	2,050	1,480	698
17	1,720	772	1,650	650	600	845	2,270	1,580	1,800	2,050	1,550	785
18	1,710	766	1,720	660	515	1,010	2,130	1,580	1,820	2,070	1,560	775
19	1,740	689	1,760	645	555	982	1,780	1,050	1,860	2,020	1,480	757
20	1,680	755	1,730	635	560	1,010	1,780	1,000	1,860	2,030	1,620	744
21	926	755	1,770	575	635	1,010	1,780	1,050	1,880	2,020	1,680	739
22	804	744	1,760	650	762	1,010	1,740	1,050	1,920	1,960	1,600	730
23	843	755	1,790	640	790	1,010	1,740	1,610	1,860	2,050	1,630	680
24	848	744	1,730	635	735	1,280	1,780	1,580	1,820	2,070	1,610	703
25	860	744	1,690	635	685	1,640	1,740	1,580	1,900	2,050	1,600	703
26	860	672	1,800	635	735	1,680	1,710	1,610	1,920	2,070	1,420	703
27	1,060	716	1,760	610	735	1,680	1,740	1,550	1,920	2,100	1,430	680
28	1,330	733	1,780	575	735	1,680	1,740	1,580	1,920	2,070	1,450	698
29	1,260	750	1,760	615		1,680	1,680	1,550	1,910	2,070	1,460	716
30	1,130	706	1,770	630		1,920	1,740	1,550	1,930	2,160	1,460	667
31	832		1,760	625		2,130		1,580		2,200	1,450	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,860	804	1,490	91,600
November	804	672	753	44,800
December	1,800	640	1,270	78,100
January	660	515	613	37,700
February	790	515	643	35,700
March	2,130	762	1,090	67,000
April	2,750	1,680	2,150	128,000
May	1,740	1,000	1,570	96,500
June	1,930	1,690	1,830	109,000
July	2,200	1,880	2,020	124,000
August	2,180	1,410	1,750	108,000
September	830	667	750	44,600
The year	2,750	515	1,330	965,000

Falls Creek near Hetch Hetchy, Calif.

Location.- Water-stage recorder in NE¼ sec. 3, T. 1 N., R. 20 E., in Yosemite National Park, a quarter of a mile above Wampana Falls and 2 miles northeast of Hetch Hetchy. Altitude, about 5,600 feet.

Drainage area.- 45.2 square miles.

Records available.- November 1915 to September 1934.

Average discharge.- 18 years (1916-34), 126 second-feet.

Extremes.- Maximum discharge during year, 453 second-feet May 7 (gage height, 3.88 feet); no flow Oct. 1-29, Nov. 5-20, Aug. 14 to Sept. 26.

1915-34: Maximum discharge, 1,740 second-feet Mar. 25, 1928 (gage height, 6.45 feet); no flow at times during summers of 1921, 1924, 1926, 1928-31, 1933, 1934.

Remarks.- Records excellent except those for Oct. 30 to Nov. 6, Jan. 4 to Feb. 2, July 20-25, July 30 to Aug. 25, which were estimated. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.2	0.6	61	53	68	216	203	72	25	1.3	0
2	0	.2	.4	48	53	93	178	203	58	24	1.0	0
3	0	.1	.7	54	52	125	125	238	51	22	.7	0
4	0	.1	1.1	47	54	148	114	266	48	22	.6	0
5	0	0	1.6	39	54	164	112	324	62	20	.5	0
6	0	0	1.5	30	66	164	140	378	125	17	.4	0
7	0	0	1.4	30	66	155	195	407	164	14	.3	0
8	0	0	1.5	28	125	134	261	362	258	12	.2	0
9	0	0	1.3	26	71	129	272	303	264	11	.2	0
10	0	0	1.2	25	56	129	278	303	244	9	.1	0
11	0	0	1.4	22	46	125	300	327	166	8.5	.1	0
12	0	0	66	22	42	129	297	327	129	8	.1	0
13	0	0	86	20	39	140	349	330	127	7	.1	0
14	0	0	32	20	38	166	346	278	294	6.5	0	0
15	0	0	25	19	40	190	404	252	230	6	0	0
16	0	0	28	19	61	193	356	236	151	5.5	0	0
17	0	0	25	20	62	200	315	203	123	4.9	0	0
18	0	0	23	21	72	213	306	173	114	4.4	0	0
19	0	0	22	22	88	203	324	155	166	4.0	0	0
20	0	0	24	26	78	166	336	142	129	3.6	0	0
21	0	.2	27	22	62	148	352	142	97	3.2	0	0
22	0	.7	31	28	55	146	362	146	80	2.8	0	0
23	0	.7	33	31	61	162	381	144	68	2.5	0	0
24	0	.7	31	25	61	176	294	127	59	2.2	0	0
25	0	.6	29	23	58	200	200	108	49	2.0	0	0
26	0	.5	28	23	62	183	176	106	40	1.9	0	0
27	0	.5	28	34	59	180	213	121	33	1.7	0	0.1
28	0	.5	28	40	58	198	250	104	28	1.6	0	.1
29	0	.7	30	41		340	241	121	26	1.5	0	.1
30	.7	1.4	31	40		309	206	114	25	1.4	0	.1
31	.3		34	46		250		90		1.4	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.7	0	0.03	2.0
November	1.4	0	.24	14.1
December	86	.4	21.7	1,330
January	61	19	30.7	1,890
February	125	38	60.4	3,350
March	340	68	172	10,600
April	404	112	263	15,600
May	407	90	217	13,300
June	294	25	116	6,900
July	25	1.4	8.28	509
August	1.3	0	.18	11.1
September	.1	0	.01	.8
The year	407	0	74.0	53,500

Cherry Creek near Hetch Hetchy, Calif.

Location.- Water-stage recorder in SW¼ sec. 28 (revised), T. 2 N., R. 19 E., 3 miles by trail northwest from Lake Eleanor and 7½ miles northwest of Hetch Hetchy. Altitude, about 4,800 feet.

Drainage area.- 111 square miles.

Records available.- April 1910 to September 1934.

Average discharge.- 24 years, 342 second-feet.

Extremes.- Maximum discharge during year, 1,850 second-feet Dec. 13 (gage height, 6.03 feet); minimum, 0.3 second-foot Sept. 17-18.
1910-34: Maximum discharge, about 7,750 second-feet June 16, 1929 (gage height, 13.57 feet); no flow Sept. 6-12, 1910.

Remarks.- Records good. Release from several small reservoirs maintains summer flow somewhat above normal.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	119	6	372	188	208	592	720	161	36	6	2.2
2	3.3	112	6	211	188	303	468	564	127	33	4.9	1.9
3	3.3	74	8.5	198	182	404	345	568	110	29	4.0	1.6
4	3.3	48	27	182	195	456	314	620	102	27	3.5	1.4
5	3.1	29	34	164	182	484	364	742	255	25	3.3	1.2
6	3.0	19	31	152	231	440	500	832	468	23	3.0	.9
7	3.0	15	29	149	188	404	640	900	544	22	3.0	.8
8	2.6	14	42	138	318	356	742	810	588	22	2.8	.7
9	3.0	13	34	130	179	380	700	680	596	21	2.8	.6
10	3.3	12	34	124	152	368	720	700	660	19	2.4	.5
11	3.3	12	43	112	132	345	765	742	396	17	2.2	.5
12	3.1	11	690	110	135	384	832	720	262	16	2.2	.4
13	3.1	11	788	102	130	424	378	680	288	14	2.0	.4
14	3.0	10	188	102	122	500	900	560	700	12	2.0	.3
15	3.1	10	152	96	146	528	922	508	444	11	2.0	.3
16	3.0	11	141	96	201	528	832	468	284	11	1.9	.3
17	3.0	11	138	102	185	544	788	392	224	10	1.9	.3
18	3.0	9.5	117	107	204	584	788	330	204	9.5	1.7	.3
19	2.8	9	114	112	277	532	332	288	204	9	1.7	.4
20	2.8	8.5	114	130	238	464	878	270	173	8.5	1.6	.8
21	2.8	8	130	112	179	452	968	270	138	8	1.4	.6
22	3.0	7.5	158	141	173	440	945	273	112	7.5	1.4	1.3
23	3.0	7.5	158	155	204	520	1,230	266	96	7.5	1.3	2.4
24	2.8	7.5	146	127	201	568	742	234	82	7	1.2	60
25	2.8	7	141	114	182	568	492	214	71	7	1.0	49
26	2.8	7	138	117	198	524	504	299	62	6.5	1.0	42
27	2.6	6.5	141	155	185	540	600	292	55	6.5	1.0	22
28	2.6	6.5	141	167	173	640	620	238	49	6	1.3	16
29	2.6	6.5	158	170		1,200	584	273	43	6	1.6	12
30	480	6	182	167		832	488	248	39	6	2.0	9
31	241		188	176		660		192		6	2.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	480	2.6	26.0	1,600
November	119	6	20.9	1,240
December	788	6	142	8,730
January	372	96	145	8,920
February	318	122	188	10,400
March	1,200	208	503	30,900
April	1,230	314	699	41,600
May	900	192	480	29,500
June	700	39	251	14,900
July	36	6	14.5	892
August	6	1.0	2.27	140
September	60	.3	7.67	456
The year	1,230	.3	206	149,000

Lake Eleanor near Hetch Hetchy, Calif.

Location.- Water-stage recorder in NW¼ sec. 3, T. 1 N., R. 19 E., at dam on Eleanor Creek 5½ miles northwest of Hetch Hetchy.

Records available.- October 1919 to September 1934 (stage only, 1919-30).

Remarks.- This reservoir is part of Hetch Hetchy water-supply system for San Francisco; capacity, 27,800 acre-feet. Elevation of crest of dam, 4,661.0 feet above mean sea level. Water is released down natural channel of Eleanor Creek, a tributary of Cherry Creek, and discharged into Tuolumne River at Early Intake. Storage below 1,800 acre-feet can not be released.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,030	2,900	2,570	9,130	13,310	21,720	26,040	27,250	28,780	27,720	21,170	9,960
2	5,750	2,900	2,570	9,660	13,470	22,080	25,860	27,910	28,680	27,530	20,630	9,680
3	5,410	2,950	2,570	10,030	13,710	22,620	25,760	28,290	28,680	27,340	20,000	9,480
4	5,070	2,950	2,570	10,370	13,950	23,160	25,760	28,490	28,680	27,340	19,460	9,270
5	4,790	3,000	2,570	10,610	14,190	23,900	25,670	28,580	28,580	27,070	18,830	9,000
6	4,450	3,000	2,570	10,850	14,520	24,650	25,760	28,580	28,580	26,880	18,300	8,790
7	4,060	3,050	2,570	11,090	14,860	25,300	25,760	28,580	28,680	26,600	17,790	8,510
8	3,730	3,000	2,610	11,320	15,380	25,670	25,860	28,580	28,780	26,320	17,180	8,310
9	3,480	3,000	2,610	11,480	15,810	25,860	25,950	28,580	28,780	26,140	16,670	8,030
10	3,480	2,950	2,610	11,640	16,150	25,860	25,950	28,580	28,780	25,860	16,070	7,830
11	3,480	2,950	2,660	11,720	16,320	25,860	25,950	28,580	28,870	25,670	15,550	7,480
12	3,440	2,950	3,240	11,800	16,500	25,860	25,950	28,680	28,780	25,480	14,950	7,280
13	3,440	2,950	4,680	11,880	16,580	25,860	25,950	28,680	28,780	25,300	14,430	7,000
14	3,390	2,950	5,410	11,880	16,760	25,860	25,950	28,680	28,780	25,110	14,030	6,760
15	3,340	2,900	5,750	11,960	16,840	25,950	25,950	28,680	28,780	24,830	13,790	6,600
16	3,290	2,900	6,030	11,960	17,100	25,950	25,950	28,680	28,780	24,650	13,630	6,370
17	3,240	2,900	6,200	11,960	17,360	25,950	25,950	28,680	28,870	24,460	13,390	6,140
18	3,240	2,900	6,260	11,960	17,700	25,950	25,950	28,680	28,780	24,280	13,230	5,860
19	3,190	2,850	6,370	11,960	18,130	25,950	25,950	28,680	28,780	24,090	13,000	5,640
20	3,140	2,850	6,480	11,960	18,560	25,950	25,950	28,680	28,780	23,810	12,760	5,410
21	3,100	2,800	6,540	12,040	18,940	25,950	25,950	28,680	28,780	23,620	12,520	5,240
22	3,100	2,760	6,650	12,120	19,280	25,860	25,950	28,780	28,870	23,340	12,280	5,020
23	3,050	2,760	6,820	12,120	19,730	25,760	25,950	28,780	28,870	23,160	12,040	4,900
24	3,000	2,760	7,070	12,280	20,090	25,860	25,950	28,680	28,870	22,980	11,800	4,900
25	2,950	2,710	7,280	12,360	20,450	25,950	25,860	28,680	28,780	22,710	11,560	4,850
26	2,950	2,660	7,480	12,360	20,810	25,950	25,760	28,680	28,680	22,530	11,320	4,790
27	2,900	2,660	7,620	12,360	21,080	25,860	26,040	28,680	28,490	22,350	11,090	4,730
28	2,850	2,660	7,760	12,440	21,440	25,860	26,320	28,680	28,390	22,170	10,850	4,680
29	2,800	2,610	8,030	12,680		26,140	26,690	28,680	28,200	21,900	10,610	4,620
30	2,800	2,610	8,310	12,840		26,230	26,970	28,680	27,910	21,720	10,300	4,560
31	2,850		8,580	13,070		26,140		28,780		21,440	10,100	

Note.- Contents on Sept. 30, 1933, was 6,370 acre-feet.

Eleanor Creek near Hetch Hetchy, Calif.

Location.- Water-stage recorder in SW¼ sec. 3, T. 1 N., R. 19 E., in Yosemite National Park, a third of a mile below Lake Eleanor Dam and 5½ miles northwest of Hetch Hetchy. Altitude, about 4,600 feet.

Drainage area.- 79 square miles (above dam site in sec. 3, T. 1 N., R. 19 E.).

Records available.- November 1909 to September 1934.

Average discharge.- 24 years (1910-34), 207 second-feet.

Extremes.- Maximum discharge during year, 635 second-feet June 14 (gage height, 4.70 feet); no flow Dec. 6.

1909-34: Maximum discharge, 6,400 second-feet Mar. 25, 1928 (gage height, 11.0 feet); no flow Sept. 8-14, 1910; Oct. 15-21, 1930; Nov. 19, 22, 23, 1931; Dec. 6, 1933.

Remarks.- Records excellent. No diversions. See record for Lake Eleanor, which stores water above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	160	0.1	13	8.5	1.0	1.2	392	11	78	129	188	117
2	160	.1	13	2.9	1.0	1.1	332	39	66	129	310	117
3	160	.1	13	2.3	.9	1.0	274	115	58	47	307	117
4	160	.1	12	2.0	.6	.9	225	198	31	87	307	117
5	160	.1	.3	1.7	.5	.8	205	220	18	131	307	117
6	160	.1	0	1.5	.7	1.0	208	238	159	129	307	117
7	160	11	.2	6.5	.5	30	238	259	202	137	307	117
8	160	12	.2	11	1.6	170	266	265	247	142	310	117
9	79	13	.2	21	.8	253	310	256	283	139	313	117
10	20	13	.2	28	15	280	316	244	328	112	313	117
11	20	13	.2	35	44	286	319	241	235	100	316	117
12	15	13	2.8	46	34	292	325	225	172	102	316	117
13	16	13	4.0	61	35	304	339	195	131	102	275	117
14	18	13	1.9	66	35	325	346	202	305	102	123	117
15	18	13	1.4	66	35	356	364	192	292	102	123	117
16	18	13	20	66	36	367	364	152	172	100	119	117
17	18	13	41	65	13	367	342	114	133	100	117	115
18	18	13	50	64	1.6	378	316	133	123	102	117	108
19	18	13	44	64	2.9	374	301	125	98	107	117	108
20	18	13	41	64	2.6	346	295	115	48	107	117	108
21	18	13	50	61	1.9	322	301	64	57	108	117	108
22	18	13	43	60	1.9	304	313	68	59	108	117	75
23	18	13	13	60	3.4	307	370	84	54	108	117	30
24	18	13	9.5	60	2.3	356	364	91	48	107	117	27
25	18	13	29	60	1.9	374	313	90	52	107	117	26
26	18	13	29	59	2.9	356	205	102	85	107	117	26
27	18	13	22	60	2.0	325	3.8	107	96	110	115	26
28	19	13	9	60	1.5	316	4.2	102	105	112	117	26
29	19	13	13	22		478	5	96	119	112	117	26
30	20	13	7.5	1.5		550	6.5	105	131	112	117	26
31	6.5		9	1.1		462		94		112	119	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	160	6.5	56.3	3,460
November	13	.1	10.3	613
December	50	0	15.9	978
January	66	1.1	38.3	2,360
February	44	.5	9.98	554
March	550	.8	267	16,400
April	392	3.8	267	15,900
May	265	11	147	9,040
June	328	18	133	7,910
July	142	47	110	6,760
August	316	115	193	11,900
September	117	26	90.2	5,370
The year	550	0	112	81,200

South Fork of Tuolumne River near Oakland Recreation Camp, Calif.

Location.- Water-stage recorder in SE¼ sec. 29 (revised), T. 1 S., R. 18 E., 75 feet below highway bridge on Big Oak Flat road and half a mile southwest of Oakland Recreation Camp. Altitude, about 2,800 feet.

Drainage area.- 87.6 square miles.

Records available.- March 1923 to September 1934.

Average discharge.- 11 years, 56.2 second-feet.

Extremes.- Maximum discharge during year, 596 second-feet Jan. 1 (gage height, 4.30 feet); minimum, 0.3 second-foot Aug. 23.
1923-34: Maximum discharge, about 1,500 second-feet Apr. 16, 1923 (gage height, 7.03 feet); minimum, that of Aug. 23, 1934.

Remarks.- Records good. Discharge estimated Sept. 2-20 and 24-30. Stage-discharge relation slightly affected by ice Nov. 30 and a few days in December and January. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	12	4.9	400	24	73	101	56	16	7	2.3	1.0
2	3.2	8.5	6	156	26	71	87	53	15	6.5	2.1	1.0
3	3.1	7.5	12	75	26	75	73	62	14	6	2.1	1.0
4	3.0	7	12	55	26	78	70	56	14	5	2.1	1.0
5	3.0	6.5	7	44	27	85	71	52	15	5	2.0	1.0
6	2.9	6	6.5	38	37	85	83	50	22	5	2.0	1.0
7	2.8	6	7.5	35	37	83	91	47	24	4.8	2.0	1.0
8	2.9	6	6.5	30	60	77	101	43	22	4.7	2.0	1.0
9	3.0	6	7.5	26	51	77	99	39	24	4.7	1.7	1.0
10	3.0	6	8	28	40	77	97	36	22	4.6	1.6	1.0
11	3.1	6	8	24	35	73	101	33	16	4.3	1.6	1.0
12	3.2	6	73	26	32	72	109	30	15	4.0	1.5	.9
13	3.2	6	171	23	31	75	105	29	14	3.8	1.5	.9
14	3.3	6	56	21	30	80	105	26	20	3.6	1.2	.9
15	3.3	6	31	16	36	85	109	24	20	3.5	1.2	.9
16	3.2	6	21	18	72	85	102	22	16	3.5	1.2	.9
17	3.3	6	19	20	58	87	91	20	13	3.3	1.3	.9
18	3.2	6	20	18	50	91	91	19	12	3.2	1.2	.9
19	3.2	6	17	19	98	87	85	18	12	3.0	1.2	1.0
20	3.2	6	16	19	128	77	81	17	11	3.0	.8	1.0
21	3.2	6	15	19	83	73	85	16	11	2.9	.5	1.1
22	3.4	6	16	20	73	71	83	15	10	2.9	.4	1.2
23	3.5	6	16	22	199	73	110	14	9.5	3.0	.4	1.3
24	3.5	5.5	17	24	122	85	83	14	9	2.8	1.0	1.3
25	3.4	5.5	17	24	88	87	67	17	8.5	2.8	.7	1.3
26	3.5	5.5	17	22	132	81	65	24	8.5	2.8	.5	1.8
27	3.5	5.5	17	20	109	83	63	24	8.5	2.6	1.0	2.8
28	3.5	6	17	20	84	85	60	22	8.5	2.4	1.4	2.5
29	3.6	6	20	21		107	54	23	7.5	2.4	1.2	1.8
30	8	5	43	22		117	50	22	7	2.4	1.2	1.8
31	26		67	23		101		18		2.5	1.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	26	2.8	4.11	253
November	12	5	6.28	374
December	171	4.9	24.9	1,530
January	400	16	42.8	2,630
February	199	24	64.7	3,590
March	117	71	82.5	5,070
April	110	50	85.7	5,100
May	62	14	30.3	1,860
June	24	7	14.2	845
July	7	2.4	3.81	234
August	2.3	.4	1.35	83.0
September	2.8	.9	1.21	72.0
The year	400	.4	29.9	21,600

Middle Tuolumne River near Buck Meadows, Calif.

Location.- Water-stage recorder in NW¼ sec. 28, T. 1 S., R. 18 E., half a mile above junction with SouthFork of Tuolumne River and 4 miles east of Buck Meadows. Altitude, about 2,800 feet.

Drainage area.- 71.0 square miles.

Records available.- November 1916 to September 1934.

Average discharge.- 17 years (1917-34), 57.1 second-feet.

Extremes.- Maximum discharge during year, 372 second-feet Dec. 13 (gage height, 4.49 feet); no flow Sept. 11-17.
1917-34: Maximum discharge, 1,330 second-feet May 28, 1919 (gage height, 8.15 feet); no flow Sept. 4-14, 1924, Aug. 12 to Oct. 5, 1931, Sept. 11-17, 1934.

Remarks.- Records good except those for Oct. 26 to Nov. 1 and Nov. 22, which were estimated. Stage-discharge relation slightly affected by ice Jan. 6-11, 14-19, and 25-26. Small irrigation diversion above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	5	1.3	220	7.5	27	86	80	20	5.5	0.4	0.1
2	.5	3.2	1.6	54	8	26	76	75	18	4.6	.5	.1
3	.4	2.5	2.8	23	6	26	65	88	16	4.3	.4	.1
4	.4	2.1	3.7	16	9	28	59	83	15	4.0	.3	.1
5	.4	1.9	2.1	13	9.5	30	60	66	17	3.6	.3	.2
6	.4	1.8	2.0	10	12	32	69	86	24	3.0	.2	.1
7	.4	1.6	2.3	9	12	32	84	79	29	2.8	.2	.1
8	.4	1.5	2.0	8	23	30	95	71	30	2.8	.2	.1
9	.4	1.5	2.1	7	23	32	97	62	32	2.7	.2	.1
10	.4	1.4	2.3	8.5	16	33	99	60	32	2.6	.2	.1
11	.4	1.4	2.3	6.5	14	35	107	55	24	2.4	.2	0
12	.5	1.3	23	8	13	36	112	49	19	2.2	.2	0
13	.5	1.3	110	7	12	39	123	43	17	1.6	.2	0
14	.5	1.3	26	5.5	12	43	123	36	31	1.3	.2	0
15	.5	1.4	12	5.5	16	47	135	33	29	1.3	.2	0
16	.5	1.4	8.5	5.5	34	51	129	30	21	1.2	.2	0
17	.4	1.4	6	6	22	54	123	28	16	1.3	.2	0
18	.4	1.4	7.5	5.5	19	57	125	26	15	1.2	.2	.1
19	.4	1.4	7	5.5	39	58	123	24	14	1.0	.1	.1
20	.4	1.3	5.5	6	55	52	115	22	13	.8	.1	.1
21	.4	1.3	5.5	5.6	31	49	120	21	12	.8	.1	.1
22	.5	1.4	5	6.5	30	47	125	19	11	.8	.1	.1
23	.5	1.4	5.5	7	76	47	145	18	10	.8	.1	.1
24	.6	1.4	5.5	7	47	62	117	16	9	.8	.1	.4
25	.6	1.4	5	6.5	32	62	95	18	8	.7	.1	.4
26	.6	1.4	5	6.5	64	60	95	22	8	.7	.1	.6
27	.6	1.4	5	6.5	40	61	97	31	7.5	.6	.1	1.0
28	.6	1.4	5	6.5	30	63	92	27	7	.5	.1	.7
29	.6	1.4	5.5	7		83	85	28	6.5	.5	.1	.6
30	2.0	1.4	11	7		96	78	32	6	.6	.1	.6
31	7		34	7.5		90		24		.4	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	7	0.4	0.74	45.2
November	5	1.3	1.67	99.4
December	110	1.3	10.4	640
January	220	5.5	16.2	996
February	76	7.5	25.5	1,420
March	96	26	48.0	2,950
April	145	59	102	6,070
May	88	16	44.3	2,720
June	32	6	17.2	1,020
July	5.5	.4	1.85	114
August	.5	.1	.19	11.5
September	1.0	0	.20	11.9
The year	220	0	22.2	16,100

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Woods Creek near Jacksonville, Calif.

Location.- Water-stage recorder in SW¼ sec. 12, T. 1 S., R. 14 E., 1½ miles above mouth and 1½ miles northwest of Jacksonville. Altitude, about 645 feet.

Drainage area.- 98.4 square miles.

Records available.- October 1925 to September 1934.

Extremes.- Maximum discharge during year, 1,700 second-feet Jan. 1 (gage height, 4.39 feet); no flow Oct. 1-29 and July 6 to Sept. 30.
1925-34: Maximum discharge, 9,580 second-feet Feb. 6, 1932 (gage height, 8.50 feet); no flow at times during summers, 1929-34.

Remarks.- Records good except those for Oct. 30-31, which were estimated. No diversions. At times water from Stanislaus drainage is spilled into Woods Creek above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	6	3.4	865	13	64	9	9.5	14	1.3		
2	0	5	3.4	224	13	49	18	10	12	1.3		
3	0	4.5	8.5	74	12	44	16	8.5	10	1.2		
4	0	4.0	14	50	12	40	10	7	8	.6		
5	0	3.8	8.5	37	12	34	9.5	6	7	.2		
6	0	4.0	7	31	13	31	8	5.5	7	0		
7	0	4.0	6.5	30	15	26	7	4.8	8	0		
8	0	3.8	6.5	26	139	21	6	6	6	0		
9	0	3.5	6	25	64	19	6	12	13	0		
10	0	3.5	6	25	30	18	6	11	15	0		
11	0	3.5	6	22	22	16	6	10	15	0		
12	0	3.2	16	19	17	15	6	6	14	0		
13	0	3.0	268	19	16	14	6	4.8	13	0		
14	0	2.9	136	17	15	12	5	4.2	14	0		
15	0	2.8	198	17	21	12	5.5	6	14	0		
16	0	2.8	98	17	199	12	6	6.5	12	0		
17	0	2.9	42	17	74	12	6	6.5	7	0		
18	0	2.8	27	15	41	10	5.5	7	5.5	0		
19	0	2.8	23	15	435	10	5	12	4.5	0		
20	0	2.8	21	17	374	10	5	10	3.8	0		
21	0	2.9	21	16	108	9.5	4.8	11	3.5	0		
22	0	2.9	17	14	85	9.5	5	12	3.0	0		
23	0	2.8	15	15	433	10	6	13	2.8	0		
24	0	2.8	13	27	150	10	7	11	2.0	0		
25	0	2.9	13	22	88	9.5	7	24	1.9	0		
26	0	2.9	11	16	260	9.5	6.5	27	1.9	0		
27	0	2.9	10	14	126	9	6	16	2.0	0		
28	0	2.8	9.5	13	80	9	6	13	2.0	0		
29	0	2.9	13	12		10	6	16	1.6	0		
30	100	3.2	74	12		10	6	22	1.4	0		
31	45		134	12		9		16		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	100	0	4.68	288
November	6	2.8	3.35	199
December	268	3.4	39.8	2,450
January	865	12	56.0	3,440
February	435	12	102	5,660
March	64	9	18.5	1,140
April	18	4.8	7.06	420
May	27	4.2	10.8	664
June	15	1.4	7.50	446
July	1.3	0	.15	9.1
August	0	0	0	0
September	0	0	0	0
The year	865	0	20.4	14,700

Note.- No flow during months left blank.

Modesto Canal near La Grange, Calif.

Location.- Water-stage recorder in SW¼ sec. 17, T. 3 S., R. 14 E., about 1 mile below intake at La Grange Dam, on Tuolumne River, and half a mile northeast of La Grange. Altitude, about 260 feet.

Records available.- April 1903 to September 1934.

Average discharge.- 27 years (1907-34), 346 second-feet.

Extremes.- Maximum mean daily discharge during year, 1,120 second-feet Oct. 18; no flow at times.
1903-34: Maximum mean daily discharge, 1,700 second-feet June 13-15, 1930; no flow at times.

Remarks.- Records excellent. Canal diverts from right bank of Tuolumne River at La Grange Dam. Water used for irrigation in Modesto and Waterford irrigation districts. Gage-height record and results of several discharge measurements furnished by Modesto Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	460	28		0	275	99	512	684	660	704	808	57
2	458	0		0	276	97	474	669	660	724	805	59
3	456	0		0	275	97	372	667	646	719	805	59
4	390	0		61	274	103	370	664	628	691	776	59
5	361	0		196	269	101	369	638	578	713	733	60
6	362	0		198	268	98	369	616	502	740	695	60
7	352	0		192	270	97	368	602	473	755	680	60
8	341	0		234	270	97	366	566	466	750	684	60
9	460	0		270	269	97	756	538	473	750	702	59
10	844	0		269	268	96	787	550	466	752	650	59
11	847	0		268	269	105	911	558	516	750	638	59
12	621	0		265	274	112	893	572	566	762	638	58
13	578	0		267	273	105	885	588	600	767	640	58
14	1,060	0		268	271	81	883	598	646	767	642	59
15	1,110	0		267	274	88	851	630	667	767	642	60
16	1,120	0		275	274	258	813	630	689	772	638	59
17	1,090	0		279	197	238	762	624	689	788	640	31
18	1,060	0		280	102	230	705	624	650	772	640	9.5
19	1,090	0		280	105	231	701	620	632	745	644	6
20	1,090	0		280	106	232	703	626	630	743	598	6
21	357	0		277	107	231	707	652	636	745	550	6
22	212	0		277	115	232	701	652	642	743	528	6
23	213	0		280	94	233	703	650	642	764	532	6
24	284	0		281	110	232	701	646	662	764	534	8
25	235	0		282	111	234	699	622	667	728	534	6
26	263	0		276	109	306	696	622	680	722	532	4
27	400	0		275	106	373	694	606	693	726	534	3
28	633	0		271	108	370	699	610	704	769	536	2
29	597	0		270		372	690	654	704	781	536	2
30	515	0		273		370	699	660	700	793	540	2
31	254			273		403		662		803	472	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,120	212	584	35,900
November	28	0	.9	55.5
December	0	0	0	0
January	282	0	232	14,300
February	276	94	204	11,300
March	403	81	194	11,900
April	911	366	661	39,300
May	684	538	623	38,300
June	704	466	619	36,800
July	803	691	751	46,200
August	808	472	630	38,700
September	60	2	34.7	2,060
The year	1,120	0	380	275,000

Note.- No flow in December.

Turlock Canal near La Grange, Calif.

Location.- Water-stage recorder near north line of NW¼ sec. 21, T. 3 S., R. 14 E., 2,400 feet below intake at La Grange Dam and 1¼ miles east of La Grange. Altitude, about 265 feet.

Records available.- July 1899 to September 1934.

Average discharge.- 27 years (1907-34), 527 second-feet.

Extremes.- Maximum mean daily discharge during year, 1,880 second-feet Apr. 10; no flow at times November to February.

1907-34: Maximum mean daily discharge, 1,900 second-feet several days in May 1928; no irrigation flow during periods each year. A small flow is usually carried for town of La Grange but there was no flow at times November 1933 to February 1934.

Remarks.- Records good. Discharge estimated Oct. 10-30, Nov. 4-11, Feb. 20-21. Canal diverts from left bank of Tuolumne River at La Grange Dam. Water is used for irrigation in Turlock Irrigation District and to supply town of La Grange. During fall and winter water is diverted from canal at tunnel a third of a mile above gage, and after passing through La Grange power plant returns to river. Gage-height record furnished by Turlock Irrigation District, through R. V. Meikle, chief engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	734	13	0	27	0	704	1,760	1,030	983	1,130	1,340	856
2	780	13	107	2.4	0	713	1,740	1,040	1,050	1,180	1,300	706
3	800	13	67	1.2	0	697	1,840	1,040	1,050	1,180	1,320	752
4	816	11	119	1.0	0	673	1,850	1,050	1,120	1,180	1,350	774
5	842	10	126	.7	0	693	1,860	1,070	1,140	1,160	1,320	772
6	860	10	117	.7	0	710	1,850	1,070	1,230	1,150	1,320	726
7	850	10	122	.5	0	715	1,860	1,100	1,230	1,120	1,420	732
8	764	10	136	.7	0	715	1,830	1,130	1,250	1,110	1,450	713
9	97	10	159	.7	0	717	1,820	1,170	1,250	1,180	1,360	695
10	21	10	59	.4	0	719	1,880	1,230	1,240	1,200	1,320	697
11	21	4	139	.4	0	686	1,850	1,140	1,210	1,220	1,300	695
12	21	0	145	.4	0	699	1,820	1,120	1,180	1,210	1,220	695
13	21	0	153	.4	0	739	1,680	1,030	1,160	1,180	1,250	675
14	21	0	168	.4	0	739	1,680	952	1,120	1,170	820	746
15	21	0	659	.4	0	763	1,700	904	1,090	1,120	776	750
16	21	0	749	.4	0	572	1,550	923	1,080	1,180	842	660
17	21	0	752	.4	0	574	1,480	928	1,040	1,200	938	728
18	21	0	660	.4	0	750	1,440	935	1,100	1,240	942	765
19	21	0	375	.4	0	743	1,050	424	1,140	1,220	890	735
20	21	0	214	.4	1.6	752	1,040	348	1,170	1,230	1,020	739
21	21	0	355	0	350	750	1,060	326	1,180	1,250	1,140	724
22	21	0	296	0	673	750	1,040	324	1,190	1,190	1,150	717
23	21	0	319	0	686	759	1,010	897	1,160	1,250	1,050	671
24	21	0	281	0	620	957	1,030	928	1,110	1,280	1,110	677
25	21	0	275	0	585	1,410	1,020	935	1,160	1,290	1,180	675
26	21	0	309	0	625	1,390	1,020	952	1,150	1,290	966	669
27	19	0	264	0	631	1,330	1,020	935	1,160	1,340	942	664
28	17	0	264	0	625	1,330	1,020	935	1,120	1,270	981	684
29	16	0	290	0		1,330	986	868	1,130	1,240	998	695
30	14	0	291	0		1,500	1,000	885	1,160	1,330	986	651
31	12		272	0		1,640		899		1,360	1,040	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	860	12	225	13,800
November	13	0	3.80	226
December	752	0	266	16,400
January	27	0	1.27	78.1
February	686	0	171	9,500
March	1,640	572	878	54,000
April	1,880	986	1,460	86,900
May	1,230	324	920	56,600
June	1,250	983	1,150	68,400
July	1,360	1,110	1,210	74,400
August	1,450	776	1,130	69,500
September	856	661	715	42,500
The year	1,880	0	680	492,000

Middle Fork of Stanislaus River at Sand Bar Flat, near Avery, Calif.

Location.- Water-stage recorder in sec. 19, T. 4 N., R. 17 E., half a mile upstream from Pacific Gas & Electric Co. diversion dam at Sand Bar Flat, and 11 miles southeast of Avery. Altitude, about 2,450 feet.

Drainage area.- 329 square miles, above diversion dam.

Records available.- September 1905 to September 1934.

Average discharge.- 28 years (1905-8, 1909-34), 656 second-feet.

Extremes.- Maximum mean daily discharge during year, 1,110 second-feet Mar. 29; minimum. 59 second-feet Nov. 29.
1905-34: Maximum mean daily discharge, 9,760 second-feet Mar. 19, 1907; minimum, 30 second-feet Aug. 24, 1924.

Remarks.- Diversion into Middle Fork from South Fork above station; storage at Relief Reservoir. Record of daily discharge furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	102	173	89	322	239	267	812	546	415	311	121	129
2	100	153	104	270	259	303	717	533	383	300	119	132
3	99	153	114	247	265	394	633	596	375	300	114	134
4	98	147	111	238	270	438	600	593	375	289	112	134
5	97	134	97	219	283	530	589	667	407	267	111	158
6	95	118	94	209	289	520	627	739	449	253	110	188
7	95	117	98	202	253	511	680	796	490	236	108	198
8	95	117	98	196	303	490	749	772	579	229	107	200
9	95	114	104	182	270	508	728	684	702	219	104	200
10	95	114	110	198	232	526	687	710	742	209	101	203
11	95	112	111	188	213	517	721	831	646	202	101	205
12	95	111	189	190	213	559	746	1,000	627	198	99	153
13	94	111	474	183	209	583	788	1,000	687	193	97	100
14	94	111	247	175	207	640	800	839	943	185	96	95
15	93	97	193	172	221	680	851	796	796	177	96	91
16	94	97	162	167	251	698	780	804	687	174	96	89
17	94	97	147	178	238	684	735	760	732	167	95	87
18	94	107	166	178	232	706	706	687	725	162	93	149
19	93	108	164	183	296	721	721	636	710	157	93	193
20	94	93	156	190	334	680	742	617	596	152	92	202
21	93	94	155	185	334	677	812	627	536	147	92	202
22	93	94	162	191	259	656	816	650	499	144	93	200
23	93	93	170	207	307	684	864	643	478	143	95	209
24	94	93	170	215	287	725	742	606	440	137	96	227
25	94	103	171	196	272	735	630	546	391	135	95	223
26	94	102	173	200	289	706	579	569	360	132	93	221
27	94	88	175	209	287	698	593	600	322	129	97	225
28	93	82	156	215	265	742	617	542	292	125	108	225
29	93	59	193	225		1,110	600	539	287	122	103	225
30	115	93	218	232		983	546	502	307	124	97	221
31	252		218	238		880		469		126	97	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	252	93	101	6,210
November	173	59	110	6,550
December	474	89	161	9,900
January	322	167	206	12,700
February	334	207	263	14,600
March	1,110	267	631	38,800
April	864	546	707	42,100
May	1,000	469	674	41,400
June	943	287	533	31,700
July	311	122	189	11,600
August	121	92	101	6,210
September	227	87	174	10,400
The year	1,110	59	321	232,000

Melones Reservoir at Melones Dam, Calif.

Location.- Staff gage and reference point near center of sec. 11, T. 1 N., R. 13 E., at Melones Dam, on Stanislaus River.

Records available.- June 1927 to September 1934.

Remarks.- Water is stored in reservoir for irrigation use; capacity, 112,500 acre-feet. Elevation of crest of dam, 723 feet above mean sea level. Released water flows down Stanislaus River to Goodwin Dam where it is diverted into Oakdale and South San Joaquin Canals. Part of released water passes through power house 1 mile below Melones Dam. Record of daily contents furnished by Pacific Gas & Electric Co.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16,580	7,778	12,478	10,194	18,520	55,838	99,550	107,100	106,736	96,700	49,057	10,977
2	16,015	8,186	12,525	13,237	19,190	57,236	100,570	106,736	106,372	97,510	47,406	10,892
3	15,343	8,570	12,763	13,980	19,878	58,783	101,080	106,372	105,826	96,325	45,587	10,807
4	14,701	8,858	13,000	13,930	20,649	59,506	101,250	106,554	105,280	95,153	44,024	10,639
5	14,030	9,038	12,070	13,730	21,500	62,710	101,080	106,372	104,734	93,980	42,400	10,396
6	13,430	9,338	11,020	13,237	22,390	65,395	100,910	106,554	104,006	92,335	40,721	10,356
7	12,810	9,528	10,153	12,572	23,225	67,645	100,910	106,918	103,642	90,710	39,178	10,315
8	12,205	9,642	9,376	13,285	24,437	69,680	101,080	107,100	103,642	89,121	37,580	10,275
9	11,487	9,756	9,606	12,715	25,914	71,920	101,590	107,466	103,824	87,400	36,215	10,234
10	10,977	9,870	8,050	12,160	26,992	73,922	101,590	107,466	104,552	85,726	35,048	10,032
11	10,477	10,032	8,286	11,575	27,940	76,092	102,270	107,832	105,280	83,771	33,980	9,832
12	9,951	10,032	7,846	11,020	28,820	78,138	102,780	108,198	105,462	82,430	32,931	9,642
13	9,566	10,275	7,914	10,477	29,730	80,350	103,120	109,113	105,644	80,645	31,659	9,528
14	9,186	10,457	9,338	10,113	30,477	82,877	103,824	109,662	105,644	79,023	30,560	9,338
15	8,822	10,518	11,360	10,659	31,236	84,823	104,370	109,845	107,100	77,406	29,398	9,186
16	8,320	10,680	11,575	10,194	31,997	87,869	104,916	110,028	108,015	75,654	28,340	8,930
17	8,186	10,765	11,575	9,951	33,115	90,385	105,280	110,211	108,198	73,922	27,223	8,570
18	8,084	10,935	11,710	10,356	34,158	92,985	105,462	110,211	108,198	72,060	26,222	8,254
19	7,880	11,105	10,977	10,807	35,048	93,478	105,644	109,845	108,198	70,520	25,172	7,982
20	7,744	11,275	10,457	11,275	37,398	93,478	106,008	109,296	108,198	68,860	24,006	7,880
21	7,646	11,360	9,794	11,710	39,751	93,478	106,196	108,930	108,015	67,240	22,870	7,948
22	7,678	11,445	9,262	12,340	41,400	93,478	106,554	108,564	107,466	65,656	21,911	7,846
23	7,614	11,575	8,822	12,858	43,300	93,310	106,918	108,198	106,918	63,839	20,714	7,812
24	7,358	11,665	8,678	13,430	46,229	93,478	107,832	107,832	106,008	62,208	19,440	7,744
25	7,262	11,755	9,148	14,130	48,172	93,478	108,564	107,649	105,098	60,604	18,340	7,880
26	7,070	11,890	8,786	14,701	49,830	93,645	108,747	107,283	104,188	59,140	16,986	7,846
27	6,920	12,160	8,498	15,236	52,447	93,645	108,198	106,918	103,120	57,474	15,733	7,914
28	6,710	12,295	8,220	15,789	54,410	93,815	108,015	106,918	102,100	55,838	14,541	7,982
29	6,650	12,430	8,016	16,523		93,980	107,832	106,918	101,080	54,279	13,333	7,982
30	6,830	12,430	8,084	17,218		96,660	107,466	107,100	99,890	52,447	12,205	7,982
31	7,166		8,858	17,860		98,530		106,918		50,738	11,147	

Note.- Contents on Sept. 30, 1933, was 17,102 acre-feet.

Stanislaus River below Melones power house, Calif.

Location.- Water-stage recorder near line between secs. 10 and 15, T. 1 N., R. 13 E., 300 feet below power house and 1 mile below Melones Dam. Altitude, about 500 feet.

Drainage area.- 898 square miles.

Records available.- January 1931 to September 1934.

Extremes.- Maximum discharge during year, 2,940 second-feet Mar. 26 (gage height, 7.44 feet); minimum, 5 second-feet Jan. 23.
1931-34: Maximum discharge, 10,800 second-feet May 18, 1932 (gage height, 12.36 feet); minimum (estimated), 1 second-foot Feb. 6, 1933.

Remarks.- Records good. Numerous diversions and several storage reservoirs above station. See record for Melones Reservoir. Gage-height record furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	380	90	92	561	74	52	1,250	1,180	678	875	943	156
2	422	85	92	756	75	50	1,210	1,180	685	875	943	156
3	434	82	15	714	70	49	1,200	1,190	715	884	952	168
4	428	84	657	750	12	24	1,200	1,180	700	884	952	175
5	428	9	708	732	67	51	1,190	1,190	700	943	960	172
6	422	88	584	713	80	49	1,190	1,180	655	1,100	909	172
7	422	86	543	14	82	50	1,200	1,180	648	1,100	859	200
8	422	88	550	690	88	48	1,180	1,190	685	1,090	819	253
9	398	97	443	606	78	47	1,190	1,180	739	1,080	731	245
10	362	86	15	633	71	49	1,190	1,100	771	1,070	648	241
11	356	90	398	624	9.5	25	1,160	1,100	771	1,030	626	241
12	326	11	404	624	37	51	1,180	1,080	771	1,040	626	244
13	276	83	401	541	43	50	1,190	1,110	771	1,040	648	238
14	287	84	464	14	47	50	1,180	1,100	771	1,040	633	240
15	326	84	611	544	49	52	1,180	1,050	763	1,030	626	232
16	267	84	650	417	49	50	1,180	1,000	771	1,020	619	244
17	168	86	14	79	49	56	1,180	996	787	1,000	619	242
18	170	96	643	87	22	726	1,180	996	795	969	619	240
19	168	10	568	85	53	1,370	1,180	1,000	795	960	626	240
20	174	88	544	81	53	1,390	1,180	987	795	952	605	239
21	174	90	526	12	53	1,410	1,180	996	803	952	591	239
22	109	88	524	84	56	1,350	1,180	918	867	943	685	240
23	188	80	596	73	57	1,350	1,180	867	900	943	708	232
24	185	92	12	76	60	1,460	1,190	867	884	952	700	233
25	190	82	402	79	28	1,390	1,190	851	884	952	700	233
26	189	15	396	75	60	1,610	1,190	811	884	952	692	232
27	185	67	406	73	51	1,410	1,180	763	864	943	685	233
28	170	94	404	6	50	1,460	1,180	739	884	943	678	230
29	12	90	401	72		1,410	1,180	700	875	943	678	234
30	177	94	394	73		1,330	1,190	700	875	943	670	245
31	170		18	74		1,250		692		943	415	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	434	12	270	16,600
November	97	9	76.8	4,570
December	708	12	396	24,300
January	756	6	321	19,700
February	88	9.5	54.4	3,020
March	1,610	24	636	39,100
April	1,250	1,160	1,190	70,800
May	1,190	692	1,000	61,500
June	900	648	784	46,700
July	1,100	875	980	60,300
August	960	415	715	44,000
September	253	156	223	13,300
The year	1,810	6	558	404,000

North Fork of Stanislaus River near Avery, Calif.

Location.- Water-stage recorder in sec. 35, T. 5 N., R. 15 E., 700 feet above intake of Utica Mining Co.'s canal and 5 miles northeast of Avery. Altitude, about 3,400 feet.

Drainage area.- 163 square miles.

Records available.- July 1914 to September 1922, November 1928 to September 1934.

Average discharge.- 13 years (1914-22, 1929-34), 378 second-feet.

Extremes.- Maximum discharge during year, 2,000 second-feet Mar. 29 (gage height, 5.88 feet); minimum, 22 second-feet Sept. 18.
1914-22, 1928-34: Maximum discharge, 5,250 second-feet May 11, 1915 (gage height, 8.7 feet); minimum, 5.5 second-feet Dec. 6-7, 1929.

Remarks.- Records excellent except those for Oct. 13-14, which were estimated. Storage in three reservoirs above station and diversion from Beaver Creek.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	84	45	409	151	194	e70	346	94	38	28	36
2	43	64	45	232	158	259	715	380	84	33	28	36
3	43	57	41	198	155	415	565	460	78	30	28	36
4	42	53	59	170	160	460	530	412	72	28	29	36
5	42	49	57	151	198	548	512	383	77	55	29	36
6	42	46	61	138	193	478	565	371	117	53	28	35
7	42	44	59	130	191	451	690	365	163	50	28	43
8	42	41	58	121	241	424	740	346	270	47	27	43
9	42	41	57	115	187	454	715	302	349	46	27	42
10	42	41	57	121	160	178	690	282	275	46	26	41
11	42	40	58	106	142	460	690	278	214	45	27	41
12	42	41	246	112	141	530	715	270	162	44	27	41
13	42	47	565	104	138	548	715	252	171	44	28	46
14	41	46	176	102	137	605	668	216	656	41	28	50
15	41	46	128	102	144	645	668	191	340	35	28	50
16	40	45	109	102	166	645	585	175	220	34	28	52
17	39	45	101	109	157	625	548	157	171	34	28	40
18	39	44	99	104	157	668	530	141	142	33	28	67
19	39	44	97	109	214	668	512	129	132	34	27	98
20	39	44	94	114	230	625	495	118	113	33	27	81
21	39	44	96	112	193	645	495	110	100	32	27	80
22	39	44	102	117	180	668	495	103	88	32	27	80
23	39	44	106	126	220	740	605	98	77	32	27	79
24	38	44	106	125	198	765	565	92	68	32	27	77
25	38	44	106	113	194	815	439	95	61	31	27	72
26	38	44	105	112	218	790	377	115	57	31	27	67
27	38	44	106	124	204	765	351	145	56	30	28	66
28	38	44	108	135	185	815	343	125	49	30	30	64
29	39	44	124	141		1,620	317	141	45	30	28	62
30	151	44	185	144		1,220	290	129	40	29	28	61
31	152		163	145		990		106		29	36	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	152	38	47.6	2,930
November	84	40	46.7	2,780
December	565	41	114	7,010
January	409	102	137	8,420
February	241	137	179	9,940
March	1,620	194	646	39,700
April	870	290	567	33,700
May	460	92	220	13,500
June	656	40	151	8,980
July	55	28	36.8	2,260
August	36	26	27.9	1,720
September	98	35	55.3	3,290
The year	1,620	26	186	134,000

South San Joaquin Canal near Knights Ferry, Calif.

Location.- Water-stage recorder in sec. 15, T. 1 S., R. 12 E., three-quarters of a mile below head gate at Goodwin Dam, on Stanislaus River, 4 miles above Knights Ferry. Altitude, about 345 feet.

Records available.- May 1914 to September 1934. Miscellaneous measurements and rough estimates for 1913.

Extremes.- Maximum mean daily discharge during year, 954 second-feet May 8; no flow at times.

1914-34: Maximum mean daily discharge, 1,070 second-feet July 1-3, 1921; no flow during several months each year.

Remarks.- Records fair October to January, good March to September. No record Nov. 4 to Dec. 21, Jan. 15 to Mar. 17; discharge interpolated Dec. 23-25. Canal diverts from right bank of Stanislaus River at Goodwin Dam; water used for irrigation in Oakdale and South San Joaquin irrigation districts. Gage-height record furnished by South San Joaquin Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	200	77		345			944	947	460	626	710	123
2	200	58		460			944	949	458	626	712	111
3	224	30		446			944	950	471	627	715	106
4	224			453			939	950	474	637	726	107
5	218			446			939	949	574	794	730	107
6	212			446			939	947	488	883	701	106
7	206			236			939	946	444	875	648	107
8	212			251			941	954	460	867	606	126
9	194			439			946	952	512	859	528	141
10	166			439			944	838	536	854	440	157
11	166			439			912	800	526	824	398	174
12	160			439			914	811	525	816	385	164
13	103			425			946	835	517	818	412	162
14	102			179			946	843	515	803	411	159
15	127						941	790	522	800	406	163
16	111						944	728	534	792	398	166
17	47						949	723	547	766	398	172
18	30					156	941	714	558	739	398	169
19	47					486	936	715	560	712	398	166
20	49					698	933	714	558	704	385	170
21	45					765	938	659	552	704	370	170
22	44		5			765	938	662	626	702	448	168
23	49		5			805	942	621	651	704	499	177
24	60		5			856	952	613	630	707	496	177
25	64		5			878	949	597	637	712	495	176
26	78		199			888	949	571	637	717	496	176
27	97		383			896	939	541	635	717	493	172
28	56		383			872	944	496	635	714	489	169
29	8		390			922	950	518	632	710	485	168
30	6.5		439			942	950	476	627	702	471	171
31	19		275			936		478		702	286	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	224	6.5	114	7,010
November				
December				
January				
February				
March				
April	952	912	941	56,000
May	954	476	751	46,200
June	651	444	550	32,700
July	883	626	749	46,100
August	730	286	501	30,800
September	177	106	153	9,100

Oakdale Canal near Knights Ferry, Calif.

Location.- Water-stage recorder in SE¼ sec. 10, T. 1 S., R. 12 E., half a mile below head gate at Goodwin Dam, on Stanislaus River, 4 miles above Knights Ferry. Altitude, about 350 feet.

Records available.- May 1914 to September 1934; also miscellaneous measurements and rough estimates for 1913.

Extremes.- Maximum mean daily discharge during year, 290 second-feet Apr. 30; no flow at times.
1914-34: Maximum mean daily discharge, that of Apr. 30, 1934; no flow during periods of each year.

Remarks.- Records good. No record Oct. 7 to Mar. 20. Canal diverts from left bank of river at Goodwin Dam. Water is used for irrigation in Oakdale irrigation district. Gage-height record furnished by Oakdale Irrigation District.

Discharge, in second-feet. 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	166						243	286	219	257	252	66
2	165						245	284	221	257	253	58
3	165						256	285	222	258	254	58
4	165						265	286	228	258	253	58
5	167						268	284	96	123	251	59
6	174						270	280	200	260	249	57
7							275	278	201	260	244	60
8							282	279	215	261	238	78
9							285	279	215	264	237	78
10							286	281	216	266	238	77
11							286	283	228	267	237	72
12							286	280	229	270	238	72
13							287	284	236	274	240	71
14							286	283	236	272	238	70
15							287	280	231	272	242	69
16							287	280	226	270	242	67
17							287	284	229	266	240	67
18							287	287	237	267	240	66
19							287	287	240	268	239	65
20							286	287	241	267	236	66
21						74	288	256	248	266	234	67
22						90	288	250	248	266	231	67
23						114	288	249	253	262	227	67
24						128	287	250	259	261	225	66
25						153	289	248	262	258	225	66
26						181	289	234	258	256	225	68
27						209	287	219	256	256	225	70
28						220	288	218	257	256	224	71
29						235	288	220	258	257	224	72
30						234	290	220	258	259	225	72
31						240		222		260	150	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-6			167	1,990
November				
December				
January				
February				
March 21-31			171	3,730
April	290	243	281	16,700
May	287	218	266	16,400
June	262	96	231	13,700
July	274	123	259	15,900
August	254	150	235	14,400
September	78	57	67.3	4,000

Calaveras River at Jenny Lind, Calif.

Location.- Water-stage recorder in SW¼ sec. 22, T. 3 N., R. 10 E., at highway bridge on Milton road, a quarter of a mile south of Jenny Lind. North and South Forks unite 15 miles above station. Altitude, about 220 feet.

Drainage area.- 395 square miles.

Records available.- January 1907 to September 1934.

Average discharge.- 25 years (1908-23, 1924-34), 251 second-feet.

Extremes.- Maximum discharge during year, 2,640 second-feet Jan. 2 (gage height, 6.23 feet); no flow for several months.
1907-34: Maximum discharge, about 69,600 second-feet Jan. 31, 1911; stage was reported higher about midnight; no flow during late summer, 1913-15, 1917-22, 1924-34.

Remarks.- Records good except those interpolated Apr. 11-30. Stockton flood-control dam above station regulates flow to some extent; small storage on North Fork and diversions up to 1,000 acre-feet some years into Mokelumne River drainage.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	1,680	34	408	36	8.5	4.8	5.5		
2			0	2,230	33	308	35	8	5	3.1		
3			0	898	33	249	32	11	4.8	1.1		
4			0	372	32	209	30	13	4.1	.4		
5			0	233	30	178	28	14	7.5	.3		
6			0	171	30	154	26	13	7.5	.2		
7			0	129	34	135	25	12	4.8	0		
8			0	107	201	120	23	10	5.5	0		
9			0	92	372	108	23	9	5.5	0		
10			0	79	212	99	21	8	5.5	0		
11			0	70	140	92	20	7.5	5.5	0		
12			.3	66	107	86	19	7	12	0		
13			78	59	90	80	19	6	10	0		
14			575	54	76	72	18	6	12	0		
15			834	49	85	69	18	5	12	0		
16			650	46	174	63	16	1.5	25	0		
17			255	45	178	61	16	.5	26	0		
18			125	42	137	58	15	.4	25	0		
19			80	41	672	54	15	.3	24	0		
20			57	41	1,670	50	14	.3	22	0		
21			46	45	822	50	14	.2	22	0		
22			45	45	435	46	13	.2	21	0		
23			38	41	977	45	13	.1	20	0		
24			32	42	1,010	43	12	.1	19	0		
25			28	46	544	42	12	.3	18	0		
26			24	46	1,320	42	11	1.0	18	0		
27			21	44	1,220	40	11	1.6	16	0		
28			19	41	610	39	10	.8	14	0		
29			183	39		39	10	.6	12	0		
30			2,000	36		39	9	.4	7	0		
31			1,480	35		37		2.4		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	2,000	0	212	13,000
January	2,230	35	225	13,800
February	1,670	30	403	22,400
March	408	37	100	6,150
April	36	9	18.8	1,120
May	14	.1	4.82	296
June	26	4.1	13.2	786
July	5.5	0	.34	21.0
August	0	0	0	0
September	0	0	0	0
The year	2,230	0	79.6	57,600

Note.- No flow during months left blank.

Cosgrove Creek near Valley Springs, Calif.

Location.- Water-stage recorder in SE¼ sec. 35, T. 4 N., R. 10 E., 2½ miles south of Valley Springs. Altitude, about 580 feet.

Drainage area.- 20.6 square miles.

Records available.- October 1929 to September 1934.

Extremes.- Maximum discharge during year, 995 second-feet Dec. 30 (gage height, 5.45 feet); no flow several months.
1929-34: Maximum discharge, 1,060 second-feet Feb. 6, 1932 (gage height, 5.55 feet); no flow several months each year.

Remarks.- Records good. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	191	1.0	11	0.5					
2			0	52	.9	8.5	.4					
3			0	18	.9	6.5	.4					
4			0	11	.9	5.5	.4					
5			0	7.5	.9	4.5	.3					
6			0	5	.8	3.8	.3					
7			0	4	3.0	3.3	.3					
8			0	3.1	70	2.7	.2					
9			0	2.7	12	2.4	.2					
10			0	2.2	6	2.2	.2					
11			0	2.0	4.0	2.0	.2					
12			0.1	1.7	3.1	1.8	.1					
13			.3	1.6	2.4	1.6	.1					
14			13	1.5	2.1	1.5	.1					
15			28	1.4	29	1.4	.1					
16			7	1.2	30	1.4	.1					
17			1.7	1.2	10	1.2	.1					
18			.9	1.2	6.5	1.1	.1					
19			.5	1.2	222	1.0	.1					
20			.3	2.0	59	.9	.1					
21			.3	1.7	16	.9	.1					
22			.2	1.4	16	.9	.1					
23			.2	1.6	75	.8	.1					
24			.2	4.2	26	.8	.1					
25			.2	2.2	14	.8	.1					
26			.1	1.7	208	.7	0					
27			.1	1.5	30	.6	0					
28			.1	1.2	16	.6	0					
29			122	1.1		.6	0					
30			307	1.0		.6	0					
31			61	1.0		.6						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	307	0	17.5	1,080
January	191	1.0	10.6	652
February	222	.8	31.0	1,720
March	11	.6	2.33	143
April	.5	0	.16	9.5
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	307	0	4.98	3,600

Note.- No flow during months left blank.

Salt Springs Reservoir near West Point, Calif.

Location.- Staff gage in SE¼ sec. 33, T. 8 N., R. 16 E., at Salt Springs Dam, on North Fork of Mokelumne River, 18 miles northeast of West Point.

Drainage area.- 160 square miles.

Records available.- March 1931 to September 1934.

Remarks.- This is largest storage unit on Mokelumne system of Pacific Gas & Electric Co., capacity 130,000 acre-feet. Elevation of crest, 3,958 feet above mean sea level. Water is released through power house just below dam and discharges into Tiger Creek conduit. Record of daily contents furnished by Pacific Gas & Electric Co.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	61,681	33,834	20,090	11,512	4,389	793	24,769	71,511	88,410	88,886	77,359	63,541
2	60,659	33,080	19,768	12,192	4,077	831	26,119	72,461	88,171	88,569	77,134	63,265
3	59,712	32,482	19,808	12,587	3,733	1,016	27,266	73,562	87,934	88,092	76,909	62,643
4	58,773	32,482	19,527	12,988	3,420	1,222	28,196	75,042	87,776	87,538	76,609	62,092
5	57,712	32,333	18,932	13,225	3,134	976	29,139	76,534	87,538	86,907	76,459	61,476
6	56,791	32,037	18,345	13,055	2,841	1,056	30,477	77,434	87,855	86,277	76,235	60,794
7	55,751	31,350	17,997	12,921	2,557	1,029	32,037	78,945	88,410	85,649	75,861	60,252
8	54,786	30,574	17,652	12,720	2,522	1,070	33,531	80,772	89,365	85,336	75,489	59,578
9	53,768	29,614	17,500	12,488	2,266	1,097	35,056	82,000	90,324	86,670	75,042	59,242
10	52,763	28,666	17,576	12,061	2,004	1,070	36,872	83,003	91,126	86,199	74,672	58,640
11	51,828	28,196	17,235	11,704	1,675	1,125	28,728	83,933	91,529	85,415	74,227	58,042
12	50,841	28,056	17,009	11,258	1,422	1,180	40,623	85,023	91,690	84,867	74,080	57,382
13	49,984	27,869	18,113	10,786	1,236	1,222	42,839	86,199	91,771	83,933	73,636	56,726
14	48,955	27,358	18,268	10,417	1,016	1,721	44,542	86,670	92,579	82,694	73,121	56,139
15	47,995	26,851	18,307	10,023	818	2,470	46,575	87,064	93,227	82,616	72,607	55,492
16	46,987	26,484	18,036	9,577	780	3,420	48,654	87,300	93,308	82,385	72,021	55,171
17	45,989	26,074	17,538	9,141	717	4,016	50,167	87,538	93,471	81,155	71,511	54,531
18	45,060	25,893	16,971	8,743	666	4,623	51,704	87,617	93,471	80,237	71,001	53,895
19	44,085	25,984	16,228	8,299	717	5,285	53,578	87,617	93,308	79,248	70,783	53,264
20	43,121	25,576	15,464	7,866	780	5,980	55,492	87,855	93,146	78,415	70,276	52,538
21	42,113	25,127	14,608	7,445	642	6,683	57,119	87,934	92,821	77,359	69,770	52,015
22	41,171	24,548	13,875	7,111	544	7,316	59,108	87,776	92,498	77,059	69,266	51,457
23	40,187	24,018	13,157	6,833	704	7,813	61,476	87,617	92,174	76,984	68,692	51,148
24	39,266	23,363	12,687	6,364	754	9,285	63,195	87,380	91,932	76,984	68,191	50,534
25	38,354	22,802	12,720	6,004	767	10,632	64,586	87,222	91,609	77,134	67,549	49,984
26	37,399	22,802	12,093	5,674	805	12,061	65,990	87,301	91,207	77,284	67,335	49,377
27	36,454	22,332	11,448	5,306	818	13,394	67,051	87,855	90,805	77,434	66,555	48,774
28	35,571	21,405	10,725	4,972	805	14,784	68,262	87,776	90,324	77,510	65,990	48,115
29	34,646	20,415	10,234	4,688		18,501	69,482	88,013	89,844	77,209	65,427	47,401
30	34,289	20,253	10,476	4,325		20,907	70,638	88,410	89,285	77,735	64,796	47,046
31	34,493		10,417	5,421		23,017		88,410		77,585	64,167	

Note.- Contents on Sept. 30, 1933, was 62,712 acre-feet.

North Fork of Mokelumne River below Salt Springs Dam, Calif.

Location.- Water-stage recorder in sec. 33, T. 8 N., R. 16 E., a quarter of a mile below Salt Springs Dam and 3½ miles above Moore Creek. Altitude, about 3,600 feet.

Drainage area.- 160 square miles.

Records available.- September 1926 to September 1934.

Extremes.- Maximum discharge during year not known, but there was no spill from Salt Springs Reservoir; minimum recorded, 0.4 second-foot Mar. 14.
1926-34: Maximum discharge, 8,740 second-feet Mar. 25, 1928 (gage height, 13.62 feet); minimum, 0.2 second-foot Mar. 31, 1931.

Remarks.- Storage and diversion above station. (See records for Salt Springs Reservoir and Tiger Creek power house conduit.) Record of daily discharge furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9	61	2.0	2.6	0.7	0.7	3.9	8	10	9.5	8	6
2	9	287	2.0	1.9	.7	.6	3.9	8	10	9.5	8	6
3	8.5	190	2.0	1.9	.7	140	4.1	8	9.5	9.5	7.5	6
4	8.5	3.9	2.0	1.8	.7	131	4.1	8.5	9.5	9.5	7.5	6
5	8.5	3.7	2.0	132	.7	171	4.1	8.5	9.5	9.5	7.5	6
6	8	3.7	2.0	252	.7	428	4.1	9	9.5	9.5	7.5	6
7	8	3.7	2.0	252	.7	330	4.1	9	10	9.5	7.5	5.5
8	7.5	3.5	2.0	252	20	282	4.1	9	10	9.5	7.5	5.5
9	7.5	3.5	1.8	224	32	326	4.3	9.5	10	9.5	7.5	5.5
10	7.5	3.5	1.8	1.8	.7	344	4.3	9.5	10	9.5	7.5	5.5
11	7.5	3.5	1.8	1.8	.6	180	4.5	9.5	10	9.5	7.5	5.5
12	7.5	3.3	1.8	1.7	.6	204	4.9	9.5	10	9	7.5	5.5
13	7.5	3.3	2.4	1.7	.5	106	5	9.5	10	9	7.5	5.5
14	7	3.1	2.1	1.5	.5	.4	5	9.5	10	9	7.5	5.5
15	6.5	3.1	2.1	1.5	.5	.5	5.5	9.5	10	9	7.5	5.5
16	6	3.1	2.1	1.4	.5	.5	5.5	10	10	9	7	5
17	6	3.1	2.0	1.4	.5	.6	5.5	10	10	8.5	7	5
18	6	3.1	2.0	1.4	.5	.6	5.5	10	10	8.5	7	5
19	6	3.1	1.8	1.4	.7	.9	5.5	10	10	8.5	7	5
20	5.5	3.1	1.8	1.2	.7	128	6	10	10	8.5	7	5
21	5.5	3.0	1.8	1.2	209	179	6	10	10	8.5	7	5
22	5.5	3.0	1.8	1.2	59	190	6	10	10	8	7	5
23	5.5	3.0	1.8	66	.9	137	6	9.5	10	8	7	4.9
24	5.5	3.0	1.8	1.0	.7	38	6.5	9.5	9.5	8	7	4.9
25	5.5	3.0	1.8	1.0	.7	1.6	7	9.5	9.5	8	7	4.7
26	5.5	3.0	1.8	.7	1.0	1.9	7	9.5	9.5	8	6.5	4.7
27	5.5	2.8	1.8	.7	.9	2.3	7.5	9.5	9.5	8	6.5	4.7
28	5	2.6	1.7	.7	.7	2.8	7.5	9.5	9.5	8	6.5	4.5
29	5	2.1	1.8	.7		3.3	7.5	9.5	9.5	8	6.5	4.5
30	37	2.1	69	.7		3.7	8	9.5	9.5	8	6	4.5
31	142		106	.7		3.9		9.5		8	6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	142	5	12.1	744
November	287	2.1	20.8	1,240
December	106	1.7	7.44	457
January	252	.7	39.1	2,400
February	209	.5	12.0	666
March	428	.4	108	6,640
April	8	3.9	5.43	323
May	10	8	9.35	575
June	10	9.5	9.82	584
July	9.5	8	8.77	539
August	8	6	7.15	440
September	6	4.5	5.26	313
The year	428	.4	20.6	14,900

Mokelumne River near Mokelumne Hill, Calif.

Location.- Water-stage recorder in sec. 1, T. 5 N., R. 11 E., at highway bridge 1¼ miles northwest of Mokelumne Hill. Altitude, about 650 feet.

Drainage area.- 538 square miles.

Records available.- November 1927 to September 1934.

Extremes.- Maximum discharge during year, 2,360 second-feet Mar. 29 (gage height, 5.35 feet); minimum, 53 second-feet Nov. 14.
1927-34: Maximum discharge, 23,300 second-feet Mar. 25, 1928 (gage height, 16.10 feet); minimum, 14 second-feet Oct. 27, 1929.

Remarks.- Records excellent. Diversions, three power plants, and several storage reservoirs above station (see record for Salt Springs Reservoir).

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	458	616	201	1,070	289	599	554	251	316	193	380	313
2	566	475	144	925	439	554	530	366	332	234	303	214
3	562	573	151	460	530	510	339	392	233	300	313	167
4	626	310	220	395	487	530	356	443	235	249	323	264
5	429	72	363	384	492	831	384	336	349	305	207	300
6	568	134	455	345	549	932	464	251	296	352	280	280
7	488	290	264	417	619	768	435	245	329	322	332	280
8	444	490	156	534	694	672	482	371	317	198	326	326
9	539	544	208	520	661	609	539	270	450	306	316	194
10	568	582	102	722	609	728	464	366	191	349	286	218
11	573	350	198	478	435	619	511	384	229	306	208	304
12	563	71	330	551	589	745	475	384	329	345	202	357
13	506	157	972	422	492	900	510	239	319	391	259	283
14	580	205	751	492	469	705	478	195	285	478	317	286
15	439	378	446	482	492	407	403	318	319	312	316	199
16	480	311	334	492	554	594	505	292	338	200	267	192
17	592	231	465	544	469	395	399	273	282	437	336	270
18	530	167	583	473	403	505	414	326	255	469	290	313
19	568	81	696	520	549	640	407	250	339	463	205	306
20	554	180	634	460	812	530	392	169	363	510	208	329
21	530	195	641	403	705	347	370	254	346	482	303	349
22	452	336	804	515	614	549	349	326	346	308	293	329
23	534	341	582	554	751	625	403	297	332	310	296	323
24	578	337	508	569	716	534	544	257	167	492	296	221
25	554	296	207	554	683	530	505	342	307	473	273	316
26	506	99	492	530	837	492	316	336	346	496	218	323
27	488	199	648	439	793	564	313	259	356	496	230	329
28	506	525	633	426	694	460	273	237	323	396	306	313
29	417	530	678	530		1,530	213	370	350	304	329	290
30	719	138	636	534		1,010	242	282	366	275	323	167
31	714		484	476		530		329		457	329	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	719	417	536	33,000
November	616	71	307	18,300
December	972	102	445	27,400
January	1,070	345	523	32,200
February	837	289	587	32,600
March	1,530	347	643	39,500
April	554	213	419	24,900
May	445	169	304	18,700
June	450	167	312	18,600
July	510	193	361	22,200
August	380	202	285	17,500
September	357	167	278	16,500
The year	1,530	71	416	301,000

Mokelumne River at Lancha Plana, Calif.

Location.- Water-stage recorder in SW¼ sec. 4, T. 4 N., R. 10 E., 1 mile east of Lancha Plana and 3 miles (revised) downstream from Pardee Dam. Altitude, about 200 feet.

Drainage area.- 584 square miles.

Records available.- June 1926 to September 1934.

Extremes.- Maximum discharge during year, 986 second-feet Feb. 26 (gage height, 3.91 feet); minimum, 129 second-feet Apr. 9.
1926-34: Maximum discharge, 27,300 second-feet Mar. 25, 1928 (gage height, 19.65 feet); minimum, 5.5 second-feet Nov. 21, 1929.

Remarks.- Records excellent. Pardee, Salt Springs, and several smaller reservoirs, four hydroelectric plants, and diversions above station. (See records for Pardee and Salt Springs Reservoirs and East Bay Municipal Utility District Aqueduct.)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	428	597	577	230	656	670	173	535	274	424	427	438
2	593	598	586	526	674	674	433	549	269	467	422	432
3	620	694	473	573	587	674	326	505	269	450	425	492
4	619	592	568	670	357	361	331	477	269	382	449	530
5	602	452	598	670	561	566	348	478	269	427	405	518
6	619	593	678	670	674	350	415	258	269	424	410	535
7	607	607	600	503	678	321	361	480	269	437	446	524
8	446	594	592	627	692	303	133	487	269	394	420	529
9	585	600	591	670	678	290	402	507	269	436	431	521
10	587	598	463	670	674	279	658	665	269	524	430	544
11	615	605	574	674	674	305	674	665	269	412	437	531
12	617	471	579	674	674	302	538	665	269	410	425	524
13	616	612	592	678	674	316	595	416	269	412	429	532
14	626	601	605	376	674	568	538	661	285	413	426	532
15	485	605	610	568	701	595	240	656	311	410	428	537
16	600	707	599	591	696	674	505	370	299	413	422	543
17	624	619	566	589	678	674	535	286	296	453	426	515
18	634	624	596	670	674	401	567	603	296	413	432	542
19	619	474	587	670	701	319	588	258	296	416	434	537
20	600	598	587	596	683	304	591	256	296	414	434	542
21	544	617	587	373	678	270	596	512	311	417	427	533
22	488	622	592	574	678	614	271	478	322	417	426	533
23	580	617	670	674	696	674	510	458	316	418	430	530
24	593	703	474	674	678	674	577	458	319	424	423	542
25	614	598	462	581	678	354	586	483	322	434	431	540
26	693	456	598	590	725	573	626	477	322	434	427	522
27	585	576	665	623	678	674	626	266	322	438	434	531
28	587	611	665	363	665	674	628	477	302	423	433	531
29	450	607	615	558		584	269	477	277	424	439	541
30	578	517	641	591		629	539	416	299	423	435	563
31	541		531	626		551		333		421	431	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	693	428	580	35,700
November	707	452	592	35,200
December	678	462	585	36,000
January	678	230	585	36,000
February	725	357	662	36,800
March	674	270	488	30,000
April	674	133	473	28,100
May	665	256	471	29,000
June	322	266	290	17,300
July	524	382	427	26,300
August	449	405	429	26,400
September	563	432	525	31,200
The year	725	133	508	368,000

Mokelumne River near Clements, Calif.

Location.- Water-stage recorder in NW¼ sec. 15, T. 4 N., R. 8 E., above highway bridge 1 mile north of Clements. Altitude, about 80 feet.

Drainage area.- 630 square miles.

Records available.- October 1904 to September 1934.

Average discharge.- 23 years (1905-28), 1,120 second-feet. Storage and diversion by East Bay Municipal Utility District beginning March 1929.

Extremes.- Maximum discharge during year, 1,870 second-feet Dec. 29 (gage height, 6.38 feet); minimum, 122 second-feet Apr. 9.
1904-34: Maximum discharge, 25,600 second-feet Mar. 25, 1928 (gage height, 22.45 feet at station below bridge); no flow July 9, Aug. 15, 20-23, 1924.

Remarks.- Records excellent. Diversions and storage above station. (See Mokelumne River at Lancha Plana.)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	446	563	583	701	575	656	279	497	296	360	402	418
2	502	590	597	492	656	669	326	525	247	426	380	411
3	581	690	544	607	565	660	309	529	250	444	388	405
4	584	590	544	688	424	441	306	450	247	381	383	503
5	575	491	611	684	457	483	310	445	250	383	418	495
6	587	524	695	669	646	415	353	324	247	388	369	508
7	581	607	608	547	660	303	394	373	244	380	382	502
8	462	592	611	576	762	293	209	459	244	389	403	503
9	513	593	604	665	669	277	266	454	244	404	392	500
10	555	597	503	665	660	265	602	642	250	434	399	522
11	585	600	519	669	656	296	642	642	247	367	400	504
12	589	504	613	665	651	283	513	642	247	379	402	500
13	585	547	709	665	651	303	568	407	244	381	397	505
14	594	593	675	443	656	441	511	633	253	379	389	506
15	496	594	740	486	806	562	337	633	287	382	393	506
16	520	699	630	573	810	642	384	448	271	379	385	517
17	586	616	588	581	688	642	511	262	277	385	391	491
18	598	619	628	665	669	466	540	358	268	419	390	509
19	590	505	594	665	775	303	563	316	268	386	407	509
20	578	539	591	583	732	287	565	241	268	385	399	523
21	509	608	594	430	679	262	567	369	277	376	408	492
22	496	615	594	475	679	391	370	495	293	385	400	511
23	518	610	656	656	789	646	377	431	293	384	403	512
24	563	695	519	660	717	651	543	433	296	368	409	515
25	588	615	464	566	684	424	563	441	299	404	407	513
26	672	509	553	572	1,030	473	598	453	299	404	408	498
27	561	533	679	609	717	651	598	328	296	425	408	505
28	564	625	679	429	684	656	598	376	287	382	405	497
29	462	625	1,100	456		575	368	450	253	387	415	506
30	547	532	1,030	579		585	432	447	265	397	412	547
31	537		646	656		558		289		383	406	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	672	446	552	33,900
November	699	491	587	34,900
December	1,100	464	636	39,100
January	701	429	593	36,500
February	1,030	424	684	38,000
March	669	262	470	28,900
April	642	209	450	26,800
May	642	241	445	27,400
June	299	244	267	15,900
July	444	360	391	24,000
August	418	369	398	24,500
September	547	405	498	29,600
The year	1,100	209	497	360,000

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Mokelumne River at Woodbridge, Calif.

Location.- Water-stage recorder in NE¼ sec. 34, T. 4 N., R. 6 E., three-eighths of a mile downstream from dam of Woodbridge Irrigation District at Woodbridge. Altitude, about 30 feet.

Drainage area.- 644 square miles.

Records available.- May 1924 to September 1934 (low-water records only for 1924 and 1925).

Extremes.- Maximum discharge during year, 1,280 second-feet Dec. 30 (gage height, 12.40 feet); minimum, 6 second-feet June 30, part of June 29 and July 1.
1924-34: Maximum stage, 26.58 feet, old gage, or about 30.6 feet on present datum, Mar. 26, 1928 (discharge not determined); minimum discharge, 0.9 second-foot Sept. 3, 1924.

Remarks.- Records good. Discharge estimated June 3-5, 10, 12. Storage, power plants, and many diversions above station (see records for Woodbridge Canal and East Bay Municipal Utility District Aqueduct near Valley Springs).

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	344	533	500	717	596	671	303	252	37	6.5	95	161
2	250	538	548	535	634	667	67	247	25	26	75	169
3	348	579	560	617	612	661	79	234	14	150	61	141
4	354	570	461	643	557	614	59	270	14	127	100	181
5	391	530	525	654	368	405	42	211	14	85	151	218
6	373	433	580	673	565	544	44	173	18	58	93	215
7	388	526	587	627	632	365	130	41	21	88	58	195
8	369	537	550	506	695	336	117	152	20	153	78	237
9	241	539	547	672	688	318	30	168	17	113	64	270
10	360	539	537	706	659	302	43	223	14	139	149	223
11	349	545	444	678	655	296	306	328	14	112	141	258
12	372	539	541	663	652	302	281	316	14	57	166	222
13	376	367	616	660	648	300	238	318	14	44	122	257
14	381	525	648	620	648	304	243	149	14	79	125	272
15	386	560	644	419	650	509	231	316	12	91	119	273
16	257	585	648	558	826	580	45	268	7.5	63	115	272
17	354	553	570	579	724	621	128	100	8	94	130	273
18	382	583	566	612	678	606	260	27	8.5	108	125	252
19	388	558	559	644	678	373	273	68	9	105	144	265
20	375	437	601	616	768	320	288	40	8.5	99	136	267
21	379	602	581	578	693	298	298	22	8.5	101	120	263
22	352	570	570	398	671	233	304	143	7	130	128	256
23	286	578	576	580	708	181	74	240	6.5	135	113	332
24	346	609	590	629	750	226	199	172	7	95	125	309
25	378	602	468	596	695	468	279	161	10	80	152	311
26	422	565	451	566	840	195	305	183	11	114	153	376
27	447	450	575	589	819	321	318	193	10	90	154	326
28	394	544	625	581	710	495	311	47	9	160	156	291
29	388	575	680	378		413	293	116	7	141	156	320
30	427	576	1,060	534		362	71	164	6	119	176	366
31	603		823	603		332		137		77	165	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	597	241	370	22,800
November	609	367	542	32,300
December	1,060	444	588	36,200
January	717	378	595	36,600
February	840	368	672	37,300
March	671	181	407	25,000
April	318	30	189	11,200
May	328	22	177	10,900
June	37	6	12.8	762
July	160	6.5	98.0	6,030
August	176	58	125	7,690
September	376	141	259	15,400
The year	1,060	6	334	242,000

Tiger Creek power house conduit below Salt Springs Dam, Calif.

Location.- Water-stage recorder in SW¼ sec. 33, T. 8 N., R. 16 E., 1,000 feet below Salt Springs Dam and power house. Altitude, about 3,700 feet.

Records available.- June 1931 to September 1934.

Extremes.- Maximum mean daily discharge during year, 497 second-feet Oct. 14-17; no flow several periods.
1931-34: Maximum mean daily discharge, 548 second-feet July 29, 1931; no flow at times each year.

Remarks.- Records excellent. Conduit conveys water of North Fork of Mokelumne River from tailrace of Salt Springs power house to forebay of Tiger Creek power house, picking up flow of several small creeks en route. Gage-height record and results of discharge measurements furnishsd by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	493	394	154	0.6	158	227	0.4	65	283	158	316	308
2	495	167	147	.3	350	234	.4	27	289	332	310	165
3	496	106	68	.1	350	140	.4	0	95	319	315	311
4	496	122	195	0	350	123	.4	0	274	312	315	309
5	495	48	341	0	352	293	.4	0	256	310	145	306
6	496	303	249	0	348	106	.4	0	55	310	312	307
7	496	391	195	0	344	0	.4	54	71	312	312	310
8	496	465	275	0	277	0	.4	52	0	159	310	317
9	495	482	38	108	347	0	11	130	0	313	308	152
10	495	465	34	326	335	0	0	135	0	272	307	310
11	496	161	287	326	314	143	0	116	131	360	307	312
12	496	79	150	328	293	268	0	56	215	385	143	312
13	496	215	50	327	275	269	0	59	195	481	306	312
14	497	249	139	324	257	273	0	171	186	482	311	313
15	497	249	146	324	240	198	0	221	166	39	306	314
16	497	248	282	324	232	171	0	231	237	482	309	161
17	497	248	374	324	217	249	0	240	149	483	308	315
18	496	10	448	326	199	248	0	252	280	485	307	305
19	496	0	475	324	206	248	0	240	291	485	157	318
20	495	310	483	326	228	88	0	38	296	485	308	317
21	493	275	482	324	172	22	0	264	298	486	311	314
22	495	274	479	324	135	22	0	260	292	161	310	311
23	489	318	476	26[illegible]	199	22	0	282	308	485	310	160
24	478	349	254	326	222	8	0	279	164	485	316	313
25	474	186	176	324	222	.4	0	290	291	486	309	310
26	471	0	471	326	228	.4	0	140	303	486	151	312
27	471	420	472	326	236	.4	0	50	307	405	307	313
28	471	461	469	323	232	.4	0	291	311	486	307	312
29	469	376	269	327		.4	0	113	318	163	317	313
30	356	65	69	326		.4	0	0	317	485	310	160
31	270		23	160		.4		154		482	309	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	497	270	479	29,500
November	482	0	248	14,800
December	483	23	264	16,200
January	328	0	227	14,000
February	352	135	261	14,500
March	293	0	108	6,640
April	11	0	.47	28
May	291	0	136	8,360
June	318	0	213	12,700
July	486	39	373	22,900
August	317	143	289	17,800
September	318	152	286	17,000
The year	497	0	241	174,000

Cold Creek near Mokelumne Peak, Calif.

Location.- Water-stage recorder in sec. 28, T. 8 N., R. 16 E., 1½ miles north of Salt Springs Dam and 6 miles southwest of Mokelumne Peak. Altitude, about 6,000 feet.

Drainage area.- 23 square miles.

Records available.- July 1927 to September 1934.

Extremes.- Maximum discharge during year, 905 second-feet Mar. 29 (gage height, 5.36 feet); minimum discharge recorded, 0.1 second-foot Oct. 1-29, Aug. 5-28, Aug. 30 to Sept. 20.

1927-34: Maximum discharge, 2,330 second-feet Mar. 25, 1928 (gage height, 7.79 feet); practically no flow Aug. 17 to Oct. 7, 1931.

Remarks.- Records fair. Discharge estimated for several periods December to February, affected by ice. No storage or diversions. Gage-height record and results of discharge measurements furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	4.6	0.4	22	31	*18	170	86	16	2.6	0.2	0.1
2	.1	7.5	.4	20	35	46	136	126	13	2.4	.2	.1
3	.1	9	.5	*19	31	72	107	143	12	2.1	.2	.1
4	.1	4.6	*.5	*18	31	77	98	118	11	1.9	.2	.1
5	.1	2.2	*.5	*17	36	89	111	102	15	1.6	.1	.1
6	.1	1.3	*.5	*16	34	80	135	95	77	1.5	.1	.1
7	.1	1.0	*.5	14	29	78	157	88	84	1.3	.1	.1
8	.1	.8	*.7	13	*30	71	156	75	108	1.2	.1	.1
9	.1	.7	*1.0	*13	*25	83	142	67	57	1.1	.1	.1
10	.1	.7	*2.0	12	*23	90	143	64	51	1.0	.1	.1
11	.1	.7	*2.0	*11	*22	93	148	62	34	.9	.1	.1
12	.1	.7	*25	11	22	108	154	56	24	.8	.1	.1
13	.1	.7	38	10	21	113	146	47	20	.7	.1	.1
14	.1	.7	15	*10	19	124	146	39	31	.6	.1	.1
15	.1	.7	*10	10	19	127	148	34	32	.6	.1	.1
16	.1	.9	*6	10	20	120	130	29	20	.5	.1	.1
17	.1	1.0	*3.0	*10	*21	118	125	24	16	.5	.1	.1
18	.1	.8	*4.0	*10	21	128	122	22	14	.4	.1	.1
19	.1	.7	*4.0	13	26	131	119	18	12	.4	.1	.1
20	.1	.7	*5	*20	24	124	118	16	10	.4	.1	.1
21	.1	.6	*6	16	21	119	125	15	9	.4	.1	.2
22	.1	.6	*7	18	19	118	119	14	7.5	.4	.1	.2
23	.1	.5	*8	24	20	124	149	13	6.5	.4	.1	.4
24	.1	.5	*8	22	20	140	126	12	5.5	.4	.1	.9
25	.1	.5	*8	18	19	133	103	13	5	.4	.1	.8
26	.1	.5	*9	14	19	120	90	24	5.5	.3	.1	.8
27	.1	.4	*10	21	18	123	88	30	5.5	.3	.2	.7
28	.1	.4	*11	24	*17	218	82	23	4.7	.2	.2	.6
29	.1	.4	*16	26		494	73	47	3.9	.2	.2	.5
30	12	.4	20	27		255	66	31	3.1	.2	.1	.4
31	9		18	28		191		20		.2	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	12	0.1	0.77	47.4
November	9	.4	1.49	88.7
December	38	.4	7.74	476
January	28	10	16.7	1,030
February	38	17	24.1	1,340
March	494	18	127	7,810
April	170	66	124	7,380
May	143	12	50.1	3,080
June	108	3.1	23.8	1,420
July	2.6	.2	.84	51.3
August	.2	.1	.12	7.6
September	.9	.1	.25	14.9
The year	494	.1	31.4	22,700

*Estimated.

Bear River at Pardoe Camp, Calif.

Location.- Water-stage recorder in sec. 18, T. 8 N., R. 16 E., 2 miles below Bear River Reservoir of Pacific Gas & Electric Co. Altitude, about 5,650 feet.

Drainage area.- 32.5 square miles.

Records available.- July 1927 to September 1934.

Extremes.- Maximum discharge during year, 1,280 second-feet Mar. 29 (gage height, 5.88 feet); minimum, 3.8 second-feet Nov. 30 to Dec. 4 and Dec. 10.
1927-34: Maximum discharge, 3,350 second-feet Mar. 25, 1928 (gage height, 9.75 feet); no flow Sept. 8-30, Oct. 1-4, 7-29, 1928.

Remarks.- Records fair. Discharge estimated Dec. 3-5 and Dec. 17 to Jan. 3. About 6,000 acre-feet is stored each year at reservoir above station and usually released between July and October. Gage-height record and results of discharge measurements furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.5	7	3.8	10	87	12	245	152	27	13	8.5	5.5
2	8.5	7	3.8	50	87	16	186	184	20	13	8.5	5.5
3	8.5	6.5	3.8	125	85	22	154	205	16	13	8.5	5.5
4	8	6	3.8	123	87	25	146	175	14	13	8.5	5.5
5	8	5	3.9	119	89	25	168	157	25	13	8.5	5.5
6	8	5	3.9	118	89	22	211	150	146	13	8.5	5.5
7	7.5	5	4.1	115	93	20	255	141	132	13	8	5.5
8	7.5	5	4.1	112	105	18	252	126	298	12	6	5
9	7.5	5	3.9	111	90	19	230	114	192	12	8	5
10	7.5	5	3.8	108	85	20	232	108	111	12	8	5
11	7.5	5	4.1	105	81	22	245	102	79	11	7.5	5
12	7.5	5	22	103	80	24	248	88	48	11	7.5	5
13	7.5	5	25	102	78	25	240	78	38	11	7.5	5
14	7.5	5	9	100	75	28	238	64	79	10	7.5	5
15	7	5	8.5	98	78	30	248	56	96	10	7.5	5
16	7	5	7.5	96	80	30	215	49	48	9.5	7.5	5
17	5.5	5		95	78	30	203	41	31	9	7	5
18	4.8	5		94	79	30	196	35	26	9	7	5
19	4.7	5		94	93	33	196	31	22	8.5	7	5
20	4.5	4.8		94	88	36	188	27	18	8.5	7	5
21	4.5	4.8		93	80	38	194	24	15	8.5	7	5
22	4.5	4.8		91	76	50	196	23	14	8	7	5
23	4.5	4.8		91	78	201	282	16	13	8	6.5	6
24	4.5	4.8	8	90	74	245	245	13	13	8	6.5	6
25	4.5	4.8		89	72	235	177	13	14	8	6.5	5.5
26	4.5	4.8		88	71	213	152	34	16	8	6.5	5.5
27	4.5	4.7		88	48	205	144	48	14	7.5	6.5	5
28	4.5	4.5		88	12	370	133	111	14	7.5	6	5
29	4.7	4.2		88		845	122	149	13	7.5	6	4.8
30	9	3.8		87		394	115	81	13	8.5	5.5	4.8
31	8			87		275		41		8.5	5.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9	4.5	6.47	398
November	7	3.8	5.08	302
December	25	3.8	7.58	466
January	125	10	95.2	5,850
February	105	12	79.2	4,400
March	845	12	115	7,070
April	282	115	202	12,000
May	205	13	85.0	5,230
June	298	13	53.5	3,180
July	13	7.5	10.1	621
August	8.5	5.5	7.27	447
September	6	4.8	5.20	309
The year	845	3.8	55.6	40,300

Middle Fork of Mokelumne River at West Point, Calif.

Location.- Water-stage recorder in sec. 10, T. 6 N., R. 13 E., below highway bridge 1 mile south of West Point and 3½ miles above junction with South Fork. Altitude, about 2,500 feet.

Drainage area.- 67.2 square miles.

Records available.- October 1911 to September 1934.

Average discharge.- 22 years (1912-34), 47.7 second-feet.

Extremes.- Maximum discharge during year, 354 second-feet Jan. 1 (gage height, 3.05 feet); no flow part of Sept. 9 and 10.
1911-34: Maximum discharge, 2,550 second-feet Jan. 23, 1914 (gage height, 10.0 feet, at site 1,000 feet upstream); practically no flow Aug. 23 to Sept. 14, 1931, and no flow part of Sept. 9 and 10, 1934.

Remarks.- Records good. Discharge estimated Dec. 8-9, Jan. 6-7, 15-18, 28-31, Feb. 2-9. Several diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	12	4.4	219	13	58	22	16	6	1.8	0.5	0.2
2	1.0	8	6.5	114	13	53	21	12	5.5	1.0	.5	.1
3	1.0	6.5	10	60	13	50	20	10	5	1.4	.5	.2
4	1.0	5	14	43	13	48	18	10	5	1.4	.5	.2
5	.7	4.1	7	33	13	46	18	10	5.5	1.5	.5	.3
6	.6	4.2	5.5	29	13	45	17	9	7	1.5	.5	.2
7	.6	4.1	5	26	20	43	16	7.5	7	1.5	.6	.1
8	.7	4.1	5	22	68	39	16	7	6	1.4	.5	.1
9	.9	4.1	5	21	37	38	16	6.5	5.5	1.2	.5	0
10	.9	4.1	5	20	29	36	15	6	5	1.1	.4	.1
11	.8	4.1	5	18	24	35	15	5	4.6	1.0	.4	.2
12	.9	4.1	39	17	22	34	15	5	4.2	1.2	.4	.4
13	.9	3.9	151	16	22	33	14	4.6	4.1	1.4	.3	.4
14	1.0	3.9	58	16	20	32	14	4.4	3.0	1.4	.2	.3
15	1.0	3.9	33	16	24	31	14	4.1	3.0	1.5	.1	.3
16	1.0	3.9	22	15	38	30	14	3.2	2.2	1.5	.1	.4
17	1.0	3.9	17	15	32	28	14	3.2	2.5	1.2	.1	.4
18	1.0	4.1	16	14	28	28	13	2.5	2.6	1.0	.2	.6
19	1.0	4.1	14	13	66	27	12	2.5	2.2	.8	.2	.5
20	1.0	4.1	14	15	94	26	11	2.9	1.8	.8	.3	.5
21	1.0	4.1	13	13	82	25	9.5	3.2	1.6	.8	.4	.7
22	1.0	4.2	13	13	59	25	9.5	3.1	1.8	.8	.4	.6
23	1.0	4.2	12	15	114	26	13	3.0	1.7	.8	.4	1.0
24	1.0	4.4	12	20	89	26	12	3.2	1.5	.8	.4	2.1
25	1.1	4.4	12	16	70	24	12	5.8	1.8	.8	.2	1.8
26	1.1	4.4	12	15	117	24	10	6.5	2.9	.8	.1	1.4
27	1.2	4.4	11	14	87	28	9	6	2.9	.6	.5	1.0
28	1.3	4.2	11	14	69	23	8.5	7	2.4	.5	.4	.8
29	1.4	4.2	18	14		28	8.5	9.5	1.9	.5	.7	.8
30	41	4.2	89	13		25	9	8.5	1.6	.5	.5	1.0
31	32		69	13		24		7		.5	.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	41	0.6	3.26	200
November	12	3.9	4.63	276
December	151	4.4	22.9	1,410
January	219	13	29.1	1,790
February	117	13	45.3	2,520
March	58	23	33.5	2,060
April	22	8.5	13.9	827
May	16	2.5	6.26	385
June	7	1.5	3.62	215
July	1.8	.5	1.09	67.0
August	.7	.1	.37	23.0
September	2.1	0	.56	33.1
The year	219	0	135	9,810

South Fork of Mokelumne River near Railroad Flat, Calif.

Location.- Water-stage recorder in sec. 34, T. 6 N., R. 14 E., at Laidet ranch, 5 miles above mouth of Licking Fork and 5 miles east of Railroad Flat. Altitude, about 2,680 feet.

Drainage area.- 36.9 square miles.

Records available.- October 1911 to September 1934.

Average discharge.- 22 years (1912-34), 45.3 second-feet.

Extremes.- Maximum discharge during year, 195 second-feet Jan. 1 (gage height, 2.37 feet); minimum, 0.4 second-foot Sept. 4-5, 7-8.

1911-34: Maximum discharge, 3,330 second-feet Jan. 25, 1914 (gage height, 6.9 feet, on staff gage 700 feet downstream); minimum, 0.2 second-foot at times in August and September 1931.

Remarks.- Records excellent. Discharge estimated Oct. 1-8. Small diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	8	3.9	140	12	50	21	14	6	2.7	1.0	0.6
2	1.3	5.5	3.9	83	12	47	20	12	5.5	3.0	.9	.5
3	1.3	5	9	51	12	48	19	11	5.5	2.2	1.0	.5
4	1.4	4.0	6.5	39	12	49	18	9.5	5.5	2.1	1.3	.4
5	1.4	3.9	4.8	31	13	51	18	9	6	2.1	1.2	.4
6	1.5	3.9	4.5	26	15	50	17	8.5	8	2.3	1.2	.5
7	1.5	3.9	4.5	23	17	47	16	8	7.5	2.5	1.2	.4
8	1.6	3.9	4.5	21	43	45	15	8	6.5	2.5	1.1	.4
9	1.6	3.9	4.2	20	30	43	15	8	6.5	2.5	1.0	.5
10	1.7	3.9	4.2	18	25	41	13	7.5	6	2.2	.9	.5
11	1.7	3.9	4.2	17	22	40	13	6.5	5	2.0	.8	.6
12	1.8	3.9	35	17	20	39	12	6.5	4.8	1.8	.8	.6
13	1.8	3.9	86	16	19	36	11	5.5	4.8	1.7	.6	.6
14	1.8	3.9	37	15	18	35	12	5	5	1.7	.6	.6
15	1.8	3.9	22	14	23	33	11	5	4.8	1.8	.6	.6
16	1.8	3.9	16	14	27	32	11	5	3.7	1.8	.6	.6
17	1.7	3.7	14	13	25	31	11	5	3.7	1.7	.6	.6
18	1.6	3.7	12	13	23	29	9.5	5.5	3.9	1.5	.6	.6
19	1.6	3.7	12	13	44	28	9.5	5.5	3.9	1.3	.6	.6
20	1.6	3.7	11	14	58	28	9.5	4.5	3.5	1.2	.6	.6
21	1.6	3.9	11	13	47	27	9.5	4.5	3.5	1.2	.6	.6
22	1.6	3.9	11	13	45	26	9.5	4.0	3.5	1.2	.6	.6
23	1.6	3.9	11	15	71	26	12	3.9	3.5	1.3	.7	1.1
24	1.7	3.9	11	16	63	27	11	4.2	3.4	1.3	.7	2.5
25	1.8	3.9	11	14	54	25	10	7.5	4.0	1.3	.7	1.5
26	1.8	3.7	10	13	74	24	10	8	4.5	1.3	.6	1.3
27	1.8	3.7	10	13	65	23	9.5	7.5	4.5	1.2	.6	1.1
28	2.0	3.7	9.5	13	56	23	9	6.5	3.5	1.2	.6	1.0
29	2.2	3.7	17	13		25	8.5	8	3.4	1.2	.6	.9
30	31	3.7	59	12		23	9	7.5	2.8	1.2	.6	.8
31	14		45	12		22		6.5		1.2	.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	31	1.3	3.00	184
November	8	3.7	4.07	242
December	86	3.9	16.3	1,000
January	140	12	24.0	1,480
February	74	12	33.8	1,880
March	51	22	34.6	2,130
April	21	8.5	12.6	750
May	14	3.9	7.02	432
June	8	2.8	4.76	283
July	3.0	1.2	1.75	108
August	1.3	.6	.78	47.8
September	2.5	.4	.74	43.9
The year	140	.4	11.8	8,580

South Fork of Mokelumne River near West Point, Calif.

Location.- Water-stage recorder in SW¼ sec. 16, T. 6 N., R. 13 E., 300 feet above Sawyer Bridge and 2½ miles southwest of West Point. Altitude, about 2,000 feet.

Drainage area.- 73.8 square miles.

Records available.- October 1933 to September 1934.

Extremes.- Maximum discharge during year, 509 second-feet Dec. 13 (gage height, 4.87 feet); no flow Aug. 6-7, Aug. 12 to Sept. 26.

Remarks.- Records good. Discharge estimated May 1-4, Aug. 10-11, Sept. 27-30. Small diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	18	6.5	286	20	84	27	20	9.5	2.6	0.2	0
2	1.5	13	6.5	164	20	74	25	19	9	2.4	.1	0
3	1.4	11	17	93	20	71	23	18	8.5	2.0	.1	0
4	1.2	9	16	67	20	71	23	16	8	2.2	.2	0
5	.4	8.5	11	53	20	69	23	15	9	1.7	.1	0
6	.3	8	9	44	21	66	20	14	11	1.6	0	0
7	.4	7.5	9	39	24	62	19	13	13	1.6	0	0
8	.6	7	8.5	35	74	57	19	12	11	1.3	.1	0
9	1.0	8	8.5	32	52	56	19	10	10	1.7	.2	0
10	1.2	6.5	8.5	30	41	53	19	10	10	1.7	.1	0
11	1.4	6.5	9	28	35	50	18	10	9	1.2	.1	0
12	1.5	6.5	52	26	32	49	18	10	8.5	1.1	0	0
13	1.3	6.5	190	25	29	47	18	9.5	6.5	1.0	0	0
14	1.4	6.5	93	23	28	45	18	9	5.5	1.0	0	0
15	1.5	6.5	54	23	32	42	18	8	6.5	.8	0	0
16	1.6	6.5	39	21	49	41	18	7.5	5	.6	0	0
17	1.7	5.5	29	21	40	39	18	8.5	5.5	.5	0	0
18	1.7	5.5	25	21	37	37	18	8	5	.5	0	0
19	1.9	5.5	24	21	75	36	18	8.5	4.7	.6	0	0
20	2.0	5.5	23	23	114	35	18	8.5	4.4	.6	0	0
21	2.0	5.5	21	21	82	34	16	8	4.7	.7	0	0
22	1.8	5.5	21	20	72	32	15	8	4.4	.6	0	0
23	2.2	6	21	26	134	33	16	8	3.1	.5	0	0
24	2.5	6	21	28	118	34	18	8	2.8	.4	0	0
25	2.6	6	21	23	93	32	18	11	3.9	.5	0	0
26	2.6	6	20	22	153	31	16	15	5	.4	0	0
27	2.8	6	20	21	125	30	15	13	5.5	.2	0	.9
28	2.6	6	19	21	99	29	14	12	3.9	.2	0	1.0
29	3.1	6	30	21		31	13	14	3.2	.2	0	1.0
30	63	6.5	134	21		30	14	13	3.1	.3	0	1.0
31	39		97	20		28		11		.2	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	63	0.3	4.84	298
November	18	5.5	7.23	430
December	190	6.5	34.3	2,110
January	266	20	41.9	2,580
February	153	20	59.2	3,290
March	84	28	46.1	2,830
April	27	13	18.4	1,090
May	20	7.5	11.5	707
June	13	2.8	6.64	395
July	2.6	.2	1.00	61.3
August	.2	0	.04	2.4
September	1.0	0	.13	7.7
The year	266	0	19.1	13,800

Camanche Creek near Camanche, Calif.

Location.- Water-stage recorder in NE¼ sec. 10, T. 4 N., R. 9 E., a quarter of a mile above mouth and 2 miles northwest of Camanche.

Drainage area.- 4.9 square miles.

Records available.- October 1932 to September 1934.

Extremes.- Maximum discharge during year, 269 second-feet Feb. 26 (gage height, 3.66 feet); no flow several months.
1932-34: Maximum discharge, that of Feb. 26, 1934; no flow several months each year.

Remarks.- Records good. Discharge estimated Dec. 13-19. No regulation or diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	40	0.5	1.8						
2			0	11	.4	1.2						
3			0	5	.4	.8						
4			0	3.3	.4	.6						
5			0	2.2	.4	.5						
6			0	1.6	.4	.4						
7			0	1.2	1.3	.3						
8			0	1.0	11	.2						
9			0	.9	1.5	.2						
10			0	.8	1.0	.2						
11			0	.7	.8	.2						
12			13	.7	.7	.1						
13			9	.7	.6	.1						
14			8	.7	.6	.1						
15			15	.6	26	.1						
16			2.0	.6	11	.1						
17			.3	.6	2.9	.1						
18			.2	.6	1.6	0						
19			.1	.6	19	0						
20			0	.9	8.5	0						
21			0	.6	3.3	0						
22			0	.6	5.5	0						
23			0	.7	23	0						
24			0	.8	9	0						
25			0	.6	4	0						
26			0	.5	44	0						
27			0	.5	6.5	0						
28			0	.5	3.6	0						
29			64	.5		0						
30			37	.5		0						
31			13	.5		0						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	64	0	5.21	320
January	40	.5	2.58	159
February	44	.4	6.71	373
March	1.8	0	.23	13.9
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	64	0	1.20	866

Note.- No flow during months left blank.

Rabbit Creek near Camanche, Calif.

Location.- Water-stage recorder in SE¼ sec. 4, T. 4 N., R. 9 E., about 600 feet above mouth and 3 miles northwest of Camanche. Altitude, about 180 feet.

Drainage area.- 8.5 square miles.

Records available.- January 1932 to September 1934.

Extremes.- Maximum discharge during year, 302 second-feet Feb. 26 (gage height, 3.00 feet); no flow several months.
1932-34: Maximum discharge, that of Feb. 26, 1934; no flow several months.

Remarks.- Records good. Discharge estimated Dec. 13-15. No diversions or regulation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	88	0.3	2.2						
2			0	17	.3	1.6						
3			0	3.8	.3	1.4						
4			0	1.9	.2	1.2						
5			0	1.2	.2	1.0						
6			0	.9	.2	.8						
7			0	.8	.6	.7						
8			0	.7	22	.7						
9			0	.6	1.5	.7						
10			0	.6	.9	.6						
11			.1	.5	.6	.4						
12			11	.4	.5	.4						
13			17	.4	.4	.3						
14			15	.4	.4	.2						
15			30	.4	28	.2						
16			3.4	.4	21	.1						
17			1.4	.4	5.5	0						
18			1.0	.4	3.4	0						
19			.7	.4	28	0						
20			.6	.6	12	0						
21			.5	.4	4.1	0						
22			.4	.4	6	0						
23			.4	.3	35	0						
24			.4	.8	11	0						
25			.4	.5	4.5	0						
26			.4	.4	58	0						
27			.4	.4	8.5	0						
28			.4	.3	3.6	0						
29			131	.3		0						
30			73	.3		0						
31			22	.3		0						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	131	0	9.98	614
January	86	.3	4.01	247
February	58	.2	9.18	510
March	2.2	0	.40	24.8
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	131	0	1.93	1,400

Note.- No flow during months left blank.

Murphy Creek near Clements, Calif.

Location.- Water-stage recorder in NE¼ sec. 6, T. 4 N., R. 9 E., 800 feet above mouth and 4 miles northeast of Clements. Altitude, about 100 feet.

Drainage area.- 5.2 square miles.

Records available.- January 1932 to September 1934.

Extremes.- Maximum discharge during year, 526 second-feet Dec. 29 (gage height, 3.98 feet); no flow several months.
1932-34: Maximum discharge, that of Dec. 29, 1933; no flow several months each year.

Remarks.- Records good. Discharge estimated Dec. 13-15, Jan. 6-7, 16-26. No regulation or diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	92	0.2	0.6						
2			0	9	.2	.4						
3			0	2.6	.2	.3						
4			0	1.2	.2	.2						
5			0	.7	.2	.2						
6			0	.5	.2	.2						
7			0	.4	.4	.2						
8			0	.3	16	.2						
9			0	.3	1.4	.2						
10			0	.3	.5	.1						
11			0	.3	.4	.1						
12			2.3	.3	.3	.1						
13			14	.2	.2	.1						
14			12	.2	.2	.1						
15			24	.2	46	.1						
16			1.4	.2	12	.1						
17			.5	.2	1.9	0						
18			.3	.2	.8	0						
19			.3	.2	10	0						
20			.2	.2	3.2	0						
21			.2	.2	.8	0						
22			.2	.2	2.1	0						
23			.2	.2	8.5	0						
24			.2	.2	2.6	0						
25			.2	.2	.7	0						
26			.2	.2	44	0						
27			.2	.2	2.7	0						
28			.2	.2	.9	0						
29			129	.2		0						
30			40	.2		0						
31			13	.2		0						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	129	0	7.70	474
January	92	.2	3.60	221
February	46	.2	5.60	311
March	.6	0	.10	6.3
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	129	0	1.40	1,010

Note.- No flow during months left blank.

Woodbridge Canal at Woodbridge, Calif.

Location.- Three water-stage recorder in SE¼ sec. 34, T. 4 N., R. 6 E., at Woodbridge, at point of diversion. Elevation of zero of gage is 32.18 feet above mean sea level.

Records available.- April 1926 to September 1934.

Extremes.- Maximum mean daily discharge during year, 267 second-feet Apr. 11; practically no flow Jan. 10 to Mar. 22.
1926-34: Maximum mean daily discharge, 279 second-feet Apr. 19, 1933; no flow part of each year.

Remarks.- Records good. Discharge computed from records of gate openings and effective head as shown by recorders; estimated Dec. 26, Jan. 3, Aug. 10, 18-19, 24. Canal diverts from reservoir on Mokelumne River in sec. 34, T. 4 N., R. 6 E., in Woodbridge. Water is used for irrigation in territory south and west of Woodbridge.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	156	32	23	12		0	174	204	210	192	237	205
2	152	32	23	12		0	236	190	202	240	244	208
3	143	42	32	12		0	229	210	190	240	250	223
4	160	37	44	12		0	200	195	188	227	237	234
5	164	32	44	6		0	220	204	188	223	208	234
6	160	32	51	8		0	228	204	188	247	234	234
7	160	32	47	6		0	212	193	185	230	237	234
8	148	27	54	12		0	216	200	178	216	250	223
9	160	42	54	2.1		0	169	210	182	212	247	205
10	164	42	47	0		0	205	227	190	220	234	212
11	164	27	40	0		0	267	238	196	230	223	230
12	160	22	47	0		0	258	235	196	246	212	237
13	163	28	56	0		0	249	225	195	260	226	226
14	166	40	22	0		0	242	235	193	250	219	212
15	164	23	30	0		0	223	251	194	240	230	196
16	166	32	24	0		0	218	237	208	244	226	200
17	170	40	17	0		0	245	225	208	223	237	206
18	172	28	24	0		0	233	212	211	234	230	204
19	175	19	26	0		0	220	235	208	226	234	212
20	172	32	20	0		0	214	204	205	226	237	212
21	166	44	9	0		0	212	196	217	226	230	204
22	172	32	6	0		0	202	216	226	212	226	200
23	160	28	9	0		23	177	185	226	205	234	174
24	164	23	9	0		86	195	210	216	226	230	174
25	172	15	14	0		78	210	220	204	244	226	160
26	172	19	26	0		120	210	218	216	237	200	149
27	172	36	12	0		176	216	202	230	246	219	127
28	164	36	14	0		154	216	207	237	223	208	127
29	172	36	17	0		157	207	228	219	208	219	127
30	129	28	17	0		165	185	220	208	234	216	132
31	95		12	0		166		216		244	216	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	175	95	161	9,900
November	44	15	31.3	1,860
December	56	6	28.1	1,730
January	12	0	2.65	163
February	0	0	0	0
March	186	0	36.9	2,270
April	267	169	216	12,900
May	251	185	215	13,200
June	237	178	204	12,100
July	260	192	230	14,100
August	250	200	228	14,000
September	237	127	197	11,700
The year	267	0	130	93,900

Note.- No flow during February.

Sutter Creek at Sutter Creek, Calif.

Location.- Staff gage in sec. 7, T. 6 N., R. 11 E., three-eighths of a mile west of Sutter Creek. Altitude, about 1,100 feet.

Drainage area.- 53.2 square miles.

Records available.- February 1922 to September 1934.

Average discharge.- 10 years (1922-23, 1925-34), 27.9 second-feet.

Extremes.- Maximum discharge during year, 660 second-feet Jan. 1 (gage height, 3.6 feet); minimum, 0.8 second-foot July 13, 17-21, Aug. 3-5, Sept. 30.
1922-34: Maximum discharge, about 3,100 second-feet Feb. 6, 1925 (gage height, 7.5 feet); practically no flow, except for town waste, during summer of 1924.

Remarks.- Records fair. Discharge estimated May 14. Stream regulated to some extent by small dam above town of Sutter Creek and by release of mine water.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	2.0	2.3	570	9.5	57	9	11	2.4	1.1	0.9	1.5
2	1.5	1.8	2.7	270	9	49	8.5	8	2.4	1.1	.9	1.7
3	2.0	1.9	13	80	9	41	9	6	2.2	1.0	.8	2.5
4	1.7	1.8	6	65	9	35	7.5	5.5	2.0	1.0	.8	2.4
5	1.5	1.8	3.8	44	8.5	30	7	3.8	2.6	.9	.8	1.4
6	1.5	2.1	3.7	35	11	28	7	3.8	4.9	1.5	1.4	1.5
7	1.5	2.1	3.9	29	11	27	6.5	3.5	4.5	.9	1.4	1.3
8	1.4	1.9	4.0	24	58	23	6.5	3.1	3.5	.9	1.3	1.1
9	1.5	1.9	3.6	21	34	21	6	3.1	2.5	1.0	1.2	1.3
10	1.8	1.8	3.2	18	23	19	5.5	2.6	2.4	1.1	1.1	1.2
11	1.8	2.0	3.2	17	19	17	5.5	2.2	2.4	1.0	1.0	1.4
12	1.3	2.0	9.5	15	17	16	6	1.9	2.4	.9	1.1	1.2
13	1.4	2.2	146	13	15	15	5.5	1.7	2.2	.8	1.1	1.1
14	1.4	2.2	111	12	14	14	5.5	1.7	2.0	.9	1.1	1.2
15	1.4	2.2	78	12	17	13	5.5	1.7	2.1	.9	1.1	1.1
16	1.4	2.1	59	12	50	12	5.5	1.7	2.8	.9	.9	1.1
17	1.4	2.2	24	11	46	12	5.5	1.7	2.8	.8	1.0	1.0
18	1.5	2.1	16	10	34	11	4.9	1.9	2.1	.8	1.1	1.9
19	1.5	2.2	11	9.5	104	11	4.5	1.7	1.9	.8	1.3	1.8
20	1.6	2.4	11	15	90	11	4.2	1.7	1.9	.8	1.5	1.6
21	1.5	2.2	11	11	67	11	4.2	1.5	1.9	.8	1.5	1.4
22	1.4	2.2	10	11	46	10	5.5	1.7	1.7	1.1	1.4	1.4
23	1.3	2.2	9.5	12	112	9.5	5.5	1.7	1.5	1.2	1.6	2.2
24	1.6	2.0	7.5	22	81	16	7	1.5	1.4	1.2	1.7	2.0
25	1.8	2.1	5	15	56	13	6.5	2.4	1.3	1.3	1.4	1.5
26	1.8	2.1	5	12	176	10	5.5	4.3	1.4	1.1	1.4	1.2
27	1.8	2.2	4.9	12	87	9.5	4.9	3.1	1.3	1.0	1.4	.9
28	1.8	2.2	5	11	67	10	3.6	2.4	1.2	1.0	1.6	.9
29	1.9	2.2	23	10		10	3.8	2.4	1.1	1.0	1.5	.9
30	5.5	2.2	189	10		10	4.5	2.6	1.1	1.0	1.6	.8
31	2.4		66	9.5		9.5		2.6		.9	1.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5.5	1.3	1.72	106
November	2.4	1.8	2.08	124
December	169	2.3	27.4	1,680
January	570	9.5	45.7	2,810
February	176	8.5	45.7	2,540
March	57	9.5	18.7	1,150
April	9	3.6	5.84	348
May	11	1.5	3.05	188
June	4.9	1.1	2.20	131
July	1.5	.8	.99	60.9
August	1.7	.8	1.24	76.2
September	2.5	.8	1.42	84.5
The year	570	.8	12.9	9,300

North Fork of Cosumnes River near El Dorado, Calif.

Location.- Water-stage recorder in NE¼ sec. 35, T. 9 N., R. 10 E., 1 mile north of Nashville, 2.7 miles above mouth, and 6 miles south of El Dorado. Altitude, about 910 feet. Records previous to October 1933 were obtained at staff gage 1½ miles upstream.

Drainage area.- 202 square miles at present site; 197 square miles at site used prior to October 1933.

Records available.- August 1911 to September 1934.

Average discharge.- 23 years, 182 second-feet.

Extremes.- Maximum discharge during year, 2,210 second-feet Jan. 1 (gage height, 4.9 feet); no flow July 29 to Sept. 30.
1911-34: Maximum discharge, about 7,600 second-feet Mar. 25, 1928 (gage height, 15.2 feet at former station); no flow part of 1924, 1926, 1931, 1933, 1934.

Remarks.- Records good. Discharge estimated Oct. 1-24, 30-31, Dec. 29 to Jan. 2. Irrigation diversions above station. Records at present site are comparable with those obtained at former site 1½ miles upstream.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	80	7.5	1,600	71	286	133	80	25	8		
2	.8	57	8	800	71	254	123	73	21	7.5		
3	.8	22	18	395	70	234	114	60	18	7		
4	.8	16	31	274	68	219	105	59	16	7		
5	.7	15	22	211	70	211	98	53	16	5.5		
6	.7	13	16	173	78	203	94	48	20	5		
7	.7	12	14	146	83	189	92	44	38	4.8		
8	.7	11	13	131	252	176	90	41	38	4.5		
9	.7	10	12	116	186	163	86	39	46	4.0		
10	.7	9.5	12	107	141	157	85	35	38	3.8		
11	.7	9	19	98	126	152	83	33	33	3.2		
12	.7	8.5	305	90	114	146	81	31	31	2.8		
13	.7	8.5	470	85	105	144	81	29	25	2.2		
14	.7	8.5	246	81	101	141	80	26	21	1.9		
15	.7	8	160	76	105	136	78	25	24	1.6		
16	.7	8	88	73	278	133	76	24	22	1.3		
17	.7	8	68	70	203	128	73	23	19	.8		
18	.7	8	57	66	155	126	70	20	16	.8		
19	.7	8	52	65	230	126	66	18	16	.6		
20	.7	8	45	78	302	123	64	18	16	.5		
21	.7	7.5	43	68	238	121	60	17	14	.5		
22	.7	7.5	41	64	219	116	60	14	13	.4		
23	.7	7.5	41	66	390	114	76	14	12	.3		
24	.7	7.5	41	114	360	131	83	13	10	.3		
25	.7	7	41	86	298	126	73	16	9.5	.2		
26	.7	7	41	80	554	119	62	23	10	.2		
27	.7	7	41	78	425	111	56	28	10	.1		
28	.7	7	41	76	337	111	51	26	12	.1		
29	1.1	7	200	76		160	48	23	11	0		
30	35	7	600	74		170	47	28	9.5	0		
31	120		400	73		144		30		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	120	0.7	5.68	349
November	80	7	13.4	797
December	600	7.5	103	6,330
January	1,600	64	180	11,100
February	554	68	201	11,200
March	286	111	157	9,650
April	133	47	79.6	4,740
May	80	13	32.6	2,000
June	46	9.5	20.3	1,210
July	8	0	2.42	149
August	0	0	0	0
September	0	0	0	0
The year	1,600	0	65.6	47,500

Note.- No flow during months left blank.

Cosumnes River at Michigan Bar, Calif.

Location.- Water-stage recorder in SE¼ sec. 36, T. 8 N., R. 8 E., at highway bridge at Michigan Bar, 5½ miles southwest of Latrobe. North and Middle Forks unite 12 miles above station. Altitude, about 190 feet.

Drainage area.- 537 square miles (revised).

Records available.- October 1907 to September 1934.

Average discharge.- 26 years (1908-34), 442 second-feet.

Extremes.- Maximum discharge during year, 7,170 second-feet Jan. 1 (gage height, 7.15 feet); no flow Aug. 8 to Sept. 30.
1907-34: Maximum discharge, 23,800 second-feet Feb. 6, 1925 (gage height, 11.2 feet); no flow part of 1908, 1918, 1919, 1924-26, 1931, 1934.

Remarks.- Records excellent. Diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	154	16	4,920	166	756	300	139	56	20	0.3	
2	2.0	80	16	2,720	164	664	280	176	49	18	.2	
3	1.8	51	26	1,140	164	608	254	144	42	15	.2	
4	1.2	40	49	756	161	560	234	132	37	12	.2	
5	1.0	33	56	576	161	525	220	122	37	10	.1	
6	.8	27	40	460	174	497	211	109	38	9	.1	
7	.6	24	31	382	193	466	204	98	56	8	.1	
8	.6	22	27	335	730	436	198	92	72	8	0	
9	.5	21	26	295	525	400	195	87	119	7	0	
10	.5	19	26	262	365	376	187	83	90	6.5	0	
11	.4	19	24	242	315	355	182	78	71	5.5	0	
12	.5	19	45	224	275	340	174	72	64	4.6	0	
13	.6	21	938	211	250	330	171	67	60	4.2	0	
14	.7	19	1,280	198	234	315	166	63	51	4.0	0	
15	.8	16	792	187	242	305	164	60	48	3.7	0	
16	.8	16	476	179	798	305	161	57	50	3.3	0	
17	.9	16	240	168	576	290	154	54	46	3.1	0	
18	.9	16	171	164	424	280	148	50	39	2.7	0	
19	.9	16	149	161	627	270	141	48	34	2.7	0	
20	1.0	16	126	190	810	266	132	44	31	2.7	0	
21	1.0	16	113	176	624	258	127	42	31	2.4	0	
22	1.1	16	103	164	546	250	129	39	28	1.9	0	
23	1.2	16	95	161	980	242	139	35	25	1.5	0	
24	1.6	16	93	238	940	266	176	34	22	1.2	0	
25	1.8	16	92	214	738	270	164	34	21	1.1	0	
26	1.8	15	92	190	2,160	250	144	42	20	.9	0	
27	2.4	15	92	179	1,220	238	129	51	20	.7	0	
28	4.0	14	93	176	910	230	118	56	22	.6	0	
29	4.0	14	643	174		300	109	53	21	.4	0	
30	73	14	1,870	171		400	102	49	22	.4	0	
31	227		1,120	168		330		61		.3	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	227	0.4	10.9	670
November	154	14	26.6	1,580
December	1,870	16	289	17,800
January	4,920	161	509	31,300
February	2,160	161	553	30,700
March	756	230	367	22,600
April	300	102	174	10,400
May	176	34	73.3	4,510
June	119	20	44.1	2,620
July	20	.3	5.21	320
August	.3	0	.04	2.4
September	0	0	0	0
The year	4,920	0	169	123,000

Note.- No flow during September.

Drew Creek near Lakeview, Oreg.

Location.- Staff gage in SE¼ sec. 4, T. 40 S., R. 18 E., at highway bridge half a mile below mouth of Willow Creek, 1 mile below Drew Creek Dam, and 13 miles southwest of Lakeview.

Drainage area.- 211 square miles.

Records available.- January 1909 to September 1921, October 1925 to September 1934 (incomplete) in reports of U. S. Geological Survey; January 1909 to September 1930 in reports of State engineer.

Average discharge.- 21 years (1909-30), including diversion by North Drew Canal, 60.8 second-feet.

Extremes.- Maximum discharge during period, 43 second-feet May 21-25 (gage height, 0.96 foot); no flow at times.
1909-34: Maximum discharge (estimated), 3,000 second-feet Mar. 1, 2, 1910; no flow at times.

Remarks.- Records fair. Considerable regulation caused by operation of Drew Creek Reservoir, 1 mile above station. Since March 1914 North Drew Canal of Goose Lake Valley Irrigation Co. has diverted water around station (see next page). Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								*1.0	21	*33		
2								*1.0	*16	*39		
3		†0.3						*1.0	*11	39		
4								*18	6	*39		
5								27	*6	*39		
6								27	4	39		
7	*1.5							*27	0	*33		
8								27	0	*27		
9								*28	0	21		
10								*30	0	*17		
11								*32	0	*13		
12								*34	0	9		
13							†0.9	35	0	3		
14	3.7							*36	0	0		
15								*37	0	0		
16								*37	0	0		
17								*38	0	0		
18								39	0	0		
19								*40	11	0		
20								*42	*18	0		
21								43	*20	0		
22								*43	23	0		
23								*43	*28	0		
24								*43	*33	0		
25								43	38	0		
26								*42	*38	0		
27								*40	*38	0		
28								*39	*38	0		
29								38	38	0		
30								38	*38	0		
31								*30		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October				
November				
December				
January				
February				
March				
April			*1.0	60
May	43	1.0	32.2	1,980
June	38	0	14.2	843
July	39	0	11.5	706
August	0	0	0	0
September	0	0	0	0
The period				3,590

*Estimated. †Field estimate.

Note.- No flow in August and September. No records Oct. 15 to Nov. 2, Nov. 4 to Apr. 12, and Apr. 14-30.

Drew Creek near Lakeview, Oreg.

(Continued)

Monthly stage and contents, Drew Creek Reservoir near Lakeview, Oreg., 1933-34

Date	Gage height in feet	Contents in acre-feet	Change in contents during month in acre-feet	Date	Gage height in feet	Contents in acre-feet	Change in contents during month in acre-feet
Sept. 30	28.2	2,616		May 31	30.6	3,848	-5,072
Oct. 31	27.8	2,460	-156	June 30	25.0	1,649	-2,199
Nov. 30	28.2	2,616	+156	July 31		*408	-1,241
Dec. 31	28.6	2,788	+172	Aug. 31		*408	0
Jan. 31	30.7	3,911	+1,123	Sept. 30		*408	0
Feb. 28	33.1	5,904	+1,993				
Mar. 31	35.3	8,400	+2,496				
Apr. 30	35.7	8,920	+520	The year			-2,208

*Estimated.

Note.- Maximum contents for year, 8,920 acre-feet Apr. 10 to May 4.

Run-off, in acre-feet, of North Drew Canal near Lakeview, Oreg., 1934

May	3,010	September	0
June	1,460		
July	444	The period	4,910
August	0		

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Cottonwood Creek near Lakeview, Oreg.

Location.- Water-stage recorder in SW¼ sec. 29, T. 38 S., R. 19 E., 200 yards below Cottonwood Reservoir and 10 miles northwest of Lakeview.

Drainage area.- 30 square miles.

Records available.- November 1908 to September 1919, October 1925 to September 1934 in reports of U. S. Geological Survey; November 1908 to September 1919, October 1924 to September 1930 in reports of State engineer.

Average discharge.- 20 years (1909-19, 1924-34), 20.8 second-feet.

Extremes.- Maximum discharge during year, 40 second-feet May 26 (gage height, 2.44 feet); practically no flow at times in August.

1909-1919, 1925-34: Maximum discharge, 500 to 1,000 second-feet during period Apr. 26 to May 1, 1927, when natural mean flow estimated as 170 second-feet was augmented by water escaping from reservoir through break in outlet conduit above control gage; no flow at times.

Remarks.- Records good except those estimated, which are fair. Considerable regulation since 1923 caused by operation of Cottonwood Reservoir, 200 yards above gage. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*1.3	2.4	*1.7			0.4	11	13	14	*28	0.8	0.2
2	*1.3	2.4	*1.7			.4	17	18	14	28	.8	.2
3	*1.3	2.9	*1.6			.4	17	12	14	30	.8	.3
4	*1.3	2.6	1.6			.4	17	9.8	14	30	.8	.3
5	2.0	1.8				.5	17	9.5	7.1	30	.8	.3
6	1.6	2.0			*0.3	.5	17	9.5	2.6	30	.8	.4
7	1.4	2.0				.5	17	7.1	2.4	30	.6	.6
8	1.4	2.0				.6	18	4.5	2.4	29	.5	.6
9	1.2	2.0				.6	18	12	2.6	28	.4	.8
10	1.2	2.0				.6	16	9.5	4.0	15	.4	.6
11	1.1	1.8				.6	11	5.1	4.5	.8	.4	.6
12	1.2	1.8				.6	9.5	5.1	4.5	.3	.5	*.6
13	1.2	1.8			.3	.6	13	4.5	4.5	.3	.2	*.5
14	1.1	2.2			.3	.4	14	2.9	4.5	.2	.1	*.4
15	1.1	1.8			.3	.3	11	16	4.8	.2	.3	.4
16	1.1	1.6			.3	.3	8.9	29	6.5	.2	.1	.4
17	1.1	1.8	*1.0		.3	.3	8.6	33	7.1	.2	0	.4
18	1.2	2.0			.3	.3	8.6	30	6.8	.1	0	.4
19	1.2	2.2			.3	.3	8.9	30	6.8	.1	.1	.3
20	1.1	1.8			.3	.3	8.9	29	6.8	.1	.2	.3
21	1.1	1.8			.3	.3	8.6	30	8.9	.1	0	.3
22	1.1	1.8			.3	.3	7.1	30	15	.2	0	.3
23	1.1	2.0			.3	.3	8.0	30	15	.2	.1	.4
24	1.1	2.0			.3	.3	13	30	15	.2	0	.6
25	1.1	2.0			.3	.3	16	30	26	.3	0	.6
26	1.2	2.2			.3	.3	11	35	30	.3	0	.8
27	1.2	1.8			.3	.3	5.7	34	30	.5	0	.9
28	1.2	1.8			.3	.3	5.4	34	28	.4	.1	1.0
29	2.0	*1.8				.3	5.1	34	*28	.4	.2	.9
30	3.7	*1.7				.3	5.7	33	*28	.4	.2	.9
31	2.9					.3		20		.6	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.7	1.1	1.39	85
November	2.9	1.6	1.99	119
December	1.7		1.08	67
January			*.5	31
February			.30	17
March	.6	.3	.39	24
April	18	5.1	11.8	700
May	35	2.9	20.3	1,250
June	30	2.4	11.9	710
July	30	0.1	9.16	564
August	.8	0	.30	19
September	1.0	.2	.51	30
The year	35	0	4.99	3,620

*Estimated.

Sacramento River at Antler, Calif.

Location.- Water-stage recorder in SE¼ sec. 13, T. 35 N., R. 5 W., a quarter of a mile below highway bridge at Antler. Gregory Creek enters 1,000 feet above gage and Pit River 14 miles below. Elevation of zero of gage is 934.4 feet above mean sea level.

Drainage area.- 461 square miles.

Records available.- November 1910 to December 1911, April 1919 to September 1934.

Average discharge.- 15 years (1919-34), 903 second-feet.

Extremes.- Maximum discharge during year, 10,100 second-feet Jan. 1 (gage height, 9.00 feet); minimum, 105 second-feet parts of several days in August and September.
1910-11, 1919-34: Maximum discharge, 34,000 second-feet Mar. 26, 1928 (gage height, 19.4 feet at former station); minimum, 95 second-feet Aug 19, 28-29, Sept. 3-4, 1931.

Remarks.- Records excellent. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	143	276	173	6,120	640	2,440	1,930	1,140	406	216	134	118
2	140	238	188	4,740	640	2,150	1,680	1,020	386	213	134	115
3	137	220	248	3,930	625	1,930	1,440	950	374	213	134	112
4	137	206	234	2,760	610	1,780	1,350	868	366	210	137	112
5	137	199	206	2,040	620	1,780	1,260	838	378	202	137	112
6	134	192	206	1,440	1,150	1,730	1,220	814	424	196	137	112
7	134	188	276	1,260	3,290	1,530	1,220	796	424	196	137	110
8	134	185	248	1,060	4,540	1,400	1,220	814	374	196	134	105
9	134	182	224	915	2,630	1,350	1,220	742	354	196	128	105
10	134	182	216	838	1,930	1,300	1,180	689	342	188	122	108
11	134	182	238	766	1,530	1,300	1,140	645	322	182	122	110
12	137	179	1,640	706	1,300	1,300	1,100	625	314	179	120	112
13	137	179	2,440	656	1,180	1,260	1,100	595	310	173	120	112
14	137	179	1,020	736	1,060	1,260	1,060	570	290	167	120	112
15	137	179	766	706	1,160	1,260	1,020	540	280	167	120	112
16	137	179	590	650	1,980	1,260	985	518	269	167	120	112
17	137	179	482	625	1,680	1,180	915	504	266	164	118	112
18	137	179	432	605	1,530	1,100	868	491	258	164	115	112
19	137	176	455	615	2,040	1,140	838	468	262	164	112	110
20	140	176	464	694	2,440	1,140	808	450	262	161	112	110
21	140	176	522	656	2,040	1,180	808	437	266	161	112	110
22	143	176	536	635	2,200	1,180	950	419	248	164	110	112
23	143	173	522	706	2,760	1,180	2,080	406	241	164	108	120
24	146	176	486	742	2,320	1,140	2,200	406	238	161	108	137
25	146	173	455	684	2,200	1,220	1,580	424	241	158	108	137
26	146	173	432	667	5,080	1,140	1,260	424	255	152	110	137
27	146	173	414	678	3,860	1,910	1,100	473	255	149	115	140
28	152	173	414	672	3,040	5,250	1,020	424	252	146	120	140
29	314	173	1,650	667		4,330	915	424	238	137	140	137
30	424	173	4,330	667		2,900	1,060	450	227	137	128	134
31	406		3,400	650		2,260		432		134	120	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	424	134	163	10,000
November	276	173	186	11,100
December	4,330	173	771	47,400
January	8,120	605	1,330	81,800
February	5,080	610	2,000	111,000
March	5,250	1,100	1,720	106,000
April	2,200	808	1,220	72,600
May	1,140	406	606	37,300
June	424	227	304	18,100
July	216	134	173	10,600
August	140	108	122	7,500
September	140	105	118	7,020
The year	8,120	105	719	520,000

Sacramento River at Kennett, Calif.

Location.- Water-stage recorder in SW¼ sec. 2, T. 33 N., R. 5 W., at highway bridge at Kennett. Altitude, about 620 feet. Gage set to read 2.00 feet more than U. S. Weather Bureau staff gage at same location.

Drainage area.- 6,600 square miles (not including area of Goose Lake).

Records available.- November 1925 to September 1934.

Extremes.- Maximum discharge during year, 38,900 second-feet Jan. 1 (gage height, 13.80 feet); minimum, 2,340 second-feet Sept. 9.
1925-34: Maximum discharge, 94,900 second-feet Mar. 26, 1928 (gage height, 25.1 feet); minimum, that of Sept. 9, 1934.

Remarks.- Records excellent except those for July 22 to Aug. 5, Aug. 24 to Sept. 6, which were estimated. Storage and many diversions above station in Pit River Basin.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,560	3,670	2,760	32,000	4,210	12,000	8,220	6,840	3,540	2,810	2,500	2,500
2	2,520	3,190	2,760	27,200	4,070	10,100	7,420	5,900	3,540	2,860	2,500	2,500
3	2,520	2,970	3,080	20,400	3,930	9,470	6,840	5,360	3,300	2,610	2,500	2,500
4	2,560	2,860	2,970	14,800	3,930	8,840	6,460	5,000	3,300	2,810	2,500	2,550
5	2,610	2,660	2,920	11,000	3,930	8,630	6,270	4,830	3,300	2,810	2,500	2,500
6	2,610	2,810	2,970	9,050	4,510	8,220	5,900	4,670	3,420	2,760	2,520	2,500
7	2,610	2,810	3,190	7,620	8,130	7,620	5,900	4,510	3,420	2,660	2,520	2,420
8	2,560	2,860	3,080	6,650	15,600	7,030	5,720	4,510	3,420	2,660	2,520	2,420
9	2,610	2,920	3,080	6,080	11,200	6,840	5,540	4,360	3,300	2,710	2,470	2,380
10	2,610	2,920	2,970	5,720	9,050	6,650	5,540	4,210	3,300	2,710	2,470	2,380
11	2,660	2,920	2,970	5,540	7,620	6,270	5,360	4,210	3,190	2,710	2,420	2,470
12	2,660	2,810	7,400	5,180	6,840	6,080	5,180	4,070	3,190	2,710	2,420	2,470
13	2,660	2,810	12,200	5,000	6,460	6,080	5,000	3,930	3,190	2,660	2,470	2,470
14	2,610	2,810	7,820	5,000	6,080	5,900	5,000	3,800	3,080	2,610	2,420	2,420
15	2,560	2,610	7,030	5,000	6,080	5,900	4,830	3,800	3,080	2,680	2,420	2,420
16	2,560	2,810	5,360	4,830	8,020	5,900	4,830	3,670	3,080	2,610	2,470	2,470
17	2,610	2,810	4,510	4,670	7,420	5,720	4,830	3,670	2,970	2,660	2,470	2,470
18	2,660	2,810	3,930	4,510	7,030	5,540	4,670	3,670	2,970	2,660	2,520	2,520
19	2,660	2,760	3,800	4,510	8,830	5,540	4,510	3,670	2,970	2,660	2,470	2,520
20	2,660	2,760	4,070	4,830	13,000	5,360	4,360	3,670	2,920	2,610	2,470	2,470
21	2,660	2,810	4,210	4,670	11,200	5,360	4,210	3,540	2,970	2,560	2,470	2,470
22	2,610	2,760	4,070	4,510	10,300	5,360	4,360	3,540	2,920	2,600	2,420	2,420
23	2,610	2,810	4,070	4,510	11,200	5,180	5,540	3,420	2,920	2,550	2,420	2,520
24	2,610	2,810	3,930	4,510	9,900	5,000	7,030	3,420	2,920	2,550	2,500	2,560
25	2,610	2,760	3,800	4,510	9,470	5,360	5,900	3,420	2,810	2,600	2,500	2,560
26	2,560	2,760	3,600	4,510	15,600	5,180	5,180	3,420	2,970	2,600	2,450	2,560
27	2,560	2,760	3,670	4,510	17,300	5,900	4,830	3,540	2,970	2,500	2,450	2,520
28	2,610	2,760	3,670	4,510	14,500	13,200	4,510	3,540	2,970	2,500	2,450	2,520
29	3,190	2,760	7,820	4,360		14,500	4,210	3,540	2,860	2,500	2,500	2,520
30	4,830	2,760	19,100	4,360		10,800	5,000	3,670	2,860	2,500	2,500	2,520
31	4,670		15,400	4,360		9,260		3,540		2,500	2,500	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,830	2,520	2,770	170,000
November	3,670	2,760	2,860	170,000
December	19,100	2,760	5,240	322,000
January	32,000	4,360	7,710	474,000
February	17,300	3,930	8,760	487,000
March	14,500	5,000	7,380	454,000
April	8,220	4,210	5,440	324,000
May	6,840	3,420	4,090	251,000
June	3,540	2,810	3,120	186,000
July	2,860	2,500	2,650	163,000
August	2,520	2,420	2,470	152,000
September	2,560	2,380	2,480	148,000
The year	32,000	2,380	4,560	3,300,000

Sacramento River near Red Bluff, Calif.

Location.- Water-stage recorder in SE¼ sec. 34, T. 28 N., R. 3 W., at lower end of Iron Canyon, 4 miles northeast of Red Bluff. Altitude, about 250 feet.

Drainage area.- 9,300 square miles (not including Goose Lake Basin).

Records available.- January 1902 to September 1934. April 1895 to June 1902 at Jelley's Ferry, 12 miles above Red Bluff.

Average discharge.- 39 years, 11,300 second-feet.

Extremes.- Maximum discharge during year, 64,900 second-feet Jan. 1 (gage height, 14.50 feet); minimum, 2,400 second-feet Sept. 9.
1902-34: Maximum discharge, 278,000 second-feet Feb. 3, 1909 (gage height, 35.2 feet); minimum, 2,400 second-feet Aug. 13, 1931, and Sept. 9, 1934.

Remarks.- Records excellent. Discharge estimated July 12-17. Storage and many diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,780	5,080	3,260	50,800	5,520	18,600	11,500	8,050	4,460	3,020	2,620	2,550
2	2,780	4,070	3,260	55,400	5,410	15,200	10,300	7,780	4,160	3,020	2,620	2,480
3	2,700	3,700	3,980	35,100	5,190	13,500	9,430	6,980	4,070	3,020	2,620	2,550
4	2,700	3,440	3,880	25,800	5,080	12,500	8,590	6,470	3,880	3,020	2,620	2,550
5	2,700	3,260	3,700	17,800	5,080	11,500	8,050	6,100	3,790	2,940	2,620	2,620
6	2,700	3,260	3,520	13,500	5,190	10,900	7,780	5,860	3,980	2,940	2,620	2,620
7	2,700	3,260	3,610	11,200	6,980	10,300	7,240	5,640	4,260	2,860	2,620	2,550
8	2,700	3,260	3,700	9,720	20,200	9,430	7,240	5,520	4,160	2,860	2,620	2,480
9	2,780	3,260	3,610	8,590	17,400	9,150	6,980	5,520	3,880	2,860	2,620	2,480
10	2,780	3,350	3,610	7,780	12,800	8,590	6,720	5,300	3,700	2,860	2,550	2,400
11	2,780	3,350	3,610	7,510	10,600	8,320	6,470	5,080	3,610	2,860	2,550	2,480
12	2,780	3,260	8,320	6,980	9,150	8,050	6,220	4,870	3,610	2,860	2,550	2,550
13	2,860	3,260	16,300	6,720	8,590	7,780	5,980	4,760	3,520	2,860	2,550	2,480
14	2,860	3,260	12,500	6,470	7,780	7,510	5,980	4,560	3,520	2,860	2,550	2,480
15	2,780	3,260	9,150	7,510	7,510	7,510	5,860	4,360	3,520	2,780	2,550	2,480
16	2,700	3,260	8,050	6,980	15,600	7,510	5,860	4,260	3,440	2,780	2,550	2,480
17	2,700	3,260	5,980	6,720	13,800	7,240	5,750	4,160	3,350	2,780	2,550	2,480
18	2,780	3,260	5,410	6,340	10,900	6,980	5,640	4,460	3,260	2,780	2,550	2,550
19	2,860	3,260	4,980	6,220	14,100	6,980	5,410	4,160	3,260	2,780	2,550	2,550
20	2,780	3,180	4,980	7,240	29,500	6,720	5,300	4,070	3,180	2,700	2,550	2,550
21	2,860	3,180	5,080	6,720	17,800	6,470	5,080	4,070	3,180	2,700	2,550	2,480
22	2,860	3,260	5,080	6,340	15,200	6,470	5,080	3,980	3,180	2,700	2,550	2,480
23	2,860	3,180	4,980	6,100	17,800	6,470	6,720	3,880	3,100	2,700	2,550	2,550
24	2,780	3,260	4,760	6,470	16,300	6,220	10,300	3,790	3,100	2,700	2,480	2,700
25	2,780	3,260	4,760	6,220	13,800	6,220	9,720	3,880	3,100	2,700	2,550	2,700
26	2,780	3,180	4,680	6,100	20,200	6,470	7,780	3,980	3,020	2,700	2,550	2,700
27	2,860	3,180	4,660	5,980	27,600	6,340	6,720	4,260	3,180	2,700	2,550	2,700
28	2,860	3,180	4,560	5,860	22,800	11,500	6,220	4,160	3,180	2,700	2,550	2,620
29	2,940	3,180	24,600	5,750		23,600	5,640	4,160	3,100	2,620	2,620	2,620
30	5,740	3,260	46,400	5,640		17,000	5,640	4,260	3,020	2,620	2,620	2,620
31	6,980		30,000	5,640		13,500		4,360		2,620	2,620	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,980	2,700	3,020	186,000
November	5,080	3,180	3,360	200,000
December	46,400	3,260	8,220	505,000
January	55,400	5,640	12,000	738,000
February	29,500	5,080	13,100	728,000
March	23,600	6,220	9,820	604,000
April	11,500	5,080	7,040	419,000
May	8,050	3,790	4,930	303,000
June	4,460	3,020	3,530	210,000
July	3,020	2,620	2,800	172,000
August	2,620	2,480	2,570	158,000
September	2,700	2,400	2,550	152,000
The year	55,400	2,400	6,040	4,380,000

Sacramento River at Butte City, Calif.

Location.- Water-stage recorder in NE¼ sec. 32, T. 19 N., R. 1 W., a quarter of a mile south of Butte City. Gage is set to U. S. Army Engineers datum.

Records available.- April 1921 to October 1934 (low-water records only).

Extremes.- Minimum discharge during 1934, 1,280 second-feet Aug. 24 (gage height, 67.66 feet).
1921-34: Minimum discharge, 1,050 second-feet July 15, 25-26, 1931 (gage height, 67.49 feet).

Remarks.- Records good. Storage and many diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.						May	June	July	Aug.	Sept.	Oct.
1	2,580						5,040	3,600	1,880	1,370	1,420	2,430
2	2,580						6,580	3,680	1,820	1,350	1,400	2,430
3	2,580						6,800	3,440	1,820	1,360	1,380	2,430
4	2,500						6,360	3,280	1,760	1,360	1,360	2,430
5	2,500						5,740	3,120	1,760	1,370	1,380	2,290
6	2,500						5,440	3,040	1,760	1,380	1,460	2,290
7	2,500						5,140	3,200	1,700	1,370	1,530	2,290
8	2,500						5,040	3,360	1,700	1,340	1,480	2,500
9	2,500						4,850	3,360	1,700	1,350	1,420	2,580
10	2,500						4,850	3,120	1,640	1,350	1,460	2,660
11	2,500						4,580	2,960	1,640	1,340	1,610	2,660
12	2,580						4,310	2,880	1,620	1,330	1,700	2,580
13	2,580						4,040	2,800	1,600	1,310	1,820	2,580
14	2,660						3,950	2,660	1,530	1,320	1,820	2,580
15	2,660						3,770	2,660	1,510	1,320	1,820	2,580
16	2,500						3,600	2,580	1,440	1,320	1,820	2,580
17	2,500						3,440	2,430	1,480	1,310	1,940	2,660
18	2,500						3,360	2,360	1,430	1,320	1,940	2,800
19	2,580						3,440	2,290	1,430	1,320	2,010	2,960
20	2,660						3,440	2,220	1,430	1,330	2,080	2,960
21	2,660						3,200	2,150	1,460	1,350	2,080	2,880
22	2,660						3,200	2,150	1,480	1,340	2,080	2,960
23	2,660						3,120	2,080	1,440	1,310	2,150	3,680
24	2,660						3,040	2,010	1,440	1,290	2,150	3,680
25	2,660						2,960	1,940	1,440	1,290	2,290	3,440
26	2,660						2,960	1,940	1,420	1,320	2,360	3,280
27	2,660						3,120	1,940	1,430	1,350	2,430	3,200
28	2,660						3,360	2,010	1,420	1,380	2,430	3,120
29	2,730						3,440	2,010	1,420	1,380	2,430	3,120
30	2,960						3,360	1,940	1,370	1,380	2,430	3,040
31	4,850						3,520		1,380	1,420		3,200

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1933				
October	4,850	2,500	2,670	164,000
1934				
May	6,800	2,960	4,160	256,000
June	3,680	1,940	2,640	157,000
July	1,880	1,370	1,560	95,900
August	1,420	1,290	1,340	82,400
September	2,430	1,360	1,860	111,000
October	3,680	2,290	2,800	172,000
The period				874,000

Sacramento River at Colusa, Calif.

Location.- Water-stage recorder at north end of Jimeno grant, just below highway bridge at Colusa, Colusa County. Gage is set to U. S. Army Engineers datum.

Records available.- April 1921 to October 1934 (low-water records only).

Extremes.- Minimum discharge during summer 1934, 1,320 second-feet Aug. 22-26. 1921-34: Minimum discharge, 820 second-feet July 25-26, 1931 (gage height, 34.79 feet).

Remarks.- Records good. Storage and many diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.						May	June	July	Aug.	Sept.	Oct.
1	2,680						5,230	3,700	2,040	1,420	1,450	2,420
2	2,590						5,330	3,790	1,970	1,420	1,450	2,420
3	2,590						6,930	3,700	1,900	1,420	1,420	2,340
4	2,590						6,430	3,430	1,900	1,420	1,420	2,340
5	2,510						5,930	3,340	1,900	1,420	1,400	2,340
6	2,510						5,630	3,250	1,830	1,420	1,420	2,260
7	2,510						5,330	3,250	1,830	1,420	1,510	2,260
8	2,510						5,140	3,430	1,800	1,400	1,540	2,420
9	2,590						4,960	3,520	1,800	1,370	1,510	2,580
10	2,590						4,960	3,340	1,760	1,370	1,510	2,580
11	2,590						4,780	3,160	1,760	1,370	1,580	2,580
12	2,590						4,600	3,070	1,730	1,370	1,760	2,580
13	2,590						4,330	2,980	1,700	1,340	1,800	2,580
14	2,590						4,150	2,810	1,670	1,340	1,870	2,580
15	2,590						4,060	2,730	1,640	1,340	1,870	2,500
16	2,590						3,880	2,650	1,570	1,340	1,870	2,580
17	2,510						3,700	2,650	1,570	1,340	1,940	2,580
18	2,510						3,520	2,570	1,570	1,340	2,020	2,660
19	2,590						3,610	2,490	1,570	1,340	2,020	2,820
20	2,590						3,700	2,410	1,540	1,340	2,100	2,900
21	2,590						3,520	2,340	1,540	1,340	2,100	2,820
22	2,590						3,430	2,260	1,540	1,320	2,100	2,820
23	2,680						3,340	2,180	1,510	1,320	2,180	3,140
24	2,680						3,250	2,160	1,510	1,320	2,180	3,540
25	2,590						3,250	2,110	1,510	1,320	2,260	3,300
26	2,590						3,250	2,110	1,510	1,320	2,340	3,220
27	2,590						3,250	2,110	1,480	1,370	2,340	3,140
28	2,590						3,340	2,110	1,480	1,400	2,420	3,060
29	2,680						3,520	2,110	1,510	1,400	2,420	3,060
30	2,770						3,520	2,110	1,480	1,400	2,420	2,990
31	3,510						3,520		1,450	1,420		3,060

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1933				
October	3,510	2,510	2,620	161,000
1934				
May	6,930	3,250	4,320	266,000
June	3,790	2,110	2,800	167,000
July	2,040	1,450	1,660	102,000
August	1,420	1,320	1,370	84,200
September	2,420	1,400	1,870	111,000
October	3,540	2,260	2,720	167,000
The period				897,000

Sacramento River below Wilkins Slough, Calif.

Location.- Water-stage recorder in Jimeno grant, Colusa County, 1,500 feet below Wilkins Slough and 6 miles southeast of Grimes. Gage is set to U. S. Army Engineers datum.

Records available.- August 1931 to October 1934 (low-water records only).

Extremes.- Minimum discharge during 1934, 605 second-feet Aug. 15.
1931-34: Minimum discharge, 100 second-feet Aug. 1, 1931 (gage height, 14.20 feet).

Remarks.- Records good. Discharge estimated June 20 to July 3. Storage and many irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.						May	June	July	Aug.	Sept.	Oct.
1	2,870						4,600	3,060	1,250	710	920	2,500
2	2,770						4,550	3,120	1,250	728	920	2,500
3	2,770						5,600	3,230	1,250	710	955	2,500
4	2,770						5,860	3,010	1,160	728	920	2,500
5	2,720						5,320	2,800	1,100	745	920	2,450
6	2,670						4,900	2,600	1,060	745	955	2,400
7	2,620						4,620	2,350	1,060	728	990	2,300
8	2,670						4,500	2,500	1,060	728	1,100	2,350
9	2,670						4,180	2,750	1,060	675	1,160	2,500
10	2,670						4,180	2,600	1,020	675	1,130	2,550
11	2,670						4,060	2,450	1,060	675	1,160	2,600
12	2,670						3,820	2,350	1,060	692	1,320	2,550
13	2,670						3,400	2,350	1,020	692	1,520	2,500
14	2,720						3,180	2,210	1,020	640	1,640	2,500
15	2,770						3,060	2,120	990	640	1,720	2,500
16	2,770						2,800	2,080	955	658	1,760	2,500
17	2,720						2,700	1,980	885	658	1,760	2,500
18	2,670						2,600	1,900	902	658	1,800	2,550
19	2,670						2,500	1,720	868	675	1,900	2,650
20	2,720						2,750	1,650	850	658	1,980	2,750
21	2,770						2,600	1,600	832	640	2,030	2,800
22	2,770						2,450	1,500	868	675	2,120	2,800
23	2,770						2,400	1,400	868	675	2,160	2,850
24	2,770						2,350	1,350	798	675	2,260	3,280
25	2,770						2,300	1,300	780	675	2,300	3,400
26	2,720						2,210	1,250	780	710	2,400	3,280
27	2,670						2,210	1,200	762	728	2,450	3,180
28	2,670						2,300	1,150	762	798	2,450	3,120
29	2,720						2,400	1,150	798	850	2,500	3,010
30	2,820						2,500	1,200	798	850	2,500	3,010
31	3,020						2,550		710	868		3,010

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1933				
October	3,020	2,620	2,730	168,000
1934				
May	5,860	2,210	3,400	209,000
June	3,230	1,150	2,060	123,000
July	1,250	710	956	58,800
August	868	640	708	43,500
September	2,500	920	1,660	98,800
October	3,400	2,300	2,710	167,000
The period				700,000

Sacramento River at Knights Landing, Calif.

Location.- Water-stage recorder in NE¼ sec. 14, T. 11 N., R. 2 E., just above Southern Pacific Railroad bridge at Knights Landing. Gage is set to U. S. Army Engineers datum.

Records available.- April 1921 to October 1934 (low-water records only).

Extremes.- Minimum discharge during summer 1934, 705 second-feet Aug. 4 and 19. 1921-34: Minimum discharge, 250 second-feet July 23, 1931 (gage height, 7.80 feet).

Remarks.- Records good May 4 to Sept. 25; fair May 1-3, when estimated, and Sept. 26 to Oct. 31, when shifting conditions existed. Storage on tributaries, many diversions, and considerable return water affect flow.

Discharge, in second-feet, 1933-34

Day	Oct.						May	June	July	Aug.	Sept.	Oct.
1	3,110						5,000	3,400	1,240	805	1,100	2,600
2	2,990						4,900	3,470	1,290	780	1,100	2,540
3	2,930						6,000	3,470	1,290	755	1,100	2,480
4	2,930						6,250	3,470	1,180	730	1,100	2,540
5	2,870						5,970	3,340	1,180	755	1,070	2,540
6	2,750						5,620	3,210	1,100	805	1,070	2,480
7	2,750						5,270	3,020	1,020	805	1,100	2,360
8	2,750						4,920	2,960	1,040	780	1,240	2,360
9	2,700						4,580	3,080	988	780	1,400	2,480
10	2,700						4,440	3,210	988	755	1,400	2,600
11	2,700						4,380	3,080	988	780	1,370	2,660
12	2,700						4,250	2,780	960	805	1,560	2,600
13	2,700						4,060	2,600	1,020	855	1,950	2,600
14	2,700						3,660	2,480	1,020	855	2,060	2,660
15	2,700						3,470	2,300	960	805	2,120	2,600
16	2,640						3,340	2,120	960	805	2,300	2,600
17	2,640						3,140	2,060	932	855	2,240	2,600
18	2,530						3,020	2,060	855	805	2,240	2,540
19	2,530						2,900	1,950	830	730	2,240	2,660
20	2,580						2,960	1,840	805	780	2,300	2,840
21	2,580						2,960	1,730	830	730	2,480	2,900
22	2,580						2,840	1,510	880	805	2,420	2,900
23	2,580						2,840	1,430	855	805	2,480	2,900
24	2,580						2,720	1,320	855	830	2,600	3,210
25	2,640						2,720	1,260	880	855	2,600	3,540
26	2,640						2,720	1,150	932	880	2,600	3,540
27	2,640						2,840	1,120	880	905	2,600	3,280
28	2,580						2,900	1,070	855	1,040	2,600	3,210
29	2,640						3,140	1,120	855	1,100	2,600	3,080
30	2,750						3,280	1,150	880	1,120	2,600	3,020
31	3,110						3,280		855	1,100		3,020

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1933				
October	3,110	2,530	2,720	167,000
1934				
May	6,250	2,720	3,880	239,000
June	3,470	1,070	2,290	136,000
July	1,290	805	974	59,900
August	1,120	730	839	51,600
September	2,600	1,070	1,920	114,000
October	3,540	2,360	2,770	170,000
The period				770,000

Sacramento River at Verona, Calif.

Location.- Water-stage recorder in SE¼ sec. 23, T. 11 N., R. 3 E., three-quarters of a mile southeast of Verona and 1 mile below mouth of Feather River. Gage is set to U. S. Army Engineers datum.

Records available.- May 1926 to September 1934 (low-water records only, 1926 to 1929).

Extremes.- Maximum discharge during year, 47,900 second-feet Jan. 4 (gage height, 33.34 feet); minimum, 1,200 second-feet July 21 (gage height, 8.18 feet).
1926-34: Maximum discharge recorded, 57,400 second-feet Dec. 17, 1929 (gage height, 34.79 feet); minimum, 281 second-feet July 24, 1931 (gage height, 6.93 feet).

Remarks.- Records good. Discharge estimated Dec. 25-27. Storage, many diversions, and considerable return water affect flow.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,930	8,790	5,080	33,600	12,500	35,600	30,600	7,520	4,240	2,000	1,240	1,760
2	4,650	9,320	5,080	38,900	12,500	34,900	28,700	8,820	4,380	1,920	1,270	2,050
3	4,650	8,620	5,380	45,600	12,100	33,800	26,000	10,000	4,380	1,920	1,270	1,920
4	4,510	7,600	6,000	47,700	11,800	32,200	23,000	10,600	4,380	1,840	1,270	1,760
5	4,510	6,800	6,800	47,400	11,200	30,300	20,100	10,000	4,240	1,760	1,340	1,640
6	4,370	6,320	6,800	46,500	11,000	28,500	18,300	9,200	4,100	1,640	1,440	1,640
7	4,230	5,840	6,640	44,800	11,600	26,700	17,200	8,440	3,960	1,600	1,340	1,760
8	4,230	5,680	6,640	41,700	13,700	24,600	16,500	7,700	4,100	1,560	1,300	1,800
9	4,090	5,530	6,480	37,500	18,300	22,300	15,700	7,520	4,380	1,640	1,340	2,340
10	4,090	5,380	6,640	32,200	21,800	20,500	15,000	7,000	4,520	1,560	1,270	2,100
11	4,090	5,230	6,800	27,600	23,200	19,600	14,400	6,830	4,240	1,520	1,270	1,880
12	4,090	5,080	6,960	24,100	21,800	18,500	13,700	6,500	3,830	1,480	1,270	1,960
13	4,090	5,230	9,140	20,700	19,400	17,900	13,100	6,180	3,570	1,520	1,340	2,600
14	4,090	5,230	15,300	17,900	17,900	17,400	12,700	5,860	3,440	1,520	1,300	2,870
15	4,090	5,380	19,700	16,300	16,500	17,000	12,100	5,400	3,200	1,520	1,270	3,200
16	3,950	5,380	19,500	15,400	15,900	16,500	11,600	5,100	2,980	1,440	1,300	3,570
17	3,810	5,530	16,900	15,700	17,400	16,300	11,400	4,600	2,980	1,380	1,380	3,320
18	3,810	5,680	14,900	15,000	19,600	15,900	10,800	4,520	2,870	1,380	1,300	3,320
19	3,810	5,680	13,000	14,400	21,200	15,400	10,400	4,240	2,760	1,340	1,300	3,440
20	3,810	5,680	11,700	14,000	22,500	15,400	9,800	4,100	2,600	1,300	1,340	3,700
21	3,950	5,530	10,900	14,000	26,700	15,200	9,010	4,100	2,540	1,270	1,300	3,960
22	3,810	5,530	10,400	14,000	30,300	15,000	8,440	3,830	2,440	1,340	1,380	3,960
23	3,810	5,530	10,200	13,700	31,000	15,000	8,060	3,700	2,240	1,410	1,410	4,240
24	3,810	5,530	10,200	13,500	31,700	14,800	8,250	3,700	2,190	1,410	1,410	4,100
25	3,950	5,380	9,860	13,700	32,600	14,600	9,200	3,700	2,140	1,410	1,410	3,960
26	3,950	5,380	9,680	13,700	32,900	14,200	11,200	3,700	2,050	1,380	1,480	3,960
27	3,950	5,230	9,140	13,300	33,600	14,200	12,300	3,960	1,960	1,380	1,440	3,960
28	3,950	5,080	8,790	13,100	34,900	14,400	10,800	4,240	1,920	1,340	1,520	3,960
29	4,090	5,080	8,960	12,900		16,200	9,200	4,380	2,000	1,380	1,680	3,960
30	4,230	5,080	13,300	12,700		25,200	8,060	4,380	1,920	1,340	1,760	4,100
31	5,380		27,800	12,700		30,100		4,380		1,270	1,720	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,380	3,810	4,150	255,000
November	9,320	5,080	5,910	352,000
December	27,800	5,080	10,500	646,000
January	47,700	12,700	24,000	1,480,000
February	34,900	11,000	20,900	1,160,000
March	35,600	14,200	20,900	1,290,000
April	30,600	8,060	14,200	845,000
May	10,600	3,700	5,950	366,000
June	4,520	1,920	3,220	192,000
July	2,000	1,270	1,510	92,800
August	1,760	1,240	1,380	84,800
September	4,240	1,640	2,960	176,000
The year	47,700	1,240	9,570	6,940,000

Pit River near Canby, Calif.

Location.- Water-stage recorder in SW¼ sec. 10, T. 41 N., R. 9 E., at lower end of Warm Spring Valley, about 4 miles southwest of Canby. Altitude, about 4,300 feet.

Drainage area.- 1,500 square miles.

Records available.- January 1904 to December 1905, May 1929 to September 1934 (incomplete until 1931-32).

Extremes.- Maximum discharge during year, 90 second-feet Dec. 13, Feb. 8-9 (gage height, 2.82 feet); minimum, 0.1 second-foot Apr. 29, Aug. 5, Sept. 18.
1904-5, 1929-34: Maximum discharge recorded, 14,000 second-feet Mar. 8, 1904 (gage height, 14.0 feet, old datum); minimum, 0.1 second-foot Apr. 29, Aug. 5, Sept. 18, 1934.

Remarks.- Records good. Discharge estimated Nov. 29 to Dec. 3, Dec. 6-7, Sept. 23-30. Storage and many irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.8	10	42	67	69	52	3.2	0.2	3.6	12	0.2	0.3
2	3.0	18	42	65	67	28	2.8	1.0	9	11	.2	.3
3	6.5	34	42	74	64	13	2.4	9	21	10	.2	.3
4	7	33	42	76	67	7.5	6	14	20	9	.2	.3
5	4.6	34	44	74	62	12	5.5	28	17	7	.2	.3
6	3.8	36	48	74	60	14	4.5	21	19	6	.2	.3
7	3.8	41	50	76	60	9	3.6	15	23	6	.2	.3
8	3.4	41	44	72	76	7	2.8	14	17	5.5	.2	.3
9	3.4	39	50	70	83	4.0	1.7	13	12	5	.2	.3
10	3.4	39	54	63	74	1.7	1.2	17	11	5	.2	.2
11	3.4	38	48	59	69	1.2	.8	14	11	5.5	.2	.2
12	3.4	38	74	57	69	1.0	.6	13	11	7	.2	.2
13	3.8	38	81	54	67	1.0	.5	11	17	7	.2	.2
14	3.8	38	65	61	62	1.4	.4	10	14	7	.2	.2
15	3.8	36	61	70	58	2.0	.4	8	13	6	.2	.2
16	3.8	34	59	70	60	1.4	.3	7	12	6	.2	.2
17	3.8	31	61	72	60	1.0	.2	5.5	17	6	.2	.2
18	4.2	33	59	72	60	.8	.1	4.0	17	5.5	.2	.2
19	4.2	41	57	72	58	.6	.1	2.8	14	5	.2	.2
20	4.2	42	59	78	69	.5	.1	1.4	18	8	.2	.2
21	4.2	39	59	76	76	.5	.1	.8	18	15	.2	.2
22	4.2	39	54	78	74	.5	.1	.5	19	14	.2	.2
23	4.2	41	57	61	76	.5	.2	.3	18	11	.2	.3
24	4.2	41	57	76	64	.5	.2	.2	17	10	.2	.3
25	4.2	41	57	76	58	.8	.2	.2	17	9	.2	.4
26	4.2	42	55	81	60	1.0	.2	.2	24	7	.2	.4
27	4.2	42	57	81	60	1.2	.2	.2	18	5	.3	.4
28	4.2	42	55	83	56	3.2	.1	.2	15	2.8	.3	.4
29	5.5	42	57	80		5.5	.1	.5	14	1.4	.3	.4
30	13	42	78	74		4.0	.1	1.4	13	.6	.3	.4
31	15		76	69		4.0		2.0		.3	.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	15	3.0	4.78	294
November	42	10	36.8	2,190
December	81	42	58.0	3,440
January	83	54	72.0	4,430
February	83	56	65.6	3,640
March	52	.5	5.83	358
April	6	.1	1.29	76.8
May	28	.2	6.95	427
June	24	3.6	15.7	934
July	15	.3	6.95	427
August	.3	.2	.22	13.3
September	.4	.2	.28	16.5
The year	83	.1	22.4	16,200

Pit River at Fall River Mills, Calif.

Location.- Water-stage recorder in NE¼ sec. 6, T. 38 N., R. 5 E., three-quarters of a mile below mouth of Fall River and town of Fall River Mills. Altitude, about 3,235 feet.

Records available.- March 1921 to September 1934.

Average discharge.- 11 years (1923-34), 281 second-feet.

Extremes.- Maximum discharge during year, 326 second-feet Feb. 25, 26 (gage height, 1.48 feet); minimum, 47 second-feet May 9.
1921-34: Maximum discharge, 10,800 second-feet Mar. 28, 1928 (gage height, 7.89 feet); minimum, 12 second-feet Aug. 5, 1926.

Remarks.- Records good except those for Nov. 19-24, Dec. 17-22, June 17-22, which were estimated. Entire flow of Fall River is diverted above station; many small storage reservoirs and irrigation diversions; return water from McArthur, Knoch, and other diversions. Gage-height record and results of discharge measurements furnished by Mount Shasta Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	68	92	203	185	266	105	84	103	90	78	77
2	78	67	100	250	176	262	100	84	90	90	74	77
3	86	65	103	246	161	236	96	86	88	82	74	74
4	84	62	103	218	161	209	96	88	87	64	71	71
5	84	64	103	203	161	185	103	87	88	80	64	74
6	84	64	130	194	161	161	110	81	96	93	71	84
7	84	75	138	194	161	138	107	71	103	86	86	82
8	84	100	107	188	186	108	102	56	102	84	82	70
9	81	86	102	179	209	67	98	85	98	86	77	81
10	78	80	102	173	222	75	93	87	96	82	75	77
11	77	80	102	161	294	92	93	75	86	75	74	90
12	78	81	118	155	274	93	88	88	72	82	65	88
13	78	88	122	150	232	92	88	84	95	84	65	84
14	78	92	148	150	206	88	82	78	98	81	87	81
15	75	93	176	150	191	84	75	82	72	78	84	80
16	60	92	182	142	185	100	65	78	75	80	81	80
17	52	88	173	140	176	100	52	72	80	84	77	80
18	52	86	170	158	173	96	75	82	80	74	74	75
19	51	84	152	164	176	92	81	81	75	84	65	58
20	52	84	140	161	218	92	88	78	80	86	75	57
21	52	84	138	145	218	92	68	77	85	70	72	87
22	52	84	140	155	222	90	80	75	90	67	78	78
23	52	84	148	188	278	90	92	64	82	71	78	81
24	52	84	176	212	308	92	93	70	88	86	72	84
25	52	90	179	236	517	98	84	96	88	84	64	86
26	52	96	167	222	322	96	90	98	98	81	67	87
27	52	93	158	206	308	96	88	98	95	81	84	87
28	52	93	155	197	274	103	84	90	92	86	84	87
29	65	92	161	200		122	82	88	88	84	78	87
30	84	88	176	194		148	81	87	88	82	77	86
31	74		188	185		122		105		82	77	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	86	51	67.9	4,180
November	100	62	82.9	4,930
December	188	92	140	8,610
January	250	140	184	11,300
February	322	161	220	12,200
March	266	67	122	7,500
April	110	52	88.0	5,240
May	105	56	82.4	5,070
June	103	72	88.7	5,280
July	93	67	81.3	5,000
August	87	64	75.2	4,620
September	90	57	79.7	4,740
The year	322	51	109	78,700

Pit River below Pit No. 4 Dam, Calif.

Location.- Water-stage recorder in SW¼ sec. 17, T. 36 N., R. 2 E., 1 mile below Pit No. 4 Dam and 3 miles below Screwdriver Creek and Pit no. 3 power house. Altitude, about 2,345 feet.

Drainage area.- 4,860 square miles.

Records available.- July 1927 to September 1934.

Extremes.- Maximum discharge during year, 3,080 second-feet Feb. 27 (gage height, 8.15 feet); minimum, 1,370 second-feet Aug. 12.
1927-34: Maximum discharge, 14,800 second-feet Mar. 29, 1928 (gage height, 14.20 feet); minimum, 715 second-feet Mar. 21, 1928, caused by regulation.

Remarks.- Records excellent. Storage, power plants, and many diversions above station; daily fluctuations smoothed out by automatic regulator at Pit No. 4 Dam. Gage-height record and results of discharge measurements furnished by Mount Shasta Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,550	1,820	1,650	2,050	1,820	1,930	1,990	1,650	1,760	1,600	1,550	1,460
2	1,500	1,650	1,650	1,930	1,650	1,820	1,990	1,700	1,700	1,600	1,550	1,500
3	1,550	1,600	1,700	1,990	1,600	2,050	1,820	1,650	1,650	1,600	1,550	1,550
4	1,600	1,600	1,760	1,990	1,600	2,110	1,820	1,600	1,650	1,600	1,500	1,600
5	1,600	1,600	1,820	1,990	1,700	2,170	1,820	1,650	1,650	1,600	1,460	1,600
6	1,600	1,600	1,760	1,930	1,700	2,050	1,820	1,600	1,650	1,500	1,500	1,550
7	1,600	1,600	1,760	1,870	1,700	1,990	1,820	1,600	1,650	1,500	1,500	1,500
8	1,600	1,700	1,820	1,760	1,870	1,990	1,760	1,600	1,700	1,550	1,500	1,500
9	1,650	1,700	1,820	1,760	2,050	1,930	1,760	1,650	1,700	1,600	1,500	1,460
10	1,650	1,700	1,760	1,820	1,930	1,870	1,760	1,650	1,650	1,600	1,460	1,500
11	1,650	1,700	1,700	1,870	1,930	1,760	1,760	1,600	1,600	1,600	1,460	1,550
12	1,650	1,650	1,820	1,870	1,930	1,760	1,700	1,650	1,600	1,550	1,500	1,500
13	1,600	1,650	1,990	1,760	1,930	1,820	1,650	1,650	1,600	1,550	1,460	1,500
14	1,550	1,650	2,110	1,650	1,930	1,870	1,700	1,600	1,600	1,550	1,460	1,500
15	1,550	1,650	1,990	1,820	1,870	1,870	1,760	1,550	1,600	1,550	1,500	1,500
16	1,600	1,650	1,930	1,870	1,870	1,870	1,820	1,600	1,600	1,600	1,500	1,550
17	1,650	1,650	1,820	1,820	1,820	1,870	1,820	1,650	1,600	1,600	1,550	1,600
18	1,650	1,650	1,550	1,820	1,820	1,930	1,760	1,600	1,600	1,650	1,550	1,600
19	1,650	1,650	1,600	1,870	1,870	1,820	1,760	1,650	1,550	1,600	1,550	1,550
20	1,650	1,700	1,820	1,930	2,230	1,820	1,700	1,700	1,550	1,550	1,550	1,550
21	1,650	1,700	1,870	1,930	2,410	1,760	1,600	1,650	1,550	1,550	1,500	1,500
22	1,600	1,700	1,820	1,870	2,290	1,700	1,600	1,600	1,550	1,550	1,460	1,550
23	1,600	1,700	1,760	1,760	2,230	1,650	1,600	1,600	1,600	1,550	1,460	1,600
24	1,600	1,700	1,760	1,820	2,050	1,700	1,650	1,500	1,550	1,550	1,550	1,600
25	1,650	1,650	1,820	1,930	2,050	1,820	1,700	1,500	1,550	1,600	1,550	1,600
26	1,650	1,650	1,820	1,930	2,170	1,870	1,700	1,550	1,600	1,600	1,550	1,600
27	1,600	1,650	1,820	1,930	2,540	1,870	1,650	1,650	1,600	1,550	1,500	1,550
28	1,650	1,650	1,820	1,870	2,540	1,930	1,460	1,700	1,600	1,500	1,500	1,550
29	1,700	1,700	1,870	1,870		1,990	1,500	1,820	1,550	1,550	1,500	1,550
30	1,870	1,700	2,110	1,870		2,110	1,650	1,760	1,550	1,550	1,550	1,500
31	2,050		2,230	1,870		2,050		1,760		1,550	1,500	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,050	1,500	1,640	101,000
November	1,820	1,600	1,670	99,400
December	2,230	1,550	1,820	112,000
January	2,050	1,650	1,870	115,000
February	2,540	1,600	1,970	109,000
March	2,170	1,650	1,900	117,000
April	1,990	1,460	1,730	103,000
May	1,820	1,500	1,640	101,000
June	1,760	1,550	1,610	95,800
July	1,650	1,500	1,570	96,500
August	1,550	1,460	1,510	92,800
September	1,600	1,460	1,540	91,600
The year	2,540	1,460	1,700	1,230,000

Pit River at Big Bend, Calif.

Location.- Water-stage recorder in sec. 31, T. 37 N., R. 1 E., a quarter of a mile above Big Bend. Nelson Creek enters half a mile above and Kosk Creek 1 mile below station. Altitude, about 1,700 feet.

Drainage area.- 4,920 square miles (not including Goose Lake Basin).

Records available.- September 1910 to September 1934.

Average discharge.- 23 years (1911-34), 2,780 second-feet.

Extremes.- Maximum discharge during year, 3,530 second-feet Feb. 28 (gage height, 8.99 feet); minimum, 1,410 second-feet Aug. 12.
1910-34: Maximum discharge, 14,400 second-feet Mar. 29, 1928 (gage height, 13.40 feet); minimum, 664 second-feet July 9-10, 1925 (regulated).

Remarks.- Records excellent. Storage, power plants, and many diversions above station; daily fluctuations smoothed out by automatic regulator at Pit No. 4 Dam.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,570	1,940	1,690	2,440	1,880	2,300	2,220	1,810	1,880	1,630	1,570	1,520
2	1,620	1,750	1,690	2,370	1,750	2,010	2,150	1,810	1,810	1,630	1,570	1,570
3	1,570	1,690	1,750	2,370	1,690	2,300	2,010	1,810	1,690	1,690	1,570	1,570
4	1,630	1,690	1,750	2,300	1,690	2,370	1,940	1,750	1,690	1,690	1,520	1,630
5	1,690	1,690	1,810	2,220	1,750	2,370	1,940	1,750	1,690	1,630	1,460	1,570
6	1,690	1,630	1,810	2,150	1,750	2,300	1,940	1,750	1,690	1,570	1,520	1,570
7	1,630	1,690	1,810	2,010	1,810	2,150	1,940	1,690	1,690	1,570	1,520	1,520
8	1,630	1,750	1,810	1,880	2,080	2,150	1,940	1,750	1,750	1,570	1,520	1,520
9	1,690	1,810	1,810	1,680	2,220	2,080	1,880	1,750	1,750	1,630	1,520	1,460
10	1,690	1,810	1,750	1,940	2,150	2,010	1,880	1,750	1,750	1,630	1,460	1,520
11	1,690	1,750	1,690	2,010	2,080	1,880	1,880	1,690	1,690	1,630	1,460	1,570
12	1,690	1,750	1,880	2,010	2,010	1,880	1,810	1,690	1,690	1,630	1,520	1,520
13	1,690	1,690	2,150	1,940	2,080	1,880	1,750	1,690	1,690	1,570	1,520	1,570
14	1,630	1,750	2,220	1,810	2,010	1,940	1,810	1,630	1,690	1,570	1,460	1,520
15	1,570	1,750	2,080	1,940	2,010	1,940	1,880	1,630	1,690	1,570	1,520	1,520
16	1,630	1,750	2,010	2,010	1,940	2,010	1,940	1,690	1,690	1,570	1,520	1,570
17	1,690	1,750	1,880	1,940	1,940	1,940	1,940	1,750	1,630	1,630	1,520	1,630
18	1,690	1,750	1,630	1,880	1,940	2,010	1,940	1,750	1,630	1,570	1,570	1,630
19	1,690	1,690	1,630	1,940	2,080	1,940	1,880	1,750	1,570	1,570	1,570	1,570
20	1,690	1,750	1,880	2,010	2,440	1,940	1,810	1,750	1,570	1,520	1,570	1,570
21	1,690	1,750	1,940	2,010	2,680	1,880	1,690	1,750	1,570	1,520	1,520	1,520
22	1,690	1,750	1,880	1,940	2,520	1,810	1,690	1,690	1,570	1,570	1,460	1,570
23	1,630	1,750	1,810	1,880	2,440	1,750	1,750	1,630	1,630	1,570	1,520	1,630
24	1,630	1,750	1,810	1,880	2,220	1,810	1,810	1,630	1,570	1,570	1,570	1,630
25	1,690	1,750	1,880	2,010	2,220	1,880	1,810	1,570	1,630	1,570	1,570	1,630
26	1,690	1,690	1,880	2,080	2,370	1,940	1,810	1,630	1,630	1,630	1,570	1,570
27	1,690	1,690	1,880	2,010	2,920	2,010	1,810	1,690	1,690	1,520	1,520	1,570
28	1,690	1,750	1,880	1,940	3,000	2,220	1,570	1,810	1,690	1,520	1,520	1,570
29	1,810	1,750	2,010	1,940		2,300	1,570	1,940	1,630	1,520	1,520	1,570
30	2,080	1,750	2,300	1,940		2,300	1,810	1,880	1,630	1,520	1,570	1,570
31	2,220		2,520	2,010		2,300		1,880		1,520	1,520	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,220	1,520	1,690	104,000
November	1,940	1,630	1,740	104,000
December	2,520	1,630	1,890	116,000
January	2,440	1,810	2,020	124,000
February	3,000	1,690	2,130	118,000
March	2,370	1,750	2,050	126,000
April	2,220	1,570	1,860	111,000
May	1,940	1,570	1,730	106,000
June	1,880	1,570	1,670	99,400
July	1,690	1,520	1,580	97,200
August	1,570	1,460	1,530	94,100
September	1,630	1,460	1,560	92,800
The year	3,000	1,460	1,790	1,290,000

Pit River above Hatchet Creek, Calif.

Location.- Water-stage recorder in NE¼ sec. 5, T. 35 N., R. 1 W., 5 miles upstream from Hatchet Creek and 8 miles southwest of Big Bend. Altitude, about 1,280 feet.

Drainage area.- 5,040 square miles (not including Goose Lake Basin).

Records available.- November 1925 to September 1934.

Extremes.- Maximum discharge during year, 4,660 second-feet Jan. 1 (gage height, 7.20 feet); minimum, 1,450 second-feet Aug. 23, Sept. 9.
1925-34: Maximum discharge recorded, 18,500 second-feet Mar. 27, 29, 1928 (gage height, 13.85 feet); minimum recorded, that of Aug. 23, Sept. 9, 1934.

Remarks.- Records good. Daily discharge estimated Dec. 13-28, May 10-15. Storage, power plants, and many diversions above station; daily fluctuations smoothed out by automatic regulator at Pit No. 4 Dam. Gage-height record and results of discharge measurements furnished by Mount Shasta Power Corporation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,580	2,000	1,720	4,100	2,040	3,040	2,550	2,220	1,960	1,660	1,620	1,520
2	1,550	1,840	1,690	4,100	1,880	2,650	2,450	2,120	1,920	1,690	1,580	1,550
3	1,550	1,720	1,760	3,570	1,840	2,820	2,300	2,040	1,800	1,720	1,580	1,580
4	1,620	1,690	1,800	3,090	1,800	2,820	2,260	2,000	1,800	1,720	1,550	1,660
5	1,660	1,690	1,800	2,820	1,880	2,820	2,260	1,960	1,800	1,690	1,520	1,620
6	1,690	1,660	1,840	2,600	1,920	2,700	2,220	1,920	1,800	1,620	1,580	1,580
7	1,660	1,690	1,800	2,400	2,170	2,550	2,220	1,880	1,800	1,620	1,580	1,550
8	1,660	1,760	1,840	2,260	2,870	2,500	2,170	1,920	1,840	1,620	1,550	1,520
9	1,890	1,800	1,840	2,170	2,700	2,400	2,120	1,920	1,840	1,660	1,550	1,480
10	1,690	1,800	1,760	2,170	2,550	2,300	2,120	1,920	1,800	1,660	1,550	1,550
11	1,690	1,760	1,760	2,220	2,400	2,170	2,080	1,920	1,760	1,660	1,520	1,580
12	1,720	1,720	2,170	2,220	2,350	2,170	2,000	1,880	1,760	1,660	1,550	1,580
13	1,720	1,720	2,450	2,170	2,300	2,170	1,960	1,880	1,760	1,620	1,550	1,580
14	1,720	1,720	2,500	2,040	2,300	2,220	2,000	1,840	1,760	1,580	1,520	1,550
15	1,720	1,720	2,500	2,080	2,260	2,220	2,040	1,800	1,760	1,620	1,550	1,550
16	1,720	1,720	2,300	2,170	2,260	2,220	2,080	1,840	1,720	1,620	1,550	1,580
17	1,720	1,720	2,150	2,120	2,220	2,170	2,080	1,880	1,720	1,660	1,550	1,620
18	1,720	1,720	1,900	2,040	2,220	2,220	2,040	1,880	1,720	1,690	1,620	1,660
19	1,720	1,690	1,900	2,080	2,550	2,170	2,000	1,840	1,660	1,660	1,580	1,620
20	1,690	1,720	2,150	2,170	3,090	2,120	1,960	1,880	1,660	1,580	1,580	1,580
21	1,690	1,720	2,200	2,120	3,090	2,080	1,880	1,880	1,660	1,580	1,550	1,550
22	1,660	1,720	2,100	2,080	2,980	2,040	1,840	1,800	1,620	1,620	1,520	1,580
23	1,660	1,720	2,000	2,040	2,980	1,960	1,920	1,760	1,690	1,620	1,520	1,620
24	1,660	1,720	2,000	2,040	2,760	2,000	2,000	1,720	1,660	1,620	1,580	1,660
25	1,660	1,720	2,000	2,170	2,760	2,040	2,000	1,690	1,660	1,620	1,580	1,620
26	1,690	1,690	2,000	2,170	3,090	2,120	1,960	1,720	1,690	1,660	1,580	1,620
27	1,660	1,690	1,950	2,170	3,830	2,260	1,960	1,800	1,720	1,620	1,550	1,580
28	1,660	1,720	1,950	2,120	3,700	2,980	1,720	1,920	1,720	1,580	1,550	1,580
29	1,880	1,720	2,450	2,080		2,980	1,760	2,000	1,660	1,800	1,580	1,580
30	2,300	1,720	3,090	2,080		2,760	2,120	1,960	1,660	1,620	1,580	1,580
31	2,350		3,330	2,120		2,700		1,960		1,580	1,550	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,350	1,550	1,720	106,000
November	2,000	1,660	1,730	103,000
December	3,330	1,690	2,090	129,000
January	4,100	2,040	2,380	146,000
February	3,830	1,800	2,530	141,000
March	3,040	1,960	2,400	148,000
April	2,550	1,720	2,070	123,000
May	2,220	1,690	1,900	117,000
June	1,960	1,620	1,750	104,000
July	1,800	1,580	1,640	101,000
August	1,620	1,520	1,560	95,900
September	1,660	1,480	1,580	94,000
The year	4,100	1,480	1,940	1,410,000

Pit River near Ydalpom, Calif.

Location.- Water-stage recorder in NW¼ sec. 32, T. 34 N., R. 3 W., at Silverthorne Ferry, 1½ miles southwest of Ydalpom. Squaw Creek enters half a mile above and McCloud River 4 miles below station. Altitude, about 735 feet.

Drainage area.- 5,350 square miles (not including drainage area of Goose Lake).

Records available.- November 1910 to September 1934.

Average discharge.- 23 years (1911-34), 3,830 second-feet.

Extremes.- Maximum discharge during year, 12,500 second-feet Jan. 2 (gage height, 10.45 feet); minimum, 1,640 second-feet probably in August.
1910-34: Maximum discharge, about 47,000 second-feet Dec. 31, 1913 (gage height, about 20.7 feet, present datum); minimum, 1,000 second-feet July 10, 1925, regulated.

Remarks.- Records excellent except those for periods July 18 to Aug. 2, Aug. 19 to Sept. 23, which were estimated. Storage, power plants, and many diversions above station; daily fluctuations smoothed out by automatic regulator at Pit No. 4 Dam.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,790	2,460	1,940	10,100	2,460	5,390	3,910	3,430	2,300	1,840	1,750	1,750
2	1,690	2,140	1,890	10,300	2,300	4,470	3,590	2,910	2,240	1,890	1,750	1,800
3	1,740	1,990	2,040	8,340	2,190	4,390	3,360	2,710	2,140	1,890	1,740	1,800
4	1,740	1,940	2,040	6,080	2,190	4,230	3,130	2,580	2,090	1,890	1,740	1,850
5	1,840	1,940	2,040	4,710	2,240	4,070	3,060	2,460	2,140	1,890	1,740	1,800
6	1,840	1,890	2,090	4,070	2,350	3,910	2,980	2,460	2,190	1,840	1,740	1,800
7	1,840	1,890	2,140	3,590	3,100	3,590	2,980	2,350	2,190	1,790	1,740	1,750
8	1,790	1,940	2,090	3,280	5,840	3,430	2,840	2,460	2,140	1,790	1,740	1,750
9	1,840	1,990	2,090	2,980	4,550	3,280	2,780	2,400	2,140	1,840	1,740	1,750
10	1,840	1,990	2,040	2,910	3,910	3,130	2,710	2,350	2,140	1,840	1,740	1,700
11	1,840	1,990	1,990	2,840	3,510	2,980	2,710	2,300	2,090	1,840	1,690	1,750
12	1,840	1,940	3,590	2,840	3,280	2,840	2,580	2,240	2,040	1,840	1,740	1,750
13	1,840	1,940	4,710	2,780	3,130	2,840	2,520	2,240	2,040	1,790	1,740	1,750
14	1,790	1,940	4,150	2,710	3,060	2,840	2,460	2,190	2,040	1,790	1,690	1,700
15	1,790	1,940	4,230	2,640	2,980	2,840	2,460	2,140	2,040	1,640	1,740	1,700
16	1,790	1,940	3,130	2,710	3,280	2,840	2,520	2,140	1,990	1,790	1,740	1,750
17	1,840	1,940	2,640	2,640	3,200	2,710	2,520	2,240	1,990	1,840	1,740	1,800
18	1,890	1,940	2,350	2,520	3,130	2,780	2,460	2,240	1,990	1,800	1,790	1,850
19	1,890	1,940	2,190	2,520	4,150	2,710	2,400	2,190	1,890	1,800	1,800	1,800
20	1,890	1,940	2,460	2,710	6,080	2,580	2,400	2,190	1,890	1,750	1,800	1,800
21	1,890	1,940	2,580	2,580	5,390	2,580	2,300	2,190	1,890	1,750	1,750	1,750
22	1,840	1,940	2,460	2,580	4,880	2,520	2,300	2,140	1,840	1,800	1,700	1,800
23	1,840	1,940	2,400	2,520	4,710	2,400	2,400	2,040	1,890	1,750	1,750	1,850
24	1,840	1,940	2,350	2,520	4,310	2,400	2,780	2,040	1,890	1,750	1,800	1,840
25	1,840	1,940	2,300	2,580	4,150	2,520	2,580	2,040	1,840	1,800	1,800	1,790
26	1,890	1,940	2,350	2,640	5,390	2,580	2,460	2,040	1,940	1,850	1,750	1,790
27	1,840	1,890	2,300	2,580	7,940	2,840	2,400	2,140	1,940	1,750	1,750	1,740
28	1,840	1,890	2,300	2,580	6,800	5,560	2,240	2,240	1,940	1,750	1,750	1,740
29	2,140	1,940	4,620	2,460		6,260	2,140	2,300	1,890	1,750	1,750	1,790
30	3,510	1,940	7,740	2,460		4,710	2,520	2,300	1,840	1,750	1,750	1,740
31	3,200		6,440	2,460		4,310		2,300		1,750	1,800	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,510	1,690	1,940	119,000
November	2,460	1,890	1,960	117,000
December	7,740	1,890	2,890	178,000
January	10,300	2,460	3,590	221,000
February	7,940	2,190	3,950	219,000
March	6,260	2,400	3,440	212,000
April	3,910	2,140	2,680	159,000
May	3,430	2,040	2,320	143,000
June	2,300	1,840	2,020	120,000
July	1,890	1,750	1,810	111,000
August	1,800	1,690	1,750	108,000
September	1,850	1,700	1,770	105,000
The year	10,300	1,690	2,500	1,810,000

South Fork of Pit River near Likely, Calif.

Location.- Water-stage recorder in SE¼ sec. 12, T. 39 N., R. 13 E., below West Valley Creek and 4 miles east of Likely. Altitude, about 4,580 feet.

Drainage area.- 218 square miles.

Records available.- October 1928 to September 1934.

Extremes.- Maximum discharge during year, 388 second-feet June 6 (gage height, 4.00 feet); minimum, 7.5 second-feet Aug. 17 and 24.
1928-34: Maximum discharge, 1,060 second-feet Apr. 27, 1932 (gage height, 5.55 feet); minimum, 2.7 second-feet Aug. 4, 1931.

Remarks.- Records good except those for Nov. 28 to Dec. 3, Dec. 31 to Jan. 22, June 25 to July 2, July 18-20, 22, which were estimated. Water diverted above station for irrigation in Jess and West Valleys.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	33	29		34	32	94	46	52	13	10	11
2	16	32	29		33	34	84	50	36	12	9.5	10
3	16	34	30		33	34	76	52	29	11	10	9.5
4	16	32	32		34	35	70	43	26	9.5	11	9.5
5	16	30	34		35	38	67	43	34	10	10	10
6	16	31	32		35	39	65	39	153	10	10	10
7	16	32	33		34	36	60	35	151	9.5	10	10
8	16	31	29		37	36	55	39	67	12	10	10
9	18	31	30		34	36	55	39	48	12	10	10
10	16	31	30		31	36	51	36	39	12	10	10
11	16	31	30		33	37	52	29	34	12	10	10
12	17	30	34	35	34	37	57	28	31	10	11	10
13	18	29	39		32	39	57	31	36	11	11	11
14	18	30	33		33	39	57	30	43	11	10	12
15	18	31	30		33	39	54	27	34	11	9	11
16	18	31	37		34	40	52	24	30	9	10	11
17	18	29	45		33	39	51	24	28	9	9	11
18	21	29	54		34	39	50	27	28	9	9	11
19	22	29	39		34	40	48	26	26	9	9.5	11
20	21	30	35		39	40	43	25	24	10	10	9.5
21	21	29	33		33	36	43	26	21	10	10	9
22	21	29	31		36	37	42	25	20	11	10	8.5
23	21	29	31	40	36	41	48	25	19	12	9	10
24	22	29	31	36	34	43	50	24	16	12	8	13
25	23	29	30	34	33	60	56	26		11	8.5	15
26	23	29	30	36	33	61	47	28		11	9.5	15
27	24	28	30	34	34	64	43	25	15	11	10	12
28	24	28	30	34	34	84	42	23		10	9	13
29	26	28	30	34		127	37	28		10	12	14
30	41	28	33	33		101	35	58		11	12	11
31	39		35	31		107		40		11	12	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	41	16	20.5	1,260
November	34	28	30.1	1,790
December	54	29	33.2	2,040
January			34.9	2,150
February	39	31	34.0	1,890
March	127	32	48.6	2,990
April	94	35	54.7	3,250
May	58	23	32.9	2,020
June	153		37.2	2,210
July	13	9	10.7	658
August	12	8	9.97	613
September	15	8.5	10.9	649
The year	153	8	29.7	21,500

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Hat Creek near Hat Creek, Calif.

Location.- Water-stage recorder in SE¼ sec. 28, T. 33 N., R. 5 E., 5 miles below Big Springs and 11 miles southeast of Hat Creek. Altitude, about 4,500 feet.

Records available.- July 1926 to September 1934.

Extremes.- Maximum discharge during year, 269 second-feet Mar. 29 (gage height, 3.47 feet); minimum, 67 second-feet Sept. 7.
1926-34: Maximum discharge, 419 second-feet Mar. 26, 1928 (gage height, 4.00 feet); minimum, 67 second-feet Sept. 7, 1934.

Remarks.- Records good. Discharge estimated Jan. 18-21. Small irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	76	80	73	80	78	79	112	105	92	74	74	69
2	76	81	73	79	78	80	107	103	91	74	74	69
3	76	81	75	79	78	80	101	101	90	73	75	69
4	76	78	74	79	78	80	100	96	89	72	74	68
5	76	77	74	78	80	81	96	101	91	71	75	68
6	76	76	75	77	81	81	94	103	92	71	75	68
7	76	76	76	78	81	78	97	101	90	72	75	68
8	75	77	75	78	82	78	97	100	89	72	74	71
9	73	77	76	78	78	80	97	95	88	73	71	73
10	73	76	76	78	78	81	99	96	83	76	70	73
11	74	76	77	77	79	80	100	107	78	78	70	73
12	74	74	79	78	79	80	101	109	82	78	70	74
13	74	75	80	78	79	81	107	107	94	78	69	74
14	74	75	75	80	79	82	109	104	82	77	68	74
15	74	75	75	78	79	83	109	103	79	77	68	74
16	75	75	74	78	79	84	109	101	77	76	68	73
17	76	74	74	78	80	83	104	100	78	76	68	73
18	78	74	74	78	80	82	104	97	77	76	68	70
19	78	74	74	78	81	81	108	96	77	76	71	69
20	78	74	75	79	80	83	107	95	80	73	73	69
21	78	74	74	79	74	81	104	89	82	73	73	69
22	78	74	74	80	71	81	114	85	81	74	73	69
23	78	74	74	81	70	82	138	83	81	73	73	71
24	77	74	74	78	69	85	117	83	81	72	73	71
25	76	74	75	78	68	92	104	83	81	70	73	71
26	77	74	76	78	68	90	96	84	82	70	73	72
27	78	74	78	78	68	99	97	84	80	70	73	72
28	78	73	78	78	78	186	96	84	80	70	73	73
29	83	73	82	78		201	99	85	79	70	71	73
30	103	73	80	78		147	104	86	75	73	69	73
31	85		80	78		123		94		74	69	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	103	73	77.4	4,760
November	81	73	75.4	4,490
December	82	73	75.8	4,660
January	81	77	78.4	4,820
February	82	68	76.9	4,270
March	201	78	93.0	5,720
April	138	94	104	6,190
May	109	83	95.5	5,870
June	94	75	83.4	4,960
July	78	70	73.6	4,530
August	75	68	71.7	4,410
September	74	68	71.1	4,230
The year	201	68	81.4	58,900

McCloud River near McCloud, Calif.

Location.- Water-stage recorder in NE¼ sec. 34, T. 39 N., R. 2 W., 6 miles southeast of McCloud. Altitude, about 2,750 feet.

Drainage area.- 388 square miles.

Records available.- April 1931 to September 1934.

Extremes.- Maximum discharge during year, 1,080 second-feet Mar. 29 (gage height, 1.67 feet); minimum, 541 second-feet July 27.
1931-34: Maximum discharge, that of Mar. 29, 1934; minimum, 524 second-feet Nov. 23-24, 1932.

Remarks.- Records good. Two small diversions above station; total capacity, about 10 second-feet.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	564	575	547	794	593	820	807	703	593	564	569	575
2	564	569	552	814	593	794	774	710	593	569	575	575
3	569	564	552	814	593	781	755	684	593	569	586	575
4	558	564	547	774	599	762	736	678	586	569	586	575
5	558	564	547	710	599	762	723	678	586	564	586	575
6	558	558	552	666	623	755	710	672	593	564	586	569
7	558	558	552	648	723	749	703	666	586	564	586	569
8	564	558	552	629	1,010	729	697	660	586	564	586	569
9	564	564	552	617	927	723	691	648	586	569	599	569
10	564	564	552	605	800	723	684	641	586	569	605	569
11	558	564	564	599	755	716	678	635	586	569	611	569
12	558	564	629	593	723	710	672	635	581	564	611	569
13	564	558	691	586	697	710	672	629	581	564	611	569
14	558	552	629	593	678	710	666	623	575	564	617	569
15	558	552	593	586	678	710	660	623	575	558	617	569
16	558	552	569	586	691	710	660	617	575	558	617	564
17	558	552	569	581	691	703	654	617	575	558	617	564
18	558	552	564	581	678	697	648	617	575	555	623	564
19	558	552	564	581	729	697	641	611	575	558	623	564
20	558	552	564	581	840	697	635	611	581	552	629	564
21	564	552	564	581	807	697	635	611	581	552	629	564
22	564	552	564	581	794	703	641	605	575	552	629	558
23	564	552	564	586	794	716	648	605	575	552	605	558
24	564	552	564	593	762	710	666	599	569	552	581	558
25	564	552	564	593	768	710	666	599	569	552	575	558
26	564	552	564	586	820	710	641	605	569	547	575	558
27	564	552	564	586	833	729	635	599	564	541	569	558
28	564	552	569	593	860	947	629	599	564	558	575	558
29	586	547	599	593		1,040	629	599	564	569	575	558
30	599	547	617	593		920	654	593	564	569	575	558
31	593		641	593		853		593		569	575	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	599	558	564	34,700
November	575	547	557	33,100
December	691	547	575	35,400
January	814	581	626	38,500
February	1,010	593	738	41,000
March	1,040	697	755	46,400
April	807	629	677	40,300
May	710	593	631	38,800
June	593	564	579	34,500
July	569	541	561	34,500
August	629	569	597	36,700
September	575	558	566	33,700
The year	1,040	541	618	448,000

McCloud River at Baird, Calif.

Location.- Water-stage recorder in SE¼ sec. 22, T. 34 N., R. 4 W., half a mile below Baird post office and 1½ miles above junction with Pit River. Altitude, about 700 feet.

Drainage area.- 668 square miles.

Records available.- December 1910 to September 1934.

Average discharge.- 23 years (1911-34), 1,650 second-feet.

Extremes.- Maximum discharge during year, 12,200 second-feet Jan. 1 (gage height, 12.00 feet); minimum, 660 second-feet Sept. 7-13, 15-20.
1910-34: Maximum discharge, 27,600 second-feet Feb. 2, 1917 (gage height, 14.3 feet at staff gage located 1 mile upstream); minimum, 650 second-feet for several days August to October 1931.

Remarks.- Records excellent. No large diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	690	820	690	9,420	1,060	2,890	1,910	1,840	920	768	705	675
2	690	750	705	7,750	1,060	2,530	1,770	1,600	920	768	705	675
3	690	735	750	5,670	1,060	2,370	1,630	1,480	900	768	705	675
4	675	720	720	4,160	1,030	2,130	1,570	1,420	900	768	705	675
5	675	720	705	3,070	1,030	2,050	1,510	1,340	900	768	705	675
6	675	705	705	2,450	1,100	1,910	1,450	1,310	940	750	690	675
7	675	705	750	2,130	1,770	1,840	1,420	1,260	920	750	690	660
8	675	705	720	1,840	3,590	1,740	1,400	1,260	880	750	690	660
9	675	705	705	1,700	2,800	1,660	1,370	1,200	880	750	690	660
10	675	705	705	1,570	2,290	1,500	1,340	1,180	860	750	690	660
11	675	705	750	1,480	1,980	1,570	1,280	1,130	860	750	690	660
12	675	705	2,300	1,400	1,770	1,540	1,280	1,100	860	750	690	660
13	675	705	3,610	1,340	1,630	1,510	1,260	1,100	860	735	690	660
14	675	705	1,980	1,400	1,540	1,450	1,230	1,080	840	735	690	675
15	675	705	1,660	1,340	1,540	1,420	1,230	1,060	840	735	690	660
16	675	705	1,370	1,280	1,770	1,420	1,180	1,030	820	735	690	660
17	675	690	1,180	1,230	1,740	1,400	1,160	1,030	820	735	675	660
18	675	690	1,080	1,200	1,740	1,370	1,160	1,010	820	735	675	660
19	675	690	1,060	1,200	2,130	1,340	1,130	985	820	735	675	660
20	675	690	1,030	1,200	3,170	1,310	1,100	985	820	720	675	660
21	675	690	1,060	1,160	2,800	1,310	1,100	962	820	720	675	675
22	675	690	1,030	1,160	2,530	1,310	1,160	962	802	720	675	675
23	675	690	1,030	1,160	2,620	1,310	1,200	940	802	720	675	675
24	675	690	1,010	1,180	2,450	1,280	1,370	940	802	720	675	675
25	675	690	985	1,160	2,370	1,280	1,280	962	785	720	675	675
26	675	690	962	1,130	3,700	1,260	1,180	962	802	720	675	675
27	675	690	940	1,100	3,810	1,400	1,130	985	802	705	675	675
28	690	690	940	1,100	3,270	2,370	1,100	940	802	705	675	675
29	900	690	1,810	1,100		2,800	1,080	940	785	705	690	675
30	1,100	690	4,400	1,080		2,370	1,310	940	768	705	675	675
31	1,010		3,810	1,080		2,050		940		705	675	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,100	675	709	43,600
November	820	690	705	42,000
December	4,400	690	1,330	81,800
January	9,420	1,080	2,100	129,000
February	3,810	1,030	2,120	118,000
March	2,890	1,260	1,740	107,000
April	1,910	1,080	1,310	78,000
May	1,840	940	1,120	68,900
June	940	768	845	50,300
July	768	705	735	45,200
August	705	675	686	42,200
September	675	660	668	39,700
The year	9,420	660	1,170	846,000

Mill Creek near Los Molinos, Calif.

Location.- Water-stage recorder in sec. 6, T. 25 N., R. 1 W., 5 miles northeast of Los Molinos. Altitude, about 420 feet.

Drainage area.- 173 square miles.

Records available.- September 1909 to September 1913 (fragmentary); October 1928 to September 1934.

Extremes.- Maximum discharge during year, 2,630 second-feet Dec. 29 (gage height, 7.16 feet); minimum, 61 second-feet Sept. 8, 9.
1928-34: Maximum discharge, 6,000 second-feet Dec. 15, 1929 (gage height, 10.05 feet); minimum, 49 second-feet Dec. 13, 1932.

Remarks.- Records good except those for May 12 to July 23, which were estimated. No large diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	116	75	1,300	140	299	386	251	125	84	68	64
2	70	101	80	715	140	272	333	235	120	84	68	64
3	70	96	109	485	138	260	289	224	120	82	68	64
4	69	90	104	372	136	242	270	217	115	82	68	64
5	69	85	88	280	152	253	265	217	120	82	67	63
6	68	84	85	228	209	248	270	213	125	80	67	63
7	68	82	87	195	289	228	272	211	145	80	67	63
8	69	82	90	172	414	209	277	217	120	80	66	63
9	69	81	85	158	325	206	270	200	110	78	66	62
10	69	81	84	148	256	209	270	191	110	78	66	63
11	69	80	91	138	220	204	275	189	110	76	67	64
12	69	80	517	133	195	206	277	190	106	76	66	66
13	70	78	671	129	180	211	272	185	200	74	67	66
14	70	76	246	127	168	215	277	170	150	72	67	66
15	70	78	202	158	180	217	277	160	125	72	67	67
16	72	78	156	140	333	222	272	155	110	72	67	67
17	72	78	127	133	272	211	248	150	100	72	67	67
18	72	76	120	129	237	204	237	150	96	72	67	67
19	72	77	117	131	570	213	235	150	94	70	67	67
20	72	77	120	158	592	204	237	150	94	70	67	66
21	72	77	118	144	428	204	233	140	105	70	67	66
22	72	77	115	140	470	202	239	125	96	70	66	66
23	72	77	113	148	500	204	282	120	90	70	66	72
24	72	77	111	182	414	206	258	120	90	72	66	87
25	72	77	111	156	346	246	248	125	90	70	66	81
26	72	77	109	154	456	239	217	140	96	70	66	75
27	72	77	109	154	400	244	202	145	105	69	67	74
28	73	77	111	150	346	930	195	130	96	68	69	73
29	87	77	1,730	148		1,030	189	125	86	67	68	72
30	246	75	1,570	146		610	200	120	84	68	67	70
31	169		592	142		456		125		68	66	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	246	68	80.6	4,960
November	118	75	81.7	4,860
December	1,730	75	259	15,900
January	1,300	127	229	14,100
February	592	136	304	16,900
March	1,030	202	294	18,100
April	386	189	259	15,400
May	251	120	169	10,400
June	200	84	111	6,600
July	84	67	74.1	4,560
August	69	66	66.9	4,110
September	87	62	67.7	4,030
The year	1,730	62	166	120,000

Elder Creek near Henleyville, Calif.

Location.- Water-stage recorder in SE¼ sec. 10, T. 25 N., R. 4 W., at highway bridge on Paskenta-Red Bluff road 6 miles northeast of Henleyville. Altitude, about 310 feet.

Records available.- October 1930 to September 1934.

Extremes.- Maximum discharge during year, about 6,300 second-feet Jan. 1 (gage height, 7.28 feet); no flow for several months.
1930-34: Maximum discharge, about 6,300 second-feet Jan. 1, 1934 (gage height, 7.26 feet); no flow several months each year.

Remarks.- Records good except those for high stages and estimated periods, which are fair. No large diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	*1,200	17	170	62	39	*10			
2			0	*320	17	141	53	37	*8			
3			0		16	125	47	34	7.5			
4			0		15	111	43	32	7			
5			0		15	101	39	30	e			
6			0		17	88	37	26	10			
7			0	*100	67	77	34	25	13			
8			0		183	70	32	25	9.5			
9			0		81	64	31	24	6.5			
10			0		59	60	30	21	5.5			
11			0		46	57	28	17	4.4			
12				27	41	53	26	15	3.8			
13					35	51	25	14	3.5			
14					33	49	25	14	4.1			
15			*30		285	47	24	14	3.2			
16					318	45	22	13	2.3			
17					140	41	20	*13	*1.7			
18					97	39	19	*12	*1.3			
19				*90	119	39	19	*11	*1.0			
20					101	37	17	*10	*.8			
21			15		81	37	16	*10	*.5			
22					142	36	20	*9	*.2			
23					536	34	190	*8	0			
24					332	34	141	*8	0			
25			*20		198	34	88	*10	0			
26				22	624	32	64	*30	0			
27				20	311	34	53	*20	0			
28				20	215	88	45	*18	0			
29				19		141	41	*15	0			
30			*250	18		92	37	*12	0			
31				18		72		*12				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December		0	37.9	2,330
January	1,200		120	7,380
February	824	15	155	8,610
March	170	32	67.7	4,160
April	190	16	44.3	2,640
May	39	8	18.6	1,140
June	13	0	3.73	222
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	1,200	0	36.6	26,500

*Estimated.

Note.- No flow during months left blank.

Thomas Creek at Paskenta, Calif.

Location.- Water-stage recorder in SE¼ sec. 5, T. 23 N., R. 6 W., half a mile upstream from Paskenta.

Drainage area.- 188 square miles.

Records available.- October 1920 to September 1934.

Average discharge.- 13 years (1921-34), 204 second-feet.

Extremes.- Maximum discharge during year, 1,970 second-feet Mar. 28 (gage height, 6.18 feet); no flow during part of year.
1920-34: Maximum discharge, about 16,600 second-feet Mar. 26, 1928 (gage height, 10.5 feet at old location); no flow for short periods in 1921, 1922, 1924, 1926, 1929-34.

Remarks.- Records good except those for Oct. 1-22, May 22 to June 10, July 7-23, which were estimated. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	29	5	1,110	145	319	338	132	35	11	0.1	
2	.5	26	6.5	660	139	316	297	152	35	10	.1	
3	.5	30	14	632	129	333	242	151	32	8.5	.1	
4	.5	26	14	425	123	308	211	138	30	8	0	
5	.4	20	12	303	118	322	194	124	35	7.5	0	
6	.4	15	10	244	132	280	182	116	40	7	0	
7	.4	13	11	204	195	246	174	108	40	7	0	
8	.4	11	44	180	439	222	166	103	35	6.5	0	
9	.4	10	28	161	298	214	156	95	30	6	0	
10	.4	9	22	147	239	208	149	86	28	6	0	
11	.3	8.5	25	131	208	200	145	81	25	5.5	0	
12	.4	7.5	252	118	184	198	140	79	23	5	0	
13	.4	7	497	118	166	190	136	74	32	4.8	0	
14	.4	7	157	160	154	186	133	71	27	4.5	0	
15	.4	7	115	360	310	186	132	66	22	4.2	0	
16	.4	7	79	232	290	184	125	64	21	4.0	0	
17	.4	7	58	192	228	172	116	59	19	3.7	0	
18	.4	6.5	54	176	212	165	106	54	18	3.4	0	
19	.4	6.5	55	182	293	163	102	51	17	3.1	0	
20	.4	6	123	253	348	165	98	48	16	2.8	0	
21	.4	6	103	204	283	161	99	46	16	2.5	0	
22	.5	6	103	222	371	170	127	45	18	2.2	0	
23	.6	6	131	228	544	163	227	40	14	1.8	0	
24	.6	6	152	218	339	154	216	35	13	1.5	0	
25	.6	6	147	186	280	159	170	40	13	1.4	0	
26	.6	5.5	148	172	527	147	145	45	14	1.2	0	
27	.6	5.5	163	184	425	242	124	50	16	.8	0	
28	.6	5	139	180	369	1,330	112	45	14	.6	0	
29	.9	5	504	172		1,180	103	45	13	.4	0	
30	3.7	5	680	165		608	102	40	12	.3	0	
31	50		496	152		430		40		.2	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	50	0.2	2.16	133
November	30	5	10.5	625
December	680	5	140	8,610
January	1,110	118	260	16,000
February	544	118	267	14,800
March	1,330	147	301	18,500
April	338	98	159	9,460
May	152	35	74.9	4,610
June	40	12	23.4	1,390
July	11	.2	4.24	261
August	.1	0	.01	.6
September	0	0	0	0
The year	1,330	0	103	74,400

Note.- No flow during September.

Deer Creek near Vina, Calif.

Location.- Water-stage recorder in NE¼ sec. 23, T. 25 N., R. 1 W., three-quarters of a mile above concrete diversion dam and 9 miles northeast of Vina. Altitude, about 500 feet.

Drainage area.- 200 square miles.

Records available.- October 1911 to December 1915, March 1920 to September 1934.

Average discharge.- 17 years (1912-15, 1920-34), 263 second-feet.

Extremes.- Maximum discharge during year, 3,640 second-feet Dec. 30 (gage height, 6.24 feet); minimum, 52 second-feet Sept. 8, 9, 15.
1911-15, 1920-34: Maximum discharge, 12,200 second-feet Mar. 26, 1928 (gage height, 15.0 feet at location three-quarters of a mile downstream); minimum, 43 second-feet Dec. 13, 1932.

Remarks.- Records good. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	120	71	2,020	134	397	368	172	84	66	55	54
2	64	96	75	980	132	354	322	180	82	66	55	54
3	64	85	135	620	128	322	283	149	81	65	56	54
4	62	79	107	454	124	292	255	138	79	65	57	54
5	62	75	86	347	136	283	237	126	82	65	57	54
6	62	73	80	283	204	273	216	116	87	65	56	53
7	62	72	79	240	286	249	202	112	92	65	56	53
8	62	72	80	210	401	228	190	118	88	65	56	53
9	62	72	79	185	326	216	180	116	79	65	55	53
10	62	72	78	170	261	207	172	105	76	65	54	54
11	62	71	85	156	225	199	163	100	75	64	54	55
12	64	71	768	145	202	196	156	96	74	64	54	55
13	64	70	987	138	182	193	151	95	107	64	54	54
14	65	71	346	136	172	190	149	92	90	62	54	54
15	65	71	254	160	202	188	145	90	81	64	54	53
16	64	72	191	154	365	185	138	88	75	64	54	53
17	64	71	152	143	299	180	132	88	71	64	53	53
18	64	71	137	134	273	172	128	87	69	64	53	54
19	64	71	128	136	582	172	124	85	68	64	53	54
20	64	71	133	151	592	168	120	84	68	62	53	54
21	65	71	130	140	478	165	118	81	74	62	53	55
22	65	71	124	134	553	163	122	79	71	61	54	56
23	65	71	120	136	602	163	140	79	67	61	54	58
24	65	71	115	168	503	163	151	79	67	62	54	74
25	65	71	111	154	431	175	149	84	67	61	55	71
26	65	71	109	149	700	170	134	90	71	61	55	64
27	65	71	106	154	549	168	118	92	74	59	55	60
28	66	72	106	154	466	423	112	87	69	57	57	59
29	75	72	2,080	149		735	109	85	67	55	57	59
30	180	71	2,440	145		503	114	84	66	56	55	58
31	216		870	140		462		85		55	55	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	216	62	72.9	4,480
November	120	70	74.6	4,440
December	2,440	71	334	20,500
January	2,020	134	277	17,000
February	700	124	340	18,900
March	735	163	257	15,800
April	368	109	170	10,100
May	180	79	102	6,270
June	107	66	76.7	4,560
July	66	55	62.5	3,840
August	57	53	54.7	3,360
September	74	53	56.3	3,350
The year	2,440	53	156	113,000

Chico Creek near Chico, Calif.

Location.- Water-stage recorder in Arroyo Chico grant, 1 mile above golf clubhouse in Municipal Park and 6 miles northeast of Chico, Butte County. Altitude, about 400 feet.

Drainage area.- 68.3 square miles.

Records available.- May 1930 to September 1934.

Extremes.- Maximum discharge during year, 2,210 second-feet Dec. 30 (gage height, 8.33 feet); minimum, 15 second-feet July 26-30.
1930-34: Maximum discharge, 3,110 second-feet Dec. 24, 1931 (gage height, 9.99 feet); minimum, 10 second-feet Dec. 11, 1932.

Remarks.- Records good. No large diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	40	22	1,280	36	265	88	55	25	18	16	18
2	17	29	23	753	35	213	79	50	24	18	17	18
3	17	25	58	383	34	177	72	44	24	17	17	18
4	17	23	52	246	34	148	65	40	23	17	17	18
5	17	22	34	177	36	128	61	37	25	17	17	18
6	16	21	30	136	65	114	56	35	26	17	17	18
7	16	21	28	107	162	100	53	33	29	17	17	18
8	16	21	27	89	383	89	51	34	29	17	17	18
9	16	20	26	79	243	83	49	32	25	17	17	18
10	16	20	25	71	170	76	47	32	24	17	17	20
11	17	20	32	64	131	70	45	30	26	17	17	19
12	17	20	257	58	107	66	43	29	24	17	17	19
13	17	20	477	54	91	61	42	29	26	17	17	20
14	17	20	210	53	82	58	41	28	28	17	17	20
15	17	20	155	54	119	55	40	28	25	17	17	19
16	17	20	115	49	296	53	39	27	23	17	17	19
17	17	20	78	46	246	52	37	26	22	17	17	19
18	17	20	61	45	200	50	36	26	21	17	17	19
19	17	20	54	45	277	48	34	25	21	17	17	19
20	17	20	53	49	370	47	33	25	21	17	17	19
21	17	20	53	46	298	46	32	24	22	17	17	20
22	17	20	51	44	320	45	34	24	22	17	17	20
23	17	20	47	45	396	44	42	23	20	17	17	22
24	17	20	43	48	332	45	42	23	19	17	17	25
25	17	20	40	45	277	44	38	24	19	16	18	25
26	17	20	37	44	518	43	35	26	22	15	18	23
27	17	21	35	42	462	44	34	27	22	15	18	22
28	18	22	35	40	344	70	33	25	20	15	19	22
29	28	22	712	39		115	32	24	19	15	20	22
30	66	22	1,560	38		86	35	24	18	15	19	22
31	83		560	37		98		24		16	18	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	83	16	20.9	1,290
November	40	20	21.6	1,290
December	1,560	22	161	9,900
January	1,280	37	139	8,550
February	518	34	217	12,100
March	265	43	84.9	5,220
April	88	32	45.6	2,710
May	55	23	30.1	1,850
June	29	18	23.2	1,380
July	18	15	16.7	1,030
August	20	16	17.3	1,060
September	25	18	19.9	1,180
The year	1,560	15	65.6	47,600

Stony Creek near Stonyford, Calif.

Location.- Water-stage recorder in SE¼ sec. 35, T. 18 N., R. 7 W., at East Park feed-canal diversion dam, 3 miles west of Stonyford.

Drainage area.- 97 square miles.

Records available.- April 1913 to December 1914, November 1918 to September 1934.

Average discharge.- 15 years (1913-14, 1919-20, 1921-34), 137 second-feet.

Remarks.- East Park feed canal diverts at dam and empties into East Park Reservoir. This flow is included in discharge records. Daily-discharge record furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	50	27	1,520	87	319	162	83	48	31	23	21
2	24	45	29	760	86	289	158	90	48	31	23	21
3	24	40	72	560	80	239	144	87	48	31	23	21
4	24	38	68	395	80	227	140	83	48	31	23	21
5	23	37	64	305	80	212	131	79	60	31	23	21
6	23	35	55	250	100	192	122	79	60	31	23	21
7	23	33	46	210	210	169	113	75	57	31	23	21
8	23	31	40	172	223	169	110	75	54	31	23	21
9	23	30	32	156	157	168	110	71	48	31	23	21
10	23	29	29	140	136	157	106	60	42	31	23	21
11	23	29	29	129	128	141	102	63	42	31	23	21
12	23	29	540	121	109	138	98	67	42	31	23	21
13	23	28	450	117	107	123	94	63	42	31	26	21
14	23	27	250	113	102	129	90	60	42	31	26	21
15	23	27	200	152	306	127	90	60	42	31	26	21
16	23	27	150	139	320	129	90	60	42	31	26	21
17	23	27	95	131	254	120	90	60	42	31	26	16
18	23	27	91	125	248	101	87	60	36	31	26	16
19	23	27	145	122	469	123	83	60	36	31	26	18
20	23	27	184	135	404	125	79	57	39	31	26	21
21	23	27	136	125	304	125	79	57	42	31	21	21
22	23	27	134	115	341	139	75	48	39	31	21	21
23	23	27	122	119	501	122	98	48	36	31	23	21
24	23	27	118	119	486	122	105	48	33	31	21	23
25	23	27	114	114	465	122	90	48	33	31	21	23
26	23	27	110	106	717	116	90	48	33	31	21	21
27	23	27	107	104	509	288	87	50	33	31	21	21
28	23	27	95	103	445	408	83	50	33	28	21	21
29	30	27	1,080	97		264	79	54	33	28	21	21
30	40	27	1,220	96		282	83	50	31	26	21	21
31	60		755	91		235		48		26	21	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	80	23	25.7	1,580
November	50	27	30.4	1,810
December	1,220	27	212	13,000
January	1,520	91	224	13,800
February	717	80	266	14,800
March	408	101	181	11,100
April	162	75	102	6,070
May	90	48	62.6	3,850
June	60	31	42.1	2,510
July	31	26	30.5	1,880
August	26	21	23.1	1,420
September	23	16	20.7	1,230
The year	1,520	16	101	73,000

Stony Creek near Elk Creek, Calif.

Location.- Staff gage in NE¼ sec. 16, T. 20 N., R. 6 W., half a mile downstream from Stony Gorge Dam and 1½ miles south of Elk Creek.

Drainage area.- 301 square miles.

Records available.- May 1919 to September 1934.

Average discharge.- 15 years, 190 second-feet.

Extremes.- 1919-34: Maximum discharge, about 10,200 second-feet Jan. 31, 1921 (gage height, 7.80 feet at site 1 mile upstream); no flow part of July to October 1924.

Remarks.- Daily-discharge record furnished by U. S. Bureau of Reclamation. At times record is computed from gate opening and water elevation in Stony Gorge Reservoir. Water is stored in East Park Reservoir on Little Stony Creek, and since November 1928 in Stony Gorge Reservoir; released during irrigation season.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	100	20	1,600	25	444	272	89	45	10	370	4
2	9	50	30	1,800	24	249	178	85	41	9	363	4
3	8	40	45	750	23	222	270	81	38	8	367	4
4	11	35	40	600	21	152	154	77	35	7	380	4
5	7	35	35	360	18	139	168	75	41	7	380	4
6	7	32	35	340	16	89	154	75	47	7	380	4
7	9	30	35	200	25	98	134	75	53	7	380	3
8	12	30	35	185	125	59	128	69	48	7	380	2
9	12	28	30	155	100	124	120	64	44	7	380	3
10	9	28	30	125	80	154	117	58	42	6	380	4
11	10	28	28	115	50	137	98	55	41	6	113	4
12	10	26	65	105	40	54	92	52	40	6	9	4
13	11	24	560	80	25	49	83	49	39	290	8	100
14	12	22	530	70	30	30	43	47	36	370	8	370
15	10	21	280	130	90	48	38	46	33	370	8	370
16	9	21	210	100	205	49	74	46	31	370	8	370
17	8	20	160	75	235	41	45	45	27	370	6	370
18	7	20	130	65	190	57	73	45	24	370	4	370
19	9	20	110	60	175	49	63	46	21	370	3	370
20	8	20	160	80	410	76	68	47	17	365	3	370
21	10	20	235	75	265	50	87	47	17	359	2	370
22	10	20	160	70	220	67	94	47	17	368	2	370
23	10	20	125	60	260	38	180	47	17	376	1	370
24	9	20	110	60	910	56	148	45	16	374	1	370
25	9	20	95	55	545	67	118	45	15	372	1	370
26	9	20	90	50	885	69	84	45	14	370	1	263
27	9	20	85	48	870	93	102	44	13	370	1	11
28	9	20	80	45	550	163	69	43	12	370	1	10
29	11	20	240	40		422	48	43	11	370	4	10
30	25	20	2,300	35		389	53	45	10	370	4	9
31	75		1,250	30		296		47		370	4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	75	7	12.0	738
November	100	20	27.7	1,650
December	2,300	20	237	14,600
January	1,800	30	244	15,000
February	910	16	229	12,700
March	444	30	130	7,990
April	272	38	112	6,660
May	89	43	55.6	3,420
June	53	10	29.5	1,760
July	376	6	227	14,000
August	380	1	127	7,810
September	370	2	163	9,700
The year	2,300	1	133	96,000

Stony Creek near Orland, Calif.

Location.- Water-stage recorder in NW¼ sec. 7, T. 22 N., R. 4 W., at county road bridge near Simpson ranch, 10 miles northwest of Orland.

Drainage area.- 636 square miles.

Records available.- January 1920 to September 1934.

Average discharge.- 14 years, 319 second-feet.

Extremes.- Maximum mean daily discharge during year, 2,160 second-feet Jan. 1; minimum, 0.5 second-foot Nov. 8-22.

1920-34: Maximum discharge, 19,500 second-feet Jan. 30, 1921 (gage height, 10.3 feet); no flow Nov. 11, 1920, Aug. 24 to Sept. 30, 1924.

Remarks.- Water is stored in East Park Reservoir on Little Stony Creek, and since November 1928 in Stony Gorge Reservoir; released during irrigation season. Daily-discharge record furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, 1933-34

Day	Oct	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	180	3.0	31	2,160	65	365	425	185	188	276	250	238
2	178	2.0	24	730	62	325	390	185	180	274	233	238
3	172	1.0	18	430	58	265	340	171	218	286	228	238
4	169	1.0	13	300	54	230	307	161	238	288	272	228
5	167	1.0	10	200	50	215	277	193	247	266	276	218
6	165	1.0	10	170	55	190	257	236	228	260	279	212
7	174	.5	9	140	60	170	235	258	214	257	262	212
8	186	.5	9	125	100	153	215	282	200	247	228	212
9	180	.5	8	115	110	145	196	282	196	238	214	212
10	178	.5	7	100	95	135	190	275	209	228	238	209
11	174	.5	10	90	85	127	178	275	228	228	257	209
12	172	.5	13	85	75	125	185	282	262	228	242	212
13	167	.5	120	80	70	123	196	280	284	228	238	214
14	153	.5	150	75	65	121	245	285	284	233	233	214
15	142	.5	100	145	125	119	262	285	262	257	228	214
16	132	.5	75	120	215	117	264	285	284	279	214	218
17	66	.5	50	118	135	115	266	270	279	274	200	223
18	44	.5	40	117	100	113	280	236	279	266	214	218
19	23	.5	35	116	125	111	280	223	279	247	233	214
20	20	.5	32	115	200	109	280	220	279	238	233	209
21	18	.5	30	105	145	107	266	236	279	238	218	209
22	13	.5	30	95	175	112	257	234	279	238	209	212
23	9	1.0	28	85	710	117	200	242	284	238	214	216
24	8	24	28	85	685	122	185	275	294	238	223	218
25	7	34	25	85	410	125	105	278	294	228	223	218
26	7	34	25	86	1,210	130	82	245	294	225	247	214
27	6	34	30	83	510	193	67	236	294	214	254	196
28	6	33	42	80	415	278	117	232	294	214	257	184
29	5	32	450	77		620	155	218	284	214	262	172
30	4	31	1,500	73		595	175	216	276	225	257	168
31	3		600	68		530		213		250	247	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	186	3.0	94.5	5,810
November	34	.5	8.00	476
December	1,500	7	115	7,070
January	2,160	68	208	12,800
February	1,210	50	220	12,200
March	620	107	203	12,500
April	425	67	229	13,600
May	285	161	242	14,900
June	294	180	257	15,300
July	288	214	246	15,100
August	279	200	236	14,600
September	238	168	212	12,600
The year	2,160	.5	189	137,000

Little Stony Creek near Lodoga, Calif.

Location.- Staff gage at East Park Reservoir Dam, 4 miles above junction with Stony Creek and 3½ miles northwest of Lodoga, Colusa County. Also staff gage and weir at head of reservoir 3 miles above dam.

Drainage area.- 102 square miles.

Records available.- January 1908 to September 1934.

Average discharge.- 25 years (1908-10, 1911-34), 58.0 second-feet.

Extremes.- Maximum mean daily discharge during year, 1,270 second-feet Dec. 30, 1933; no flow several months.
1908-34: Maximum discharge, 7,060 second-feet Feb. 2, 1909 (gage height, 11.8 feet); no flow during parts of nearly every year.

Remarks.- Water is stored in East Park Reservoir. Daily-discharge record furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	485	26	150	42	15	2	1		
2			0	535	23	165	35	13	2	1		
3			0	200	21	129	34	11	2	1		
4			0	150	19	124	30	11	2	1		
5			0	95	18	112	27	11	2	1		
6			0	90	17	145	26	9	2	1		
7			0	85	30	89	26	8	6	1		
8			0	80	87	87	25	7	5	0		
9			0	75	50	49	25	7	4	0		
10			0	65	40	74	18	7	3	0		
11			0	50	35	62	24	6	2	0		
12			16	35	30	56	24	5	2	0		
13			45	20	24	52	23	5	2	0		
14			165	10	20	59	20	5	1	0		
15			40	50	47	56	22	5	1	0		
16			35	38	75	76	20	4	1	0		
17			30	30	80	42	16	3	1	0		
18			25	25	60	37	15	2	1	0		
19			20	20	115	43	14	2	1	0		
20			20	38	135	55	13	2	1	0		
21			20	37	125	55	12	2	1	0		
22			15	36	120	17	12	2	1	0		
23			15	35	110	45	12	2	1	0		
24			15	35	365	33	12	2	1	0		
25			15	35	180	12	11	2	1	0		
26			10	34	475	62	11	2	1	0		
27			10	33	360	39	10	2	1	0		
28			10	32	200	56	11	2	1	0		
29			275	31		50	12	2	1	0		
30			1,270	30		42	14	2	1	0		
31			270	29		45		2		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	1,270	0	74.9	4,610
January	535	10	82.0	5,040
February	475	17	103	5,720
March	165	12	68.3	4,200
April	42	10	19.9	1,180
May	15	2	5.16	317
June	6	1	1.77	105
July	1	0	.23	13.9
August	0	0	0	0
September	0	0	0	0
The year	1,270	0	29.2	21,200

Note.- No flow during months left blank.

Butte Creek near Chico, Calif.

Location.- Water-stage recorder in sec. 25, T. 22 N., R. 2 E., half a mile below junction with Little Butte Creek and 7½ miles east of Chico. Altitude, about 350 feet.
Drainage area.- 148 square miles.
Records available.- November 1930 to September 1934.
Extremes.- Maximum discharge during year, 3,120 second-feet Dec. 30 (gage height, 6.90 feet); minimum, 42 second-feet Oct. 25.
1930-34: Maximum discharge, 4,070 second-feet Dec. 24, 1931 (gage height, 7.75 feet); minimum discharge recorded, 36 second-feet some time in September 1931.
Remarks.- Records good. Butte Creek above this station receives much water from West Branch of Feather River via De Sabla and Centerville power plants. Pacific Gas & Electric Co. has furnished the following record of this flow for 1933-34:

Month	Mean discharge in second-feet	Run-off in acre-feet
October	24	1,480
November	16	952
December	28	1,720
January	52	3,200
February	55	3,050
March	56	3,440
April	18	1,070
May	31	1,910
June	36	2,140
July	22	1,350
August	20	1,230
September	22	1,310
The year	31.7	22,900

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	89	145	82	2,100	206	670	429	272	156	96	70	70
2	87	143	87	1,300	203	598	400	212	152	96	72	68
3	86	115	212	802	201	544	356	190	145	96	74	68
4	86	107	163	598	203	491	329	188	141	93	74	68
5	86	102	111	474	215	474	329	143	147	91	72	68
6	86	93	103	420	311	458	321	149	163	93	72	64
7	86	82	96	372	469	412	307	145	178	96	70	64
8	87	82	98	325	720	388	300	149	168	94	70	64
9	87	82	98	303	513	376	289	145	147	96	69	66
10	87	80	93	286	429	368	220	136	136	93	70	69
11	87	80	96	269	372	364	198	128	139	91	70	70
12	87	80	538	255	341	356	201	126	136	91	69	70
13	87	80	866	245	314	348	195	120	139	87	69	72
14	91	79	396	242	300	337	195	115	134	87	69	70
15	89	79	341	262	434	329	198	178	128	91	70	70
16	87	80	239	239	775	325	188	178	122	87	69	70
17	87	79	188	229	575	314	180	190	116	66	68	70
18	80	79	170	223	504	307	172	188	113	84	69	68
19	69	80	161	226	693	279	168	163	113	84	69	70
20	68	79	172	233	830	282	163	161	115	64	68	74
21	68	79	178	233	645	293	161	158	120	84	68	74
22	66	79	172	223	748	293	172	156	113	79	69	74
23	69	79	149	226	860	318	220	152	107	72	66	72
24	68	79	156	236	695	300	201	139	89	74	68	102
25	63	79	152	220	645	293	190	165	98	80	68	102
26	69	79	147	217	1,070	262	168	165	122	74	69	87
27	69	79	145	217	950	286	158	178	124	72	70	87
28	69	80	141	215	775	491	152	168	113	74	74	86
29	144	80	1,000	212		695	147	165	102	72	74	93
30	329	77	2,140	212		504	168	156	103	75	69	77
31	282		980	209		487		152		74	69	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	329	63	96.6	5,940
November	145	77	87.2	5,190
December	2,140	82	312	19,200
January	2,100	209	381	23,400
February	1,070	201	536	29,800
March	695	279	396	24,300
April	429	147	229	13,600
May	272	115	162	9,960
June	178	89	129	7,680
July	96	72	85.4	5,250
August	74	66	69.9	4,300
September	102	64	74.2	4,420
The year	2,140	63	211	153,000

Lake Almanor at Prattville, Calif.

Location.- Staff gage in NW¼ sec. 11, T. 27 N., R. 7 E., at intake to Butt Creek Tunnel at Prattville, 5 miles northwest of Almanor Dam. (Previously published location at Almanor Dam is in error.)

Records available.- October 1930 to September 1934.

Remarks.- Lake Almanor on North Fork of Feather River is main storage unit of Feather River system of Pacific Gas & Electric Co.; capacity, 1,308,000 acre-feet. Elevation of crest of dam, 4,515 feet. Water is diverted by tunnel to Butt Valley Reservoir and a small amount released at Almanor Dam down natural channel of North Fork of Feather River. See North Fork of Feather River near Prattville, Calif. On Sept. 30, 1933, the storage in Butt Valley Reservoir was 24,734 acre-feet; on Sept. 30, 1934, it was 40,354 acre-feet. Daily-storage record furnished by Pacific Gas & Electric Co.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	377,526	344,597	312,150	335,499	372,519	407,975	456,157	498,977	478,205	443,183	399,786	358,016
2	376,142	343,433	310,872	337,310	373,380	409,047	457,836	500,144	477,253	441,894	398,014	356,833
3	374,760	342,437	311,351	338,630	374,242	409,942	459,144	501,312	475,922	440,606	396,423	355,652
4	373,725	341,608	310,394	340,118	375,278	410,838	460,642	502,481	474,783	438,953	395,010	354,472
5	372,691	340,449	309,277	341,442	376,315	411,913	461,953	503,457	473,644	437,485	393,423	353,126
6	371,486	339,291	308,322	342,935	377,526	413,349	463,267	504,629	472,886	436,019	392,190	351,615
7	370,455	337,970	307,209	344,764	379,086	414,786	464,582	504,824	471,939	434,737	390,959	350,441
8	369,254	336,651	306,097	346,596	380,996	415,686	466,275	503,847	470,804	433,457	389,554	349,102
9	367,883	335,663	305,146	347,931	382,040	416,586	467,971	503,262	469,670	431,996	388,152	347,764
10	366,686	334,677	304,195	349,604	382,911	417,487	469,481	502,481	468,349	430,719	386,751	346,263
11	365,490	333,527	303,246	351,112	383,782	418,388	470,993	501,701	467,029	429,444	385,353	344,764
12	364,126	332,380	305,463	352,622	384,829	419,652	472,507	500,922	466,087	427,988	383,956	343,267
13	362,935	331,070	307,527	354,304	385,702	420,916	473,834	500,144	465,146	426,715	382,736	341,774
14	361,745	330,253	308,800	355,989	386,576	422,001	475,542	499,171	464,206	425,081	381,518	340,449
15	360,387	329,436	310,075	357,171	387,801	423,450	477,063	497,811	462,891	423,631	380,301	339,126
16	359,200	328,294	311,511	358,185	389,379	424,537	478,776	496,066	461,953	422,363	378,739	337,640
17	357,847	327,317	312,790	359,031	390,432	425,807	479,920	494,711	460,829	421,097	377,353	336,486
18	356,664	326,178	313,591	359,709	391,662	426,897	481,065	493,357	459,706	419,652	376,142	335,170
19	355,483	325,203	314,392	360,387	393,775	428,170	482,211	492,005	458,397	418,028	374,933	334,348
20	354,304	324,067	315,354	361,235	395,893	429,444	483,359	490,848	457,649	416,946	373,725	333,035
21	353,126	322,932	316,318	361,914	396,953	430,902	484,699	489,885	456,343	415,506	372,174	331,561
22	351,951	321,961	317,282	362,935	398,723	431,996	486,041	488,923	455,225	413,888	370,627	329,926
23	350,776	320,829	318,409	364,126	400,673	433,092	488,346	487,385	454,108	412,272	369,425	328,620
24	349,604	319,699	319,376	365,149	401,916	434,006	489,307	486,425	452,434	410,338	368,226	328,131
25	348,099	318,731	320,022	366,002	403,161	435,469	490,270	485,274	450,949	409,405	367,028	326,991
26	346,930	317,765	320,829	367,028	404,229	436,751	492,198	485,082	449,465	408,153	365,661	325,890
27	345,763	316,639	321,637	368,054	405,298	439,136	493,357	484,124	447,984	406,725	364,467	324,391
28	344,431	315,675	322,608	368,740	406,546	443,367	494,324	482,735	447,244	405,298	363,275	323,256
29	344,265	314,392	326,340	369,597		447,614	495,291	482,020	445,766	404,050	361,914	322,123
30	346,096	313,270	329,273	370,627		451,877	496,841	480,874	444,658	402,627	360,726	320,829
31	345,929		331,725	371,486		454,294		479,348		401,206	359,370	

Note.- Contents on Sept. 30, 1933, was 378,739 acre-feet.

North Fork of Feather River near Prattville, Calif.

Location.- Discharge obtained by combining flow released through Lake Almanor Dam and discharge of diversion tunnel from Lake Almanor to Butt Valley Reservoir. Dam is 5 miles southeast of Prattville and 9 miles above mouth of Butt Creek.

Drainage area.- 507 square miles (revised).

Records available.- June 1905 to September 1934.

Average discharge.- 28 years (1905-10, 1911-34), 872 second-feet.

Extremes.- 1905-34: Maximum discharge, 10,000 second-feet Mar. 19, 1907 (gage height, 16.2 feet at river gage, previous to dam construction); no flow Apr. 15-16, 1914 parts of January to April 1919, Apr. 21, 1923.

Remarks.- Daily discharge record furnished by Pacific Gas & Electric Co. (See Lake Almanor at Prattville, Calif., for storage record.)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	976	919	905	20	21	22	23	22	950	929	909	693
2	961	920	906	20	21	22	23	22	952	929	911	893
3	946	920	901	20	21	22	23	22	953	930	899	693
4	946	921	902	20	21	22	23	22	951	930	900	893
5	946	922	901	20	21	22	23	22	947	930	900	693
6	946	922	898	20	21	22	23	188	948	931	900	893
7	931	922	898	20	22	22	23	939	948	931	901	893
8	930	922	902	20	22	22	23	945	950	931	901	893
9	929	922	912	20	22	22	23	948	953	932	901	893
10	927	922	898	20	22	22	23	951	953	920	892	893
11	926	922	895	20	22	22	23	952	954	920	892	892
12	926	912	768	20	22	22	23	953	953	921	892	892
13	926	912	18	20	22	22	23	955	954	921	892	892
14	926	912	18	20	22	22	23	945	954	921	892	892
15	926	912	18	20	21	22	23	945	955	922	893	892
16	916	912	18	20	21	23	23	945	968	922	893	892
17	915	912	18	20	21	23	23	947	970	922	893	892
18	915	912	18	20	21	23	23	947	971	922	893	892
19	924	912	18	20	22	23	23	948	972	922	893	892
20	924	912	18	20	22	23	23	950	971	911	893	892
21	924	912	18	20	22	23	22	951	969	910	893	892
22	924	912	18	20	22	23	22	952	959	910	894	891
23	924	912	18	20	22	23	22	953	960	898	893	887
24	924	912	18	20	22	23	22	951	950	898	893	874
25	925	898	18	20	22	23	22	948	947	897	892	876
26	927	900	18	20	22	23	22	945	947	909	892	876
27	927	900	18	20	22	23	22	948	949	909	892	877
28	912	890	18	20	22	23	22	949	950	909	892	877
29	931	693	20	20		23	22	950	951	909	892	877
30	953	904	21	20		23	22	950	929	908	892	879
31	926		21	20		23		950		908	893	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	976	912	931	57,200
November	922	890	912	54,300
December	912	18	356	21,900
January	20	20	20.0	1,230
February	22	21	21.6	1,200
March	23	22	22.5	1,380
April	23	22	22.7	1,350
May	955	22	775	47,700
June	972	929	955	56,800
July	932	897	918	56,400
August	911	892	895	55,000
September	893	874	889	52,900
The year	976	18	563	407,000

Note.- Daily discharge computed to 5 p.m. instead of midnight.

North Fork of Feather River at Big Bar, Calif.

Location.- Water-stage recorder in SW¼ sec. 32 (revised), T. 23 N., R. 5 E., a quarter of a mile above Big Bar and 7 milee above intake of power plant at Big Bend. Zero of gage is 1,348.96 feet above mean sea level.

Drainage area.- 1,934 square miles.

Records available.- February 1911 to August 1930, October 1931 to September 1934.

Average discharge.- 20 years (1911-12, 1913-20, 1921-30, 1931-34), 2,380 second-feet.

Extremes.- 1911-30, 31-34: Maximum mean daily discharge, 35,000 second-feet Jan. 1, 1914; minimum mean daily discharge, 235 second-feet Oct. 31, 1932.

Remarks.- Storage and diversions above station; see records for Lake Almanor and Bucks Creek Storage Reservoir. Record of daily discharge furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,100	512	1,270	4,080	1,200	*1,780	4,380	3,220	2,170	1,430	1,620	1,390
2	1,200	760	1,300	2,660	1,080	*1,790	4,680	*3,150	2,100	1,420	1,560	1,390
3	1,070	1,120	1,320	2,000	1,020	*1,790	4,800	*3,090	2,220	1,390	1,520	1,300
4	804	1,140	1,320	1,800	1,010	*1,790	4,180	3,030	2,460	1,380	1,540	1,210
5	759	1,200	1,340	1,570	1,070	*1,790	3,690	2,910	2,380	1,370	1,520	1,160
6	1,070	1,180	1,030	1,480	1,070	*1,800	3,410	2,920	2,130	1,350	1,520	1,190
7	1,230	718	1,090	1,400	1,070	*1,800	3,110	3,050	2,020	1,340	1,550	1,160
8	1,240	640	1,420	1,330	1,110	*1,800	2,910	3,240	2,120	1,220	1,580	1,080
9	919	844	1,360	1,140	1,250	1,800	2,880	3,510	2,100	1,120	1,520	1,070
10	786	1,260	1,410	1,140	1,370	2,440	2,960	3,670	2,050	1,230	1,520	1,040
11	687	1,340	1,370	1,350	1,460	2,400	3,090	3,760	1,950	1,120	1,360	945
12	689	1,410	1,330	1,410	1,370	2,370	3,320	3,800	1,770	1,110	1,320	882
13	929	1,490	1,310	1,570	1,260	2,290	3,350	3,960	1,620	1,480	1,310	871
14	1,240	1,720	1,340	1,300	1,170	2,410	3,270	3,910	1,580	1,390	1,270	890
15	1,190	828	1,350	1,190	1,170	2,610	3,140	3,700	*1,550	1,410	*1,300	996
16	1,120	879	1,370	1,130	1,090	2,730	3,240	*3,590	*1,530	1,400	*1,320	904
17	953	1,730	1,440	1,270	1,040	2,800	3,030	*3,470	*1,520	1,490	*1,350	627
18	646	1,470	1,390	1,200	1,000	3,120	*3,060	3,360	*1,500	1,490	*1,380	618
19	742	1,440	1,210	1,370	976	5,260	*3,130	3,250	*1,490	1,370	1,410	608
20	1,100	1,490	1,020	1,360	959	6,300	*3,190	3,290	*1,470	1,520	1,400	769
21	1,130	1,230	927	1,220	937	5,360	3,240	3,760	*1,460	1,520	1,340	769
22	1,770	959	1,320	1,270	923	4,190	2,910	3,020	1,450	1,520	1,350	808
23	1,890	1,020	1,580	1,360	968	3,490	2,720	2,670	1,520	1,520	1,420	659
24	844	1,400	2,310	1,040	1,020	3,400	3,800	2,600	1,510	1,620	1,370	548
25	720	1,300	3,270	1,720	1,040	3,850	3,620	2,670	1,470	1,600	*1,360	762
26	1,060	1,020	2,640	1,350	1,140	4,130	3,220	2,580	1,400	1,560	*1,360	526
27	969	907	4,720	1,320	1,350	3,650	2,890	2,530	*1,410	*1,570	*1,350	628
28	870	1,080	4,690	1,860	1,750	3,880	2,680	2,450	*1,420	1,560	*1,340	895
29	861	966	2,820	1,900	1,780	3,910	2,650	2,400	*1,420	1,640	1,340	790
30	901	1,120	2,030	2,100		3,900	2,700	2,300	1,440	1,650	1,370	448
31	616		4,920	2,130		3,960		2,300		1,750	1,380	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,890	616	1,000	61,500
November	1,730	512	1,140	67,800
December	4,920	927	1,850	114,000
January	4,080	1,040	1,580	97,200
February	1,780	923	1,160	66,700
March	6,300	1,780	3,060	188,000
April	4,800	2,650	3,310	197,000
May	3,960	2,300	3,130	192,000
June	2,460	1,400	1,740	104,000
July	1,750	1,110	1,440	88,500
August	1,620	1,270	1,410	86,700
September	1,390	448	898	53,400
The year	6,300	448	1,810	1,320,000

*Interpolated.

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North Fork of Feather River at Big Bar, Calif.

(Continued)

Discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	349	355	672	715	1,510	872	2,010	1,980	2,560	1,020	1,520	1,100
2	373	681	1,020	518	1,580	1,070	2,240	2,090	2,100	952	1,460	1,140
3	314	395	866	1,540	1,760	1,280	2,590	1,920	2,050	1,030	1,460	1,060
4	314	364	1,030	1,540	1,030	1,340	2,860	1,800	1,710	1,120	1,430	1,020
5	462	326	1,360	1,520	1,230	1,200	2,770	2,070	1,980	1,120	1,430	1,050
6	513	281	898	1,560	1,510	1,110	2,640	1,900	1,970	1,220	1,410	1,110
7	783	264	1,240	1,410	1,460	1,110	2,520	1,880	2,040	1,240	1,430	1,060
8	586	343	1,310	1,320	1,440	1,200	2,330	1,860	1,920	1,240	1,420	1,090
9	479	352	1,060	1,440	1,500	1,260	1,960	1,760	1,900	1,210	1,440	1,170
10	652	575	1,130	1,510	1,370	1,210	1,840	1,790	1,730	1,330	1,460	1,060
11	1,020	585	943	1,520	1,390	1,220	1,720	1,770	1,730	1,330	1,460	1,020
12	906	511	1,350	1,520	1,300	1,820	1,700	1,820	1,760	1,340	1,460	1,080
13	980	495	1,370	1,560	1,380	2,500	1,730	1,850	1,700	1,340	1,420	1,040
14	702	458	1,160	1,400	1,510	1,830	1,810	1,910	1,630	1,370	1,460	1,110
15	623	462	1,280	1,440	1,530	1,560	1,890	1,980	1,440	1,370	1,450	1,130
16	318	663	1,280	1,590	1,410	1,760	1,890	2,030	1,300	1,280	1,420	1,050
17	277	739	1,180	1,610	1,450	1,970	1,730	2,050	1,120	1,350	1,420	1,020
18	312	637	1,240	1,600	2,160	1,700	1,590	2,070	1,030	1,400	1,450	1,180
19	608	960	1,530	1,600	2,080	1,480	1,470	1,940	1,070	1,420	1,420	1,150
20	500	475	1,210	1,660	1,220	1,500	1,440	1,970	1,100	1,420	1,370	1,110
21	432	791	1,460	1,560	1,280	1,460	1,520	1,980	1,370	1,420	1,420	1,140
22	361	646	1,160	1,490	866	1,410	1,670	1,880	1,270	1,420	1,410	1,140
23	276	900	1,200	1,640	855	1,320	1,860	1,880	1,220	1,420	1,420	1,060
24	239	588	1,420	1,610	882	1,300	2,110	2,240	1,100	1,460	1,380	1,030
25	343	491	366	1,610	773	1,260	2,240	2,490	1,030	1,460	1,280	940
26	375	487	346	1,690	620	1,190	1,980	2,600	1,220	1,470	1,260	1,320
27	428	543	1,160	1,730	853	1,370	2,160	2,700	1,080	1,450	1,240	1,360
28	357	516	1,220	1,540	806	2,700	2,390	2,860	1,200	1,470	1,270	1,490
29	379	1,310	1,210	1,500		2,530	2,570	2,640	1,300	1,440	1,240	1,460
30	338	961	910	1,500		2,110	2,130	2,790	1,260	1,420	1,230	1,320
31	235		950	1,620		1,930		2,940		1,540	1,160	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,020	235	479	29,500
November	1,310	264	572	34,000
December	1,530	346	1,110	68,200
January	1,730	518	1,490	91,600
February	2,160	620	1,310	72,800
March	2,700	872	1,530	94,100
April	2,860	1,440	2,050	122,000
May	2,940	1,760	2,110	130,000
June	2,560	1,030	1,530	91,000
July	1,540	952	1,320	81,200
August	1,520	1,160	1,390	85,500
September	1,490	940	1,130	67,200
The year	2,940	235	1,340	967,000

North Fork of Feather River at Big Bar, Calif.

(Continued)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,290	1,500	1,260	5,700	1,620	2,240	2,600	1,620	1,210	1,460	1,500	1,390
2	1,370	1,600	1,400	5,330	1,440	2,060	2,240	1,580	1,190	1,490	1,440	1,280
3	1,440	1,560	1,340	3,660	1,250	2,010	2,150	1,500	1,170	1,470	1,390	1,320
4	1,440	1,480	1,320	2,940	1,140	1,910	2,060	1,470	1,160	1,470	1,390	1,380
5	1,420	1,440	1,410	2,400	1,250	1,930	1,990	1,660	1,170	1,470	1,400	1,360
6	1,410	1,420	1,390	1,970	1,590	1,900	2,010	1,350	1,190	1,460	1,390	1,480
7	1,300	1,470	1,400	1,710	1,950	1,810	1,920	1,730	1,220	1,450	1,400	1,250
8	1,270	1,410	1,390	1,680	2,450	1,730	1,710	1,770	1,200	1,440	1,340	1,220
9	1,360	1,250	1,370	1,700	1,930	1,700	1,750	1,720	1,170	1,440	1,400	1,220
10	1,370	1,210	1,360	1,580	1,670	1,630	1,940	1,680	1,150	1,440	1,420	1,270
11	1,350	1,280	1,440	1,460	1,380	1,490	1,980	1,650	1,140	1,440	1,390	1,340
12	1,320	1,350	2,310	1,410	1,350	1,540	2,010	1,600	1,150	1,430	1,390	1,390
13	1,320	1,460	2,040	1,290	1,350	1,620	1,950	1,560	1,150	1,420	1,390	1,390
14	1,260	1,450	2,040	1,220	1,340	1,540	1,700	1,510	1,160	1,390	1,490	1,310
15	1,270	1,470	1,600	1,420	1,440	1,580	1,860	1,490	1,370	1,420	1,400	1,340
16	1,280	1,480	1,180	1,510	1,520	1,600	1,730	1,560	1,360	1,420	1,400	1,190
17	1,370	1,420	1,030	1,530	1,360	1,550	1,840	1,540	1,380	1,360	1,390	1,290
18	1,370	1,410	1,080	1,520	1,290	1,430	1,720	1,490	1,380	1,400	1,400	1,290
19	1,360	1,400	1,050	1,540	2,370	1,520	1,680	1,340	1,440	1,410	1,390	1,300
20	1,340	1,500	1,070	1,250	3,100	1,780	1,750	1,260	1,490	1,410	1,390	1,360
21	1,340	1,420	1,080	1,180	2,610	1,860	1,280	1,330	1,520	1,410	1,400	1,450
22	1,310	1,400	979	1,270	2,560	1,860	1,300	1,370	1,570	1,420	1,400	1,310
23	1,460	1,380	946	1,500	2,680	1,890	1,460	1,430	1,560	1,410	1,390	1,210
24	1,460	1,340	916	1,350	3,080	1,660	1,390	1,420	1,540	1,410	1,390	1,240
25	1,460	1,350	898	1,340	3,210	1,580	1,320	1,390	1,540	1,410	1,400	1,400
26	1,500	1,340	890	1,370	2,990	1,860	1,340	1,290	1,550	1,410	1,400	1,350
27	1,540	1,340	910	1,250	2,930	1,870	1,320	1,210	1,540	1,400	1,400	1,300
28	1,380	1,390	930	1,240	2,450	1,420	1,230	1,210	1,530	1,410	1,410	1,320
29	1,780	1,340	2,720	1,330		1,730	1,130	1,190	1,520	1,390	1,400	1,190
30	1,900	1,350	4,120	1,360		2,230	1,460	1,160	1,500	1,400	1,420	1,280
31	1,420		3,380	1,440		2,460		1,190		1,440	1,460	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,900	1,260	1,400	86,100
November	1,600	1,210	1,410	83,900
December	4,120	890	1,490	91,600
January	5,700	1,180	1,850	114,000
February	3,210	1,140	1,980	110,000
March	2,460	1,420	1,770	109,000
April	2,600	1,130	1,730	103,000
May	1,770	1,160	1,460	89,800
June	1,570	1,140	1,340	79,700
July	1,490	1,360	1,430	87,900
August	1,500	1,340	1,410	86,700
September	1,480	1,190	1,310	78,000
The year	5,700	890	1,550	1,120,000

Feather River at Oroville, Calif.

Location.- Water-stage recorder in sec. 8, T. 19 N., R. 4 E., just below highway bridge at Oroville. Altitude, about 140 feet.

Drainage area.- 3,640 square miles.

Records available.- January 1902 to September 1934.

Average discharge.- 32 years, 5,940 second-feet.

Extremes.- Maximum discharge during year, 20,300 second-feet Jan. 1 (gage height, 9.37 feet); minimum, 698 second-feet Oct. 24 (gage height, -0.86 foot).
1902-34: Maximum discharge, 211,000 second-feet Mar. 26, 1928 (gage height, 26.08 feet); minimum, 300 second-feet (estimated) on Nov. 9, 1931 (gage height, -1.7 feet).

Remarks.- Records excellent except those estimated Oct. 7 to Dec. 20. Lake Almanor, Bucks, Butt Valley, other storage reservoirs and three large power plants above station; also small diversions. Following is a summary of hold-over storage in this and previous years.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,320	2,330	1,460	13,800	2,630	5,900	6,070	3,630	1,620	1,620	1,480	1,450
2	1,290	1,980	1,450	13,400	2,540	5,140	5,580	3,300	1,590	1,590	1,520	1,340
3	1,460	1,890	1,900	8,480	2,370	4,870	4,870	3,100	1,520	1,590	1,520	1,240
4	1,490	1,820	1,730	6,780	2,130	4,740	4,480	2,900	1,480	1,590	1,480	1,380
5	1,460	1,660	1,680	5,740	2,170	4,740	4,220	3,000	1,560	1,590	1,380	1,420
6	1,460	1,640	1,620	4,480	3,000	4,740	4,100	2,450	1,660	1,590	1,480	1,450
7	1,410	1,660	1,610	3,740	4,220	4,610	3,980	2,810	1,770	1,590	1,450	1,380
8	1,360	1,670	1,620	3,410	6,780	4,100	3,740	2,810	1,730	1,590	1,420	1,210
9	1,330	1,440	1,600	3,200	5,140	3,980	3,520	2,810	1,590	1,560	1,420	1,180
10	1,450	1,340	1,590	3,000	4,220	3,860	3,860	2,540	1,520	1,590	1,480	1,240
11	1,380	1,460	1,610	2,630	3,520	3,630	3,860	2,540	1,480	1,560	1,450	1,420
12	1,410	1,540	3,590	2,540	3,100	3,630	3,740	2,370	1,480	1,560	1,450	1,340
13	1,380	1,490	8,470	2,450	3,000	3,740	3,740	2,250	1,480	1,560	1,450	1,480
14	1,380	1,670	5,440	2,210	2,810	3,630	3,300	2,330	1,480	1,480	1,520	1,340
15	1,240	1,570	3,590	2,450	2,900	3,740	3,630	2,090	1,560	1,520	1,480	1,280
16	1,310	1,690	2,560	2,630	4,100	3,630	3,300	2,090	1,620	1,560	1,420	1,310
17	1,370	1,660	1,910	2,450	3,630	3,410	3,300	2,130	1,620	1,480	1,420	1,210
18	1,390	1,530	1,760	2,450	3,300	3,410	3,000	1,970	1,620	1,480	1,420	1,380
19	1,420	1,520	1,680	2,370	5,660	3,630	3,000	1,890	1,620	1,520	1,420	1,340
20	1,400	1,640	1,740	2,540	8,240	3,520	3,100	1,770	1,620	1,520	1,420	1,420
21	1,400	1,630	1,730	2,170	6,780	3,980	2,630	1,770	1,660	1,480	1,450	1,590
22	1,390	1,620	1,600	2,050	6,420	3,740	2,450	1,770	1,660	1,480	1,420	1,450
23	1,410	1,540	1,460	2,450	7,180	3,740	2,900	1,850	1,730	1,520	1,420	1,210
24	1,500	1,550	1,360	2,810	6,600	3,860	3,100	1,850	1,700	1,520	1,450	1,340
25	1,510	1,530	1,320	2,540	5,740	3,520	2,900	1,850	1,660	1,520	1,380	1,480
26	1,500	1,440	1,260	2,450	7,800	3,630	2,630	1,850	1,700	1,520	1,380	1,480
27	1,600	1,530	1,200	2,370	8,020	3,860	2,540	1,810	1,730	1,480	1,420	1,340
28	1,440	1,490	1,290	2,370	6,780	8,040	2,330	1,700	1,730	1,480	1,420	1,340
29	1,540	1,510	4,000	2,370		14,100	2,090	1,590	1,700	1,480	1,450	1,240
30	3,660	1,340	10,700	2,450		8,960	2,330	1,560	1,660	1,480	1,450	1,280
31	3,790		7,720	2,450		7,580		1,590		1,480	1,480	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,790	1,240	1,560	95,900
November	2,330	1,340	1,610	95,800
December	10,700	1,200	2,650	163,000
January	13,800	2,050	3,780	232,000
February	8,240	2,130	4,670	259,000
March	14,100	3,410	4,760	293,000
April	6,070	2,090	3,480	207,000
May	3,630	1,560	2,260	139,000
June	1,770	1,480	1,620	96,400
July	1,620	1,480	1,530	94,100
August	1,520	1,380	1,450	89,200
September	1,590	1,180	1,350	80,300
The year	14,100	1,180	2,550	1,840,000

Feather River at Nicolaus, Calif.

Location.- Water-stage recorder two-fifths of a mile downstream from highway bridge at Nicolaus, Sutter County. Gage set to U. S. Army Engineers datum.

Records available.- June 1921 to October 1934 (low-water records only).

Extremes.- Minimum discharge May to October, 187 second-feet Sept. 11 (gage height, 20.81 feet).
1921-34: No flow Aug. 2-18, 1924, July 11-22, 24, 26, Aug. 1, 1931.

Remarks.- Records good except those for May 1, July 30 to Aug. 7, Aug. 14-20, which were estimated. Large diversions above station by Western Canal, Sutter Butte Canal, and others; also, many storage reservoirs and power plants.

Discharge, in second-feet, 1933-34

Day	Oct.						May	June	July	Aug.	Sept.	Oct.
1	1,140						2,600	776	520	290	365	1,010
2	1,180						4,520	803	466	320	397	1,040
3	1,100						4,390	792	421	320	409	1,040
4	1,180						3,870	754	393	340	329	1,040
5	1,270						3,480	710	361	350	284	1,010
6	1,270						3,160	726	349	370	294	1,040
7	1,220						2,680	855	349	350	337	1,010
8	1,180						2,500	1,010	377	313	377	978
9	1,100						2,560	1,080	365	305	357	915
10	1,020						2,380	1,010	365	313	238	945
11	1,060						2,100	831	353	321	208	978
12	1,100						1,940	754	357	333	284	978
13	1,100						1,790	690	349	333	497	978
14	1,060						1,640	645	337	310	615	945
15	1,060						1,500	620	357	270	732	978
16	1,020						1,380	600	317	280	670	915
17	948						1,260	630	329	350	726	978
18	964						1,180	605	325	300	715	1,220
19	1,020						1,150	580	291	310	786	1,340
20	1,060						1,080	555	294	320	885	1,120
21	1,020						978	580	317	317	861	1,120
22	1,060						873	590	345	313	978	1,180
23	1,060						814	565	361	317	1,040	1,420
24	1,000						855	535	365	321	1,010	1,380
25	1,100						885	580	357	291	945	1,300
26	1,100						915	545	357	313	1,040	1,260
27	1,140						1,010	484	365	284	1,150	1,220
28	1,180						1,080	492	325	291	1,080	1,180
29							978	506	313	345	1,080	1,220
30							885	502	310	361	1,080	1,180
31							792		280	345		1,220

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1933				
October	1,270	948	1,100	61,100
1934				
May	4,520	792	1,850	114,000
June	1,080	484	680	40,500
July	520	280	354	21,800
August	370	270	319	19,600
September	1,150	208	659	39,200
October	1,420	915	1,100	67,600
The period				303,000

Indian Creek near Crescent Mills, Calif.

Location.- Water-stage recorder in SW¼ sec. 25, T. 26 N., R. 9 E., 4 miles above mouth of Spanish Creek and about 1½ miles below Crescent Mills. Altitude, about 3,500 feet.

Drainage area.- 746 square miles.

Records available.- January 1906 to December 1909, September 1911 to March 1918, October 1930 to September 1934.

Average discharge.- 13 years (1906-9, 1911-17, 1930-34), 510 second-feet.

Extremes.- Maximum discharge during year, 1,010 second-feet Jan. 2 (gage height, 5.30 feet); minimum, 2.5 second-feet Sept. 14.

1906-9, 1911-18, 1930-34: Maximum discharge, about 11,700 second-feet Mar. 19, 1907 (gage height, 20.2 feet, old datum); minimum, 1.7 second-feet Aug. 25, 1931.

Remarks.- Records good. Discharge estimated Sept. 19-29. Diversions for irrigation in Indian and Genesee Valleys.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.6	94	35	716	162	388	561	131	43	17	6	3.5
2	3.6	68	35	984	160	362	432	135	37	16	6.5	3.5
3	3.6	58	44	786	162	346	362	123	37	16	7	3.6
4	4.3	56	50	602	162	336	323	113	39	14	7	3.6
5	4.3	51	47	439	166	333	297	100	43	14	4.4	4.0
6	4.4	47	44	338	184	338	275	90	46	13	3.5	4.0
7	4.3	45	43	280	203	331	254	81	51	11	3.2	4.1
8	4.0	43	43	235	278	306	245	75	55	10	3.0	4.0
9	4.0	42	40	207	311	289	231	73	53	10	3.6	3.5
10	4.0	40	40	195	269	284	219	62	50	10	3.3	3.2
11	4.3	39	42	175	229	280	209	48	50	10	2.9	2.8
12	4.6	36	160	162	207	280	199	50	49	9.5	2.9	2.6
13	4.8	34	376	157	195	282	184	47	45	9	2.9	2.7
14	4.6	35	376	155	184	284	169	44	46	9.5	3.0	2.6
15	4.6	36	247	175	184	284	162	39	45	10	3.6	2.8
16	4.8	36	180	159	221	284	155	36	42	10	3.8	4.0
17	5	36	129	143	207	280	147	35	38	11	4.3	4.0
18	4.6	36	122	137	197	269	126	34	29	11	4.0	4.0
19	5	36	116	134	282	260	108	28	22	10	3.6	4.0
20	5.5	36	123	167	422	260	72	24	20	10	3.5	4.0
21	5.5	35	131	167	400	258	66	22	20	9.5	3.6	4.0
22	6.5	35	124	152	409	256	74	20	20	9.5	3.6	4.0
23	7	35	114	159	469	250	87	11	18	9	3.6	8
24	8	35	106	197	461	247	108	11	17	9	3.6	12
25	6	36	99	184	422	256	117	22	16	8.5	3.6	10
26	6.5	36	95	173	450	264	106	20	16	8	3.6	9
27	7.5	36	92	176	469	250	90	16	16	8	3.8	8
28	8.5	36	88	176	439	273	70	16	14	7.5	5.5	8
29	9.5	44	182	173		583	63	20	14	6	6	7
30	54	40	379	169		735	76	37	15	4.8	4.4	6.5
31	134		505	166		666		48		5.5	3.8	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	134	3.6	11.0	676
November	94	34	42.4	2,520
December	505	35	136	8,360
January	984	134	266	16,400
February	469	160	282	15,700
March	735	247	326	20,000
April	561	63	186	11,100
May	135	11	52.0	3,200
June	55	14	33.6	2,000
July	17	4.8	10.2	627
August	7	2.9	4.11	253
September	12	2.6	4.91	292
The year	984	2.6	112	81,100

Bucks Creek Storage Reservoir near Bucks Ranch, Calif.

Location.- Water-stage recorder in NW¼ sec. 33, T. 24 N., R. 7 E., at dam on Bucks Creek 2 miles northwest of original Bucks Ranch and 15 miles west of Quincy.

Drainage area.- 28 square miles.

Records available.- October 1928 to September 1934.

Remarks.- This reservoir is main storage unit of Grizzly Creek project of Pacific Gas & Electric Co.; capacity, 101,930 acre-feet. Elevation of crest of dam is 5,168 feet above mean sea level. Released water flows down Bucks Creek to diversion dam, where it enters tunnel which discharges into Grizzly Creek. Record of daily contents furnished by Pacific Gas & Electric Co.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	79,800	76,721	74,416	80,135	82,832	88,406	98,208	101,744	98,297	95,433	82,917	69,955
2	79,800	76,803	74,416	80,302	82,917	88,579	98,568	101,653	98,297	95,255	82,492	69,472
3	79,800	76,803	74,416	80,386	83,002	88,665	98,930	101,653	98,387	94,987	81,986	69,392
4	79,716	76,803	74,416	80,470	83,087	88,839	99,201	101,653	98,478	94,720	81,564	69,073
5	79,716	76,803	74,416	80,554	83,172	89,013	99,563	101,653	98,659	94,277	81,143	68,594
6	79,465	76,886	74,416	80,638	83,257	89,186	99,924	101,380	98,839	93,835	80,721	68,114
7	79,213	76,886	74,416	80,638	83,682	89,360	100,196	101,471	98,929	93,392	80,386	67,478
8	78,964	76,886	74,416	80,638	84,192	89,446	100,560	101,380	99,020	92,950	79,967	67,399
9	78,714	76,886	74,416	80,638	84,362	89,621	100,924	101,289	99,110	92,510	79,548	67,399
10	78,464	76,886	74,416	80,889	84,533	89,795	101,289	101,289	99,201	92,247	79,130	67,399
11	78,214	76,886	74,498	81,058	84,619	89,970	101,562	101,471	99,201	91,983	78,630	67,399
12	77,965	76,886	74,580	81,143	84,705	90,231	101,835	101,562	99,201	91,368	78,214	67,082
13	77,715	76,886	74,580	81,227	84,791	90,406	102,018	101,653	99,291	91,192	77,715	66,607
14	77,548	76,556	74,663	81,311	84,876	90,581	101,744	101,562	99,382	90,756	77,383	66,131
15	77,217	76,308	74,663	81,564	85,133	90,843	101,562	101,380	99,382	90,319	76,804	65,738
16	77,217	75,976	74,745	81,649	85,390	91,104	101,289	101,198	99,382	89,795	76,390	65,424
17	77,217	75,730	74,745	81,733	85,475	91,280	101,107	101,198	99,382	89,273	76,059	65,424
18	77,217	75,401	74,909	61,733	85,732	91,544	101,198	101,289	99,382	88,752	75,566	65,424
19	77,217	75,237	75,401	81,733	86,075	91,719	101,471	101,289	99,473	88,232	75,155	65,050
20	77,217	74,991	75,894	81,818	86,506	91,983	101,471	101,289	99,473	67,712	74,745	64,715
21	77,217	74,827	76,473	81,902	86,676	92,247	101,471	101,289	99,473	87,281	74,416	64,247
22	77,217	74,580	77,217	81,902	86,937	92,423	101,471	101,016	99,110	86,851	73,926	63,779
23	77,217	74,416	77,548	82,071	87,195	92,686	101,653	100,560	98,568	86,506	73,518	63,623
24	76,969	74,416	77,798	62,155	87,367	92,950	101,744	99,924	98,028	86,161	73,110	63,467
25	76,721	74,416	77,964	82,239	87,453	93,304	101,744	99,382	97,490	85,818	72,621	63,389
26	76,390	74,416	78,048	82,324	87,885	93,658	101,744	99,020	97,041	85,390	72,135	62,922
27	75,894	74,416	78,131	82,408	88,059	93,923	101,744	98,568	96,592	84,962	71,811	62,922
28	75,484	74,416	78,214	82,408	88,232	94,898	101,653	98,208	96,235	84,619	71,568	62,922
29	75,155	74,416	78,381	82,408		96,592	101,562	98,118	95,967	84,107	71,325	62,922
30	75,483	74,416	79,213	82,493		97,131	101,562	98,118	95,700	83,767	70,920	62,922
31	76,390		79,632	82,662		97,759		98,208		83,342	70,437	

Note.- Contents on Sept. 30, 1933 was 79,883 acre-feet.

Grizzly Creek near Storrie, Calif.

Location.- Water-stage recorder in N½ sec. 5, T. 23 N., R. 7 E., about 2,000 feet above outlet of tunnel from Bucks Creek and 6 miles southeast of Storrie. Altitude, about 4,900 feet.

Records available.- December 1929 to September 1932, October 1933 to September 1934.

Extremes.- Maximum discharge during year, 468 second-feet Mar. 29 (gage height, 3.85 feet); minimum, 0.2 second-foot Oct. 3-12, Sept. 7-22.
1929-32, 1933-34: Maximum stage, 4.85 feet Dec. 12, 1929 (discharge not determined); minimum, 0.1 second-foot Sept. 7-14, 1932.

Remarks.- Records fair. Discharge estimated Nov. 28-29, Dec. 3-4, 7-11, 15-24, on account of ice. No diversions or regulation above station. Gage-height record and some discharge measurements furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	10	3.0	113	15	24	55	39	7	1.8	0.5	0.3
2	.3	8.5	2.7	63	15	25	45	40	5.5	1.8	.5	.3
3	.2	8	3.5	47	14	29	38	40	5	1.6	.5	.3
4	.2	7	6	27	15	32	36	33	4.8	1.5	.5	.3
5	.2	6	4.8	20	18	38	38	27	6.5	1.4	.5	.3
6	.2	5	4.2	17	40	38	39	23	7.5	1.4	.4	.3
7	.2	4.5	3.5	14	81	34	42	20	7	1.4	.4	.2
8	.2	4.4	3.5	13	93	31	42	19	6.5	1.4	.3	.2
9	.2	4.2	3.5	12	39	32	38	17	5.5	1.4	.3	.2
10	.2	4.2	3.5	11	29	33	38	16	5	1.3	.3	.2
11	.2	4.0	4.0	10	23	36	39	14	5	1.3	.3	.2
12	.2	3.9	62	9.5	21	38	37	13	5	1.1	.3	.2
13	.3	3.8	76	9	19	38	36	12	4.8	1.0	.3	.2
14	.3	3.8	25	10	18	38	37	11	4.4	.9	.3	.2
15	.3	3.9	18	12	26	39	36	10	4.0	.9	.3	.2
16	.3	3.9	26	10	28	40	34	9.5	3.8	.8	.3	.2
17	.3	3.6	27	10	22	39	29	9	3.6	.7	.3	.2
18	.3	3.4	12	9	29	39	27	8	3.3	.5	.3	.2
19	.4	3.3	10	10	100	41	26	7	3.0	.5	.3	.2
20	.4	3.3	12	11	50	40	26	6.5	2.8	.5	.3	.2
21	.4	3.0	10	10	32	40	25	5.5	2.7	.7	.3	.2
22	.4	3.0	10	10	36	40	31	5	2.4	.8	.3	.2
23	.4	3.0	9	14	32	42	42	4.8	2.1	.8	.3	.9
24	.5	3.0	9	15	27	48	36	4.8	2.0	.8	.3	1.5
25	.5	3.0	9	12	25	65	28	5	2.2	.8	.3	1.1
26	.7	3.0	8.6	10	28	49	22	6.5	3.2	.7	.3	.8
27	.5	3.0	9	14	30	81	20	5.5	2.6	.7	.5	.5
28	.7	2.8	9	16	26	290	18	5	2.2	.7	.5	.4
29	25	3.0	51	16		210	17	4.8	2.1	.7	.5	.3
30	76	2.8	57	16		94	36	4.8	2.0	.5	.4	.3
31	18		54	15		73		6		.5	.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	76	0.2	4.14	255
November	10	2.8	4.28	255
December	76	2.7	17.6	1,080
January	113	9	18.9	1,160
February	100	14	33.2	1,840
March	290	24	56.0	3,440
April	55	17	33.7	2,010
May	40	4.8	13.9	855
June	7.5	2.0	4.12	245
July	1.8	.5	1.00	61.3
August	.5	.3	.36	22.2
September	1.5	.2	.36	21.4
The year	290	.2	15.5	11,200

West Branch of Feather River near Yankee Hill, Calif.

Location.- Water-stage recorder in sec. 5, T. 21 N., R. 4 E., at highway bridge 2 miles west of Yankee Hill. Altitude, about 1,100 feet.

Drainage area.- 145 square miles.

Records available.- September 1930 to September 1934.

Extremes.- Maximum discharge during year, 3,270 second-feet Jan. 1 (gage height, 11.15 feet); minimum, 6.5 second-feet Oct. 22 and 23.
1930-34: Maximum discharge, 3,910 second-feet Dec. 24, 1931 (gage height, 12.10 feet); minimum, 3.1 second-feet Oct. 4, 1931.

Remarks.- Records excellent. Three canals divert water above the station for power and irrigation. Lake Wilenor on Concow Creek has storage capacity of about 8,000 acre-feet. (See records for Spring Valley Ditch and Butte Creek.)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	71	7.5	2,290	134	549	416	394	22	12	10	10
2	7	46	8	1,280	136	462	344	324	26	12	10	10
3	7	22	81	770	129	427	285	304	20	12	11	10
4	7	17	59	536	116	384	267	276	17	12	11	10
5	7	10	25	427	147	394	258	249	19	12	11	10
6	7	8.5	18	314	344	374	249	220	31	12	11	11
7	7	10	13	249	708	314	258	203	50	12	11	12
8	7	9.5	14	212	1,110	276	236	209	51	11	10	12
9	7	9	15	185	575	267	249	196	28	11	10	18
10	7	9	13	163	405	276	314	171	21	11	10	24
11	7	8.5	16	150	314	258	304	163	21	11	10	18
12	7	8	610	133	267	267	276	136	19	10	9.5	8.5
13	7	7.5	1,050	121	233	267	267	131	17	10	9	7.5
14	7	6	390	119	209	258	276	121	20	10	11	7
15	7.5	6	316	204	276	249	285	54	20	10	9.5	7
16	7	8.5	179	143	575	249	267	36	14	10	9.5	7
17	7	8	122	121	405	233	249	34	12	10	9.5	7
18	7	11	107	111	354	219	209	33	11	10	9.5	7.5
19	6.5	8.5	78	113	836	235	212	31	11	10	9.5	6
20	6.5	8.5	129	146	897	222	227	29	11	11	9.5	8
21	6.5	9	110	123	616	211	209	26	11	13	9.5	8
22	6.5	9.5	87	115	674	203	231	24	10	13	10	6
23	6.5	8.5	75	127	787	201	354	22	9.5	13	10	9
24	6.5	8.5	67	168	644	222	334	22	9.5	13	10	12
25	6.5	8.5	62	131	536	249	276	24	11	12	11	17
26	7	9	57	126	992	235	240	35	14	12	10	11
27	6.5	9	55	143	897	221	214	41	15	11	10	9
28	7	9	52	156	674	1,340	192	28	13	11	10	9
29	55	8.5	910	153		1,320	179	26	12	10	10	8
30	383	8	1,780	146		616	222	24	11	10	10	8
31	252		804	141		562		22		10	10	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	383	6.5	28.5	1,750
November	71	7.5	12.8	762
December	1,780	7.5	236	14,500
January	2,290	111	301	18,500
February	1,110	116	500	27,800
March	1,340	201	373	22,900
April	416	179	263	15,600
May	394	22	116	7,130
June	51	9.5	18.6	1,110
July	13	10	11.2	689
August	11	9	10.1	621
September	24	7	10.4	619
The year	2,290	6.5	155	112,000

Concow Creek near Yankee Hill, Calif.

Location.- Water-stage recorder in NE¼ sec. 16, T. 22 N., R. 4 E., at diversion dam for Spring Valley Ditch, 300 feet below Lake Wilenor Dam and 4 miles north of Yankee Hill post office. Altitude, about 1,850 feet.

Records available.- October 1927 to September 1934.

Extremes.- Maximum discharge during year, 113 second-feet Feb. 7 (gage height, 0.96 foot); no flow most of year.
1927-34: Maximum discharge, 1,840 second-feet Mar. 26, 1928 (gage height, 5.9 feet); no flow many months each year.

Remarks.- Discharge estimated Jan. 1-3. Storage in Lake Wilenor, above station; on Sept. 30, 1933, storage was 3,750 acre-feet, and on Sept. 30, 1934, it was 3,400 acre-feet. For total flow add that of Spring Valley Ditch, which diverts water around station (see next page). Gage-height record furnished by Table Mountain and Thermalito Irrigation Districts.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				1.1	5.5	42	14	25				
2				1.2	5	30	13	1.0				
3				1.4	5	30	13	0				
4				1.6	5.5	30	6.5	0				
5				1.6	12	30	0	0				
6				1.6	20	20	0	0				
7				1.6	55	1.4	0	0				
8				1.6	89	1.4	0	0				
9				1.6	53	1.4	0	0				
10				1.6	38	1.6	0	0				
11				1.6	20	1.8	0	0				
12				1.6	2.7	1.4	0	0				
13				1.6	2.7	0	0	0				
14				1.6	2.7	.4	0	0				
15				1.4	4.6	2.1	0	0				
16				1.4	30	2.9	0	0				
17				1.6	35	1.4	0	0				
18				1.8	33	1.4	0	0				
19				5	66	1.6	0	0				
20				7.5	77	1.8	0	0				
21				5.5	55	2.3	0	0				
22				5	70	2.3	0	0				
23				6.5	86	2.3	0	0				
24				13	69	2.3	0	0				
25				10	48	2.3	0	0				
26				9	77	2.3	0	0				
27				6.5	76	2.3	0	0				
28				5.5	58	26	0	0				
29				4.2		70	0	0				
30				4.2		45	19	0				
31				9		32		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	13	1.1	3.82	235
February	89	2.7	39.3	2,180
March	70	0	12.6	775
April	19	0	2.18	130
May	25	0	.84	51.6
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	89	0	4.66	3,370

Note.- No flow during months left blank.

Spring Valley Ditch near Yankee Hill, Calif.

Location.- Water-stage recorder installed July 21, 1934, in NE¼ sec. 16, T. 22 N., R. 4 E., just below diversion dam and 4 miles north of Yankee Hill post office. Prior to that date staff gage at same location and datum. Altitude, about 1,970 feet.

Records available.- October 1927 to September 1934.

Extremes.- Maximum mean daily discharge during year, 41 second-feet Sept. 10; no flow several months.
1927-34: Maximum mean daily discharge, 49 second-feet Oct. 25-27, 1928; no flow several months each year.

Remarks.- Records good. Canal diverts from left bank of Concow Creek 300 feet below Lake Wilenor Reservoir; water used for power and irrigation. Gage-height record and results of discharge measurements furnished by Table Mountain and Thermalito Irrigation Districts.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	12	4.9				0	11	2.1	19	23	25
2	18	10	4.9				0	7	2.1	21	25	25
3	18	.4	4.9				0	5	1.9	25	26	27
4	18	.4	4.9				4.4	4.4	1.9	25	26	32
5	18	.4	4.9				8.5	4.1	2.6	22	26	36
6	18	.4	4.9				8	4.3	6	15	26	39
7	17	.4	4.9				10	4.2	10	16	26	40
8	17	.4	4.9				9.5	6	6.5	16	26	40
9	17	.4	4.9				7.5	8	3.9	15	26	40
10	17	.4	4.9				7	6.5	1.7	15	23	41
11	17	.4	4.9				7	4.5	1.6	20	20	33
12	17	.4	4.0				7	3.8	1.7	19	20	26
13	17	.4	1.4				5.5	3.7	1.9	22	20	24
14	17	.4	.4				2.3	2.3	5	24	22	18
15	17	.4	.4				2.4	1.6	1.7	25	27	14
16	17	.4	.4				2.4	1.6	1.4	24	28	14
17	17	.4	.4				1.8	1.6	1.4	24	28	14
18	17	.4	.4				1.2	1.6	1.4	26	26	16
19	17	.4	.4				1.0	1.6	1.4	32	25	17
20	17	7	.4				.8	1.6	1.4	34	25	17
21	18	6	.4				.8	1.4	6.5	34	25	17
22	18	4.6	.4				1.0	1.4	10	34	28	17
23	18	4.6	.4				1.0	1.4	10	34	30	17
24	16	4.6	.4				1.6	1.5	15	31	31	14
25	15	4.6	.4				1.6	1.5	19	25	28	10
26	15	4.6	.4				1.2	1.7	19	22	24	9
27	15	4.6	.4				1.2	1.9	19	19	24	9
28	16	4.8	.4				1.1	2.0	19	16	24	11
29	16	4.9	1.0				1.1	2.0	19	16	25	14
30	6.5	4.9	1.1				5	2.0	18	21	25	15
31	.5		1.1					2.0		23	25	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	18	0.5	16.1	990
November	12	.4	2.80	167
December	4.9	.4	2.21	136
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	10	0	3.40	202
May	11	1.4	3.33	205
June	19	1.4	7.07	421
July	34	15	23.0	1,410
August	31	20	25.3	1,560
September	41	9	22.4	1,330
The year	41	0	8.87	6,420

Note.- No flow during months left blank.

Middle Fork of Feather River near Clio, Calif.

Location.- Water-stage recorder in center of sec. 23, T. 22 N., R. 12 E., half a mile above Frazier Creek and 1½ miles northwest of Clio. Altitude, about 4,500 feet.

Drainage area.- 699 square miles.

Records available.- October 1925 to September 1934.

Extremes.- Maximum discharge during year, 845 second-feet Jan. 4 (gage height, 4.56 feet); minimum, 4.3 second-feet Sept. 5.
1925-34: Maximum discharge, 11,000 second-feet Mar. 26, 1928 (gage height, 12.0 feet); minimum, that of Sept. 5, 1934.

Remarks.- Records fair. Discharge estimated Feb. 17 to Apr. 14. Numerous small irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	32	27	558	96			64	18	9.5	8.5	6
2	12	25	26	544	91			41	16	10	9	6
3	12	24	32	645	89			39	15	9.5	9.5	6
4	12	23	31	708	89			43	14	8.5	9.5	5.5
5	12	21	29	456	96			37	18	8	9.5	4.3
6	12	20	30	319	126			33	22	8	9	4.6
7	12	20	34	233	152		140	29	21	8	9	4.9
8	13	20	35	170	211			26	17	8	8.5	5
9	13	20	35	138	195			24	16	8.5	8.5	4.9
10	13	20	35	129	174			24	14	8.5	8.5	4.9
11	14	20	36	102	154			23	14	8	9	5
12	14	20	161	95	150			21	13	7.5	8.5	6
13	14	20	247	94	135			20	16	7.5	8.5	6
14	14	20	146	90	124			19	14	7	8.5	6
15	14	20	108	94	135		34	18	12	7	8.5	6.5
16	14	20	108	87	150		34	16	12	7	9	7.5
17	14	22	138	89			28	15	10	7	8.5	7
18	14	25	87	84			28	14	11	7	8.5	7
19	14	27	80	82			28	14	10	7	6	7
20	14	27	78	93			26	14	12	7	6	8
21	14	27	80	87			25	13	19	6.5	6.5	7.5
22	14	46	76	88			26	14	14	6.5	6.5	7
23	14	35	71	119	300		26	14	12	9	6.5	16
24	14	25	62	131			54	14	10	9	6.5	24
25	14	25	64	122			45	21	9.5	9.5	6.5	17
26	14	26	63	162			36	24	14	9.5	6.5	14
27	14	27	61	156			32	18	12	9	7	13
28	14	28	61	142			28	17	12	9.5	8	12
29	29	28	207	121			28	20	11	9	7.5	12
30	137	28	245	110			53	21	10	8.5	7	11
31	55		299	104				17		8.5	6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	137	12	19	1,180
November	45	20	24.7	1,470
December	299	26	90.1	5,540
January	708	82	198	12,200
February			206	11,400
March			230	14,100
April			83.4	4,960
May	64	13	23.5	1,440
June	22	9.5	14.0	833
July	10	6.5	8.23	506
August	9.5	6	7.90	486
September	24	4.3	8.39	499
The year	708	4.3	75.5	54,600

Middle Fork of Feather River at Bidwell Bar, Calif.

Location.- Water-stage recorder in NW¼ sec. 32, T. 20 N., R. 5 E., at highway bridge at Bidwell Bar, 2 miles above junction with North Fork and 7 miles northeast of Oroville. Altitude, about 290 feet.

Drainage area.- 1.353 square miles (revised).

Records available.- October 1911 to September 1934.

Average discharge.- 23 years, 1,630 second-feet.

Extremes.- Maximum discharge during year, 11,100 second-feet Mar. 29 (gage height, 10.55 feet); minimum not known.
1911-34: Maximum discharge, about 100,000 second-feet Mar. 26, 1928 (gage height, 22.8 feet); minimum, 90 second-feet Aug. 27, 1931.

Remarks.- Records good except those for July 24 to Sept. 30, which were estimated. Reservoirs and diversions above station are comparatively small.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	141	690	193	6,080	890	2,540	3,000	1,520	475	215		
2	141	462	200	4,940	890	2,320	2,540	1,300	434	210		
3	143	373	422	3,380	890	2,220	2,170	1,270	407	205		
4	141	334	331	2,880	890	2,120	1,980	1,200	392	195		
5	137	298	264	2,270	690	2,120	1,840	1,130	407	188		
6	135	270	238	1,840	1,010	2,170	1,760	1,040	466	184		
7	133	255	236	1,560	1,410	2,070	1,680	980	525	182		
8	135	249	247	1,340	2,700	1,940	1,680	920	500	182		
9	135	236	238	1,200	2,420	1,840	1,600	862	430	179		
10	133	233	236	1,100	1,890	1,800	1,520	808	384	175		
11	133	230	262	1,010	1,640	1,800	1,480	780	380	173		
12	137	228	1,660	950	1,440	1,800	1,410	730	355	170		
13	139	222	3,380	890	1,340	1,800	1,380	705	348	164		
14	139	218	1,760	862	1,240	1,800	1,300	658	348	159		
15	137	218	1,270	950	1,200	1,800	1,270	617	338	159		
16	135	218	890	835	1,640	1,800	1,240	594	314	159		
17	133	218	695	808	1,520	1,760	1,200	577	295	157		
18	133	212	662	780	1,380	1,720	1,130	555	282	155		
19	133	210	590	755	2,150	1,720	1,070	533	276	153		
20	133	212	599	835	4,010	1,680	1,010	508	267	149		
21	135	212	590	808	3,120	1,680	1,010	483	264	147		
22	137	210	564	780	2,640	1,640	1,010	462	261	147		
23	137	210	542	835	2,940	1,600	1,200	450	258	147		
24	139	225	521	1,130	2,880	1,640	1,300	442	241	146		
25	139	212	496	980	2,540	1,720	1,270	446	236	145		
26	139	202	487	920	3,520	1,760	1,070	504	252	142		
27	139	198	487	950	3,450	1,760	950	538	255	142		
28	139	198	496	980	2,940	5,050	862	491	249	142		
29	164	195	1,400	980		7,610	808	458	238	140		
30	1,670	195	3,590	950		4,460	950	438	225	135		
31	1,500		2,640	920		3,590		454		135		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,670	133	231	14,200
November	690	195	255	15,200
December	3,590	193	845	52,000
January	6,080	755	1,470	90,400
February	4,010	890	1,980	110,000
March	7,610	1,600	2,300	141,000
April	3,000	808	1,420	84,500
May	1,520	438	724	44,500
June	525	225	337	20,100
July	215	135	164	10,100
August			118	7,260
September			109	6,490
The year	7,610		823	596,000

South Fork of Feather River at Enterprise, Calif.

Location.- Water-stage recorder in sec. 6, T. 19 N., R. 6 E., 1 mile above highway bridge at Enterprise. Altitude, about 550 feet. From 1911 to 1930 station was half a mile downstream.

Drainage area.- 134 square miles.

Records available.- October 1911 to September 1934.

Average discharge.- 23 years, 274 second-feet.

Extremes.- Maximum discharge during year, 2,140 second-feet Jan. 1 (gage height, 6.90 feet); minimum, 1.5 second-feet Oct. 11.
1911-34: Maximum discharge, about 15,200 second-feet Mar. 26, 1928 (gage height, 18.0 feet at old station); minimum, 0.2 second-foot Aug. 11, 1917.

Remarks.- Records good. Storage and irrigation diversions above station; see record for Palermo Canal.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	85	19	1,400	165	530	530	256	21	2.8	2.3	2.6
2	6.5	52	23	1,060	165	485	455	196	19	2.8	2.1	2.6
3	6	40	76	700	163	440	390	184	17	2.8	2.1	2.6
4	5.5	31	45	515	162	415	329	166	15	2.8	2.1	2.5
5	5	24	31	402	167	415	286	156	16	2.8	2.1	2.5
6	5	24	28	340	214	415	276	139	27	2.6	2.1	2.5
7	5	23	27	286	318	402	266	124	38	2.6	2.1	2.5
8	5	22	24	252	630	378	256	117	36	2.6	2.1	2.5
9	5	21	16	227	455	365	247	108	24	2.6	2.1	2.5
10	5	24	15	209	365	352	234	100	17	2.6	2.1	2.5
11	6	26	29	191	307	352	218	88	15	2.6	2.1	2.6
12	5.5	26	322	179	276	352	210	78	12	2.8	2.1	2.8
13	5	22	552	169	245	340	201	72	12	2.8	2.1	3.0
14	5	22	266	165	224	329	195	60	12	2.8	2.1	3.0
15	5	21	204	176	249	329	170	52	9	2.6	2.1	3.0
16	4.8	22	137	155	365	329	167	48	7	2.5	2.1	3.0
17	4.5	22	102	145	307	318	166	43	6	2.5	2.1	3.0
18	4.5	21	88	139	276	296	160	39	5	2.5	2.1	3.0
19	4.5	21	72	142	622	307	137	36	4.5	2.5	2.1	3.2
20	4.8	21	71	153	820	307	131	31	4.0	2.5	2.1	3.2
21	4.8	21	70	142	612	296	127	28	3.8	2.3	2.1	3.2
22	5	20	66	139	560	286	132	25	3.3	2.3	2.1	3.3
23	5	20	62	170	648	286	188	22	3.2	2.3	2.3	3.5
24	5	20	59	201	612	286	198	21	3.0	2.5	2.5	6
25	5	19	57	172	530	307	184	22	3.0	2.5	2.5	7
26	5	19	54	162	882	307	145	33	3.2	2.5	2.6	4.5
27	5	19	52	165	820	286	108	34	3.2	2.5	2.6	3.5
28	5	20	52	166	648	636	99	28	3.2	2.5	2.8	3.3
29	14	20	320	167		1,280	94	24	2.8	2.3	2.8	3.0
30	247	19	595	167		760	127	21	2.8	2.3	2.6	3.0
31	200		428	166		648		21		2.3	2.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	247	4.5	19.5	1,200
November	85	19	25.6	1,520
December	595	15	128	7,870
January	1,400	139	285	17,500
February	882	162	422	23,400
March	1,280	286	415	25,500
April	530	94	214	12,700
May	256	21	76.5	4,700
June	38	2.8	11.6	690
July	2.8	2.3	2.56	157
August	2.8	2.1	2.25	138
September	7	2.5	3.18	189
The year	1,400	2.1	132	95,600

Lost Creek near Clipper Mills, Calif.

Location.- Water-stage recorder in sec. 24, T. 20 N., R. 7 E., 1,000 feet below Lost Creek Dam and 2 miles north of Clipper Mills. Altitude, about 3,050 feet.

Drainage area.- 30.1 square miles.

Records available.- October 1927 to September 1934.

Extremes.- Maximum discharge during year, 420 second-feet Jan. 2 (gage height, 3.10 feet); minimum, 0.1 second-foot at times during July, August, and September.
1927-34: Maximum discharge, 2,900 second-feet Mar. 28, 1928 (gage height, 6.10 feet); minimum (regulated), 0.1 second-foot at times 1931-34.

Remarks.- Records good. Discharge estimated Oct. 18 to Nov. 17, Nov. 19 to Dec. 11, Dec. 13-28, Mar. 5-27, and July 24 to Sept. 30. Storage in Lost Creek Reservoir above station on Oct. 1, 1933, was 2,150 acre-feet; it was 1,300 acre-feet on Sept. 30, 1934. For total flow at this point add Forbestown Ditch near Clipper Mills, which diverts water above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5			3.4	52	166	76	84	1.2	0.7		
2	.6			318	51	150	74	48	1.2	.7		
3	.6			236	51	142	68	25	1.1	.6		
4	.6			163	51	134	36	22	1.1	.5		
5	.6			122	51	131	21	20	1.1	.5		
6	.6		2.5	99	73	112	28	16	1.1	.4		
7	.6			86	111	100	36	12	1.2	.3		
8	.6			75	161	90	34	13	1.2	.4		
9	.6			69	111	80	32	12	1.2	.3		
10	.6			64	79	70	27	11	1.2	.2		
11	.6			58	66	67	23	9.5	1.4	.5		
12	.6		2.9	55	56	67	15	8.5	2.9	.9		
13	.6			51	49	63	15	6.5	4.0	.8		
14	.6			54	45	51	9	2.0	2.3	.6		
15	.6			59	65	42	1.9	2.9	1.7	.1		
16	.6			51	87	42	3.8	3.3	1.4	.1		
17	.6			48	66	42	14	3.3	1.4	.1		
18		1.4		46	66	40	8.5	2.9	1.4	.1		
19				47	224	40	4.6	2.6	1.3	.1		
20			2.7	51	226	36	4.6	2.4	1.3	.1		
21				48	148	36	4.8	2.0	1.2	.1		
22				47	158	33	8.5	1.8	1.2	.1		
23				59	179	31	30	1.6	1.1	.1		
24	.6			70	171	28	29	1.5	1.0	.1		
25				59	158	26	26	1.5	.9	.1		
26				55	314	23	13	2.4	.8	.1		
27				55	262	13	1.8	2.9	.8	.1		
28				56	196	11	1.9	2.3	.8	.1		
29			2.6	55		150	3.0	1.7	.7	.1		
30			2.6	55		128	37	1.3	.7	.1		
31			1.8	54		98		1.2		.1		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.60	36.7
November			1.4	83.3
December			2.60	160
January	318	3.4	76.4	4,700
February	314	45	120	6,660
March	166	11	72.3	4,450
April	76	1.8	22.9	1,360
May	84	1.2	10.6	652
June	4.0	.7	1.33	79.1
July	.9	.1	.29	18.1
August			.1	6.1
September			.1	6.0
The year	318	.1	25.1	18,200

Forbestown Ditch near Clipper Mills, Calif.

Location.- Staff gage at Parshall flume in sec. 24, T. 20 N., R. 7 E., 1,100 feet below Lost Creek Dam at mouth of tunnel outlet and 2 miles north of Clipper Mills. Previous to Oct. 24, 1932, gage was 100 feet upstream.

Records available.- October 1927 to September 1934.

Extrsmes.- Maximum mean daily discharge during year, 38 second-feet July 11-14, Sept. 10, 13-14, 21; no flow at times.
1927-34: Maximum mean daily discharge, 39 second-feet July 10-12, 1931; no flow at times.

Remarks.- Records good. Discharge estimated Apr. 30. Canal diverts from left bank of Lost Creek Reservoir. Water is used for irrigation in Oroville-Wyandotte irrigation district in Butte County.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	5.5	24	8	3.1	4.8	19	26	31	32	37	36
2	32	11	24	3.1	3.1	0	0	26	31	34	36	37
3	32	11	24	3.1	3.1	0	0	26	31	34	36	37
4	32	11	10	3.1	3.1	0	0	26	31	34	36	37
5	32	11	10	3.1	3.1	0	17	26	30	34	36	37
6	32	11	10	3.1	3.1	0	17	26	30	34	37	37
7	32	17	10	3.1	3.1	0	17	26	30	34	37	37
8	31	17	11	3.1	3.1	0	17	26	30	34	37	37
9	31	26	11	3.1	11	0	17	26	20	34	36	37
10	31	26	11	3.1	11	0	22	26	20	34	36	38
11	30	26	11	3.1	11	0	22	26	20	38	36	37
12	30	26	11	3.1	17	11	22	26	20	38	36	37
13	30	28	11	3.1	17	11	22	26	20	38	36	38
14	29	23	11	3.1	17	20	22	26	23	38	36	38
15	29	28	11	3.1	17	20	22	26	23	37	37	37
16	28	28	11	3.1	17	20	25	26	23	37	37	37
17	28	28	11	3.1	17	20	25	26	23	37	37	37
18	28	28	11	3.1	17	20	25	26	23	37	37	37
19	28	28	11	3.1	17	20	29	26	23	37	37	37
20	27	28	11	3.1	17	20	29	26	23	37	36	37
21	27	28	11	3.1	17	20	29	26	23	37	36	38
22	27	27	11	3.1	17	20	29	26	23	36	36	37
23	27	27	11	3.1	17	20	29	26	29	36	37	37
24	27	26	11	3.1	4.8	20	29	26	29	36	37	30
25	27	25	11	3.1	4.8	20	29	26	29	36	37	30
26	27	25	11	3.1	4.8	20	29	26	32	37	36	36
27	27	25	11	3.1	4.8	20	29	26	32	36	37	36
28	26	24	11	3.1	4.8	0	29	26	32	36	37	36
29	26	24	8	3.1		0	29	31	32	37	36	35
30	12	24	8	3.1		0	29	31	32	37	37	35
31	0		8	3.1		19		31		37	37	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	33	0	27.7	1,700
November	28	5.5	22.6	1,340
December	24	8	11.8	726
January	8	3.1	3.26	200
February	17	3.1	10.2	566
March	20	0	10.5	646
April	29	0	22.0	1,310
May	31	26	26.5	1,630
June	32	20	26.6	1,580
July	38	32	35.9	2,210
August	37	36	36.5	2,240
September	38	30	36.4	2,170
The year	38	0	22.6	16,300

Palermo Canal at Enterprise, Calif.

Location.- Staff gage in sec. 6, T. 19 N., R. 6 E., 400 feet below intake at diversion dam on South Fork of Feather River and 1 mile southeast of Enterprise.

Records available.- October 1911 to September 1934.

Average discharge.- 23 years, 19.3 second-feet.

Extremes.- Maximum mean daily discharge during year, 32 second-feet several days in May and June; no flow Apr. 20-23.
1911-34: Maximum discharge recorded, 43 second-feet July 25, 1927; no flow during periods of every year.

Remarks.- Records good. Canal diverts from left bank of South Fork of Feather River 1 mile above Enterprise. Water is used for irrigation below Oroville.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.5	3.3	0.8	15	14	13	14	17	32	22	15	11
2	9	3.3	.8	14	14	13	14	17	32	23	16	11
3	9	3.3	.8	14	14	13	14	17	32	22	15	11
4	9	3.0	2.0	14	14	13	14	17	32	22	15	11
5	10	3.0	1.9	14	14	13	14	18	31	22	15	11
6	10	3.0	1.8	14	15	13	13	18	30	21	15	10
7	10	3.0	1.8	15	15	13	13	18	30	20	15	10
8	9.5	3.0	1.8	13	13	13	13	18	32	20	14	9.5
9	8.5	2.8	10	12	13	13	12	18	32	20	14	9.5
10	8.5	2.8	10	15	13	13	12	18	30	20	14	10
11	10	1.8	10	15	13	13	12	23	32	20	13	8
12	10	1.8	13	14	13	13	11	26	32	20	13	8
13	10	1.8	14	14	12	12	11	26	32	20	13	8
14	10	1.6	14	14	13	12	11	28	32	19	13	8
15	10	1.6	14	14	13	12	12	29	32	19	13	8
16	10	1.3	14	14	13	12	11	30	30	19	13	8
17	10	1.1	14	14	13	11	11	32	30	18	12	8
18	10	.9	14	14	14	11	11	32	29	18	12	8
19	10	.9	14	14	14	12	11	31	29	18	12	7.5
20	10	.9	14	14	14	12	0	31	28	18	12	8
21	10	.9	14	14	15	13	0	31	28	17	12	8
22	10	.9	14	14	15	13	0	31	27	17	12	8.5
23	10	.9	14	14	15	13	0	31	26	16	12	9
24	10	.9	14	11	15	13	15	31	26	16	12	13
25	10	.9	14	11	15	13	16	32	25	16	12	16
26	10	.9	14	11	14	13	16	32	27	16	12	13
27	10	.9	15	13	14	13	16	32	26	16	12	12
28	10	.9	15	13	14	14	16	31	26	16	12	12
29	11	.8	19	13		15	16	31	26	15	12	11
30	1.8	.8	15	13		14	16	32	23	15	11	11
31	1.8		15	13		14		32		13	11	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	11	1.8	9.28	571
November	3.3	.8	1.77	105
December	19	.8	10.6	652
January	15	11	13.6	836
February	15	12	13.9	772
March	15	11	12.8	787
April	16	0	11.5	684
May	32	17	26.1	1,600
June	32	23	29.3	1,740
July	23	13	18.5	1,140
August	16	11	13.0	799
September	16	7.5	9.90	589
The year	32	0	14.2	10,300

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Middle Fork of Yuba River at Milton, Calif.

Location.- Water-stage recorder in SW¼ sec. 12, T. 19 N., R. 12 E., at diversion dam of Nevada Irrigation District at old town site of Milton, 8 miles above South Fork of Middle Fork of Yuba River. Altitude, about 5,700 feet.
Drainage area.- 41 square miles.
Records available.- December 1925 to September 1934.
Extremes.- 1928-34: Maximum discharge, 4,070 second-feet Mar. 25, 1928 (gage height, 9.45 feet at station below dam); practically all flow diverted after May 23, 1928, except during high stages.
Remarks.- See record for Milton-Bowman Tunnel at outlet, which diverts water above station to Bowman Lake. There was no flow over diversion dam during year ending Sept. 30, 1934.

Middle Fork of Yuba River near North San Juan, Calif.

Location.- Water-stage recorder in NE¼ sec. 32, T. 18 N., R. 8 E., about 1 mile below highway bridge at Freemans Crossing and 1 mile north of North San Juan. Oregon Creek enters about 1 mile above station. Altitude, about 1,350 feet.
Drainage area.- 207 square miles.
Records available.- July to October 1900, October 1910 to September 1934.
Average discharge.- 23 years (1911-34), 412 second-feet. (Since 1928 flow has been reduced by Milton-Bowman Tunnel diversion.)
Extremes.- Maximum discharge during year, 2,970 second-feet Mar. 29 (gage height, 6.52 feet); minimum, 17 second-feet Sept. 9.
1910-34: Maximum discharge, 26,000 second-feet Mar. 25, 1928 (gage height, 15.3 feet at former staff gage station); minimum, 14 second-feet Aug. 24-28, 1931.
Remarks.- Records good. Discharge estimated May 29 to June 2, June 10. Diversion above station through Milton-Bowman Tunnel to Bowman Lake; other small diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	135	36	1,680	130	454	475	268	76	36	21	19
2	23	90	36	1,110	128	398	406	224	76	37	21	19
3	23	78	86	606	126	373	349	224	76	34	21	18
4	22	70	80	430	124	346	314	210	78	33	21	18
5	21	60	54	334	124	342	284	194	87	32	21	18
6	21	54	49	274	157	330	271	177	104	31	21	18
7	21	50	46	231	193	305	259	170	85	30	21	18
8	21	48	49	198	407	284	253	160	74	30	21	18
9	21	45	48	180	330	270	244	153	73	31	20	18
10	21	43	45	167	267	260	232	143	73	30	20	18
11	21	43	48	152	228	253	224	134	73	30	20	18
12	22	41	269	143	204	250	218	127	67	29	19	18
13	22	40	942	133	182	250	216	118	70	28	19	18
14	22	39	454	130	172	247	207	114	66	27	19	18
15	22	39	305	130	187	247	205	110	60	27	19	18
16	21	40	207	120	277	247	197	106	55	27	19	18
17	21	40	150	114	237	247	189	102	53	26	19	18
18	21	39	128	110	221	237	174	98	50	26	18	18
19	21	38	116	110	509	237	165	94	50	25	18	18
20	20	37	116	122	678	231	158	90	48	25	18	18
21	21	37	124	118	486	228	148	83	47	25	18	19
22	22	36	126	114	435	221	155	80	46	25	18	19
23	22	36	126	135	606	231	194	78	45	25	18	21
24	22	36	124	198	665	247	216	74	42	25	19	41
25	22	36	126	185	524	244	274	87	42	25	19	51
26	22	36	124	143	786	244	205	90	50	25	19	33
27	22	36	122	141	734	237	179	83	48	24	20	28
28	23	36	120	141	552	494	160	76	45	23	22	25
29	50	36	258	141		1,960	148	76	41	22	22	25
30	442	36	748	137		835	162	76	39	22	20	25
31	298		619	135		589		76		22	19	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	442	20	45.0	2,770
November	135	36	47.7	2,840
December	942	36	190	11,700
January	1,680	110	259	15,900
February	786	124	345	19,200
March	1,960	221	366	22,500
April	475	148	229	13,600
May	268	74	126	7,750
June	104	39	61.3	3,650
July	37	22	27.6	1,700
August	22	18	19.7	1,210
September	51	18	21.6	1,290
The year	1,960	18	144	104,000

Yuba River at Smartville, Calif.

Location.- Water-stage recorder in SW¼ sec. 22, T. 16 N., R. 6 E., at Narrows, 1 mile below mouth of Deer Creek and 1 mile north of Smartville Altitude, about 280 feet.

Drainage area.- 1,201 square miles.

Records available.- June 1903 to September 1934.

Average discharge.- 31 years, 2,940 second-feet.

Extremes.- Maximum discharge during year, 16,200 second-feet Mar. 29 (gage height, 15.20 feet); minimum, 141 second-feet Sept. 6.
1903-34: Maximum discharge, 120,000 second-feet Mar. 26, 1928 (gage height, 26.0 feet); minimum, 71 second-feet (regulated flow) July 30, 1924.

Remarks.- Records excellent. Discharge estimated Nov. 11-13, July 14-27. Storage and diversions for power and irrigation above station. Lake Spaulding has a capacity of 70,500 acre-feet, Bowman Lake, 67,000 acre-feet, and Fordyce Lake, 42,000 acre-feet.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	168	700	332	10,500	960	3,050	3,860	1,700	502	238	196	153
2	165	490	356	7,510	960	2,690	3,330	1,700	453	235	190	153
3	162	400	585	3,860	900	2,510	2,780	1,600	419	224	184	153
4	170	376	630	2,670	900	2,420	2,200	1,530	406	242	171	150
5	162	360	458	2,340	900	2,420	2,160	1,420	431	238	171	150
6	158	356	422	1,900	1,050	2,420	2,200	1,300	517	238	168	153
7	158	352	409	1,600	1,460	2,340	2,160	1,240	690	238	165	144
8	155	348	404	1,430	2,690	2,140	2,200	1,180	674	235	165	147
9	192	344	404	1,290	2,600	2,020	2,120	1,120	571	235	165	150
10	162	328	392	1,150	2,020	1,940	1,840	1,060	453	238	162	150
11	160	334	392	1,050	1,710	1,940	1,670	1,030	457	235	159	150
12	160	340	1,160	990	1,500	1,940	1,640	970	427	235	156	150
13	160	346	2,960	930	1,360	2,020	1,600	882	406	220	162	156
14	155	352	2,780	900	1,260	2,020	1,530	838	419	220	162	156
15	152	348	2,340	900	1,220	1,940	1,740	784	423	219	165	156
16	150	356	1,640	845	1,860	1,940	2,040	718	389	219	165	156
17	152	352	1,150	784	1,680	1,940	1,560	664	344	218	168	156
18	150	348	960	746	1,500	1,860	1,420	669	320	218	165	153
19	148	348	845	735	2,740	1,860	1,360	633	308	217	165	153
20	148	344	790	818	4,100	1,860	1,330	607	308	217	159	156
21	145	348	768	818	3,230	1,780	1,300	561	296	216	153	156
22	150	348	779	790	2,690	1,740	1,270	536	292	216	153	156
23	152	352	779	845	3,230	1,740	1,530	546	288	215	153	162
24	152	352	768	1,290	3,740	1,820	1,920	522	280	215	156	210
25	150	348	757	1,150	3,050	1,860	1,920	502	272	214	156	272
26	145	352	752	1,020	4,500	1,980	1,530	551	231	214	159	235
27	145	340	746	990	4,920	1,900	1,330	622	238	213	162	203
28	150	336	735	990	3,630	2,870	1,210	536	235	213	165	190
29	173	340	1,820	990		12,200	1,120	507	242	196	171	187
30	974	340	5,400	960		6,620	1,090	470	238	196	165	180
31	1,500		3,980	990		4,100		457		196	159	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,500	145	227	14,000
November	700	328	366	21,800
December	5,400	332	1,180	72,600
January	10,500	735	1,740	107,000
February	4,920	900	2,210	123,000
March	12,200	1,740	2,640	162,000
April	3,860	1,090	1,830	109,000
May	1,700	457	886	54,500
June	690	231	384	22,800
July	242	196	222	13,600
August	196	153	165	10,100
September	272	144	167	9,940
The year	12,200	144	996	720,000

Milton-Bowman Tunnel at outlet, Calif.

Location.- Water-stage recorder in sec. 3, T. 18 N., R. 12 E., near upper end of Bowman Lake. Altitude, about 5,600 feet.

Records available.- May 1928 to September 1930; October 1931 to September 1934.

Extremes.- Maximum mean daily discharge during year, 422 second-feet Mar. 29; minimum, 1.6 second-feet Sept. 14-15.
1928-34: Maximum mean daily discharge, 452 second-feet May 10-12 and June 11-13, 1932; minimum, that of Sept. 14-15, 1934.

Remarks.- Records good except those estimated, which are fair. Water is diverted by this tunnel from Middle Fork of Yuba River at Milton, in sec. 12, T. 19 N., R. 12 E., and discharged into Bowman Lake storage reservoir, from which it is conveyed to Lake Spaulding. During low and medium stages practically entire flow of Middle Fork of Yuba River is diverted. Gage-height record and results of discharge measurements furnished by Nevada Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	31	7	40	29	39	307	153	39	9	3.8	1.8
2	*3.5	20		35	32	40	255	158	36	9	3.7	2.0
3	*3.0	*15		32	33	45	211	184	32	7.5	3.7	1.8
4	2.6			32	34	51	198	178	30	7.5	3.5	2.0
5	2.9			30	37	66	200	170	35	6.5	3.3	2.1
6	2.9			29	41	76	209	163	49	6.5	3.3	2.1
7	*3.0		*9	27	46	77	229	*150	52	6.5	3.3	2.2
8	*3.2			25	55	77	245	*140	45	6.5	3.3	2.3
9	3.3			24	54	85	241	132	37	6.5	3.1	2.3
10	*3.4	*11		24	50	95	231	*120	32	6	2.9	2.3
11	*3.4			23	46	98	239	*110	34	*6	3.1	2.3
12	3.5		20	23	43	114	*240	*100	28	*6	3.1	2.2
13	*3.4		44	22	41	128	*240	*90	31	*6	2.9	2.0
14	3.3		37	21	40	143	*235	*82	28	*5.5	2.8	1.6
15	3.3		29	21	40	153	*240	*75	25	*5.5	2.8	1.6
16	*3.5		23	20	40	165	*235	*70	22	*5.5	2.6	1.7
17	3.7	10	20	20	38	165	*225	*65	20	*5	2.4	1.8
18	*3.7		18	20	38	171	*215	*60	17	*5	2.8	1.7
19	3.7		18	20	49	187	*205	*55	16	*4.9	2.8	1.7
20	3.7		16	21	55	174	*195	*52	16	*4.8	2.9	1.8
21	*3.7		16	21	92	187	*190	*47	15	4.8	2.9	1.7
22	3.7		16	21	57	189	*200	*44	14	4.5	2.9	1.7
23	*3.7		15	23	47	193	*230	*44	12	4.5	2.6	2.0
24	*3.7	*8	14	26	45	215	241	*45	12	4.2	2.3	2.0
25	3.7		14	24	44	243	212	45	11	4.2	2.3	2.0
26	*3.7		14	24	44	251	185	49	12	4.2	2.2	2.0
27	3.7		15	25	41	239	168	51	12	4	2.1	2.0
28	3.8		15	27	40	393	153	45	12	3.8	2.0	2.0
29	*5.5		21	28		422	144	43	10	3.8	1.8	2.0
30	*50		32	29		418	146	45	10	3.7	1.7	*2.0
31	*42		30	29		365		44		3.8	1.7	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	50	2.6	6.38	392
November	31		10.8	643
December	44		16.9	1,040
January	40	20	25.4	1,560
February	92	29	44.7	2,480
March	422	39	170	10,500
April	307	144	215	12,800
May	184	43	90.6	5,570
June	52	10	24.8	1,480
July	9	3.7	5.52	339
August	3.8	1.7	2.79	172
September	2.3	1.6	1.96	117
The year	422	1.6	51.2	37,100

*Estimated.

Oregon Creek near North San Juan, Calif.

Location.- Water-stage recorder installed Nov. 2, 1933 in SW¼ sec. 22, T. 18 N., R. 8 E., 1 mile above mouth of Oregon Creek and 3 miles northeast of North San Juan. Records previous to October 1933 were obtained at staff-gage station 0.7 mile downstream. Altitude, about 1,500 feet. Records prior to Nov. 1, 1933 obtained from staff gage at present site.

Drainage area.- 35.1 square miles (36.1 square miles at former station).

Records available.- October 1933 to September 1934; October 1910 to September 1933 at site 0.7 mile downstream.

Average discharge.- 23 years (1911-34), 69.3 second-feet.

Extremes.- Maximum discharge during year, 566 second-feet Jan. 1 (gage height, 5.7 feet); minimum, 0.7 second-foot parts of several days in September.
1910-34: Maximum discharge, about 5,200 second-feet Mar. 25, 1928 (gage height, 9.5 feet, at old gage); minimum, 0.7 second-foot several days in July and August 1931 and September 1934.

Remarks.- Records fair. Discharge estimated Oct. 12, 14-30, Dec. 19-28. Small diversions for irrigation and mining above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	22	3.4	322	23	128	55	42	8.5	2.8	1.3	1.0
2	1.9	11	3.7	175	22	106	49	32	8	3.0	1.3	1.0
3	1.9	9	14	124	22	92	42	28	6.5	2.7	1.2	.8
4	1.9	7	14	92	21	80	39	27	7	2.3	1.2	.9
5	1.9	6	8	69	21	73	35	25	9	2.3	1.2	.9
6	1.9	5.5	6.5	55	28	68	32	23	15	2.5	1.2	.9
7	1.8	5.5	6	45	36	62	28	20	15	2.3	1.0	1.0
8	1.4	4.8	5.5	39	99	57	27	20	12	2.5	1.0	.9
9	1.4	4.4	5.5	34	78	52	25	18	10	2.7	1.0	.9
10	1.4	4.1	5.5	31	63	49	24	17	9.5	2.5	1.0	.8
11	1.6	4.1	6	28	52	45	22	16	10	2.3	1.0	.8
12	1.6	4.1	35	26	44	43	20	15	9	2.3	1.0	.8
13	1.6	3.9	136	24	40	40	20	14	8	2.1	1.0	.8
14		3.9	79	24	36	38	19	13	8	2.1	1.0	.8
15		3.9	48	25	40	36	18	13	6.5	2.1	1.0	.8
16		3.9	32	22	64	34	17	12	4.8	1.9	1.0	.8
17		3.7	21	20	55	34	17	12	5	1.9	1.0	.8
18		3.7	20	20	51	32	16	12	5	1.8	.9	.8
19		3.7		20	128	30	15	11	4.6	1.6	.9	.8
20		3.7		21	172	29	14	10	4.6	1.6	.9	.8
21		3.7		20	130	28	12	9.5	4.1	1.4	.9	.8
22	1.8	3.7		20	118	27	13	9	4.6	1.4	.9	.9
23		3.7	17	26	160	27	18	8.5	4.4	1.4	.9	1.2
24		3.4		38	174	27	20	7.5	3.9	1.4	.9	4.2
25		3.4		30	136	25	36	9	3.9	1.6	.9	5.5
26		3.4		28	247	24	22	12	4.6	1.4	1.0	2.7
27		3.7		27	212	25	19	9.5	4.8	1.4	1.0	1.8
28		3.4		26	156	54	17	8	4.1	1.4	1.0	1.4
29		3.4	35	25		110	15	8	3.7	1.3	1.0	1.4
30	60	3.4	124	24		70	18	8.5	3.2	1.3	1.0	1.6
31	44		102	24		66		8.5		1.3	1.0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	60		5.00	307
November	22	3.4	5.10	303
December	136	3.4	28.4	1,750
January	322	20	48.5	2,980
February	247	21	86.7	4,820
March	128	24	52.0	3,200
April	55	12	24.1	1,430
May	42	7.5	15.4	947
June	15	3.2	6.92	412
July	3.0	1.3	1.95	120
August	1.3	.9	1.02	62.7
September	5.5	.8	1.29	76.8
The year	322	.8	22.7	16,400

North Fork of Yuba River near Sierra City, Calif.

Location.- Water-stage recorder in NW¼ sec. 32, T. 20 N., R. 12 E., 2½ miles below mouth of South Fork of North Fork of Yuba River and 1½ miles west of Sierra City. Altitude, about 4,100 feet.

Drainage area.- 93.4 square miles.

Records available.- 1911-13 (fragmentary), December 1923 to September 1934.

Average discharge.- 10 years (1924-34), 186 second-feet.

Extremes.- Maximum discharge during year, 1,470 second-feet Mar. 29 (gage height, 5.20 feet); minimum, 26 second-feet parts of Aug. 22 and 23.
1923-34: Maximum discharge, about 5,920 second-feet Mar. 25, 1928 (gage height, 8.50 feet); minimum, 26 second-feet Oct. 15, 1931, and parts of Aug. 22 and 23, 1934.

Remarks.- Records good except those for Oct. 30 to Nov. 2, which were estimated. Small diversions for mining above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39	100	46	198	92	136	419	224	91	50	33	29
2	38	85	47	174	95	139	366	224	85	48	33	28
3	38	76	48	156	97	149	321	246	82	47	33	29
4	38	66	46	142	100	154	307	240	81	46	33	29
5	38	59	46	126	105	178	304	226	89	47	32	29
6	38	56	48	116	117	184	310	218	119	46	33	29
7	38	54	50	107	125	178	324	210	113	45	33	29
8	38	54	49	101	151	172	330	205	102	44	33	29
9	38	54	49	95	129	182	318	194	91	44	32	29
10	38	53	50	94	118	192	313	186	86	43	32	29
11	38	51	57	89	112	194	321	179	86	42	31	29
12	38	50	184	87	110	216	327	174	82	42	30	29
13	38	51	174	83	107	228	324	166	88	42	31	29
14	38	54	114	82	104	240	318	156	80	42	31	29
15	38	54	97	81	107	250	318	150	76	41	31	29
16	38	53	86	77	107	261	313	142	70	41	30	27
17	38	51	81	76	104	256	294	135	68	41	30	28
18	38	50	76	75	105	256	279	130	67	40	29	28
19	38	50	75	76	156	266	272	125	66	40	29	29
20	38	49	74	83	149	258	268	117	64	40	29	29
21	38	48	72	78	134	261	265	112	64	39	29	29
22	38	48	71	78	134	258	263	103	61	38	29	29
23	38	47	70	94	139	263	304	101	58	39	28	34
24	38	47	70	94	134	286	307	97	56	39	27	40
25	38	46	70	88	134	343	294	99	57	39	29	38
26	38	46	70	87	142	321	279	116	63	37	29	40
27	38	46	70	88	139	334	250	105	62	33	33	39
28	38	45	68	88	137	676	230	98	57	33	38	39
29	71	44	116	89		1,030	210	93	54	32	31	39
30	400	46	148	90		602	208	101	52	33	30	37
31	175		137	90		476		90		33	29	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	400	38	55.2	3,390
November	100	44	54.4	3,240
December	184	46	79.3	4,880
January	198	75	99.4	6,110
February	156	92	121	6,720
March	1,030	136	288	17,700
April	419	208	299	17,800
May	246	90	154	9,470
June	119	52	75.7	4,500
July	50	32	40.8	2,510
August	38	27	31.0	1,910
September	40	27	31.3	1,860
The year	1,030	27	111	80,100

North Fork of Yuba River below Goodyears Bar, Calif.

Location.- Water-stage recorder in SW¼ sec. 11, T. 19 N., R. 9 E., 4 miles southwest of Goodyears Bar. Altitude, about 2,450 feet.

Drainage area.- 244 square miles.

Records available.- December 1930 to September 1934.

Extremes.- Maximum discharge during year, 5,620 second-feet Mar. 29 (gage height, 9.75 feet); minimum, 73 second-feet Sept. 17.
1930-34: Maximum discharge, that of Mar. 29, 1934; minimum, 69 second-feet Aug. 26, 1931.

Remarks.- Records excellent. Stage-discharge relation slightly affected by a temporary dam Oct. 1-11. Several small irrigation and mining diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	105	246	119	1,610	292	660	1,240	690	252	142	94	79
2	105	218	121	1,050	301	622	1,090	672	244	141	94	78
3	105	198	156	740	301	622	945	750	229	136	94	78
4	105	180	138	605	301	622	878	710	222	132	95	78
5	105	164	130	474	319	680	855	655	244	131	94	77
6	104	152	128	432	370	680	855	620	314	131	94	76
7	104	149	132	382	432	640	878	602	304	129	94	77
8	104	145	137	348	700	605	878	568	286	127	92	77
9	104	142	131	328	536	622	855	533	244	125	91	77
10	104	140	131	310	460	622	810	500	229	124	88	78
11	105	137	136	292	406	622	832	484	229	120	87	79
12	106	135	585	276	382	660	832	469	229	118	87	79
13	106	134	1,050	268	359	680	810	439	229	117	86	79
14	106	134	504	260	338	700	790	410	215	115	87	77
15	106	137	382	260	370	700	810	383	202	115	86	77
16	106	136	284	246	406	740	790	358	190	114	86	76
17	106	133	246	239	370	720	730	346	184	113	85	76
18	106	130	232	239	382	700	690	324	184	112	85	76
19	106	128	225	239	828	740	672	314	178	110	84	76
20	106	128	225	268	868	700	655	304	178	109	83	77
21	108	126	225	246	700	720	655	295	172	107	83	77
22	108	125	225	246	660	700	655	277	166	107	82	78
23	107	125	225	317	720	700	790	286	160	106	81	117
24	107	124	225	338	740	760	810	268	156	106	81	150
25	107	122	232	292	680	890	770	286	158	106	81	121
26	107	121	232	284	935	845	690	304	178	104	82	111
27	107	121	232	292	890	822	620	286	168	99	86	108
28	107	121	225	301	740	2,340	585	260	158	98	94	107
29	181	116	608	301		3,580	533	252	151	95	87	106
30	922	118	890	301		1,920	602	268	145	95	83	103
31	402		740	301		1,450		252		95	81	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	922	104	144	8,850
November	246	116	143	8,510
December	1,050	119	298	18,300
January	1,610	239	390	24,000
February	935	292	528	29,300
March	3,580	605	905	55,600
April	1,240	533	787	46,800
May	750	252	425	26,100
June	314	145	207	12,300
July	142	95	115	7,070
August	95	81	87.3	5,370
September	150	76	87.5	5,210
The year	3,580	76	342	247,000

Bowman Lake near Graniteville, Calif.

Location.- Staff gage at Bowman Dam, on Canyon Creek, in SW¼ sec. 5, T. 18 N., R. 12 E., 4 miles east of Graniteville.

Records available.- December 1926 to September 1934.

Remarks.- Bowman Lake provides storage for Nevada Irrigation District, capacity, 68,000 acre-feet. Elevation of crest of dam, 5,567 feet above mean sea level. Storage began in the latter part of December 1926, exact date not known. Gage-height record furnished by Nevada Irrigation District.

In the following tables, which give the contents of the reservoir, there was no record for days omitted after Nov. 22, 1926, except the following periods, when the contents was less than 1,000 acre-feet: Dec. 1, 1928, to Feb. 21, 1929, Dec. 18, 1930, to Jan. 4, 1931, Feb. 20-28, Mar. 1-3, 5-19, 28-31, Apr. 1, Oct. 10 to Dec. 8, 1931, Mar. 13 to Apr. 3, 1933, Feb. 16 to Mar. 15, 1934.

Contents, in acre-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					2,840	11,560	12,240	13,800	28,980	49,660		40,000
2					3,000	11,840	12,280	14,280	29,640	49,800		39,580
3				2,100	3,200	12,000	12,280	14,600	30,360	50,040		39,440
4					3,400	12,000	12,280	15,700	31,080	50,040		39,160
5					3,520	11,920	12,240	16,200	31,920	50,120		38,610
6				1,950	3,720	11,920	12,200	16,450	32,940	50,040		38,530
7					3,850	11,920	12,000	16,350	33,840	49,880		38,320
8					3,950	11,920	11,880	16,150	34,920	49,880		38,040
9				1,400	4,100	11,920	11,800	16,650	35,880	50,040		37,830
10					4,200	11,960	11,640	17,200	36,720	50,200		37,550
11					4,250	11,880	11,360	17,900	37,760	50,200		37,340
12				1,800	4,300	11,800	11,280	17,800	38,740	50,040		37,080
13					4,400	12,000	11,200	17,750	39,860			36,780
14					4,520	12,280	11,040	17,700	40,490	49,730		36,480
15					4,750	12,400	11,200	17,750	41,400	49,590		36,120
16					4,980	12,400	11,320	17,750	42,450	49,380		35,820
17					5,250	12,360	11,480	18,550	43,220	49,310		35,760
18					5,550	12,320	11,640	19,550	43,920	49,100		35,460
19					5,880	12,160	11,840	20,600	44,690	48,820		35,160
20					6,600	12,000	12,120	21,650	45,250	48,610		34,800
21				1,300	9,400	11,920	12,400	22,300	45,740	48,330		34,440
22					10,200	11,920	12,840	22,750	46,230	48,050		34,140
23					10,600	11,960	12,880	23,250	46,790	47,700		33,840
24				1,650	10,400	12,000	13,040	23,880	47,350	47,420		33,480
25				2,160	10,120	12,040	13,440	24,780	47,840	47.140		33,120
26				2,200	10,360	11,880	14,080	25,860	48,330	47,140		32,880
27				2,120	10,880	12,160	14,120	26,820	48,750	47,140	41,400	32,520
28				2,340	11,200	12,240	13,920	27,180	49,100	47,140	41,120	32,280
29				2,540			13,600	27,600	49,380	47,140	40,770	32,100
30				2,680			13,120	28,140	49,660	47,140	40,420	31,860
31			1,200	2,760		12,280		28,560		46,930	40,280	

Contents, in acre-feet, of Bowman Lake near Graniteville, Calif., 1926-34-- Continued.

1927-28

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31,500	22,200	21,900	17,150	13,640	18,350		50,600	66,760	61,720	47,560	34,200
2	31,200	21,950	21,850	16,950	13,680	18,400		51,560	66,600	61,320	47,350	33,840
3	30,900	21,700	21,800	16,700	13,720	18,650	40,700	51,880	66,520	60,840	47,070	33,120
4	30,660	21,450	21,750	16,500	13,760	18,900	40,980	52,360	66,360	60,280	46,580	32,760
5	30,420	21,200	21,650	16,350	14,320	19,050	41,260	52,920	66,280	59,960	46,020	32,040
6	30,180	20,950	21,550	16,150	14,440	19,100	41,400	53,480	66,200	59,400	45,390	31,500
7	30,000	20,800	21,450	16,000	14,520	19,200	41,890	54,200	66,040	59,080	44,760	31,020
8	29,520	20,950	21,250	15,850	14,520	19,300	42,100	54,920	66,120	58,440	44,270	30,600
9	29,100	21,150	21,050	15,650	14,560	19,400		55,480	66,200	57,880	43,850	30,240
10	28,560	21,950	20,950	15,400	14,560	19,550		56,040	66,280	57,480	43,220	29,880
11	28,320	22,650	20,800	15,200	14,600	19,800	42,940	56,440	66,280	56,920	42,800	29,520
12	27,960	21,550	20,650	15,000	15,000	19,800	43,500	57,400	66,280	56,600	42,590	29,340
13	27,660	21,950	20,550	14,840	15,500	19,950	43,640	57,960	66,360	56,200	42,030	29,220
14	27,360	22,950	20,450	14,680	15,900	20,100		58,440	66,360	55,560	41,610	29,160
15	26,880	23,460	20,300	14,480	16,300	20,250	44,060	58,680	66,280	55,160	41,120	29,040
16	26,520	23,350	20,100	14,320	16,650	20,400		59,160	65,960	54,760	40,280	28,920
17	26,280	23,250	19,850	14,240	17,050	20,550	44,970	59,560	66,040	54,200	39,860	28,800
18	25,860	23,100	19,650	14,200	17,250	20,700	45,390	60,040	66,040	53,800	39,440	28,380
19	25,680	22,950	19,450	14,160	17,400	20,900	45,740	60,280	65,960	53,320	39,160	28,080
20	25,320	22,800	19,300	14,120	17,550		45,880	60,600	65,800	52,840	38,670	27,960
21	25,080	22,950	19,150	14,040	17,750		46,160	60,840	65,800	52,280	38,390	27,600
22	24,840	22,900	18,950	14,000	17,900	21,400	46,440	61,800	65,640	51,880	38,040	27,000
23	24,540	22,850	18,800	13,960	18,100	22,000	46,790	62,600	65,240	51,320	37,620	26,520
24	24,360	22,800	18,650	13,920	18,200	22,950	47,210	63,400	64,760	50,920	37,270	26,160
25	24,180	22,600	18,350	13,880	18,250	28,020	47,490	64,200	64,360	50,440	36,720	25,860
26	24,000	22,550	18,100	13,840	18,250	34,320	47,770	64,840	63,800	49,960	36,180	25,380
27	23,640	22,400	17,950	13,800	18,300	37,200	48,190	65,400	63,400	49,520	35,400	24,840
28	23,250	22,300	17,800	13,720	18,300		48,610	65,880	63,000	49,030	35,160	24,360
29	22,950	22,100	17,650	13,680	18,350		49,100	66,440	62,600	48,610	34,920	23,760
30	22,650	22,000	17,550	13,640		39,300	49,520	66,600	62,120	48,260	34,740	23,300
31	22,400		17,350	13,640		39,650		66,760		47,910	34,560	

1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22,900	8,640				1,530	2,300	15,850	48,120	59,160	49,240	40,980
2	22,500	8,160				1,590	3,100	17,150	48,330	58,680	49,030	40,700
3	22,050	7,980				1,590	3,440	18,300	48,470	58,280	48,820	40,350
4	21,450	7,800				1,620	3,880	19,350		57,960	48,610	40,000
5	20,900					1,640	4,320	20,300	48,610	57,560	48,400	39,650
6	20,600					1,710	4,680	21,350	48,680	57,240	48,190	39,370
7	20,050	7,350				1,770	5,000	21,900	48,960	56,760	48,050	39,020
8	19,600	7,140				1,700		23,300	49,240	56,360	47,770	38,670
9	19,150	6,930				1,640	5,790	24,840	49,520	56,120	47,700	38,320
10	18,700	6,720				1,760	6,090	26,100	49,880	55,800	47,350	37,970
11	18,100	6,510				1,760		27,540	50,280	55,560	47,140	37,620
12	17,650	6,240				1,700	6,660	28,920	50,600	55,240	46,860	37,270
13						1,590	6,930	30,120	50,920	54,920	46,580	37,020
14	17,100	5,730				1,480	7,230	31,680	51,160	54,600	46,230	36,600
15	16,700					1,430	7,440		51,800		46,020	36,300
16	16,050	5,190				1,360	7,770	33,600	53,800	53,960	45,670	35,940
17	15,650					1,260		34,800	55,160	53,640	45,320	35,580
18	15,080	4,680				1,200	8,910	36,240	56,040	53,320	45,040	35,220
19	14,600	4,450				1,120	9,480	37,200	56,680	53,080	44,690	34,980
20	14,120					1,030	9,800	38,530	57,240	52,760	44,410	34,620
21	13,680	3,900				1,000	10,240	39,300		52,520	44,130	34,320
22		3,580			1,200	1,450		40,910	57,960	52,200	43,850	33,960
23		3,360			1,320	1,660	11,160	42,100		51,800	43,570	33,540
24		3,060			1,400	1,710	11,600	43,150	58,600	51,480	43,220	33,120
25		2,780			1,440	1,660	12,000	44,130	58,760	51,240	42,940	32,700
26	11,400	2,380			1,470	1,460	12,440	45,110	59,000	50,920	42,660	
27					1,480	1,480	12,920	45,740	59,160	50,600	42,380	31,920
28	10,520	1,960			1,500	1,820	13,480	46,370	59,240	50,280		31,500
29		1,560				1,900		47,140		49,960	41,820	31,080
30		1,220				2,000	14,720	47,560	59,320	49,660	41,540	30,660
31	8,910					2,010		47,910		49,450	41,260	

Contents, in acre-feet, of Bowman Lake near Graniteville, Calif., 1926-34 -- Continued.

1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30,300	15,800	2,880	15,500	9,120	7,470	12,040	42,100	67,080	66,200	54,840	42,800
2	29,940	15,280	2,800	14,840	8,910	7,350	12,680	43,010	66,280	65,800	54,440	42,380
3	29,520	14,880	2,780	14,640	8,760	7,230	13,240	44,200	66,120	65,480	54,040	41,960
4	29,100	14,440	2,780	14,400	8,640	7,140	13,800	45,180	66,120	65,080	53,640	41,540
5	28,680	14,080	2,780	14,200	8,520	7,050	14,560	45,880	66,120	64,680	53,240	41,120
6	28,260	13,680	2,860	14,000	8,400	6,930	15,280	46,580	66,280	64,200	52,840	40,770
7	27,780	13,280	3,180	13,840	8,310	6,810	16,050	47,350	66,360	63,800	52,440	40,420
8	27,300	12,840	3,500	13,560	8,220	6,660	16,850	48,050	66,440	63,400	52,040	40,000
9	26,880	12,400	3,880	13,320	8,130	6,480	17,550	48,750	66,680	62,920	51,640	39,510
10	26,400	11,920	4,820	13,040	8,040	6,270	18,450	49,590	66,760	62,520	51,240	39,160
11	25,920	11,440	5,880	12,760	7,950	6,090	19,350	50,360	67,000	62,280	50,840	38,810
12	25,440	10,960	7,320	12,520	7,860	5,940	20,100	51,000	67,400	61,960	50,520	38,460
13	24,960	10,480	11,280	12,280	7,740	5,820	21,650	51,800	67,400	61,720	50,040	38,110
14	24,420	10,000	12,800	12,120	7,620	5,760	22,750	52,680	67,400	61,480	49,660	37,760
15	23,880	9,520	13,520	12,080	7,530	5,670	23,640	53,560	67,400	61,160	49,240	37,410
16	23,400	9,000	14,680	12,000	7,500	5,550	24,720	54,520	67,400	60,840	48,820	37,080
17	22,950	8,640	15,120	11,920	7,500	5,340	25,980	55,640	67,400	60,520	48,470	36,720
18	22,500	8,280	15,500	11,960	7,530	5,100	26,880	57,000	67,400	60,200	48,050	36,360
19	22,050	7,890	16,100	11,880	7,560	4,920	27,840	58,360	67,400	59,880	47,700	36,000
20	21,600	7,530	16,700	11,760	7,680	4,820	29,340	59,720	67,400	59,480	47,360	35,640
21	21,150	7,140	17,100	11,640	7,710	4,750	30,720	61,000	67,400	59,160	47,000	35,280
22	20,700	6,750	17,300	11,480	7,770	4,950	31,740	61,880	67,400	58,760	46,650	34,920
23	20,250	6,330	17,400	11,280	7,800	5,280	33,180	63,080	67,400	58,440	46,300	34,560
24	19,750	5,880	17,250	11,080	7,860	5,580	34,500	64,200	67,400	58,040	45,950	34,140
25	19,250	5,400	17,050	10,880	7,830	6,240	35,400	65,240	67,400	57,720	45,530	33,780
26	18,750	4,980	16,850	10,640	7,770	6,870	36,300	66,280	67,400	57,320	45,180	33,420
27	18,250	4,550	16,700	10,440	7,650	7,590	37,200	67,240	67,400	57,000	44,760	33,000
28	17,750	4,100	16,500	10,200	7,530	8,130	38,040	67,400	67,400	56,600	44,410	32,700
29	17,250	3,620	16,300	9,960		8,640	38,740	67,400	66,920	56,200	43,990	32,220
30	16,750	3,200	16,050	9,680		9,880	40,420	67,400	66,600	55,800	43,640	31,860
31	16,300		15,800	9,400		11,240		67,400		55,320	43,220	

1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		15,120	5,400		1,490			16,050	31,020	34,740	25,440	14,120
2		14,680	5,100		1,470		1,130	16,850	31,260	34,440	25,080	13,760
3	29,100	14,240	4,850		1,450		1,560	17,600	31,500	34,140	24,720	13,440
4	28,740	13,840	4,600		1,430	1,000	1,920	18,350	31,680	33,840	24,360	13,120
5	28,320	13,480	4,580	1,030	1,410		2,280	19,000	31,860	33,480	24,060	12,720
6		13,080	4,280	1,090	1,390		2,740	19,650	32,100	33,180	23,820	12,320
7	27,540	12,680	3,980	1,200	1,360		3,260	20,150	32,220	32,880	23,520	11,960
8		12,280	3,700	1,280	1,330		3,800	20,600	32,340	32,580	23,250	11,600
9		11,880	3,460	1,340	1,310		4,380	21,050	32,460	32,340	22,950	11,200
10	25,320		3,220	1,390	1,290		4,950	21,550	32,520	32,100	22,650	10,800
11	24,780	10,800	2,800	1,420	1,260		5,520	22,100	32,580	31,740	22,350	10,400
12	24,240	10,320	2,460	1,440	1,240		6,030	22,500	32,640	31,500	22,050	10,040
13	23,700		2,180	1,460	1,230		6,480	23,000	32,700	31,140	21,800	9,680
14	23,250	9,600	1,900	1,470	1,210		6,930	23,460	32,760	30,840	21,500	9,320
15	22,950	9,200	1,600	1,480	1,180		7,290	24,000	32,820	30,480	21,200	8,940
16	22,500	9,200	1,340	1,490	1,150		7,710	24,480	33,180	30,180	20,850	8,640
17	22,100	9,040	1,020	1,500	1,110		8,190	24,960	33,480	29,880	20,500	8,340
18	21,650			1,520	1,060		8,610	25,320	33,720	29,520	20,150	8,010
19	21,200			1,530	1,010		9,120	25,620	33,900	29,280	19,750	7,710
20	20,800	8,400		1,540		1,050	9,720	25,280	34,380	28,980	19,300	7,410
21	20,400			1,560		1,140	10,320	26,340	34,500	28,680	18,900	7,110
22	20,200			1,580		1,230	10,920	26,640	34,560	28,320	18,500	6,810
23	19,750			1,620		1,260	11,520	26,940	34,620	27,960	18,000	6,510
24				1,720		1,280	11,960	27,180	34,680	27,660	17,550	6,150
25		7,050		1,740		1,250	12,480	27,840	34,740	27,420	17,100	5,760
26	18,150	6,780		1,740		1,180	13,000	28,740	34,800	27,120	16,600	5,370
27	17,650	6,510		1,660		1,070	13,640	29,280	34,860	26,880	16,100	5,000
28	17,150	6,240		1,640			14,080	29,700	34,920	26,640	15,600	4,680
29	16,650	5,970		1,600			14,680	30,060	34,980	26,340	15,200	4,320
30	16,100	5,700		1,580			15,240	30,360	35,040	26,100	14,840	3,920
31	15,600			1,530				30,720		25,740	14,480	

Contents, in acre-feet, of Bowman Lake near Graniteville, Calif., 1926-34-- Continued

1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,500						13,920	36,720	64,200	68,200	60,280	49,880
2	3,140					11,920	14,440	37,900	64,200	68,200	59,960	49,590
3	2,800						14,840	39,160	64,360	68,120	59,640	49,240
4	2,460					12,200	15,200	40,140	64,520	68,040	59,320	48,820
5	2,160			5,000		12,360	15,450	40,910	64,760	67,960	59,000	48,330
6	1,890				8,760		15,800	41,960	64,680	67,880	58,680	47,840
7	1,590						16,150	43,080	64,680	67,800	58,360	47,350
8	1,310					12,520	16,800	44,480	64,520	67,400	58,040	46,860
9	1,010		1,580	5,400	9,240	12,400	17,450	46,160	64,680	67,400	57,720	46,370
10						12,240	18,200	47,910	65,320	67,160	57,400	45,880
11				5,610	9,640	12,160	19,050	49,800	65,320	66,920	57,080	45,390
12						12,000	19,950	52,040	65,400	66,680	56,760	44,900
13					9,920	11,840	20,900	54,280	65,400	66,360	56,440	44,480
14				6,210		11,680	21,850	56,280	65,400	66,040	56,120	43,990
15						11,520	22,700	58,120	65,320	65,720	55,800	43,500
16						11,400	23,880	60,040	65,320	65,400	55,480	43,010
17						11,280	25,200	62,040	65,320	65,080	55,160	42,520
18					10,400	11,200	26,340	63,720	65,240	64,760	54,840	42,100
19						11,520	27,780	64,920	65,160	64,440	54,520	41,610
20						11,960	29,100	65,400	65,000	64,120	54,200	41,120
21			1,980		10,640	12,200	30,120	65,400	65,000	63,800	53,880	40,630
22						12,280	30,960	65,320	65,000	63,480	53,560	40,630
23						12,320	31,560	65,240	64,920	63,160	53,240	40,140
24					10,920	12,400	32,340	65,240	64,840	62,840	52,920	39,650
25				4,500		12,640	32,880	65,320	66,120	62,520	52,520	39,160
26						12,840	33,480	65,320	66,520	62,200	52,120	38,670
27						13,000	34,020	65,320	67,240	61,880	51,720	38,180
28					11,520	13,160	34,500	64,840	67,960	61,560	51,320	37,690
29						13,280	34,980	64,600	68,120	61,320	50,920	37,200
30						13,400	35,640	64,440	68,200	61,080	50,520	36,240
31						13,560		64,440		60,760	50,120	

1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35,760	21,050	9,520	6,150				14,520	38,390	64,600	56,280	46,440
2	35,280	20,600	9,280	6,060				15,080		64,360	56,040	46,090
3	34,800	20,100	9,040	5,970				15,600	40,560	64,040	55,720	45,740
4	34,380	19,600	8,850	5,850				16,150	41,820	63,800	55,400	45,390
5	33,900	19,150	8,700	5,730				16,800	42,940	63,640	55,160	45,040
6	33,480	18,750	8,550	5,610			1,210	17,350	44,340	63,400	54,840	44,690
7	33,060	18,300	8,430	5,460		2,180	1,450	17,900	45,950	63,160	54,600	44,340
8	32,640	17,850	8,280	5,310		2,080	1,860	18,300	47,350	62,920	54,280	43,990
9	32,160	17,400	8,130	5,160		1,960	2,180	18,750	48,890	62,760	53,960	43,640
10	31,740	17,000	8,010	5,020		1,710	2,460	19,100	50,360	62,600	53,640	43,290
11	31,380	16,550	7,890	4,900		1,450	2,840	19,450	51,720	62,280	53,320	42,940
12	30,960	16,050	7,770	4,780		1,190	3,200	19,850	53,320	61,960	53,000	42,590
13	30,540	15,550	7,650	4,650			3,620	20,250	54,840	61,720	52,680	42,240
14	30,060	15,120	7,500	4,520			4,080	20,650	56,280	61,400	52,360	41,680
15	29,580	14,720	7,350	4,400			4,700	21,100	57,640	61,080	52,040	41,190
16	29,100	14,320	7,230	4,200			5,250	21,700	58,920	60,920	51,720	40,700
17	28,620	13,960	7,080	4,000			5,790	22,300	59,960	60,600	51,400	40,280
18	28,080	13,560	6,990				6,180	22,850	60,760	60,280	51,080	39,860
19	27,600	13,160	6,870				6,510	23,400	61,400	60,040	50,760	39,510
20	27,120	12,800	6,750					24,240	61,960	59,720	50,440	39,020
21	26,580	12,440	6,630					25,140	62,440	59,480	50,120	38,600
22	26,040	12,120	6,630	3,000			7,530	25,980	62,680	59,240	49,800	38,250
23	25,500	11,840	6,570	2,780			8,010	26,700	63,080	58,920	49,520	37,690
24	24,960	11,560	6,540				8,610	27,540	63,400	58,600	49,240	37,340
25	24,420	11,280	6.540				9,360	28,620	63,720	58,360	48,960	36,960
26	23,880	10,960	6,540				10,000	29,820	64,040	58,120	48,540	36,480
27	23,300	10,680	6,510				10,840	31,020	64,360	57,800	48,190	36,120
28	22,850	10,360	6,450				11,840	32,400	64,520	57,480	47,840	35,820
29	22,350	10,040	6,390				12,920	33,900	64,600	57,160	47,490	35,400
30	21,950	9,760	6,330				13,800	35,400	64,840	56,840	47,140	35,160
31	21,500		6,240					36,900		56,520	46,790	

Contents, in acre-feet, of Bowman Lake near Graniteville, Calif., 1926-34-- Continued.

1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34,800	21,400	9,680	3,480	2,520		11,400	33,600	42,380	44,340	31,440	17,550
2	34,200	20,900	9,240	3,500	2,400		12,200	34,200	42,450	43,990	31,020	17,100
3	33,840	20,700	8,910	3,480	2,320		13,000	34,800	42,520	43,920	30,540	16,650
4	33,360	20,400	8,580	3,460	2,220		13,840	35,160	42,590	43,150	30,120	16,150
5	32,880	20,100	8,250	3,440	2,070		14,400	35,580	42,730	42,730	29,640	15,700
6	32,460	19,700	7,950	3,400	2,000		15,120	36,060	42,870	42,240	29,160	15,280
7	31,920	19,400	7,620	3,340	1,860		15,850	36,540	43,080	41,820	28,680	14,920
8	31,500	18,950	7,290	3,280	1,800		16,700	36,900	43,220	41,400	28,200	14,480
9	31,020	18,600	6,990	3,200	1,740		17,550	37,270	43,360	40,980	27,720	14,080
10	30,600	18,150	6,630	3,140	1,650		18,550	37,690	43,500	40,560	27,300	13,680
11	30,120	17,700	6,300	3,060	1,560		19,050	38,110	43,640	40,140	26,880	13,240
12	29,580	17,300	6,300	3,000	1,490		19,650	38,600	43,780	39,650	26,340	12,840
13	29,100	16,850	6,270	2,920	1,380		20,450	38,950	43,850	39,230	25,860	12,440
14	28,620	16,400	6,180	2,820	1,220		21,400	39,300	43,920	38,810	25,140	12,040
15	28,140	15,950	6,000	2,720	1,050		21,900	39,580	43,990	38,390	24,660	11,640
16	27,600	15,500	5,850	2,760		1,400	22,600	39,860	44,060	37,900	24,300	11,200
17	27,180	15,120	5,550	2,760		1,590	23,460	40,140	44,200	37,480	23,940	10,760
18	26,640	14,800	5,280	2,760		1,740	24,300	40,280	44,270	37,020	23,400	10,280
19	26,100	14,400	5,020	2,760		2,060	24,900	40,420	44,270	36,600	22,950	9,880
20	25,560	14,120	4,780	2,760		2,250	25,920	40,560	44,340	36,240	22,550	9,440
21	25,020	13,800	4,600	2,760		2,540	26,640	40,700	44,410	35,880	22,150	9,040
22	24,480	13,440	4,420	2,760		2,840	27,240	40,910	44,410	35,520	21,750	8,700
23	24,000	13,080	4,050	2,760		3,140	28,200	41,120	44,480	35,100	21,350	8,400
24	23,460	12,600	3,850	2,760		3,500	29,280	41,400	44,480	34,800	20,900	8,100
25	23,000	12,240	3,650	2,780		3.980	30,180	41,470	44,550	34,380	20,500	7,770
26	22,600	11,840	3,540	2,780		4,550	30,780	41,540	44,550	33,960	20,100	7,440
27	22,150	11.440	3,440	2,780		4,980	31,380	41,610	44,620	33,540	19,700	7,140
28	21,700	11,040	3,340	2,780		5,910	31,980	41,750	44,620	33,120	19,300	6,840
29	21,400	10,640	3,340	2,780		8,010	32,460	41,890	44,690	32,700	18,900	6,420
30	21,400	10.040	3,400	2,700		9,320	33,000	42,030	44,690	32,280	18,450	6,120
31	21,400		3,420	2,600		10,400		42,170		31,860	18,000	

Canyon Creek below Bowman Lake, Calif.

Location.- Water-stage recorder in SE¼ sec. 7, T. 18 N., R. 12 E., 1 mile below Bowman Lake and 3 miles above Texas Creek. Altitude, about 5,100 feet.

Records available.- January 1927 to September 1934.

Extremes.- Maximum discharge during year, 54 second-feet Dec. 12 (gage height, 1.66 feet); practically no flow parts of April and June to September.
1927-34: Maximum discharge, 960 second-feet May 31, 1930 (gage height, 4.13 feet); practically no flow at times when there is little or no leakage from dams above.

Remarks.- Records fair. Discharge estimated for November, December, January. Flow completely regulated by storage in Bowman Lake and diversion into Bowman-Spaulding Canal. See records for those stations. Gage-height record and results of discharge measurements furnished by Nevada Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	1.8		9.5	0.8	1.7	1.2	2.0	1.7	0		0
2	.3			4.6	.6	2.4	1.0	1.4	1.6	0		0
3	.3				.8	2.5	.8	.8	.4	0		0
4	.3				.8	2.1	1.2	.6	.1	0		0
5	.3				.8	1.8	.8	.4	.1	0		0
6	.3				1.5	1.5	.6	.3	.7	0		0
7	.3				2.9	1.1	.5	.3	.3	0		0
8	.3				4.8	1.0	.4	.3	.3	0		0
9	.3			.9	2.1	.9	.4	.3	.2	0		0
10	.3				1.5	.9	.3	.3	1.0	0		0
11	.3				1.4	.8	.2	.2	1.1	0		0
12	.4		24		1.1	.8	.2	.2	1.5	0		0
13	.4		10		.9	.8	.1	.2	4.5	0		0
14	.4		2.6		.8	.7	.1	.2	4.9	0		0
15	.4				1.0	.6	.1	.1	.6	0		0
16	.4				1.7	.6	0	.1	.6	.1		0
17	.4				1.5	.6	0	.1	.5	.1		0
18	.5	.6			1.7	.4	0	.1	1.7	.1		0
19	.5			.6	6	.4	0	.1	2.1	.1		0
20	.6				3.5	.5	0	.2	2.4	.1		0
21	.6				2.1	.5	0	.2	2.4	.1		0
22	.6				2.0	.5	0	.2	2.4	.1		0
23	.6			2.6	2.1	.6	.9	.6	1.7	.1		.4
24	.6			1.5	2.2	.5	1.5	.3	.4	.1		.6
25	.6			1.3	2.1	.5	1.2	.9	.4	.1		.9
26	.6			1.6	2.0	.5	.6	.5	2.4	.1		.8
27	.6			2.0	1.6	1.1	.4	.2	.4	.1		.6
28	.6			1.5	1.7	12	.3	.2	.6	0		.3
29	2.9			1.3		3.6	.3	.2	.2	0		.2
30	15			1.1		1.6	.6	1.6	0	0		.1
31	2.6		4.8	1.0		2.1		1.6		0		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	15	0.3	1.05	64.6
November			.7	41.7
December	24		2.5	154
January	9.5		1.8	111
February	6	.8	1.87	104
March	12	.4	1.47	90.4
April	1.5	0	.46	27.2
May	2.0	.1	.47	29.1
June	4.9	0	1.24	73.8
July	.1	0	.04	2.4
August	0	0	0	0
September	.9	0	.13	7.7
The year	24	0	0.97	706

Note.- No flow during August.

Bowman-Spaulding Canal at Intake, Calif.

Location.- Water-stage recorder in sec. 8, T. 18 N., R. 12 E., a quarter of a mile below Bowman rock-fill dam and 150 feet below intake. Altitude, about 5,400 feet.

Records available.- October 1927 to September 1934.

Extremes.- Maximum mean daily discharge during year, 247 second-feet Oct. 18; no flow June 10-27.

1927-34: Maximum mean daily discharge, 262 second-feet Aug. 2-9, 29, Sept. 10-13, 1928; no flow at times each year.

Remarks.- Records good. Discharge estimated June 1-5. Canal diverts from left bank of Canyon Creek below Bowman Lake. Water is delivered to Fuller Lake and then to Lake Spaulding and is used for irrigation in Nevada irrigation district after passing through several power houses. Gage-height record and results of discharge measurements furnished by Nevada Irrigation District.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	244	220	233	131	171	114	3.7	4.0		221	222	225
2	245	225	233	129	170	114	3.2	6		218	222	224
3	244	232	232	153	170	124	2.9	4.4	1.5	218	222	224
4	244	241	230	153	170	137	26	3.5		214	223	224
5	244	240	228	153	171	152	7.5	5.5		215	224	224
6	246	241	226	153	185	165	6	3.7	7.5	215	225	223
7	246	242	225	153	193	174	7.5	2.8	3.9	215	226	224
8	246	242	224	153	181	189	3.8	5	3.6	216	226	224
9	245	243	221	152	200	190	3.3	4.1	4.7	216	225	223
10	244	242	220	151	220	199	3.1	4.0	0	217	225	222
11	244	243	214	151	226	200	2.7	3.6	0	218	225	223
12	245	242	190	150	224	196	2.5	3.9	0	218	225	224
13	245	242	177	149	223	194	2.4	3.3	0	217	225	224
14	245	242	202	148	224	190	2.3	1.9	0	218	225	223
15	244	242	215	128	222	188	2.2	.9	0	218	225	222
16	244	241	210	76	220	190	2.1	3.0	0	218	223	222
17	243	241	208	76	220	189	2.0	.5	0	218	223	223
18	247	241	209	73	215	188	2.0	.5	0	218	224	223
19	245	240	211	75	188	190	2.0	.5	0	218	224	224
20	244	240	178	90	194	191	2.0	.5	0	218	224	225
21	244	240	158	72	173	188	2.0	.5	0	218	225	225
22	243	239	157	70	156	190	2.0	.6	0	218	224	223
23	243	240	156	71	148	184	3.0	.6	0	218	224	225
24	244	241	154	70	144	186	3.4	.5	0	219	224	224
25	245	240	115	71	138	185	4.0	4.8	0	218	224	222
26	244	239	100	72	133	186	4.1	3.4	0	218	224	219
27	242	237	100	85	128	180	3.4	1.6	0	219	225	218
28	244	236	100	96	120	121	4.5	.3	1.2	221	226	220
29	233	236	102	129		68	3.5	.3	3.5	221	224	220
30	173	235	110	153		110	3.7	.3	67	221	224	218
31	219		128	155		99		.3		222	226	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	247	173	241	14,800
November	243	220	239	14,200
December	233	100	183	11,300
January	155	70	117	7,190
February	226	120	183	10,200
March	200	68	167	10,300
April	26	2.0	4.09	243
May	6	.3	2.41	148
June	67	0	3.30	196
July	222	214	218	13,400
August	226	222	224	13,800
September	225	218	223	13,300
The year	247	0	150	109,000

Bear River near Wheatland, Calif.

Location.- Water-stage recorder in sec. 3, T. 13 N., R. 5 E., 1 mile southeast of Wheatland and 12 miles above mouth. Altitude, about 85 feet.

Drainage area.- 295 square miles.

Records available.- October 1928 to September 1934.

Extremes.- Maximum discharge during year, 4,760 second-feet Jan. 1 (gage height, 6.35 feet); minimum not known.
1928-34: Maximum discharge, 10,300 second-feet Mar. 5, 1930 (gage height, 9.50 feet); minimum, 0.2 second-foot Aug. 24-25, 1933. Discharge of 29,600 second-feet was recorded Jan. 14, 1909, at station 8 miles upstream.

Remarks.- Records good except those for extreme low water. Discharge estimated May 22-23, 27-31 June 1-5, 8-9. Storage, many diversions, and inflow above station from Yuba River Basin.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	101	376	43	2,850	67	478	385	224		1.9	1.7	1.9
2	129	169	50	1,750	65	39	280	289		1.7	1.7	1.7
3	124	169	192	880	63	32	209	256	1.5	1.5	1.7	1.6
4	114	135	255	720	61	30	30	240		1.5	1.7	1.6
5	101	129	127	659	61	214	25	162		1.6	1.9	1.6
6	87	109	82	617	184	232	18	83	3.6	1.7	1.9	1.6
7	49	101	73	582	420	196	50	44	2.9	1.3	2.0	1.5
8	20	92	71	554	1,240	166	228	46	2.0	1.6	1.9	1.5
9	19	94	151	534	680	144	244	58	3.0	1.6	1.9	1.5
10	13	96	607	522	380	123	320	7	4.0	1.6	2.2	1.6
11	12	92	600	516	264	108	370	5	2.9	1.7	2.2	1.7
12	12	84	775	498	200	102	410	4.0	3.2	1.9	2.2	2.0
13	14	75	1,240	486	181	93	415	3.6	3.2	1.9	2.2	2.2
14	15	73	1,090	474	158	196	400	3.2	3.6	1.9	2.2	2.2
15	14	69	852	462	177	334	370	2.9	3.6	1.9	2.2	2.0
16	16	67	733	444	825	289	123	2.9	3.2	1.9	2.2	2.2
17	16	69	628	360	638	280	74	2.6	2.6	1.9	2.0	2.2
18	15	67	572	74	528	284	252	2.4	2.4	1.9	2.0	2.2
19	13	64	537	67	720	280	280	2.4	2.4	1.9	2.0	2.0
20	11	60	504	85	792	272	280	2.4	2.2	1.9	2.0	2.0
21	10	64	465	77	480	272	272	2.4	2.2	2.0	2.0	2.2
22	10	60	406	67	432	298	264	1.5	2.0	2.0	2.0	2.2
23	10	58	370	67	666	307	212	2.5	1.9	2.0	2.0	2.4
24	10	55	312	148	832	316	268	1.9	2.0	2.0	2.0	2.4
25	10	54	186	111	610	343	272	1.9	2.0	2.2	2.0	2.4
26	84	54	106	93	1,190	330	268	2.2	2.0	2.4	2.0	2.4
27	129	50	92	82	1,160	316	252		2.0	2.4	2.0	8
28	162	54	94	80	776	338	232	1.5	2.0	2.2	2.0	4.5
29	150	50	408	72		534	192		1.9	2.2	2.0	2.9
30	393	49	1,040	69		480	117		1.9	2.0	2.0	2.9
31	803		810	67		390				1.7	2.0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	803	10	86.0	5,290
November	376	49	91.3	5,430
December	1,240	43	435	26,700
January	2,850	67	454	27,900
February	1,240	61	495	27,500
March	534	30	252	15,500
April	415	18	237	14,100
May	289		47.1	2,900
June	4.0		2.41	143
July	2.4	1.3	1.87	115
August	2.2	1.7	1.99	122
September	8	1.5	2.30	137
The year	2,850		174	126,000

Bear River Canal near Colfax, Calif.

Location.- Water-stage recorder in sec. 28, T. 15 N., R. 9 E., just below lower spillway gates, 1½ miles below diversion dam on Bear River, and 2 miles northwest of Colfax. Altitude, about 1,950 feet.

Records available.- January 1912 to September 1934.

Average discharge.- 20 years (1914-34), 193 second-feet.

Extremes.- Maximum mean daily discharge during year, 447 second-feet Aug. 16-17; no flow Apr. 6-11.
1912-34: Maximum mean daily discharge recorded, 457 second-feet Aug. 3, 1933; no flow at times.

Remarks.- Canal diverts from left bank of Bear River in sec. 22, T. 15 N., R. 9 E. Water is used to develop power at Halsey power house and Wise power house and is then distributed for irrigation. Record of daily discharge furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	288	169	277	173	243	232	235	299	259	292	440	289
2	288	218	274	163	217	242	238	302	230	270	440	294
3	289	235	215	148	257	250	237	298	186	282	442	299
4	289	215	226	135	258	242	249	323	208	292	443	303
5	289	241	255	219	256	255	82	331	171	293	440	376
6	286	246	271	216	258	242	0	345	214	304	432	439
7	285	247	268	213	243	242	0	328	186	284	444	439
8	285	248	265	219	222	230	0	310	296	252	443	350
9	285	248	265	201	226	238	0	282	193	260	445	305
10	285	248	265	249	242	247	0	346	132	258	444	393
11	269	260	270	251	247	246	0	308	250	283	444	435
12	281	275	264	227	252	242	2.8	123	236	271	439	444
13	282	276	170	243	234	254	76	126	198	286	382	439
14	285	276	190	246	245	252	85	258	210	280	434	312
15	283	276	210	242	240	251	72	313	240	284	442	299
16	277	272	204	243	178	239	101	344	253	278	447	313
17	276	274	194	246	243	238	156	344	170	260	447	308
18	276	278	194	248	243	258	163	290	207	282	430	299
19	276	279	180	244	243	248	161	318	255	292	437	386
20	276	279	157	245	235	250	199	299	207	281	429	357
21	275	278	222	248	236	255	254	250	240	286	446	438
22	275	279	268	248	238	244	219	345	275	237	437	349
23	276	275	268	248	235	257	246	337	260	320	440	228
24	272	276	253	250	240	250	240	272	163	429	440	268
25	276	276	264	242	248	248	258	264	222	443	434	251
26	283	277	258	240	231	231	259	237	282	437	335	376
27	283	276	255	242	222	245	274	176	270	429	296	236
28	276	276	263	245	242	248	296	156	290	445	286	198
29	262	275	226	247		257	281	269	256	428	296	262
30	182	275	195	243		252	296	189	217	437	282	200
31	116		182	241		252		219		437	281	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	289	116	272	16,700
November	279	169	261	15,500
December	277	157	234	14,400
January	251	135	228	14,000
February	258	178	238	13,200
March	258	230	246	15,100
April	296	0	156	9,280
May	346	123	277	17,000
June	296	132	226	13,400
July	445	237	320	19,700
August	447	281	410	25,200
September	444	198	330	19,600
The year	447	0	267	193,000

North Fork of American River near Colfax, Calif.

Location.- Water-stage recorder in NW¼ sec. 30, T. 14 N., R. 10 E., 50 feet downstream from bridge on Colfax-Forest Hill road, 200 feet below mouth of Shirttail Canyon Creek, and 5 miles southeast of Colfax. Zero of gage is 897.43 feet above mean sea level.

Drainage area.- 308 square miles.

Records available.- August 1911 to September 1934.

Average discharge.- 22 years (1911-13, 1914-34), 590 second-feet.

Extremes.- Maximum discharge during year, 6,330 second-feet Mar. 29 (gage height, 8.64 feet); minimum, 25 second-feet Oct. 7-13.
1911-34: Maximum discharge, about 55,000 second-feet Mar. 25, 1928 (gage height, 25.2 feet, present datum); minimum, 15 second-feet July 22 to Aug. 7, Aug. 12-15, 1924; Aug. 28, 1931.

Remarks.- Records good. Small storage and diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	223	55	2,830	326	825	968	495	136	60	31	27
2	29	160	52	1,840	334	769	840	485	128	59	31	27
3	28	163	115	1,170	322	811	708	565	118	55	30	27
4	26	139	112	888	313	776	657	500	112	51	30	27
5	28	112	76	707	351	832	640	450	122	50	30	27
6	28	94	68	595	420	804	679	426	181	46	30	27
7	25	85	64	513	465	727	696	416	242	46	30	27
8	25	81	66	450	938	655	732	385	218	46	29	27
9	25	78	69	420	668	655	690	362	172	46	29	27
10	25	74	64	387	518	668	657	340	154	45	29	28
11	25	71	64	351	435	643	674	340	130	45	28	30
12	25	69	634	330	396	694	684	324	120	43	28	28
13	25	68	1,690	309	373	720	679	304	130	42	28	28
14	26	68	902	293	351	748	640	268	160	40	27	28
15	28	66	631	290	364	755	668	253	145	39	27	27
16	26	71	455	271	455	783	657	236	122	39	27	27
17	26	69	356	257	425	727	608	218	112	39	27	27
18	28	66	309	253	396	694	555	200	103	39	30	27
19	28	64	260	250	762	769	550	187	99	38	29	27
20	28	61	233	301	938	727	550	175	90	36	26	26
21	28	60	233	286	727	727	540	169	86	36	26	26
22	29	58	240	271	655	707	545	163	82	36	27	26
23	29	58	257	318	818	790	662	160	76	35	27	30
24	29	56	257	435	881	881	662	154	70	35	27	50
25	29	55	257	347	776	874	580	160	68	35	26	53
26	29	53	250	322	1,330	839	495	169	70	35	26	43
27	29	52	246	326	1,210	748	445	163	76	33	26	38
28	30	52	253	334	962	1,880	416	145	76	33	27	35
29	35	50	679	334		3,720	380	145	68	32	28	35
30	916	53	1,460	334		1,500	380	154	64	31	27	33
31	628		1,130	326		1,100		142		31	27	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	916	25	75.6	4,650
November	223	50	81.0	4,820
December	1,690	52	372	22,900
January	2,830	250	527	32,400
February	1,330	313	604	33,500
March	3,720	643	921	56,600
April	968	380	621	37,000
May	565	142	279	17,200
June	242	64	118	7,020
July	60	31	41.2	2,530
August	31	26	28.1	1,730
September	53	26	30.5	1,810
The year	3,720	25	307	222,000

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North Fork of American River at Rattlesnake Bridge, Calif.

Location.- Water-stage recorder in SW¼ sec. 9, T. 11 N., R. 8 E., at Rattlesnake Bridge, 6 miles south of Auburn. Altitude, about 350 feet.

Drainage area.- 999 square miles.

Records available.- November 1930 to September 1934.

Extremes.- Maximum discharge during year, 14,300 second-feet Mar. 29 (gage height, 10.20 feet); minimum, 24 second-feet Sept. 11.
1930-34: Maximum discharge, that of Mar. 29, 1934 (gage height, 10.20 feet); minimum, 6.5 second-feet Aug. 15, 1931.

Remarks.- Records good. Storage and regulation above station. July to September water from Bear River and Yuba River drainage basins enters the stream above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	159	1,320	380	8,560	1,220	2,900	3,720	1,600	458	167	205	63
2	118	870	369	7,360	1,210	2,600	3,120	1,760	456	209	199	60
3	158	741	486	3,900	1,270	2,680	2,560	1,980	416	169	202	61
4	146	772	605	2,820	1,230	2,680	2,270	1,990	380	163	196	60
5	162	636	482	2,240	1,300	2,820	2,200	1,720	380	144	204	126
6	151	622	392	1,930	1,540	2,820	2,130	1,730	488	134	208	151
7	144	513	358	1,640	1,640	2,600	2,270	1,590	830	134	208	165
8	134	470	353	1,440	2,900	2,380	2,490	1,640	846	122	200	150
9	138	418	392	1,310	2,600	2,310	2,340	1,420	742	120	236	70
10	142	434	404	1,230	1,930	2,310	2,200	1,290	619	124	211	140
11	132	422	422	1,160	1,700	2,310	2,200	1,260	528	121	160	172
12	142	404	1,270	1,120	1,540	2,450	2,270	1,110	458	115	203	156
13	161	392	6,260	1,080	1,490	2,600	2,270	1,070	416	100	144	191
14	119	404	3,670	1,020	1,360	2,600	2,130	958	428	94	186	131
15	148	410	2,310	998	1,350	2,680	2,200	1,020	476	101	189	72
16	188	416	1,640	966	1,870	2,820	2,200	878	410	94	212	67
17	166	422	1,280	974	1,810	2,680	2,060	882	375	105	204	94
18	167	410	1,100	998	1,640	2,520	1,900	772	331	96	188	60
19	192	369	950	990	2,180	2,680	1,820	712	301	94	208	131
20	154	358	902	1,090	3,560	2,750	1,870	732	281	99	192	136
21	205	348	846	1,120	2,820	2,600	1,910	585	258	87	185	184
22	182	369	870	1,010	2,450	2,450	1,970	668	236	79	185	98
23	205	380	950	1,060	2,980	2,520	2,200	602	216	133	204	71
24	190	380	966	1,540	3,300	2,980	2,580	585	196	199	178	55
25	221	375	958	1,320	2,820	2,980	2,220	560	185	216	204	130
26	172	369	950	1,190	4,170	2,980	1,830	585	188	225	200	179
27	208	348	950	1,210	4,260	2,680	1,640	619	204	220	58	158
28	205	316	958	1,260	3,390	3,850	1,460	598	204	223	65	105
29	210	311	1,440	1,320		11,000	1,390	500	196	193	72	91
30	2,040	331	4,440	1,280		6,480	1,350	494	174	201	63	91
31	3,870		3,640	1,240		4,420		488		210	65	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,870	118	346	21,300
November	1,320	311	478	28,400
December	6,260	353	1,320	81,200
January	8,580	966	1,820	112,000
February	4,260	1,210	2,200	122,000
March	11,000	2,310	3,130	192,000
April	3,720	1,350	2,160	129,000
May	1,990	488	1,040	64,000
June	846	174	389	23,100
July	225	79	145	8,920
August	236	58	175	10,800
September	191	55	114	6,780
The year	11,000	55	1,100	800,000

American River at Fair Oaks, Calif.

Location.- Water-stage recorder just above highway bridge at Fair Oaks, Sacramento County, 10 miles below South Fork. Altitude, about 72 feet.

Drainage area.- 1,921 square miles.

Records available.- November 1904 to September 1934.

Average discharge.- 29 years (1905-34), 3,590 second-feet.

Extremes.- Maximum discharge during year, 22,600 second-feet Jan. 1 (gage height, 13.50 feet); minimum, 43 second-feet Sept. 14.
1904-34: Maximum discharge, 182,000 second-feet Mar. 25, 1928 (gage height, 31.45 feet, present datum); minimum, 3.6 second-feet Aug. 16, 1924.

Remarks.- Records excellent. Storage, many diversions, and power plants above station. Some inflow from Bear and Yuba River Basins.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	211	2,350	405	11,900	1,720	4,140	4,580	2,330	745	298	229	88
2	190	1,400	455	13,300	1,720	3,740	4,180	2,600	676	272	219	82
3	188	1,080	589	5,900	1,810	3,620	3,560	2,820	660	248	212	87
4	197	1,050	389	4,140	1,720	3,740	3,220	2,990	596	243	205	78
5	203	945	675	3,380	1,720	3,740	2,990	2,660	539	241	231	77
6	196	752	580	2,930	2,100	3,860	2,990	2,600	630	224	219	131
7	205	657	520	2,500	2,250	3,500	3,220	2,440	1,220	200	224	169
8	185	609	500	2,150	3,740	3,380	3,460	2,500	1,600	214	207	175
9	173	565	500	1,950	4,000	3,150	3,340	2,230	1,520	177	214	147
10	175	532	528	1,810	2,930	3,200	3,220	1,930	1,240	170	224	91
11	189	556	568	1,720	2,500	3,260	3,220	1,930	1,040	162	210	136
12	188	556	1,080	1,580	2,200	3,200	3,220	1,780	874	166	186	183
13	206	532	7,580	1,580	2,100	3,500	3,340	1,740	710	147	219	177
14	184	500	6,680	1,450	2,000	3,500	3,220	1,600	688	135	145	203
15	192	532	4,420	1,360	1,860	3,620	3,220	1,650	739	149	212	127
16	190	508	2,980	1,320	3,040	3,740	3,340	1,470	775	151	198	83
17	224	528	2,050	1,280	3,040	3,620	3,100	1,290	650	135	229	81
18	218	532	1,630	1,360	2,600	3,500	2,880	1,200	560	131	182	107
19	228	512	1,450	1,280	2,930	3,500	2,660	1,110	535	135	202	84
20	258	524	1,320	1,450	4,720	3,740	2,660	1,090	490	137	202	141
21	204	446	1,200	1,540	3,860	3,620	2,720	835	430	127	212	147
22	225	442	1,200	1,360	3,500	3,380	2,620	880	404	119	195	203
23	239	445	1,280	1,450	4,140	3,380	2,880	880	364	117	217	158
24	250	475	1,360	2,100	4,560	3,740	3,700	787	330	177	234	110
25	260	446	1,360	1,900	4,000	4,000	3,220	787	295	229	200	143
26	267	426	1,240	1,630	6,480	4,000	2,820	835	267	243	260	278
27	238	458	1,280	1,680	6,260	3,620	2,550	907	290	243	200	319
28	274	405	1,320	1,720	4,880	4,140	2,280	1,010	327	255	101	217
29	296	406	2,020	1,810		11,600	2,130	823	341	277	101	191
30	569	450	6,080	1,810		8,900	1,930	868	298	202	106	194
31	5,850		5,720	1,720		5,680		854		229	78	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,850	173	409	25,100
November	2,350	405	654	38,900
December	7,580	389	1,900	117,000
January	13,300	1,280	2,680	165,000
February	6,480	1,720	3,160	176,000
March	11,600	3,150	4,110	253,000
April	4,580	1,930	3,090	184,000
May	2,990	787	1,590	97,800
June	1,600	267	661	39,300
July	298	117	192	11,800
August	260	78	196	12,100
September	319	77	147	8,750
The year	13,300	77	1,560	1,130,000

American River at Sacramento, Calif.

Location.- Water-stage recorder at H Street Bridge in city of Sacramento, Sacramento County. Altitude, about 23 feet.

Records available.- July to October 1921; October 1929 to October 1932; May to October 1934 (low-water records only).

Extremes.- Minimum discharge during 1934, 62 second-feet Sept. 5.
1929-32, 1934: Minimum discharge, 21 second-feet Aug. 14, 1931.

Remarks.- Records good. Discharge estimated May 17 and June 27 to July 2. Storage, many diversions, power plants, some inflow from Bear and Yuba River Basins, above station.

Discharge, in second-feet, 1934

Day	May	June	July	Aug.	Sept.	Oct.						
1	2,020	792	260	220	113	174						
2	2,340	718	220	206	97	170						
3	2,400	702	193	206	88	162						
4	2,680	644	172	206	82	170						
5	2,470	560	177	216	75	191						
6	2,340	595	156	229	82	166						
7	2,270	938	152	220	138	162						
8	2,200	1,370	145	229	152	204						
9	2,200	1,320	152	211	177	178						
10	1,900	1,140	160	224	97	178						
11	1,840	1,020	148	216	107	178						
12	1,840	855	145	193	152	191						
13	1,740	748	160	211	156	183						
14	1,650	672	120	198	189	204						
15	1,600	688	130	168	185	221						
16	1,490	732	134	206	100	140						
17	1,360	672	116	216	82	212						
18	1,230	581	113	220	98	385						
19	1,120	546	110	193	95	212						
20	1,010	499	116	202	84	208						
21	863	460	123	198	140	183						
22	847	417	113	206	183	136						
23	920	404	113	189	195	234						
24	839	335	120	202	98	281						
25	792	302	198	206	125	281						
26	815	272	220	202	244	267						
27	879	290	229	234	276	244						
28	946	320	181	172	271	262						
29	823	320	243	127	221	239						
30	831	270	248	113	212	195						
31	871		198	120		305						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May	2,680	792	1,520	93,500
June	1,370	270	639	38,000
July	260	110	163	10,000
August	234	113	199	12,200
September	276	75	144	8,570
October	385	136	210	12,900
The period				175,000

Middle Fork of American River near East Auburn, Calif.

Location.- Water-stage recorder in sec. 5, T. 12 N., R. 9 E., at Mountain Quarry Co.'s plant 1.7 miles above junction with North Fork of American River and 3½ miles northeast of East Auburn. Altitude, about 580 feet.

Drainage area.- 622 square miles.

Records available.- October 1911 to September 1934.

Average discharge.- 23 years, 1,280 second-feet.

Extremes.- Maximum discharge during year, 7,830 second-feet Mar. 29 (gage height, 12.30 feet); minimum, 20 second-feet Sept. 19.

1911-34: Maximum discharge, about 100,000 second-feet Mar. 25, 1928 (gage height, 35.6 feet at gage used to 1928); minimum, 20 second-feet Sept. 6, 1931, and Sept. 19, 1934.

Remarks.- Records good. Storage reservoirs and diversions above station are small.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	745	102	4,580	625	1,500	2,320	910	303	132	46	31
2	41	465	106	3,410	645	1,400	1,940	1,060	310	125	45	30
3	38	420	161	1,850	665	1,450	1,570	1,240	286	118	45	29
4	37	376	214	1,450	625	1,500	1,380	1,240	259	111	44	27
5	37	324	161	1,150	705	1,650	1,320	1,080	263	105	45	26
6	36	246	134	965	808	1,650	1,410	1,060	333	101	44	26
7	35	206	128	830	852	1,500	1,540	1,040	570	97	43	26
8	34	187	130	745	1,450	1,380	1,660	985	550	94	43	25
9	34	176	144	685	1,380	1,320	1,570	860	455	94	42	25
10	33	169	155	625	1,010	1,400	1,460	788	387	91	41	24
11	33	164	155	585	852	1,380	1,490	788	336	87	39	24
12	33	160	701	550	765	1,450	1,520	765	298	82	38	24
13	34	148	3,260	515	705	1,550	1,520	742	279	78	37	24
14	35	143	1,740	498	685	1,650	1,440	652	279	76	37	23
15	35	141	1,060	480	665	1,650	1,520	590	284	74	38	22
16	35	147	765	450	965	1,700	1,460	550	263	71	37	22
17	35	153	568	435	965	1,600	1,350	491	250	71	35	21
18	34	146	498	435	852	1,500	1,190	455	234	69	34	21
19	34	139	450	435	1,150	1,650	1,160	406	218	67	33	21
20	34	134	405	498	1,850	1,650	1,160	387	205	66	32	21
21	34	128	390	532	1,500	1,550	1,140	357	190	64	31	21
22	35	124	405	480	1,280	1,500	1,220	349	179	63	32	21
23	36	120	420	532	1,500	1,550	1,410	349	169	61	32	26
24	35	117	420	765	1,650	1,800	1,570	338	161	60	32	43
25	35	114	420	625	1,450	1,800	1,320	357	153	59	32	60
26	35	112	420	568	2,020	1,750	1,080	357	161	57	31	75
27	35	108	420	585	2,140	1,550	935	422	164	56	31	60
28	36	107	435	625	1,700	2,230	885	377	163	54	30	53
29	41	106	686	645		5,980	788	328	156	52	30	49
30	1,520	107	2,140	645		3,810	742	330	142	50	32	45
31	2,100		1,650	645		2,750		318		48	32	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,100	33	150	9,220
November	745	106	198	11,800
December	3,260	102	608	37,400
January	4,580	435	897	55,200
February	2,140	625	1,120	62,200
March	5,980	1,320	1,830	113,000
April	2,320	742	1,370	81,500
May	1,240	318	644	39,600
June	570	142	267	15,900
July	132	48	78.5	4,830
August	46	30	36.9	2,270
September	80	21	32.2	1,920
The year	5,980	21	600	435,000

South Fork of American River near Kyburz, Calif.

Location.- Water-stage recorder in S½ sec. 29, T. 11 N., R. 15 E., on Lincoln highway half a mile below intake of El Dorado Canal and 2 miles west of Kyburz. Altitude, about 4,030 feet.

Drainage area.- 196 square miles.

Records available.- August to December 1907, October 1922 to September 1934.

Average discharge.- 12 years (1922-34), 207 second-feet.

Extremes.- Maximum discharge during year, 1,880 second-feet Mar. 29 (gage height, 5.48 feet); minimum, 0.9 second-foot Dec. 1.
1922-34: Maximum discharge, 5,020 second-feet Mar. 25, 1928 (gage height, 7.60 feet); minimum, 0.3 second-foot Nov. 9-11, 1929.

Remarks.- Records good. Storage and irrigation diversions above station. (See record for El Dorado Canal).

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.5	29	1.3	187	37	52	399	306	15	2.6	2.7	2.2
2	2.5	17	1.4	125	43	70	322	281	4.0	2.6	2.7	2.7
3	2.6	9.5	1.8	88	31	125	251	326	2.0	2.6	2.7	2.2
4	2.6	1.4	1.4	80	33	136	232	288	2.6	2.7	2.6	2.2
5	2.2	1.6	2.4	69	55	188	248	278	23	2.9	2.6	2.2
6	1.5	1.7	2.3	61	53	164	295	291	134	3.0	2.6	2.2
7	1.5	1.7	1.3	54	48	140	366	314	154	3.0	2.6	2.4
8	1.6	1.8	1.4	46	82	118	386	288	171	3.0	2.5	2.1
9	1.7	2.0	1.6	41	54	129	366	171	161	3.0	2.5	2.1
10	1.7	1.8	1.5	45	36	146	370	186	142	3.0	2.5	2.4
11	1.6	1.8	1.7	30	24	154	391	207	88	3.0	3.0	2.4
12	1.6	1.7	153	37	22	194	470	210	45	3.0	2.4	2.4
13	1.5	1.6	248	22	18	215	501	226	46	3.0	2.4	2.4
14	1.5	29	96	17	16	251	488	242	78	3.0	2.4	2.4
15	1.4	29	69	17	22	267	434	140	51	3.0	2.4	2.4
16	1.4	27	88	12	41	267	338	140	36	3.0	2.4	2.4
17	1.6	26	59	16	28	245	322	118	52	2.9	2.5	2.4
18	1.7	1.8	46	14	29	258	288	88	36	3.0	2.4	2.4
19	1.7	1.7	40	16	59	374	298	75	22	2.9	2.5	2.4
20	1.7	1.5	34	27	72	382	288	63	3.2	3.0	2.5	2.4
21	1.7	1.5	35	24	50	358	302	55	3.2	3.0	2.5	2.4
22	1.7	1.4	40	31	44	302	302	46	3.0	3.0	2.5	2.4
23	1.7	1.1	41	45	58	288	407	55	3.0	2.9	2.5	3.4
24	1.7	1.1	43	40	52	374	334	49	2.9	2.7	2.5	2.5
25	1.7	1.1	44	34	48	354	291	62	3.8	2.7	2.5	2.4
26	1.6	1.1	46	36	57	314	267	100	8.5	2.7	2.5	2.4
27	1.5	1.3	47	46	55	302	226	90	2.6	2.6	2.6	2.4
28	1.7	1.5	48	51	48	500	196	64	2.4	2.6	2.4	2.4
29	2.1	1.5	51	53		1,160	181	76	2.5	2.6	2.2	2.2
30	341	1.5	69	40		580	168	46	2.6	2.6	2.4	2.4
31	115		64	37		447		20		2.7	2.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	341	1.4	16.4	1,010
November	29	1.1	6.72	400
December	248	1.3	44.5	2,740
January	187	12	46.5	2,860
February	82	16	43.4	2,410
March	1,160	52	286	17,600
April	501	168	324	19,300
May	326	20	158	9,720
June	171	2.0	43.3	2,580
July	3.0	2.6	2.85	175
August	3.0	2.2	2.51	154
September	3.4	2.1	2.39	142
The year	1,160	1.1	81.5	59,100

South Fork of American River near Camino, Calif.

Location.- Water-stage recorder in SW¼ sec. 25, T. 11 N., R. 11 E., 1 mile below intake of South Fork of American River flume, 300 feet above mouth of Iowa Canyon Creek, and 3 miles northwest of Camino. Altitude, about 1,640 feet.

Drainage area.- 497 square miles.

Records available.- October 1922 to September 1934.

Average discharge.- 12 years, 607 second-feet.

Extremes.- Maximum discharge during year, 4,010 second-feet Mar. 29 (gage height, 9.90 feet); minimum, 3.2 second-feet Sept. 13.
1922-34: Maximum discharge, 31,500 second-feet Mar. 25, 1928 (gage height, 24.4 feet); minimum, 1.2 second-feet Aug. 24, 1931.

Remarks.- Records excellent. Four storage reservoirs and several diversions above station (see records for South Fork of American River flume, El Dorado Canal, and Finnon Reservoir outlet).

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	382	20	1,590	311	613	1,080	633	192	20	8	7
2	22	267	60	1,180	330	598	870	685	196	32	8.5	7
3	24	268	80	765	340	748	748	790	136	29	8	8
4	28	184	80	660	393	712	679	798	124	30	7.5	7
5	18	88	50	568	404	782	639	692	139	22	7.5	7
6	23	60	32	416	441	765	732	653	342	56	7	7
7	16	37	46	350	454	695	830	623	587	14	7	7
8	24	32	46	382	678	613	893	646	550	32	7	6.5
9	24	53	84	360	568	613	829	466	462	10	7	6
10	23	66	90	371	523	660	632	494	384	25	6	6.5
11	23	133	78	275	441	598	834	494	328	16	6	6.5
12	26	78	368	320	416	730	846	498	247	14	5.5	7
13	21	54	1,350	330	393	765	926	435	221	17	7	4.6
14	16	33	606	266	340	782	899	503	230	16	7.5	5
15	18	40	396	293	302	600	870	400	288	13	6.5	8.5
16	26	50	312	275	454	852	844	335	242	12	6.5	9.5
17	22	47	244	232	538	870	734	322	164	15	7	16
18	18	100	254	181	416	870	652	310	208	15	8	18
19	21	62	244	241	598	930	649	265	160	12	12	15
20	24	22	216	320	800	870	648	194	132	15	13	38
21	17	16	198	284	644	782	658	244	116	12	15	32
22	20	45	212	302	523	730	635	222	82	19	18	15
23	24	36	225	350	712	765	822	180	58	19	14	26
24	31	40	263	382	765	970	892	201	32	16	16	136
25	30	76	194	275	695	950	776	228	42	15	19	73
26	18	61	226	302	870	870	727	240	60	11	10	72
27	18	51	218	340	852	818	606	307	78	12	7	57
28	13	43	242	371	730	950	528	260	76	12	7	58
29	13	25	332	360		2,850	404	305	74	10	7	42
30	701	16	617	393		1,660	453	298	52	9	6.5	38
31	860		524	360		1,160		232		9.5	6.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	860	13	71.3	4,380
November	382	16	82.2	4,890
December	1,350	20	256	15,700
January	1,590	181	422	25,900
February	870	302	533	29,600
March	2,850	598	883	54,300
April	1,060	404	751	44,700
May	798	180	418	25,700
June	587	32	200	11,900
July	56	9	18.0	1,110
August	19	5.5	8.98	552
September	136	4.6	24.9	1,480
The year	2,850	4.6	304	220,000

South Fork of American River at Coloma, Calif.

Location.- Water-stage recorder in SW¼ sec. 17, T. 11 N., R. 10 E., at highway bridge at Coloma. Altitude, about 830 feet.

Drainage area.- 635 square miles.

Records available.- October 1929 to September 1934.

Extremes.- Maximum discharge during year, 4,920 second-feet Mar. 29 (gage height, 12.60 feet); minimum, 27 second-feet Sept. 14-15.
1929-34: Maximum discharge, 6,680 second-feet Feb. 6, 1932 (gage height, 13.50 feet); minimum, 17 second-feet Aug. 25, 1931.

Remarks.- Records fair. Discharge partly estimated Dec. 1-12. Irrigation diversions, four storage reservoirs, and two power plants above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	456	100	3,240	433	922	1,370	826	322	141	65	48
2	74	259	125	2,020	456	858	1,130	690	306	114	50	50
3	70	252	150	1,170	480	858	1,020	990	269	143	54	53
4	78	269	165	890	433	922	955	1,020	222	136	53	52
5	62	269	170	738	456	1,020	890	690	226	114	60	49
6	56	146	160	630	504	990	990	890	356	143	54	49
7	58	160	160	504	529	890	1,060	858	738	121	53	48
8	52	141	175	480	1,060	626	1,210	856	699	134	58	45
9	58	136	170	456	890	826	1,100	683	640	99	56	45
10	56	160	205	419	683	858	1,100	683	564	110	50	40
11	62	183	190	419	554	796	1,130	683	447	130	48	40
12	54	160	450	364	494	890	1,060	683	396	116	46	43
13	62	148	1,770	373	480	955	1,170	630	322	118	49	42
14	56	160	1,250	335	456	990	1,130	656	322	103	50	34
15	50	143	890	322	456	1,020	1,130	604	387	112	50	42
16	78	148	564	304	858	1,020	1,060	460	401	79	46	46
17	65	148	410	304	796	990	922	456	266	99	50	46
18	59	143	364	286	614	1,020	856	433	269	99	50	59
19	58	171	356	315	766	1,060	826	387	246	99	59	62
20	62	130	330	364	1,130	1,060	826	322	222	87	65	62
21	56	121	322	322	922	990	626	356	195	95	69	93
22	76	103	315	326	796	922	826	347	190	85	76	67
23	64	141	322	364	1,060	922	955	308	171	93	83	72
24	72	121	382	529	1,100	1,170	1,130	266	153	97	81	107
25	87	107	286	456	922	1,130	990	322	143	95	85	130
26	79	136	290	419	1,450	1,100	955	343	143	95	85	134
27	52	125	315	367	1,250	990	796	456	169	87	62	130
28	76	125	322	433	1,020	1,130	683	405	188	99	53	130
29	74	125	504	433		3,210	604	396	166	83	54	134
30	574	112	1,170	456		2,120	656	470	173	74	56	123
31	1,120		955	433		1,490		351		74	49	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,120	49	115	7,070
November	456	103	167	9,940
December	1,770		430	26,400
January	3,240	286	596	36,600
February	1,450	433	752	41,800
March	3,210	796	1,100	67,600
April	1,370	604	979	58,300
May	1,020	286	579	35,600
June	738	143	312	18,600
July	143	74	106	6,520
August	65	46	58.7	3,610
September	134	34	69.2	4,120
The year	3,240	34	436	316,000

Echo Lake flume near Vade, Calif.

Location.- Water-stage recorder in NW¼ sec. 6, T. 11 N., R. 18 E., half a mile below intake and 2 miles northeast of Phillips, Vade post office. Altitude, about 7,500 feet.

Records available.- August 1923 to September 1934.

Extremes.- Maximum mean daily discharge during year, 23 second-feet Oct. 6; no flow most of year.
1923-34: Maximum mean daily discharge, 25 second-feet Sept. 16-18, 1930; no flow most of each year.

Remarks.- Records good. Flume diverts water from Echo Lake in Truckee River Basin into South Fork of American River Basin.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	9.5										0
2	0	10										0
3	0	9.5										0
4	0	9										0
5	13	9										0
6	23	8.5										0
7	22	8										13
8	21	8										19
9	20	7.5										20
10	19	7										20
11	19	6.5										19
12	17	6										19
13	17	6										19
14	16	5.5										20
15	15	5										20
16	13	4.6										20
17	12	4.2										20
18	11	3.9										20
19	9.5	1.2										20
20	8.5	0										20
21	7.5	0										19
22	7	0										10
23	6	0										9
24	5	0										15
25	4.9	0										19
26	4.7	0										19
27	4.3	0										18
28	3.3	0										17
29	2.6	0										16
30	5.5	0										13
31	6.5											

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	23	0	10.1	621
November	10	0	4.30	256
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	20	0	14.1	839
The year	23	0	2.37	1,720

Note.- No flow during months left blank.

Medley Lakes outlet near Vade, Calif.

Location.- Water-stage recorder in SW¼ sec. 29, T. 12 N., R. 17 E., 1 mile below main dam at Medley Lakes and 5 miles northwest of Phillips, Vade post office. Altitude, about 8,100 feet.

Drainage area.- 6.2 square miles.

Records available.- September 1922 to September 1934.

Extremes.- Maximum discharge during year, 83 second-feet July 20 (gage height, 2.17 feet); minimum, 0.2 second-foot Sept. 6-22.
1922-34: Maximum discharge, 202 second-feet June 15-16, 1929 (gage height, 3.42 feet); no flow at times.

Remarks.- Records good except those estimated, Oct. 6 to Nov. 2, Jan. 17 to Mar. 5, Aug. 21 to Sept. 8, Sept. 10-23, and Sept. 29-30. No available storage in Medley Lakes above station on Sept. 30, 1933, or Sept. 30, 1934.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	5	3.0	11			2.4	3.0	0.8	5	67	0.3
2	.8	3.0	2.5	9.5			1.6	2.3	.7	8	65	.3
3	.8	1.9	3.6	9		5	1.2	3.4	.6	50	63	.3
4	.8	1.8	4.2	9			1.1	4.4	.6	50	61	.3
5	.8	1.2	4.0	9			1.3	5	1.1	48	59	.3
6	.8	1.0	3.7	8.5		5.5	2.2	6	2.2	53	56	.2
7	.8	10	3.7	8		1.6	3.1	6.5	2.1	56	53	.2
8	.8	38	4.0	8		1.2	3.6	5	2.3	56	46	.2
9	.8	37	3.8	8		1.0	3.4	4.4	1.5	55	38	.2
10	.8	38	3.7	7.5		.9	3.6	4.4	1.2	55	34	.2
11	.8	40	3.8	7.5		.8	3.8	4.4	.9	55	28	.2
12	.8	37	7	7		.9	4.2	5	.8	54	14	.2
13	.7	34	12	7		1.1	4.2	4.2	.8	61	8.5	.2
14	.7	29	12	6.5		1.2	4.0	3.4	.8	68	6	.2
15	.7	27	12	6.5		1.2	3.7	3.0	.8	67	4.6	.2
16	.7	24	11	6.5		1.3	3.4	2.5	.8	67	3.7	.2
17	.7	20	11			1.2	3.4	2.1	.7	67	1.5	.2
18	.7	13	11			1.3	3.4	1.9	2.3	56	.8	.2
19	.7	8	11			1.5	3.7	1.6	4.9	65	.6	.2
20	.7	8	11			1.4	4.0	1.5	5.5	75	.6	.2
21	.6	7	11			1.2	4.9	1.5	6.5	82	.6	.2
22	.6	6	11			1.2	5	1.5	7.5	80	.6	.2
23	.6	5.5	10			1.9	6	1.4	8	79	.6	.3
24	.6	4.8	10	5		2.0	3.8	1.2	7	79	.5	.5
25	.6	4.4	10			2.2	2.8	1.1	5.5	77	.5	.5
26	.6	4.2	9			2.1	3.0	1.4	6	76	.5	.5
27	.6	3.7	9			2.3	3.7	1.2	5.5	75	.5	.4
28	.6	3.6	9			7.5	3.6	1.1	5	73	.4	.4
29	2.0	3.2	9			14	3.4	1.0	4.8	72	.4	.4
30	10	3.2	9			5	3.0	.9	4.8	71	.4	.4
31	7		9			3.0		.8		68	.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	10	0.6	1.26	77.5
November	40	1.0	14.1	839
December	12	2.5	7.87	484
January	11		6.56	403
February			4.0	222
March	14	.8	2.89	176
April	6	1.1	3.35	199
May	6.5	.8	2.81	173
June	8	.6	3.07	183
July	82	5	61.7	3,790
August	67	.4	19.9	1,220
September	.5	.2	.28	16.5
The year	82	.2	10.8	7,780

Silver Lake outlet near Kirkwood, Calif.

Location.- Water-stage recorder in SW¼ sec. 32, T. 10 N., R. 17 E., 1,000 feet below Silver Lake Dam and 3 miles southwest of Kirkwood. Altitude, about 7,200 feet.

Drainage area.- 14.9 square miles.

Records available.- September 1922 to September 1934.

Average discharge.- 12 years, 26.9 second-feet.

Extremes.- Maximum discharge during year, 194 second-feet May 7 (gage height, 2.98 feet); minimum, 0.1 second-foot Jan. 13 to Mar. 2.
1922-34: Maximum discharge, 374 second-feet July 1, 1932 (gage height, 4.28 feet); minimum, 0.1 second-foot during part of nearly every year, when gate was closed.

Remarks.- Records excellent. Storage in Silver Lake was 3,100 acre-feet on Sept. 30, 1933, and 2,100 acre-feet on Sept. 30, 1934. In addition to water released from controlled outlet, some water escapes from Silver Lake through porous rock formation. (See Seepage from Silver Lake near Kirkwood, Calif.)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	2.8	6	10	0.1	0.1	3.6	96	2.6	1.4	1.6	29
2	46	2.8	5.5	9.5	.1	.1	3.3	38	2.0	2.2	1.4	69
3	46	2.6	3.9	9	.1	.2	2.0	13	1.4	1.4	2.4	69
4	46	2.6	6	9	.1	.2	1.8	19	1.0	1.6	2.2	75
5	30	8.5	5.5	9	.1	.2	1.4	57	.9	2.0	1.8	74
6	22	14	5	8.5	.1	.2	3.6	59	1.0	1.6	1.0	74
7	23	14	4.8	8	.1	.2	7	96	1.8	.8	.8	74
8	25	14	4.5	8	.1	.2	3.6	49	2.8	.9	.5	54
9	25	14	4.2	8	.1	.2	4.5	1.6	3.0	2.2	.6	54
10	25	14	3.9	8	.1	.2	5	38	3.6	1.6	1.4	55
11	25	14	3.6	8	.1	.2	18	47	6.5	.9	.9	56
12	25	14	5.5	3.2	.1	.2	89	43	4.8	1.0	.7	55
13	25	14	8.5	.1	.1	.2	106	26	3.6	2.0	.7	55
14	25	14	9	.1	.1	.2	86	13	3.6	1.4	1.0	55
15	24	13	9.5	.1	.1	.2	40	13	3.6	1.8	.8	55
16	26	13	9.5	.1	.1	.2	12	17	2.8	2.4	.7	55
17	32	13	9	.1	.1	.2	5.5	8	2.6	1.6	.5	56
18	31	19	8	.1	.1	.2	5.5	4.2	2.4	1.6	.3	55
19	32	22	8	.1	.1	.2	4.5	4.2	1.8	2.4	.2	55
20	32	19	7.5	.1	.1	.2	5	3.9	1.6	1.8	.4	54
21	34	16	7	.1	.1	.2	5	3.0	1.6	1.0	.8	54
22	36	14	6.5	.1	.1	.3	5	2.8	1.6	.8	.6	54
23	35	12	6.5	.1	.1	.7	5.5	2.6	1.8	.8	.4	55
24	34	10	6	.1	.1	.8	14	2.2	2.4	1.6	.6	54
25	35	9.5	6	.1	.1	.9	47	2.2	1.6	1.0	1.4	54
26	35	9	6	.1	.1	.8	41	2.4	1.0	.6	1.0	56
27	36	8	5.5	.1	.1	1.6	15	2.2	1.0	.8	.9	55
28	38	8	5.5	.1	.1	1.4	15	2.2	2.0	1.4	.7	55
29	35	7	6.5	.1		2.8	18	2.8	1.8	1.0	.4	53
30	18	6.5	7	.1		3.0	34	3.0	1.0	.7	.5	55
31	2.8		8	.1		3.3		3.0		.8	.9	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	46	2.8	30.6	1,880
November	22	2.6	11.5	684
December	9.5	3.6	6.38	392
January	10	.1	3.23	199
February	.1	.1	.10	5.6
March	3.3	.1	.63	38.9
April	106	1.4	20.2	1,200
May	96	1.6	21.8	1,340
June	6.5	.9	2.31	137
July	2.4	.6	1.39	85.5
August	2.4	.2	.91	55.7
September	75	29	57.4	3,420
The year	106	.1	13.0	9,440

Seepage from Silver Lake near Kirkwood, Calif.

Location.- Staff gage in SW¼ sec. 32, T. 10 N., R. 17 E., just above road crossing and half a mile northeast of Silver Lake Dam. Altitude, about 7,200 feet.

Records available.- October 1929 to September 1934.

Extremes.- Maximum discharge during year, 16 second-feet Apr. 25 to May 29; no flow during most of year.
1929-34: Maximum discharge, 25 second-feet June 9, 1930; no flow during most of each year.

Remarks.- Records good. No flow when Silver Lake gage height is below 14.0 feet. This record shows amount of largest and only important seepage from Silver Lake through the porous rock formation. (See Silver Lake outlet.)

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1							0	16	14	13	8	3.0
2							0	16	14	13	8	2.0
3							0	16	14	13	6.5	1.4
4							0	16	14	13	6.5	1.4
5							0	16	14	13	6.5	.9
6							0	16	14	13	6.5	.9
7							0	16	14	13	6.5	.9
8							0	16	14	13	6.5	.3
9							0	16	14	13	6.5	.2
10							0	16	14	13	6.5	.1
11							10	16	14	13	6.5	0
12							10	16	14	13	6.5	0
13							10	16	14	13	5	0
14							10	16	14	13	5	0
15							10	16	15	12	5	0
16							12	16	15	12	4.0	0
17							12	16	15	12	4.0	0
18							12	16	15	12	4.0	0
19							12	16	15	11	4.0	0
20							13	16	15	11	3.0	0
21							14	16	15	11	3.0	0
22							14	16	14	9.5	3.0	0
23							14	16	14	9.5	3.0	0
24							15	16	14	9.5	3.0	0
25							16	16	14	9.5	3.0	0
26							16	16	14	9.5	3.0	0
27							16	16	13	9.5	3.0	0
28							16	16	13	8	3.0	0
29							16	16	13	8	3.0	0
30							16	14	13	8	3.0	0
31								14		8	3.0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	16	0	8.80	524
May	16	14	15.9	978
June	15	13	14.1	839
July	13	8	11.4	701
August	8	3.0	4.77	293
September	3.0	0	.37	22.0
The year	16	0	4.63	3,360

Note.- No flow during months left blank.

Silver Fork of South Fork of American River near Kyburz, Calif.

Location.- Water-stage recorder in NE¼ sec. 34, T. 11 N., R. 15 E., 2 miles above mouth and 2 miles southeast of Kyburz. Altitude, about 4,850 feet.

Drainage area.- 108 square miles.

Records available.- August 1924 to September 1934.

Average discharge.- 10 years, 161 second-feet.

Extremes.- Maximum discharge during year, 1,010 second-feet Mar. 29 (gage height, 4.20 feet); minimum, 17 second-feet Nov. 6.
1924-34: Maximum discharge, 3,620 second-feet Mar. 25, 1928 (gage height, 6.54 feet); minimum, 1.4 second-feet Dec. 6, 1929.

Remarks.- Records good except those estimated, Oct. 16 to Nov. 1. No diversions. Storage in Twin and Silver Lakes.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	35	49	161	82	85	242	242	98	88	28	88
2	53	32	49	128	82	96	205	207	92	88	27	93
3	51	32	56	116	74	132	174	207	88	85	26	84
4	50	26	54	109	75	140	165	190	85	60	26	89
5	47	20	58	100	93	167	167	201	89	53	26	89
6	27	25	68	96	91	152	182	203	142	53	27	88
7	27	31	66	91	65	140	207	221	154	44	28	88
8	29	30	64	88	106	130	209	207	170	35	31	75
9	30	29	64	66	91	135	196	145	201	40	44	70
10	30	29	64	89	77	147	201	163	201	48	46	70
11	29	29	65	79	70	152	209	180	161	47	64	72
12	29	29	156	85	66	174	270	186	132	49	65	72
13	29	28	190	74	65	182	303	212	122	50	72	70
14	29	28	116	70	63	198	288	239	156	40	84	70
15	29	28	96	70	65	205	242	170	133	32	92	70
16	28	27	86	68	72	205	194	182	132	37	92	70
17	30	26	95	70	69	194	184	176	151	43	112	72
18	36	26	93	69	70	201	176	154	133	44	109	70
19	35	38	88	70	88	216	178	149	116	43	116	70
20	36	37	85	75	95	216	174	142	88	45	120	69
21	36	34	85	75	84	201	176	138	85	37	120	68
22	38	29	86	78	81	196	178	132	75	32	120	68
23	40	32	89	85	85	212	219	132	73	31	120	77
24	39	41	92	84	84	253	205	125	72	30	116	74
25	38	44	92	79	81	237	207	125	93	31	84	70
26	39	43	92	79	85	216	196	138	96	33	82	70
27	39	43	93	85	86	212	167	136	91	32	85	69
28	40	42	93	91	82	286	152	138	86	35	81	68
29	42	43	91	92		588	149	145	86	39	79	66
30	250	46	100	84		326	149	120	84	39	84	65
31	90		100	79		267		105		32	85	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	250	27	45.1	2,770
November	48	20	32.8	1,950
December	190	49	86.4	5,310
January	161	68	67.3	5,370
February	106	63	60.2	4,450
March	588	85	202	12,400
April	303	149	199	11,800
May	242	105	168	10,300
June	201	72	116	6,900
July	86	30	45.0	2,770
August	120	26	73.9	4,540
September	93	65	74.5	4,430
The year	588	20	101	73,000

Twin Lakes outlet near Kirkwood, Calif.

Location.- Water-stage recorder in SW¼ sec. 18, T. 10 N., R. 18 E., 500 feet below main dam and outlet gate of Twin Lakes and 1 mile east of Kirkwood. Altitude, about 7,900 feet.

Drainage area.- 12.4 square miles.

Records available.- September 1922 to September 1934.

Average discharge.- 12 years, 24.6 second-feet. Combined discharge of Twin Lakes outlet and Twin Lakes spillway, 12 years, 26.6 second-feet.

Extremes.- Maximum discharge during year, 106 second-feet Aug. 12 (gage height, 1.50 feet); minimum, 0.4 second-foot Sept. 2.
1922-34: Maximum discharge, 176 second-feet May 25-28, 1928 (gage height, 1.95 feet); minimum, 0.2 second-foot, leakage at various times.

Remarks.- Records excellent. No diversions. Storage in Twin Lakes was 16,700 acre-feet on Sept. 30, 1933, and 15,600 acre-feet on Sept. 30, 1934. For total flow add flow of Twin Lakes spillway near Kirkwood.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	1.5	31	31	12	1.5	1.5	4.4	8	49	7	36
2	1.5	1.5	36	31	3.8	1.5	1.5	3.1	8	49	7	.8
3	1.5	1.5	40	31	3.8	1.5	1.5	4.4	7.5	32	6.5	1.4
4	1.5	1.5	40	32	3.8	1.5	1.5	4.1	7.5	17	7	1.5
5	1.5	1.5	45	32	3.8	1.5	1.5	4.1	8	16	9.5	1.5
6	1.5	1.5	50	32	2.1	1.5	1.7	4.4	8.5	9.5	12	1.5
7	1.5	1.5	51	32	1.4	1.5	1.7	4.1	8.5	1.5	15	1.5
8	1.5	1.7	51	32	1.5	1.5	1.5	4.8	9	8.5	27	1.5
9	1.5	1.7	50	32	1.4	1.5	1.7	5.5	9	17	31	1.5
10	1.5	1.7	50	31	1.4	1.5	1.7	3.8	8.5	16	43	1.5
11	1.5	1.7	50	31	1.4	1.5	1.7	4.4	8	19	50	1.5
12	1.5	1.5	50	31	1.4	1.5	1.5	7	8	20	53	1.5
13	1.5	1.5	50	31	1.5	1.7	1.5	9	8.5	12	59	1.5
14	1.5	1.5	50	31	1.5	1.7	1.5	7.5	8	3.1	71	1.5
15	1.5	1.5	50	31	1.5	1.7	1.5	8	8	10	72	1.5
16	1.5	1.5	50	31	1.5	1.7	1.5	8.5	8.5	16	75	1.5
17	1.5	1.5	50	31	1.5	1.7	1.5	8.5	8.5	17	95	1.5
18	1.5	1.5	50	31	1.5	1.7	1.5	8.5	7.5	16	90	1.5
19	1.5	1.5	50	31	1.5	1.7	1.7	8	7	20	96	1.5
20	1.5	1.5	50	31	1.5	1.7	1.7	8	7	14	100	1.5
21	1.5	1.5	51	31	1.5	1.7	1.7	8	7.5	7	100	1.5
22	1.5	10	50	31	1.5	1.7	1.7	8	14	7	100	1.5
23	1.5	18	50	31	1.5	2.0	1.7	8	17	6.5	100	1.7
24	1.5	24	50	31	1.5	1.7	1.7	8	32	8	80	1.7
25	1.5	24	50	31	1.5	1.5	2.2	8	40	12	66	1.7
26	1.5	24	50	31	1.5	1.5	3.3	8.5	40	12	66	1.5
27	1.5	24	50	31	1.5	1.7	3.8	8	39	13	66	1.5
28	1.5	28	39	31	1.5	2.4	3.6	7.5	40	17	64	1.5
29	1.7	31	32	25		2.0	3.6	7.5	42	18	66	1.5
30	2.6	31	31	17		1.5	4.1	8	45	14	71	1.5
31	1.7		31	17		1.5		8		7.5	71	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.6	1.5	1.55	95.3
November	31	1.5	8.21	489
December	51	31	46.1	2,830
January	32	17	30.1	1,850
February	12	1.4	2.21	123
March	2.4	1.5	1.64	101
April	4.1	1.5	1.96	117
May	9	3.1	6.70	412
June	45	7	15.9	946
July	49	1.5	15.6	959
August	100	6.5	57.3	3,520
September	36	.8	2.64	157
The year	100	.8	16.0	11,600

Twin Lakes spillway near Kirkwood, Calif.

Location.- Staff gage in NE¼ sec. 22, T. 10 N., R. 17 E., 300 feet below Twin Lakes Reservoir auxiliary dam, half a mile southeast of Kirkwood, and 1 mile southwest of Twin Lakes Reservoir main dam. Altitude, about 7,900 feet.

Records available.- June 1925 to September 1934.

Extremes.- Maximum discharge during year, 180 second-feet May 13 (gage height, 2.60 feet); no flow during most of year.
1925-34: Maximum discharge, 260 second-feet June 21, 1932 (gage height, 3.10 feet); no flow most of each year.

Remarks.- Records fair. See also record for Twin Lakes outlet.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	19			
2								0	19			
3								0	17			
4								0	18			
5								0	21			
6								0	44			
7								0	44			
8								0	33			
9								0	54			
10								0	54			
11								0	52			
12								33	38			
13								180	45			
14								89	56			
15								60	47			
16								77	47			
17								66	47			
18								56	47			
19								56	23			
20								56	12			
21								52	9			
22								52	0			
23								51	0			
24								54	0			
25								49	0			
26								54	0			
27								64	0			
28								39	0			
29								18	0			
30								19	0			
31								20				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	0	0	0	0
May	180	0	36.9	2,270
June	56	0	24.9	1,480
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	180	0	5.16	3,750

Note.- No flow during months left blank.

El Dorado Canal near Kyburz, Calif.

Location.- Water-stage recorder in SE¼ sec. 29, T. 11 N., R. 15 E., 400 feet below intake and 2 miles west of Kyburz. Altitude, about 4,100 feet.

Records available.- October 1922 to September 1934.

Average discharge.- 12 years, 93.7 second-feet.

Extremes.- Maximum mean daily discharge during year, 150 second-feet May 22-24; minimum, 3.9 second-feet Mar. 21.
1922-34: Maximum mean daily discharge, 158 second-feet June 18, 1931; no flow at times in most years.

Remarks.- Records excellent. Canal diverts from left bank of South Fork of American River 2 miles below Kyburz; water used for power and irrigation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	57	54	64	90	93	93	122	147	110	96	82
2	53	64	53	74	92	94	93	128	147	110	94	94
3	52	70	67	82	94	94	93	132	130	120	93	80
4	51	65	62	82	92	94	93	136	124	124	92	84
5	51	48	61	82	92	92	93	138	136	115	89	84
6	39	47	74	82	92	92	93	138	134	114	88	82
7	47	50	76	82	89	92	93	135	141	112	86	82
8	49	63	80	82	87	92	92	138	141	102	83	76
9	50	85	78	82	92	92	92	138	141	107	88	80
10	49	84	78	82	92	92	92	139	144	113	86	81
11	48	85	81	82	92	92	92	139	144	111	96	82
12	47	83	88	82	92	92	92	139	144	111	90	82
13	47	79	82	82	92	92	92	138	144	110	84	80
14	47	75	82	82	92	92	92	138	144	114	88	80
15	46	72	82	82	89	92	94	142	144	104	94	82
16	45	68	55	82	83	92	96	145	145	108	91	82
17	47	64	80	82	90	92	97	144	145	113	107	82
18	49	57	82	82	92	92	100	145	144	112	107	81
19	49	60	82	82	88	27	101	145	143	111	111	82
20	47	55	82	82	82	4.5	108	145	124	115	117	82
21	47	49	82	82	90	3.9	111	148	122	123	119	82
22	51	43	82	82	92	40	111	150	116	116	119	82
23	50	44	82	82	89	93	115	150	107	113	118	88
24	48	53	82	82	90	93	119	150	100	110	116	87
25	48	55	82	82	92	93	121	141	118	109	82	90
26	49	53	82	82	92	93	125	143	126	110	81	93
27	48	52	82	82	93	93	126	144	131	107	85	92
28	51	51	82	82	93	93	126	148	118	107	82	92
29	53	49	82	84		93	126	147	113	109	80	90
30	56	57	82	87		93	130	140	107	107	82	87
31	57		82	88		93		141		102	84	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	57	39	49.2	3,030
November	85	43	61.2	3,640
December	88	53	76.8	4,720
January	88	64	81.6	5,020
February	94	82	90.5	5,030
March	94	3.9	83.1	5,110
April	130	92	103	6,130
May	150	122	141	8,670
June	147	100	132	7,860
July	124	102	111	6,820
August	119	80	94.5	5,810
September	94	76	84.1	5,000
The year	150	3.9	92.4	66,800

Alder Creek near Whitehall, Calif.

Location.- Water-stage recorder in SW¼ sec. 36, T. 11 N., R. 14 E., three-quarters of a mile above mouth and 2 miles southeast of Whitehall. Altitude, about 4,000 feet.

Drainage area.- 22.8 square miles.

Records available.- October 1922 to September 1934.

Average discharge.- 12 years, 24.6 second-feet.

Extremes.- Maximum discharge during year, 139 second-feet Dec. 13 (gage height, 2.34 feet); minimum, 0.1 second-foot many days in October, August, and September.
1922-34: Maximum discharge, about 2,060 second-feet Mar. 25, 1928 (gage height, 7.1 feet); minimum, 0.1 second-foot at times in 1924, 1926, 1931, 1933, and 1934.

Remarks.- Records good except those for Nov. 27 to Feb. 22, which include estimated flow in pipe line diverting just above station, and Oct. 19-26, which were interpolated.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	3.0	0.6	102	18	42	50	16	5	1.2	0.1	0.1
2	.1	1.9	.6	74	19	42	46	16	4.2	1.0	.1	.1
3	.1	1.5	1.6	54	19	44	40	17	3.4	.8	.1	.1
4	.1	1.2	2.1	44	19	45	36	16	3.0	.8	.1	.1
5	.1	1.0	2.0	36	21	47	34	14	5	.7	.1	.1
6	.1	.8	2.0	31	24	46	32	13	8	.6	.1	.1
7	.1	.8	2.1	28	27	44	31	12	7	.6	.1	.1
8	.1	.8	2.1	24	45	41	30	11	7.5	.6	.1	.1
9	.1	.7	2.1	22	39	41	27	11	9	.6	.1	.1
10	.1	.7	2.2	20	34	40	26	9.5	9.5	.6	.1	.1
11	.1	.7	2.2	18	30	40	26	9	8	.6	.1	.1
12	.2	.6	44	17	27	41	25	7.5	7	.5	.1	.1
13	.2	.6	84	15	25	42	24	7	7	.4	.1	.1
14	.2	.6	33	14	24	42	23	6.5	7.5	.4	.1	.1
15	.2	.6	24	13	25	44	22	6	6.5	.4	.1	.1
16	.2	.6	18	12	27	44	21	5.5	5	.3	.1	.1
17	.2	.6	10	12	27	42	20	5	4.6	.3	.1	.1
18	.2	.6	9.5	11	27	41	19	5	4.2	.3	.1	.1
19	.2	.6	9.5	11	40	41	18	4.6	3.8	.3	.1	.1
20	.2	.6	9	13	45	41	16	3.8	3.0	.3	.1	.1
21	.2	.6	8.5	13	42	40	16	3.0	2.8	.3	.1	.1
22	.2	.6	8.5	13	41	39	16	2.6	2.3	.2	.1	.1
23	.2	.6	8.5	15	45	41	19	2.6	2.1	.2	.1	.3
24	.2	.6	8.5	16	44	46	20	2.6	1.9	.2	.1	.6
25	.2	.6	8.5	16	42	42	19	3.0	1.9	.2	.1	.3
26	.2	.6	8.5	17	46	40	16	6	3.0	.2	.1	.2
27	.2	.6	9	18	45	39	15	6	2.3	.2	.1	.2
28	.2	.6	9	19	44	45	14	6	1.9	.2	.1	.2
29	5	.6	20	19		79	13	7.5	1.7	.2	.1	.2
30	16	.6	36	18		63	13	7	1.2	.2	.1	.2
31	7		35	18		57		6		.2	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	16	0.1	1.05	64.6
November	3.0	.6	.82	48.6
December	84	.6	13.6	836
January	102	11	24.3	1,490
February	46	18	32.5	1,800
March	79	39	44.5	2,740
April	50	13	24.2	1,440
May	17	2.6	7.99	491
June	9.5	1.2	4.64	276
July	1.2	.2	.44	27.0
August	.1	.1	.10	6.1
September	.6	.1	.15	8.7
The year	102	.1	12.8	9,230

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Plum Creek near Riverton, Calif.

Location.- Water-stage recorder in SE¼ sec. 32, T. 11 N., R. 14 E., 1½ miles above mouth and 2 miles southeast of Riverton. Altitude, about 4,100 feet.

Drainage area.- 6.8 square miles.

Records available.- November 1922 to September 1934.

Average discharge.- 12 years, 6.48 second-feet.

Extremes.- Maximum discharge during year probably occurred during period of no record in December or January; minimum, 0.1 second-foot Aug. 15-22.
1922-34: Maximum discharge, 635 second-feet Mar. 25, 1928 (gage height, 4.10 feet); minimum, 0.1 second-foot at times during 1924-26, 1930-34.

Remarks.- Records good except those estimated, Oct. 29-30, Nov. 1 to Jan. 5. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2				3.4	22	3.0	2.3	0.8	0.3	0.2	0.2
2	.2				3.2	18	2.8	1.8	.7	.3	.2	.2
3	.2			25	3.0	16	2.5	1.6	.7	.3	.2	.2
4	.2				2.8	14	2.3	1.5	.7	.2	.2	.2
5	.2				2.8	12	2.3	1.2	.7	.2	.2	.2
6	.2			11	2.8	11	2.1	1.1	1.4	.2	.2	.2
7	.2			9.5	3.4	9.5	1.9	.9	1.2	.2	.2	.2
8	.2			7.5	11	8.5	1.8	.8	1.1	.2	.2	.2
9	.2			6	9	7.5	1.7	.8	1.0	.2	.2	.2
10	.2			5.5	7.5	7	1.6	.8	.9	.2	.2	.2
11	.2			4.9	6.5	6	1.5	.7	.8	.2	.2	.2
12	.2			4.3	5.5	5.5	1.4	.7	.7	.2	.2	.2
13	.2			3.8	5	5.5	1.4	.7	.7	.2	.2	.2
14	.2			3.4	4.6	4.9	1.4	.7	.8	.2	.2	.2
15	.2			3.4	5	4.6	1.4	.7	.7	.2	.1	.2
16	.2			3.2	7.5	4.3	1.4	.7	.7	.2	.1	.2
17	.2			3.0	8.5	4.1	1.2	.7	.6	.2	.1	.2
18	.2			2.8	8	3.6	1.2	.7	.6	.2	.1	.2
19	.2			2.8	20	3.4	1.1	.7	.6	.2	.1	.2
20	.2			2.8	23	3.2	1.1	.7	.6	.2	.1	.2
21	.2			2.7	18	2.8	1.1	.6	.5	.2	.1	.2
22	.2			2.7	16	2.8	1.2	.6	.5	.2	.1	.2
23	.2			3.4	30	3.0	1.5	.6	.4	.2	.2	.4
24	.2			3.8	30	3.0	1.5	.6	.4	.2	.2	.4
25	.2			3.8	24	2.7	1.4	.7	.4	.2	.2	.2
26	.2			4.1	38	2.5	1.2	1.0	.6	.2	.2	.2
27	.2			4.1	36	2.3	1.0	.9	.5	.2	.2	.2
28	.2			4.1	26	2.7	.9	1.0	.4	.2	.2	.2
29	4			3.8		6	.9	1.4	.4	.2	.2	.2
30	9			3.6		3.6	1.0	1.2	.4	.2	.2	.2
31	4.3			3.4		3.2		1.0		.2	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9	0.2	0.74	45.4
November			.6	35.7
December			5	307
January		2.7	7.69	473
February	38	2.8	12.9	716
March	22	2.3	6.62	407
April	3.0	.9	1.56	92.8
May	2.3	.6	.95	58.3
June	1.4	.4	.68	40.6
July	.3	.2	.21	12.9
August	.2	.1	.17	10.7
September	.4	.2	.21	12.7
The year		.1	3.05	2,210

Silver Creek at Union Valley, Calif.

Location.- Water-stage recorder in SE¼ sec. 20, T. 12 N., R. 14 E., 1 mile below junction of North and Middle Forks of Silver Creek, near lower end of Union Valley. Altitude, about 4,530 feet.

Drainage area.- 82.7 square miles.

Records available.- October 1924 to September 1934 (not complete).

Extremes.- Maximum discharge during year, 2,330 second-feet Mar. 29 (gage height, 7.01 feet minimum, 2.0 second-feet Sept. 1-22.
1924-34: Maximum discharge, about 9,600 second-feet Mar. 25, 1928 (gage height, 14.7 feet); minimum, 1.9 second-feet Aug. 27-28, 1931.

Remarks.- Records excellent except those for Oct. 30 to Nov. 7 and Sept. 12-30, which were estimated. No diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	135	12	242	136	144	342	198	64	19	3.2	2.2
2	5	100	13	174	152	162	289	242	58	17	3.0	2.2
3	5	85	16	138	136	212	226	324	50	14	3.0	2.2
4	5	75	16	122	136	228	218	287	46	14	2.9	2.1
5	5	55	17	106	150	280	240	238	68	12	2.9	2.1
6	5	40	19	96	154	256	276	208	216	12	2.9	2.1
7	5	35	21	91	160	234	311	192	214	11	2.9	2.1
8	5	27	26	83	236	218	309	169	178	10	2.7	2.1
9	5	26	32	88	171	236	278	147	111	9	2.7	2.1
10	5	25	29	83	138	256	283	139	90	7	2.6	2.1
11	5	24	33	74	121	248	287	139	75	6	2.6	2.1
12	5	23	198	76	117	287	283	128	61	6	2.4	2.0
13	5	22	256	71	115	309	272	118	60	6	2.4	2.0
14	5	22	100	70	111	327	264	101	67	5.5	2.4	2.0
15	5	24	86	68	114	329	324	94	90	5	2.4	2.0
16	5	24	73	67	127	331	291	85	61	5	2.3	2.0
17	5	22	73	68	121	307	242	76	49	5	2.3	2.0
18	5	19	67	68	125	331	216	68	44	4.3	2.3	2.0
19	5	17	63	75	191	352	214	63	41	4.5	2.2	2.0
20	5	17	59	91	189	302	216	60	37	4.2	2.2	2.0
21	5	16	59	82	149	285	216	56	34	4.0	2.2	2.0
22	5	15	63	88	141	278	222	54	31	4.0	2.2	2.0
23	5	14	66	108	157	318	324	51	27	4.0	2.2	2.5
24	5	14	66	101	152	359	302	50	25	3.8	2.2	6
25	5	14	66	91	147	349	260	54	24	3.7	2.2	5.5
26	5	13	68	95	164	322	226	92	29	3.7	2.3	5
27	5	13	73	120	158	294	191	90	37	3.5	3.0	5
28	5	13	76	131	144	477	169	66	31	3.4	3.2	5
29	6.5	12	107	128		1,400	150	90	26	3.2	2.7	5
30	400	11	120	128		544	149	90	22	3.2	2.4	5
31	340		122	130		378		62		3.2	2.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	400	5	28.6	1,760
November	135	11	31.7	1,890
December	256	12	67.6	4,160
January	242	67	102	6,270
February	236	111	147	8,160
March	1,400	144	334	20,500
April	342	149	253	15,100
May	324	50	124	7,620
June	216	22	65.5	3,900
July	19	3.2	6.99	430
August	3.2	2.2	2.55	157
September	6	2.0	2.81	167
The year	1,400	2.0	96.8	70,100

Silver Creek near Placerville, Calif.

Location.- Water-stage recorder in SW¼ sec. 13, T. 11 N., R. 12 E., a quarter of a mile above mouth and 12 miles northeast of Placerville. Altitude, about 2,250 feet.

Drainage area.- 176 square miles.

Records available.- December 1921 to September 1934.

Average discharge.- 12 years (1922-34), 308 second-feet.

Extremes.- Maximum discharge during year, 2,910 second-feet Mar. 29 (gage height, 7.10 feet); minimum, 5.5 second-feet Sept. 18.
1921-34: Maximum discharge, about 16,900 second-feet Mar. 25, 1928 (gage height, 18.0 feet); minimum, 5.5 second-feet Sept. 18, 1934.

Remarks.- Records good except those for July 15-30, when discharge was interpolated. No diversions.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	216	31	724	249	400	601	337	120	34	18	17
2	29	172	34	562	262	403	515	365	112	31	18	14
3	28	158	53	418	247	448	427	494	97	30	18	13
4	25	127	45	337	234	461	406	501	90	29	18	12
5	23	98	41	284	249	526	403	421	101	28	18	12
6	20	75	41	249	257	508	442	374	265	27	18	10
7	20	64	45	225	276	474	488	348	376	26	18	10
8	19	62	46	202	455	448	508	323	332	26	18	9.5
9	19	59	57	180	371	455	471	290	247	25	17	9
10	19	56	59	198	301	477	455	265	198	25	17	8.5
11	19	55	58	162	260	468	468	257	164	24	16	8
12	18	53	311	178	242	505	455	247	134	22	16	8
13	18	50	665	162	232	533	452	234	118	21	16	7.5
14	18	48	292	152	222	544	421	205	124	20	16	7
15	18	48	222	158	225	563	442	185	160	20	16	6.5
16	18	48	160	142	284	563	491	170	143	20	16	6
17	18	47	142	154	273	530	400	154	110	20	16	6
18	18	45	147	151	265	540	360	140	93	20	16	6
19	18	43	134	158	376	582	348	131	80	19	16	6
20	18	40	122	174	452	526	348	120	72	19	16	6.5
21	18	38	117	176	379	494	346	112	63	19	16	6.5
22	19	38	120	172	348	474	362	107	58	19	16	7.5
23	19	36	124	205	418	512	455	106	49	19	16	16
24	19	35	125	220	421	582	508	103	44	19	16	48
25	19	35	125	198	394	563	442	107	42	19	16	32
26	19	34	133	196	468	544	400	136	44	19	16	25
27	19	34	134	211	464	498	332	178	51	18	17	22
28	20	34	138	244	421	620	306	124	51	18	19	21
29	21	32	191	244		1,930	276	168	42	18	20	20
30	544	31	332	242		978	265	196	37	18	19	20
31	436		298	244		660		133		18	18	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	544	18	50.5	3,110
November	216	31	63.7	3,790
December	665	31	147	9,040
January	724	142	237	14,600
February	468	222	323	17,900
March	1,930	400	574	35,300
April	601	265	420	25,000
May	501	103	227	14,000
June	376	37	121	7,200
July	34	18	22.3	1,370
August	20	16	17.0	1,050
September	48	6	13.4	797
The year	1,930	6	184	133,000

South Fork of Silver Creek near Ice House, Calif.

Location.- Water-stage recorder in SW¼ sec. 1, T. 11 N., R. 14 E., 8 miles northeast of Riverton and 1½ miles northeast of Ice House. Altitude, about 5,300 feet.

Drainage area.- 28.4 square miles.

Records available.- October 1924 to September 1934, July to October 1922 at site 1 mile upstream.

Average discharge.- 10 years, 59.3 second-feet.

Extremes.- Maximum discharge during year, 558 second-feet Mar. 29 (gage height, 3.35 feet); minimum, 0.2 second-foot Aug. 17-25 and Sept. 2-22.
1924-34: Maximum discharge, 1,620 second-feet Mar. 26, 1928 (gage height, 5.35 feet); minimum, 0.1 second-foot Aug. 21 to Sept. 6, 1931.

Remarks.- Records good except those estimated, Nov. 7-8, and periods of ice effect, Dec. 16-18, Jan. 22 to Mar. 15, also estimated. No diversions.

Discharge. in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	55	3.2	33			150	84	35	9.5	0.5	0.3
2	.6	44	3.2	30			122	96	30	9	.3	.2
3	.5	38	3.5	26			98	127	25	8	.3	.2
4	.3	30	3.5	24			95	126	24	7.5	.3	.2
5	.3	18	4.4	21			103	108	37	6.5	.3	.2
6	.3	14	5.5	19			121	101	80	5.5	.3	.2
7	.3	12	6	18			141	99	99	4.7	.3	.2
8	.3	11	7	17		90	145	95	101	4.4	.3	.2
9	.3	9.5	10	18			136	86	77	4.1	.3	.2
10	.3	9	10	17			137	79	62	3.8	.3	.2
11	.3	8.5	11	16			137	80	54	3.2	.3	.2
12	.3	8	30	16			139	81	46	2.6	.3	.2
13	.3	8	45	16			134	77	41	2.0	.3	.2
14	.3	8	26	15			132	68	46	1.8	.3	.2
15	.3	8	24	15			132	63	76	1.7	.3	.2
16	.3	8	22	15		101	122	58	5e	1.5	.3	.2
17	.3	7	20	14		98	108	51	44	1.5	.2	.2
18	.3	6	18	14		106	102	46	36	1.3	.2	.2
19	.3	5.5	17	15		115	99	41	30	1.2	.2	.2
20	.3	5	16	19		101	98	37	26	1.2	.2	.2
21	.3	5	14	19		97	99	35	22	1.2	.2	.2
22	.3	5	14			96	102	37	19	1.2	.2	.2
23	.3	4.7	15			110	143	36	18	1.0	.2	.3
24	.3	4.4	16			126	150	33	16	1.0	.2	1.7
25	.3	4.1	16			122	121	32	15	1.0	.2	1.5
26	.3	4.1	17	25		118	103	45	18	.8	.3	1.3
27	.3	4.1	17			112	91	42	19	.8	.3	1.2
28	.3	4.1	18			160	81	37	15	.6	.5	1.3
29	.6	3.5	21			443	76	66	12	.6	.5	1.3
30	67	3.2	22			248	70	50	10	.6	.3	1.2
31	96		23			174		36		.6	.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	96	0.3	5.57	342
November	55	3.2	11.8	702
December	45	3.2	15.4	947
January			20.9	1,290
February			30	1,670
March	443		119	7,320
April	150	70	116	6,900
May	127	32	66.2	4,070
June	101	10	39.7	2,360
July	9.5	.6	2.92	180
August	.5	.2	.29	17.8
September	1.7	.2	.48	28.4
The year	443	.2	35.7	25,800

Finnon Reservoir outlet near Placerville, Calif.

Location.- Staff gage in SE¼ sec. 16, T. 11 N., R. 11 E., at weir 400 feet below Finnon Reservoir and 10 miles northeast of Placsrville. Altitude, about 2,450 feet.

Records available.- October 1922 to September 1934.

Average discharge.- 12 years, 3.13 second-feet.

Extremes.- Maximum mean daily discharge during year, 26 second-feet Dec. 30-31; no flow for several months.
1922-34: Maximum discharge, 106 second-feet Mar. 21, 1925 (gage height, 2.60 feet); water is usually out of canal part of each day.

Remarks.- Records good. Water is diverted into Finnon Reservoir from One Eye and Slab Creeks. Outlet flow used for power development.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1.2	0.6	8.5	3.8	8		0	4.1	22	0.3	
2	.6	1.2	.6	3.0	3.8	2.7		0	2.1	22	.3	
3	.6	1.2	.6	3.0	.6	.4		0	2.1	22	.3	
4	.6	0	.6	2.4	.9	.6		3.4	2.1	22	.3	
5	.6	0	.6	1.4	.7	.6		3.9	2.1	.3	.3	
6	.6	.3	.6	0	.6	.6		3.0	2.1	.6	.3	
7	0	.3	.6	0	.4	.6		3.0	2.1	.6	.3	
8	0	.3	.6	2.4	5	8		3.0	2.1	.6	.3	
9	.6	.3	.6	2.4	5	2.7		3.0	0	.6	.3	
10	.6	.3	.6	2.4	.6	.4		3.9	0	.6	.3	
11	.6	0	.6	4.3	.6	.6		3.9	0	.6	.3	
12	.6	0	14	9.5	.6	.6		3.9	0	.6	.3	
13	.6	.6	14	1.2	.6	.6		3.9	3.6	.6	.3	
14	0	.6	14	1.2	.4	.4		3.9	5.5	.6	.3	
15	0	.6	14	1.2	3.8	4.5		3.9	6.5	.3	.3	
16	1.8	.6	0	1.2	5	.9		3.9	6.5	.3	.3	
17	1.8	.6	0	1.2	2.1	.4		3.9	6	.3	.2	
18	1.8	0	.6	4.1	3.0	.6		3.9	5.5	.3	0	
19	1.8	0	.6	3.8	3.0	.6		5.5	5.5	.3	0	
20	1.8	.6	.6	1.2	3.0	.6		5.5	5.5	.3	0	
21	0	.6	.6	1.2	2.1	.1		4.1	5.5	.3	0	
22	0	.6	.6	1.2	8	3.9		4.1	5.5	.6	0	
23	.6	.6	0	.6	2.7	0		4.1	5.5	.6	0	
24	.6	.6	0	3.8	3.0	.5		4.1	5.5	.3	0	
25	.6	0	0	3.6	3.0	.7		4.1	5.5	.3	0	
26	.6	.6	.6	1.2	3.0	0		4.1	5.5	.3	0	
27	.6	.6	.6	1.2	3.0	0		4.1	5.5	.3	0	
28	0	.6	.6	1.2	3.0	0		4.1	5.5	.3	0	
29	0	.6	2.3	1.2		0		4.1	5.5	.3	0	
30	2.4	.6	26	.3		0		4.1	5.5	.3	0	
31	2.4		26	4.2		0		4.1		.3	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.4	0	0.74	45.2
November	1.2	0	.47	28.0
December	26	0	3.93	242
January	9.5	0	2.40	148
February	8	.4	2.55	142
March	8	0	1.28	78.7
April	0	0	0	0
May	5.5	0	3.56	219
June	6.5	0	3.95	235
July	22	.3	3.21	197
August	.3	0	.16	9.9
September	0	0	0	0
The year	26	0	1.66	1,340

Note.- No flow during months left blank.

South Fork of American River flume near Camino, Calif.

Location.- Water-stage recorder in SW¼ sec. 25, T. 11 N., R. 11 E., 1 mile below diversion dam and 3 miles northwest of Camino. Altitude, about 1,710 feet.

Records available.- November 1922 to September 1934.

Average discharge.- 12 years, 87.9 second-feet.

Extremes.- Maximum mean daily discharge during year, 123 second-feet June 11; no flow at times.

1922-34: Maximum mean daily discharge, 124 second-feet Jan. 20, 1931; no flow at times each year.

Remarks.- Records good. Flume diverts from South Fork of American River in SW¼ sec. 24, T. 11 N., R. 11 E., and is used to develop power in SW¼ sec. 20, T. 11 N., R. 11 E., just above mouth of Rock Creek, where water is returned to river.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	0	86	87	86	91	85	116	118	100	60	49
2	43	0	71	92	93	72	103	115	119	101	56	50
3	50	8	56	63	55	0	108	116	118	109	53	52
4	46	66	86	0	0	50	97	115	119	106	58	46
5	39	91	86	0	0	77	114	116	120	96	56	48
6	47	101	92	64	0	78	111	116	121	102	54	47
7	38	98	101	66	15	77	95	115	122	84	54	46
8	39	83	94	0	86	96	97	116	122	83	54	45
9	41	100	76	0	64	104	111	114	121	78	52	41
10	42	88	70	11	0	97	116	114	121	99	44	44
11	41	59	93	82	0	93	118	114	123	86	44	43
12	41	59	98	20	0	95	118	115	122	82	45	45
13	49	88	94	0	0	96	114	113	120	91	50	32
14	35	94	94	0	38	97	98	115	120	86	51	37
15	46	94	93	0	95	103	97	115	122	76	42	44
16	53	94	73	0	64	74	112	114	120	73	50	45
17	43	91	68	59	0	0	118	112	122	83	50	52
18	37	69	87	95	0	0	118	114	122	86	53	51
19	40	68	89	61	0	0	117	115	120	75	59	54
20	48	78	95	0	0	48	117	114	118	81	61	55
21	43	75	98	0	9.5	91	117	116	116	70	66	56
22	45	79	100	0	83	104	118	117	117	73	71	54
23	43	71	89	0	71	103	118	117	119	78	69	57
24	46	69	70	18	0	81	117	117	107	78	73	62
25	52	46	69	90	0	72	116	116	113	80	76	64
26	44	45	90	64	6	92	116	118	118	72	59	67
27	50	66	96	0	0	103	117	119	118	80	49	70
28	57	73	94	0	16	103	116	118	119	76	51	73
29	41	74	97	26		108	116	118	117	74	52	76
30	28	65	100	0		100	117	117	115	67	49	78
31	0		87	16		86		118		70	48	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	57	0	41.4	2,550
November	101	0	69.7	4,150
December	101	56	86.8	5,340
January	95	0	29.5	1,810
February	95	0	27.9	1,550
March	108	0	77.1	4,740
April	118	85	111	6,600
May	119	112	116	7,130
June	123	107	119	7,080
July	109	67	83.8	5,150
August	76	42	55.1	3,390
September	78	32	52.8	3,140
The year	123	0	72.7	52,600

Clear Lake at Lakeport, Calif.

Location.- Staff gage at municipal wharf on north side of Third Street at Lakeport, Lake County. Capacity, about 420,000 acre-feet. Altitude, about 1,320 feet.

Drainage area.- 420 square miles, including water surface of lake (65 square miles).

Records available.- February 1913 to September 1934.

Extremes.- Maximum gage height during year, 3.60 feet Mar. 29 to Apr. 22; minimum not known, probably early in December.
1913-34: Maximum gage height, 11.12 feet Jan. 28, 1914; minimum, -3.50 feet Sept. 24-27, 1920.

Remarks.- Gage-height record furnished by Clear Lake Water Co. Record Oct. 31 to Dec. 12 doubtful and not used; elevation probably below zero all of this period.

Daily gage height, in feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.05			1.30	2.00	3.30	3.60	3.45	2.85	2.35	1.52	0.80
2	.03			1.50	2.00	3.30	3.60	3.45	2.85	2.35	1.45	.80
3	.03			1.60	2.00	3.35	3.60	3.40	2.82	2.37	1.42	.75
4	.00			1.70	2.00	3.35	3.60	3.40	2.80	2.30	1.40	.75
5	.00			1.69	2.00	3.35	3.60	3.38	2.77	2.27	1.37	.75
6	.00			1.70	2.10	3.35	3.60	3.35	2.77	2.25	1.37	.72
7	.00			1.72	2.10	3.35	3.60	3.35	2.82	2.20	1.35	.70
8	.00			1.75	2.10	3.40	3.60	3.30	2.82	2.15	1.32	.67
9	.00			1.77	2.15	3.40	3.60	3.25	2.80	2.15	1.30	.67
10	.00			1.78	2.15	3.45	3.60	3.20	2.80	2.12	1.30	.65
11	.00			1.80	2.15	3.45	3.60	3.15	2.80	2.10	1.25	.62
12	.00			1.84	2.15	3.45	3.60	3.15	2.75	2.05	1.22	.57
13	.00		0	1.79	2.15	3.45	3.60	3.15	2.75	2.00	1.20	.55
14	.00		.09	1.80	2.20	3.45	3.60	3.15	2.70	1.97	1.17	.52
15	.00		.17	1.84	2.30	3.45	3.60	3.12	2.70	1.95	1.17	.52
16	.00		.16	1.82	2.40	3.45	3.60	3.12	2.70	1.95	1.15	.52
17	.00		.12	1.87	2.50	3.45	3.60	3.10	2.65	1.92	1.10	.52
18	.00		.10	1.85	2.60	3.45	3.60	3.10	2.62	1.90	1.05	.50
19	.00		.21	1.85	2.65	3.45	3.60	3.10	2.60	1.87	1.00	.45
20	.00		.26	1.97	2.70	3.45	3.60	3.08	2.57	1.85	1.00	.45
21	.00		.26	1.92	2.70	3.45	3.60	3.06	2.57	1.82	.97	.42
22	.00		.27	1.91	2.80	3.50	3.60	3.00	2.50	1.77	.95	.37
23	.00		.27	2.01	2.90	3.50	3.55	3.00	2.50	1.75	.87	.37
24	.00		.29	1.96	2.95	3.50	3.55	3.00	2.40	1.70	.85	.35
25	.00		.28	1.90	2.95	3.50	3.55	2.97	2.40	1.70	.82	.35
26	.00		.29	1.92	3.10	3.50	3.50	2.96	2.45	1.67	.80	.32
27	.00		.40	1.93	3.20	3.50	3.50	2.95	2.40	1.65	.80	.32
28	.00		.50	1.93	3.25	3.50	3.50	2.95	2.40	1.60	.80	.32
29	.00		.70	1.92		3.60	3.45	2.93	2.40	1.60	.80	.30
30	.00		1.00	1.97		3.60	3.45	2.90	2.40	1.60	.80	.27
31			1.10	1.95		3.60		2.88		1.55	.80	

Cache Creek at Yolo, Calif.

Location.- Water-stage recorder in Rio Jesus Maria grant, 800 feet above highway bridge, 1,000 feet above Southern Pacific Co.'s railroad bridge, and half a mile south of Yolo, Yolo County. Altitude, about 60 feet.

Drainage area.- 1,230 square miles.

Records available.- January 1903 to September 1934.

Average discharge.- 31 years, 495 second-feet.

Extremes.- Maximum discharge during year, 4,240 second-feet Dec. 30 (gage height, 8.82 feet); no flow for several months.
1903-34: Maximum discharge, 21,100 second-feet Feb. 2, 1915 (gage height, 29.8 feet, present datum); no flow for periods in nearly every year.

Remarks.- Records good. Numerous irrigation diversions above station; storage at Clear Lake.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	1,350	0	490	25					
2			0	2,420	0	389	14					
3			0	370	0	318	6.5					
4			0	490	0	262	2.0					
5			0	314	0	220	0					
6			0	206	0	183	0					
7			0	143	0	173	0					
8			0	95	0	129	0					
9			0	62	0	98	0					
10			0	40	0	64	0					
11			0	27	0	38	0					
12			0	16	0	29	0					
13			0	6.5	0	8	0					
14			648	2.3	0	.7	0					
15			365	5	0	.5	0					
16			269	2.3	122	.2	0					
17			244	2.0	433	.2	0					
18			160	1.8	241	.2	0					
19			116	1.5	193	.2	0					
20			86	1.2	481	.2	0					
21			148	1.0	357	0	0					
22			137	9	304	0	0					
23			103	12	594	0	0					
24			76	1.0	1,280	0	0					
25			56	1.0	571	0	0					
26			43	.7	750	0	0					
27			30	.7	1,140	0	0					
28			21	.5	670	0	0					
29			57	.5		0	0					
30			2,900	.2		18	0					
31			1,680	.2		38						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	2,900	0	230	14,100
January	2,420	.2	196	12,100
February	1,280	0	255	14,200
March	490	0	79.3	4,880
April	25	0	1.58	94.0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	2,900	0	62.6	45,400

Note.- No flow during months left blank.

North Fork of Cache Creek near Lower Lake, Calif.

Location.- Water-stage recorder in NE¼ sec. 31, T. 14 N., R. 6 W., 3 miles above mouth and 7 miles northeast of Lower Lake. Altitude, about 1,050 feet.

Records available.- July 1930 to September 1934.

Extremes.- Maximum discharge during year, 3,880 second-feet Dec. 30 (gage height, 6.28 feet); no flow several months.
1930-34: Maximum discharge, about 14,300 second-feet Dec. 26, 1931 (gage height, 9.65 feet); no flow several months each year.

Remarks.- Records good except those for high stages, which are fair. Several small diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	1,570	48	358	86	39	12	5	0.9	
2			0	876	46	299	78	39	12	4.6	1.1	
3			0	495	45	259	71	34	12	3.9	1.3	
4			0	346	44	224	68	31	12	3.9	1.3	
5			0	262	44	201	64	29	16	3.6	1.3	
6			0	208	45	176	61	27	17	3.6	1.3	
7			0	173	54	155	56	26	17	3.6	1.3	
8			0	144	112	142	55	25	15	3.6	1.3	
9			0	126	84	131	52	24	12	3.2	1.3	
10			0	114	71	121	50	23	10	2.8	1.1	
11			.4	101	64	114	48	21	9.5	2.5	1.1	
12			203	92	60	105	46	20	9	2.3	.9	
13			630	86	56	99	46	18	8.5	2.1	.7	
14			278	82	55	90	45	17	8	2.1	.5	
15			223	88	121	86	44	17	7.5	2.1	.5	
16			161	78	354	82	42	16	7	2.1	.4	
17			103	73	259	80	40	16	6.5	2.1	.3	
18			79	69	214	75	37	15	6	1.9	.3	
19			120	71	397	73	36	15	5.5	1.9	.2	
20			166	82	426	71	35	14	5.5	1.9	.2	
21			113	75	314	68	34	14	8	1.7	.1	
22			91	68	288	64	37	13	6.5	1.7	0	
23			74	66	338	62	45	12	5.5	1.5	0	
24			66	64	334	62	49	16	5.5	1.5	0	
25			58	60	280	61	44	24	6	1.5	0	
26			54	56	756	58	40	26	6.5	1.3	0	
27			51	54	575	60	35	23	6	1.1	0	
28			48	52	439	97	34	19	5.5	1.1	0	
29			1,120	52		231	31	17	5.5	.9	0	
30			2,020	49		131	33	15	5	.9	0	
31			575	49		101		14		.9	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	2,020	0	201	12,400
January	1,570	49	186	11,400
February	756	44	212	11,800
March	358	58	127	7,810
April	86	31	48.1	2,860
May	39	12	21.3	1,310
June	17	5	8.93	531
July	5	.9	2.35	144
August	1.3	0	.56	34.5
September	0	0	0	0
The year	2,020	0	66.7	48,300

Note.- No flow during months left blank.

Putah Creek near Guenoc, Calif.

Location.- Water-stage recorder in sec. 22, T. 11 N., R. 6 W., just above dam site, 3½ miles downstream from highway bridge at Guenoc. Altitude, about 925 feet.

Drainage area.- 112 square miles.

Records available.- February 1904 to July 1906, July 1930 to September 1934.

Extremes.- Maximum discharge during year, 6,320 second-feet Dec. 29 (gage height, 11.15 feet); minimum, 1.2 second-feet Sept. 14.
1904-6, 1930-34: Maximum discharge, 24,600 second-feet Mar. 10, 1904 (gage height, 20.1 feet, former gage datum); minimum, 0.6 second-foot Sept. 30 and Oct. 4, 1932.

Remarks.- Records excellent for low and medium stages, good for high stages. Discharge estimated Sept. 23-30. Small diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	2.7	2.2	2,370	50	366	92	38	15	8	4.4	3.3
2	2.4	2.4	2.7	1,120	49	303	82	37	15	7.5	3.7	3.3
3	2.4	2.3	3.9	610	47	260	75	32	14	7	3.4	3.2
4	2.4	2.3	17	418	46	226	70	30	15	7	3.5	3.0
5	2.4	2.2	8	314	45	201	64	27	17	7	4.2	3.0
6	2.3	2.3	5	254	62	182	60	25	18	7	3.4	3.0
7	2.3	2.3	4.3	210	186	166	57	24	17	7	4.1	3.0
8	2.3	2.3	3.9	182	427	150	53	24	16	7	3.9	2.6
9	2.2	2.3	3.9	163	201	142	51	22	13	7	3.9	2.8
10	2.2	2.3	4.1	149	150	132	48	22	13	6	3.9	2.3
11	2.3	2.3	5	134	125	125	46	21	12	6	3.7	2.1
12	2.4	2.3	1,720	125	109	117	44	20	12	6	3.7	2.5
13	2.4	2.3	1,620	117	99	112	42	19	12	6	3.4	2.5
14	2.4	2.3	476	109	92	104	41	18	11	6	3.4	2.1
15	2.4	2.3	405	104	662	99	39	18	11	6	3.4	2.4
16	2.3	2.3	262	96	1,470	95	37	17	11	6	3.4	2.7
17	2.3	2.3	170	92	630	90	36	17	11	6	3.5	2.7
18	2.3	2.3	132	87	418	86	34	16	10	5.5	3.5	2.7
19	2.3	2.3	397	84	993	82	32	16	10	6	3.5	2.6
20	2.3	2.3	325	90	650	81	32	16	10	5.5	3.5	2.6
21	2.3	2.3	203	81	432	77	31	15	8.5	5.5	3.5	2.6
22	2.3	2.3	147	77	405	74	32	15	8	5.5	3.5	2.6
23	2.3	2.3	128	72	558	71	37	15	8	4.6	3.5	2.6
24	2.3	2.3	111	70	540	68	49	16	8.5	4.4	3.5	2.6
25	2.3	2.3	98	65	418	67	41	17	8	4.6	3.5	2.6
26	2.3	2.3	88	62	1,190	63	36	18	8	4.4	3.5	2.6
27	2.3	2.2	80	60	630	63	32	19	8	4.2	3.5	2.6
28	2.3	2.1	81	58	461	116	31	17	7.5	4.3	3.4	2.6
29	2.9	2.1	3,940	56		260	29	17	7	5	3.4	2.6
30	3.7	2.2	2,570	53		137	30	16	7.5	3.9	3.4	2.6
31	2.9		860	52		106		16		3.8	3.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.7	2.2	2.41	148
November	2.7	2.1	2.29	136
December	3,940	2.2	448	27,500
January	2,370	52	243	14,900
February	1,470	45	398	22,100
March	366	63	136	8,360
April	92	29	46.1	2,740
May	38	15	20.6	1,270
June	18	7	11.4	678
July	8	3.8	5.80	357
August	4.4	3.3	3.59	221
September	3.3	2.1	2.68	159
The year	3,940	2.1	109	78,600

Putah Creek near Winters, Calif.

Location.- Water-stage recorder in NE¼ sec. 28, T. 8 N., R. 2 W., 6 miles west of Winters. Altitude, about 160 feet.

Records available.- June 1930 to September 1934. Records 1905-31 for Putah Creek at Winters are practically comparable.

Extremes.- Maximum discharge during year, 11,700 second-feet Dec. 30 (gage height, 15.18 feet); minimum recorded, 1.3 second-feet Oct. 7.
1930-34: Maximum discharge, 30,000 second-feet Dec. 27, 1931 (gage height, 21.8 feet); minimum, 0.3 second-foot Aug. 23-24, 26-27, 1931. Discharge of 60,000 second-feet recorded Dec. 31, 1913, at station 6 miles downstream.

Remarks.- Records good except those for July 7 to Sept. 30, which were estimated. Several small irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	7	2.9	5,460	86	880	173	53	21	8		
2	1.7	4.6	3.3	3,680	83	715	150	57	20	8		
3	1.7	4.1	8.5	1,480	81	600	135	61	12	7.5		
4	1.6	3.5	9	962	79	525	123	58	15	7.5		
5	1.5	3.2	6	698	78	450	115	52	19	7		
6	1.5	2.9	5	555	79	405	107	47	22	8		
7	1.4	2.9	4.8	435	85	368	101	44	21			
8	1.5	3.2	4.6	368	381	328	96	41	22			
9	1.5	3.3	4.6	322	498	298	90	38	22			
10	1.7	3.5	4.4	282	305	273	86	37	20			
11	1.8	3.5	5	254	234	256	82	35	18			
12	1.8	3.5	14	228	194	238	78	32	15			
13	1.9	3.5	2,760	212	170	224	76	30	14			
14	2.1	3.5	1,090	197	153	208	73	28	13			
15	2.1	3.5	732	181	206	197	72	26	11			
16	1.9	3.5	600	173	2,280	186	68	22	11			
17	1.8	3.5	338	160	1,640	178	65	21	10			
18	1.6	3.5	226	152	900	168	61	22	11			
19	1.5	3.5	171	144	1,070	159	58	21	10	5		
20	1.5	3.5	414	143	1,630	152	56	20	8			
21	1.6	3.5	355	147	940	147	54	18	9			
22	1.6	3.5	244	136	732	140	54	19	9			
23	1.6	3.5	188	127	1,150	135	58	19	8			
24	1.7	3.5	154	121	1,510	132	65	20	7.5			
25	1.7	3.5	132	113	962	127	77	22	9			
26	1.8	3.5	116	109	2,480	122	76	30	9			
27	1.9	3.5	104	103	1,870	119	67	28	8			
28	1.9	3.3	95	98	1,160	121	59	28	8			
29	2.5	2.4	3,150	95		190	54	28	8			
30	7	2.5	8,810	91		330	52	26	8			
31	10		2,290	88		218		24				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	10	1.4	2.17	133
November	7	2.4	3.53	210
December	8,810	2.9	711	43,700
January	5,460	88	559	34,400
February	2,480	78	751	41,700
March	880	119	277	17,000
April	173	52	82.7	4,920
May	61	18	32.5	2,000
June	22	7.5	13.3	791
July			5.52	339
August			3.0	184
September			2.0	119
The year	8,810	1.4	201	145,000

Conn Creek near St. Helena, Calif.

Location.- Water-stage recorder in sec. 3, T. 7 N., R. 5 W., a quarter of a mile upstream from highway bridge and 4 miles southeast of St. Helena. Altitude, about 180 feet.

Drainage area.- 52.0 square miles.

Records available.- November 1929 to September 1934.

Extremes.- Maximum discharge during year, 850 second-feet Jan. 1 (gage height, 5.61 feet); no flow for several months.
1930-34: Maximum discharge, 2,720 second-feet Dec. 27, 1931 (gage height, 8.31 feet); no flow several months each year.

Remarks.- Records good. Daily discharge estimated May 10. Small diversions for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	544	2.9	31	4.1	2.3				
2			0	132	2.9	26	4.1	2.3				
3			0	58	3.2	24	3.8	2.0				
4			0	37	3.2	20	3.5	1.7				
5			0	26	3.2	17	3.2	1.4				
6			0	19	3.8	16	3.2	1.2				
7			0	15	5.5	14	3.2	1.0				
8			0	12	15	13	2.9	.8				
9			0	10	8.5	11	2.9	.6				
10			0	9	6	11	2.9	.2				
11			0	8	4.4	10	2.9	0				
12			30	6.5	3.8	9.5	2.9	0				
13			51	6.5	3.8	9	2.9	0				
14			32	5.5	3.5	8.5	2.6	0				
15			48	5.5	55	8	2.6	0				
16			21	5	40	7	2.6	0				
17			9.5	4.4	23	6.5	2.3	0				
18			5.5	4.4	17	6.5	2.0	0				
19			3.8	4.1	51	6	1.7	0				
20			2.9	5	33	6	1.7	0				
21			2.6	4.4	23	5.5	1.4	0				
22			2.3	4.1	24	5.5	2.0	0				
23			1.7	4.1	39	5	3.5	0				
24			1.7	4.1	34	4.4	2.9	0				
25			1.4	4.1	26	4.4	2.3	0				
26			1.4	3.8	92	4.1	1.7	0				
27			1.3	3.5	50	4.1	1.3	0				
28			1.3	3.2	38	5	1.3	0				
29			218	3.2		7	1.3	0				
30			313	3.2		5	1.4	0				
31			59	3.2		4.4		0				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	313	0	26.0	1,600
January	544	3.2	30.9	1,900
February	92	2.9	22.0	1,220
March	31	4.1	10.1	621
April	4.1	1.3	2.57	153
May	2.3	0	.44	26.7
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
The year	544	0	7.63	5,520

Note.- No flow during months left blank.

Lake Pillsbury at Hullville, Calif.

Location.- Staff gage on line between sec. 14 and 23, T. 18 N., R. 10 W., at Scott Dam on Eel River, at Hullville.

Records available.- October 1922 to September 1934.

Remarks.- Lake Pillsbury is a storage reservoir of Pacific Gas & Electric Co.; capacity, 73,200 acre-feet. Elevation of crest of dam, 1,920 feet above mean sea level (previously published elevation referred to crest of spillway). Water is released to operate power plant at Potter Valley, after which part is used for irrigation and remainder turned into East Fork of Russian River. Daily gage-height record furnished by Pacific Gas & Electric Co.

Contents, in acre-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50,760	51,420	52,080	79,040	73,260	88,220	93,960	93,720	91,870	84,210	73,260	61,870
2	50,600	51,580	52,080	79,040	73,260	89,120	93,960	93,960	91,640	83,990	72,850	61,510
3	50,600	51,580	52,580	77,570	73,460	89,120	93,720	93,960	91,400	83,560	72,450	61,140
4	50,600	51,750	52,920	76,530	73,660	88,890	93,720	93,960	91,180	83,340	72,040	60,780
5	50,430	51,750	52,920	75,700	73,860	88,670	93,720	93,960	90,950	82,900	71,650	60,590
6	50,430	51,750	53,080	75,090	74,060	88,670	93,720	93,720	90,950	82,460	71,250	60,230
7	50,430	51,750	53,250	74,680	74,270	88,440	93,720	93,720	90,950	82,030	71,050	59,690
8	50,270	51,910	53,420	74,270	75,500	88,670	93,960	93,720	90,720	81,620	70,650	59,330
9	50,270	51,910	53,420	74,060	75,700	88,670	93,960	93,720	90,490	81,390	70,260	58,980
10	50,270	51,910	53,580	73,860	75,700	88,670	93,960	93,490	90,490	81,170	69,860	58,620
11	50,110	51,910	53,580	73,660	75,700	88,670	93,960	93,490	90,260	80,740	69,670	58,090
12	50,110	51,910	56,860	73,660	75,500	88,670	93,960	93,490	90,030	80,310	69,280	57,910
13	50,110	51,910	64,280	73,660	75,300	88,670	93,720	93,260	89,580	80,100	68,880	57,380
14	49,950	51,910	68,100	73,660	75,300	88,670	93,720	93,260	89,350	79,680	68,490	57,030
15	49,950	51,910	69,670	74,060	75,090	88,890	93,720	93,260	89,120	79,470	68,100	56,680
16	49,950	51,910	71,050	73,860	76,530	88,890	93,720	93,260	88,890	79,040	67,720	56,330
17	49,780	51,910	71,850	73,660	77,360	89,120	93,720	93,030	88,670	78,620	67,330	55,990
18	49,780	51,910	72,450	73,660	78,200	89,120	93,720	93,030	88,220	78,410	66,950	55,640
19	49,620	51,910	73,260	73,460	79,470	89,350	93,720	93,030	87,990	77,990	66,560	55,290
20	49,620	51,910	74,060	73,660	82,030	89,350	93,720	92,800	87,770	77,570	66,180	54,950
21	49,460	51,910	74,270	73,660	83,340	89,350	93,720	92,800	87,540	77,360	65,800	54,610
22	49,460	51,910	74,060	73,660	84,650	89,580	93,720	92,800	87,320	76,950	65,420	54,100
23	49,460	51,910	74,060	73,660	85,760	89,580	93,720	92,560	86,870	76,530	65,230	53,760
24	49,300	51,910	73,860	73,660	86,870	89,580	93,960	92,560	86,420	76,120	64,660	53,420
25	49,300	52,080	73,860	73,460	87,770	89,580	93,960	92,560	86,200	75,700	64,280	53,080
26	49,300	52,080	73,660	73,460	89,120	89,580	93,960	92,560	85,980	75,300	63,910	52,580
27	49.300	52,080	73,460	73,460	87,770	89,800	93,720	92,330	85,540	75,090	63,730	52,250
28	49.140	52,080	73,460	73,260	88,220	91,400	93,720	92,330	85,310	74,680	63,350	51,910
29	49.300	52,080	76,740	73,260		94,200	93,720	92,330	85,090	74,270	62,980	51,580
30	49,950	52,080	80,310	73,260		92,330	93,720	92,100	84,650	74,060	62,610	51,250
31	51,250		78,620	73,260		93,260		91,870		73,660	62,420	

Note.- Contents on Sept. 30, 1933 was 50,760 acre-feet.

Eel River at Hullville, Calif.

Location.- Water-stage recorder in NE¼ sec. 22, T. 18 N., R. 10 W., half a mile downstream from Scott Dam and half a mile west of Hullville. Altitude, about 1,800 feet.

Records available.- November 1922 to September 1934.

Average discharge.- 11 years (1923-34), 337 second-feet.

Extremes.- Maximum discharge during year, 3,600 second-feet Dec. 30 (gage height, 10.01 feet); minimum, 7.5 second-feet Dec. 6-10.
1922-34: Maximum discharge, 32,600 second-feet Mar. 26, 1928 (gage height, 21.0 feet, present datum); practically no flow at times owing to regulation.

Remarks.- Records good. Discharge partly estimated Oct. 28 to Dec. 7. See record for Lake Pillsbury, which stores water above station. Gage-height record furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	15	8.5	2,710	145	445	300	182	142	184	178	171
2	24	15	8.5	2,710	72	492	500	206	130	184	176	171
3	24	15	10	1,980	52	688	458	206	136	182	166	175
4	24	15	9	1,440	59	688	345	196	198	182	166	176
5	24	14	8	1,090	70	600	288	180	186	182	166	178
6	24	14	7.5	850	142	500	221	171	117	180	169	180
7	25	14	7.5	688	225	398	147	160	100	180	175	180
8	25	14	7.5	568	434	318	175	154	122	180	175	180
9	25	14	7.5	486	462	318	202	148	132	180	175	180
10	25	14	7.5	423	402	318	240	145	144	180	175	180
11	25	14	11	367	388	318	225	142	186	180	175	180
12	25	14	20	339	367	276	212	142	167	178	175	180
13	26	14	21	321	342	171	204	138	184	171	175	180
14	28	14	15	324	318	171	196	120	157	171	173	178
15	29	14	15	430	333	160	188	90	160	171	173	178
16	29	14	12	412	270	140	166	90	167	171	173	178
17	29	14	12	370	232	140	140	90	167	171	176	178
18	29	14	44	339	216	140	140	105	167	171	180	180
19	29	14	202	318	164	142	139	138	175	171	180	180
20	29	14	479	364	164	142	138	130	157	171	178	180
21	29	14	520	357	164	142	147	97	176	169	178	180
22	29	14	482	339	166	142	192	108	176	173	178	180
23	29	14	440	330	167	142	204	122	176	178	176	180
24	29	14	402	324	167	142	262	118	178	182	175	180
25	29	14	367	303	167	142	262	107	184	184	171	178
26	29	11	336	282	1,500	138	240	105	184	182	171	178
27	29	8.5	306	262	1,290	117	216	105	184	182	171	178
28	29	8.5	288	248	875	122	173	117	184	182	171	176
29	32	8.5	1,540	230		1,610	154	122	184	182	171	176
30	30	8.5	3,350	218		894	157	117	184	180	171	176
31	15		2,550	204		124		121		178	171	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	32	15	26.8	1,650
November	15	8.5	13.3	791
December	3,350	7.5	371	22,800
January	2,710	204	633	38,900
February	1,500	52	334	18,500
March	1,610	117	332	20,400
April	500	138	221	13,200
May	206	90	135	8,300
June	198	100	163	9,700
July	184	169	178	10,900
August	180	166	174	10,700
September	180	171	178	10,600
The year	3,350	7.5	230	166,000

Eel River at Van Arsdale Dam, near Potter Valley, Calif.

Location.- Staff gage in NE¼ sec. 30, T. 18 N., R. 11 W., 500 feet below Van Arsdale Dam and 5 miles north of Potter Valley. Altitude, about 1,400 feet.

Records available.- November 1909 to September 1934 (monthly discharge only for combination of this station and Snow Mountain Water and Power Co.'s tailrace near Potter Valley, 1909-22).

Average discharge.- 11 years (1922-26, 1927-34), 152 second-feet.

Extremes.- Maximum discharge during year, 4,600 second-feet Dec. 30 (gage height, 12.20 feet); minimum, 1.1 second-feet Oct. 10-17.
1909-34: Maximum discharge, about 40,000 second-feet Mar. 26, 1928 (gage height, 27.0 feet); minimum, 0.4 second-foot Oct. 12-13, 1931.

Remarks.- Records fair. Water diverted from Van Arsdale Reservoir to power plant in Potter Valley, after which part is used for irrigation and remainder turned into East Fork of Russian River. Records show flow passing dam and down Eel River. Gage-height record furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	30	9.5	3,420	93	627	258	113	1.5	1.4	1.6	1.5
2	1.4	18	11	3,510	113	245	594	120	1.5	1.3	1.5	1.5
3	1.4	12	27	2,480	55	560	560	115	1.5	1.5	1.7	1.5
4	1.4	10	25	1,750	30	594	476	102	1.5	1.5	1.5	1.5
5	1.4	9.5	16	1,230	30	560	353	109	2.0	1.4	1.5	1.6
6	1.4	9.5	13	956	68	368	324	98	1.7	1.4	1.7	1.7
7	1.4	8.5	24	770	220	460	180	82	1.5	1.4	1.6	1.6
8	1.4	7.5	22	662	413	368	194	59	1.5	1.5	1.5	1.6
9	1.3	7	19	526	324	368	208	48	1.5	1.6	1.5	1.2
10	1.1	6.5	13	492	258	353	62	46	1.5	1.7	1.5	1.2
11	1.1	6.5	12	428	258	353	162	40	1.4	1.6	1.6	1.2
12	1.1	6.5	297	353	220	338	196	34	1.2	1.5	1.7	1.2
13	1.1	6.5	526	338	194	208	186	36	2.0	1.9	1.5	1.2
14	1.1	6.5	383	184	180	198	194	37	1.5	1.6	1.5	1.2
15	1.1	6.5	310	271	232	155	169	16	1.2	1.6	1.5	1.2
16	1.1	6.5	171	258	310	151	166	6	1.2	1.6	1.7	1.5
17	1.1	6.5	94	203	175	164	116	3.1	1.2	1.5	1.5	1.5
18	1.4	6.5	80	162	162	162	90	1.5	1.2	1.6	1.5	1.5
19	1.4	6.5	220	116	368	166	78	1.5	1.2	1.7	1.6	1.5
20	1.4	6.5	594	232	203	160	78	1.7	1.7	1.7	1.5	1.5
21	1.4	6.5	628	232	134	158	90	4.5	1.2	1.5	1.6	1.5
22	1.4	6.5	560	383	132	158	78	1.7	1.2	1.5	1.6	1.5
23	1.4	6.5	492	398	106	158	98	1.5	1.2	1.5	1.5	1.4
24	1.4	6.5	476	398	106	155	164	1.5	1.2	1.5	1.5	1.2
25	1.8	9	428	368	88	74	220	1.5	1.2	1.7	1.5	1.2
26	2.2	13	383	338	1,250	38	160	1.5	1.2	1.5	1.5	1.2
27	3.2	13	353	310	1,690	93	120	1.5	1.2	1.5	1.5	1.2
28	3.8	10	338	297	842	324	94	1.5	1.5	1.5	1.5	1.2
29	7	9.5	1,750	284		1,890	55	1.5	1.5	1.5	1.5	1.2
30	21	9.5	4,300	220		1,540	56	1.5	1.5	1.5	1.5	1.2
31	94		3,240	90		258		1.5		1.5	1.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	94	1.1	5.29	325
November	30	6.5	9.12	543
December	4,300	9.5	510	31,400
January	3,510	90	699	43,000
February	1,690	30	295	16,400
March	1,890	38	368	22,600
April	594	55	193	11,500
May	120	1.5	35.1	2,160
June	2.0	1.2	1.41	83.9
July	1.9	1.3	1.54	94.7
August	1.7	1.5	1.55	95.3
September	1.7	1.2	1.37	81.5
The year	4,300	1.1	177	128,000

Eel River at Scotia, Calif.

Location.- Wire-weight gage in sec. 7, T. 1 N., R. 1 E., at Wildwood Bridge, half a mile north of Scotia. Altitude, about 50 feet. Previous to Sept. 6, 1934, staff gage at same location was used.

Drainage area.- 3,070 square miles.

Records available.- December 1910 to February 1915, October 1916 to September 1934.

Average discharge.- 21 years (1911-14, 1916-34), 5,470 second-feet.

Extremes.- Maximum discharge during year, 50,900 second-feet Mar. 29 (gage height, 24.8 feet); minimum, 48 second-feet Sept. 20.
1910-15, 1916-34: Maximum discharge, about 290,000 second-feet Feb. 2, 1915 (gage height, 55.5 feet); minimum, 10 second-feet Aug. 12-14, 1924.

Remarks.- Records good. Storage in Lake Pillsbury and diversions for power and irrigation near Potter Valley, above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	129	1,180	181	31,300	3,440	14,400	10,600	3,040	780	345	123	68
2	118	1,280	214	37,400	3,240	10,900	8,240	4,980	735	330	120	68
3	113	855	855	26,900	2,860	9,140	7,120	4,060	690	330	135	66
4	105	640	990	21,300	2,680	7,960	6,280	3,440	690	325	132	64
5	100	558	1,280	16,000	2,520	7,120	5,480	2,860	690	296	126	61
6	103	447	1,180	12,100	2,520	6,560	4,740	2,530	735	278	112	61
7	105	386	1,630	8,840	2,680	5,740	4,060	2,380	780	273	118	61
8	110	331	2,680	7,400	6,000	5,220	4,060	2,230	825	264	112	61
9	100	290	2,200	6,000	8,840	4,500	3,440	2,080	735	255	101	60
10	96	260	1,280	5,220	6,000	4,060	3,240	1,940	690	242	101	56
11	89	240	1,080	4,740	4,980	3,840	2,690	1,810	610	237	101	55
12	100	222	6,000	4,500	4,500	3,640	2,690	1,550	610	219	92	55
13	105	214	36,600	4,060	4,060	3,240	2,530	1,550	575	219	97	55
14	105	205	30,100	4,740	3,840	3,040	2,380	1,430	540	210	94	54
15	116	196	17,300	14,400	3,240	2,860	2,380	1,370	540	202	92	55
16	100	188	16,300	11,800	4,060	2,680	2,230	1,310	540	202	92	55
17	91	188	9,740	8,540	7,660	2,520	2,230	1,190	505	202	92	58
18	87	181	9,440	7,120	5,220	2,520	2,080	1,080	470	190	92	58
19	87	173	11,500	6,000	5,740	2,200	2,010	870	452	186	90	55
20	82	173	13,100	11,200	12,800	2,200	1,810	870	428	178	92	52
21	82	173	9,140	10,900	9,740	2,040	1,810	870	404	174	92	52
22	85	173	6,840	7,960	8,240	1,970	1,740	920	386	170	88	54
23	82	177	5,480	7,680	8,240	1,900	1,940	870	380	156	83	55
24	82	173	4,500	8,840	7,680	1,900	2,530	970	368	149	83	61
25	78	173	3,840	8,240	7,400	1,900	3,440	970	374	142	83	62
26	78	173	3,640	6,840	13,400	1,900	3,040	1,080	368	135	85	64
27	78	169	3,240	6,280	19,100	2,200	2,530	1,190	362	132	83	62
28	78	173	2,860	5,480	18,400	16,300	2,080	1,250	350	135	79	64
29	100	173	11,500	4,980		43,500	1,810	1,310	350	132	75	62
30	231	166	44,500	4,280		22,100	1,810	1,080	345	123	75	64
31	599		28,500	3,840		14,400		920		123	70	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	599	78	117	7,190
November	1,280	166	331	19,700
December	44,500	181	9,280	571,000
January	37,400	3,840	10,500	646,000
February	19,100	2,520	6,750	375,000
March	43,500	1,900	6,920	425,000
April	10,600	1,740	3,430	204,000
May	4,980	870	1,740	107,000
June	825	345	544	32,400
July	345	123	211	13,000
August	135	70	97.1	5,970
September	68	52	59.3	3,530
The year	44,500	52	3,330	2,410,000

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Potter Valley power house tailrace near Potter Valley, Calif.

Location.- Water-stage recorder in NW¼ sec. 6, T. 17 N., R. 11 W., at power house of Pacific Gas & Electric Co., 3 miles northwest of Potter Valley. Altitude, about 1,000 feet.

Records available.- October 1922 to September 1934.

Average discharge.- 12 years, 203 second-feet.

Extremes.- Maximum mean daily discharge during year, 257 second-feet Jan. 18; no flow Jan. 1-8, 10.
1922-34: Maximum mean daily discharge, 321 second-feet Aug. 26, 1933; no flow several days in October 1924, January 1934.

Remarks.- Records fair. Water is diverted from Eel River above Van Arsdale Dam. After passing through power plant part of it is used for irrigation in Potter Valley and remainder flows into East Fork of Russian River. Irrigation water diverted from tailrace above gage is included in tables of discharge. Gage-height record for tailrace and daily-discharge record for irrigation ditches furnished by Pacific Gas & Electric Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	9.5	3.1	0	110	204	5.5	123	127	158	184	160
2	25	9.5	3.1	0	12	202	5.5	121	125	164	181	163
3	25	9.5	3.1	0	33	202	5.5	121	126	159	138	184
4	25	12	3.1	0	50	202	5.5	119	125	155	186	182
5	25	13	3.1	0	54	202	5.5	111	122	156	185	184
6	25	13	3.1	0	51	202	5.5	112	124	163	187	178
7	25	13	3.1	0	46	16	5.5	122	125	164	166	132
8	25	13	3.1	0	151	12	5.5	122	124	165	184	164
9	25	13	3.1	14	193	11	18	123	121	161	180	183
10	25	13	3.1	0	200	11	232	122	134	161	133	184
11	25	13	3.1	16	204	10	59	124	180	160	182	164
12	25	13	3.1	23	204	9	36	121	147	158	185	164
13	25	13	3.1	22	204	8.5	36	123	182	148	186	166
14	25	13	3.1	178	204	8.5	36	122	177	196	162	186
15	25	13	3.1	237	204	5.5	35	121	178	192	185	184
16	25	11	3.1	236	201	5.5	37	105	178	160	177	184
17	25	10	3.1	235	204	5.5	64	121	178	180	135	185
18	25	10	3.1	257	182	5.5	43	124	162	181	180	184
19	25	10	3.1	240	87	5.5	77	125	179	176	195	185
20	25	10	3.1	206	202	5.5	83	123	141	131	190	182
21	25	10	3.1	205	204	5.5	68	126	182	183	161	182
22	25	10	3.1	16	204	5.5	122	124	178	180	182	184
23	25	10	3.1	12	204	5.5	122	125	165	180	157	154
24	25	8	3.1	12	204	7.5	119	124	158	179	180	183
25	25	3.1	3.1	12	202	127	121	127	160	182	185	164
26	21	3.1	3.1	12	188	134	120	122	159	174	161	162
27	16	3.1	3.1	12	75	5.5	121	126	158	129	183	182
28	16	3.1	3.1	12	204	5.5	123	126	161	167	180	182
29	14	3.1	3.1	12		5.5	123	125	157	162	183	162
30	9.5	3.1	3.1	83		5.5	119	129	163	183	174	184
31	9.5		3.1	160		5.5		127		162	133	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	25	9.5	22.9	1,410
November	13	3.1	9.70	577
December	3.1	3.1	3.10	191
January	257	0	71.4	4,390
February	204	12	153	8,500
March	204	5.5	53.1	3,260
April	232	5.5	65.3	3,890
May	129	105	122	7,500
June	182	121	154	9,160
July	196	129	169	10,400
August	195	133	176	10,800
September	186	132	161	10,800
The year	257	0	97.9	70,900

Williamson River below Sprague River, near Chiloquin, Oreg.

Location.- Water-stage recorder in sec. 3, T. 35 S., R. 7 E., a quarter of a mile below mouth of Sprague River and three-quarters of a mile southwest of Chiloquin. Zero of gage is 4,155.66 feet above mean sea level, by 1929 general adjustment.

Drainage area.- 3,000 square miles.

Records available.- June 1917 to September 1934.

Average discharge.- 17 years, 828 second-feet.

Extremes.- Maximum discharge during year, 1,090 second-feet Apr. 3, 4 (gage height, 3.13 feet); minimum, 420 second-feet Aug. 15, 25, 26 (gage height, 2.20 feet).
1917-34: Maximum discharge, about 7,000 second-feet Apr. 27, 1917 (sum of discharges on that date at stations on Sprague River at Chiloquin, 4,490 second-feet, and Williamson River at Chiloquin, estimated, 2,500 second-feet); minimum, 320 second-feet Oct. 14, 1920.

Remarks.- Records good. Discharge estimated Oct. 8, Nov. 11, Jan. 3-9. Diversions for irrigation above station. Manipulation of gates at dams above causes fluctuation at times.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	460	579	543	644	678	713	907	567	492	455	470	440
2	531	664	549	671	657	699	997	567	498	455	470	445
3	549	657	567	720	644	692	1,070	573	498	455	470	445
4	537	618	555	730	637	685	1,060	592	498	455	465	450
5	520	604	567	760	630	678	961	618	503	455	476	450
6	514	611	579	810	630	671	898	611	503	460	481	445
7	465	598	579	850	630	657	889	585	498	460	481	445
8	450	650	567	860	637	644	889	561	498	455	476	445
9	445	598	573	780	637	644	848	543	492	455	476	440
10	450	579	573	706	644	657	808	520	486	450	476	445
11	460	579	573	664	678	657	760	445	492	481	481	450
12	481	579	573	637	678	657	744	445	492	525	476	455
13	498	573	598	630	678	644	561	450	492	531	450	455
14	503	573	611	644	671	650	736	455	486	531	430	455
15	498	573	618	630	664	657	736	455	481	520	425	450
16	508	573	611	630	650	671	706	445	476	514	430	450
17	598	567	549	630	630	664	561	430	460	492	440	450
18	644	567	585	637	630	671	503	430	460	476	440	450
19	537	567	604	637	637	678	567	460	455	470	440	450
20	525	561	598	644	637	685	585	486	450	470	440	450
21	520	561	598	644	637	692	816	470	450	476	440	455
22	520	555	598	664	644	692	752	450	450	476	435	460
23	525	561	598	685	650	699	637	503	445	476	430	470
24	531	561	604	692	657	706	579	470	450	470	425	470
25	543	561	624	720	678	706	579	435	455	476	425	503
26	498	561	624	816	706	706	579	440	450	481	425	525
27	481	561	598	889	736	720	579	450	450	481	430	520
28	503	567	598	898	736	736	573	470	450	481	435	520
29	543	555	611	840		744	555	492	450	476	435	508
30	604	549	624	760		752	561	498	450	476	430	514
31	579		630	706		808		498		470	435	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	644	445	517	31,780
November	664	549	582	34,640
December	630	543	590	36,260
January	898	630	717	44,090
February	736	630	658	36,540
March	808	644	688	42,320
April	1,070	503	733	43,630
May	618	430	497	30,570
June	503	445	474	28,190
July	531	450	478	29,360
August	481	425	450	27,650
September	525	440	464	27,590
The year	1,070	425	570	412,600

Upper Klamath Lake near Klamath Falls, Oreg.

Location.- Water-stage recorder in SW¼ sec. 19, T. 38 S., R. 9 E., 1 mile above outlet of Upper Klamath Lake and 2 miles northwest of Klamath Falls. Zero of gage is 4,134.15 feet above mean sea level, by 1929 general adjustment, and 4,135.93 feet by U. S. Bureau of Reclamation datum, to which all lake elevations given are referred.

Records available.- May 1904 to September 1934.

Extremes.- Maximum elevation during year, 4,143.56 feet Apr. 1; minimum, 4,138.17 feet Sept. 23. Maximum mean daily elevation, 4,143.03 feet Apr. 15, 16; minimum, 4,138.34 feet Sept. 23.

1904-34: Maximum elevation recorded, 4,144.98 feet about Apr. 20, 1904, determined from high-water marks; minimum (estimated), 4,135.9 feet Nov. 2, 1928; maximum and minimum mean daily elevations occurred during periods when no continuous recorder was in operation and were not determined.

Remarks.- Lake elevations, particularly extremes, are very much affected by wind. Considerable regulation caused by dam at outlet of lake since Apr. 15, 1919. Water-stage recorder graph furnished by The California Oregon Power Co.

Daily elevation, in feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40.35	40.32	40.71	41.39	41.86	42.23	42.87	42.78	42.23	41.50	40.24	39.14
2	40.31	40.40	40.48	41.40	41.89	42.28	42.94	42.59	42.26	41.51	40.18	39.11
3	40.32	40.59	40.78	41.54	41.87	42.29	42.83	42.60	42.13	41.53	40.24	39.06
4	40.31	40.61	40.72	41.59	41.86	42.32	42.84	42.47	42.05	41.45	40.12	39.02
5	40.30	40.54	40.58	41.62	41.83	42.36	42.83	42.65	42.17	41.41	40.06	39.01
6	40.29	40.53	40.56	41.65	41.70	42.49	42.82	42.73	42.17	41.40	40.07	38.97
7	40.27	40.55	40.84	41.65	41.35	42.45	42.86	42.64	42.21	41.38	40.07	39.02
8	40.27	40.57	40.85	41.65	41.97	42.45	42.87	42.69	42.14	41.29	40.01	38.90
9	40.32	40.55	40.87	41.64	41.91	42.49	42.89	42.71	42.08	41.28	39.95	38.85
10	40.22	40.55	40.88	41.69	41.92	42.51	42.91	42.73	42.05	41.26	39.94	38.85
11	40.19	40.56	40.63	41.63	41.95	42.49	42.90	42.74	42.01	41.24	39.90	38.78
12	40.19	40.57	40.52	41.56	41.96	42.50	42.92	42.56	42.03	41.18	39.85	38.80
13	40.20	40.58	40.75	41.50	41.95	42.53	42.95	42.61	42.11	41.09	39.80	38.72
14	40.21	40.58	40.93	41.69	41.98	42.55	43.01	42.59	42.11	41.05	39.72	38.73
15	40.16	40.58	41.20	41.70	41.91	42.56	43.03	42.55	42.07	40.91	39.67	38.64
16	40.16	40.59	41.12	41.71	41.96	42.64	43.03	42.64	42.02	40.95	39.67	38.61
17	40.17	40.61	40.95	41.72	42.00	42.60	42.88	42.63	41.97	40.93	39.68	38.60
18	40.17	40.65	40.94	41.71	41.99	42.57	42.86	42.52	42.03	40.88	39.65	38.59
19	40.15	40.60	41.05	41.71	42.00	42.60	42.85	42.59	41.91	40.81	39.63	38.61
20	40.30	40.63	41.08	41.78	42.05	42.62	42.80	42.55	41.86	40.78	39.53	38.60
21	40.18	40.65	41.11	41.63	42.03	42.61	42.75	42.54	41.82	40.75	39.51	38.65
22	40.17	40.66	41.15	41.71	42.11	42.63	42.65	42.38	41.83	40.66	39.45	38.52
23	40.19	40.67	41.19	41.90	42.15	42.79	42.61	42.31	41.85	40.60	39.40	38.34
24	40.20	40.67	41.20	41.91	42.11	42.77	42.76	42.23	41.69	40.48	39.31	38.48
25	40.19	40.69	41.22	41.82	42.03	42.70	42.71	42.35	41.61	40.42	39.30	38.41
26	40.22	40.68	41.28	41.82	42.09	42.65	42.81	42.44	41.59	40.42	39.32	38.38
27	40.16	40.78	41.29	41.84	42.13	42.50	42.80	42.36	41.60	40.42	39.23	38.38
28	40.13	40.96	40.81	41.87	42.20	42.65	42.68	42.27	41.57	40.39	39.16	38.36
29	40.23	40.86	41.20	41.87		42.76	42.65	42.32	41.61	40.33	39.15	38.36
30	40.23	40.72	41.33	41.87		42.83	42.53	42.37	41.58	40.38	39.17	38.35
31	40.33		41.31	41.87		42.77		42.42		40.32	39.16	

Note.- Add 4,100 feet to obtain elevations above mean sea level.

Monthly elevation and contents, 1933-34

Date	Elevation in feet	Contents in acre-feet	Change in contents during month in acre-feet
Sept. 30	4,140.38	332,600	
Oct. 31	4,140.32	328,000	-4,600
Nov. 30	4,140.76	362,900	+34,900
Dec. 31	4,141.28	406,100	+43,200
Jan. 31	4,141.87	456,700	+50,600
Feb. 28	4,142.18	483,800	+27,100
Mar. 31	4,142.81	539,400	+55,600
Apr. 30	4,142.66	526,000	-13,400
May 31	4,142.29	493,400	-32,600
June 30	4,141.56	430,000	-63,400
July 31	4,140.30	326,400	-103,600
Aug. 31	4,139.14	248,000	-78,400
Sept. 30	4,138.36	200,600	-47,400
The year			-132,000

Note.- To compensate for wind effect, elevation given for last day of month is mean of elevations for last 4 days of month and first 3 days of following month. Contents given are those above elevation 4,135 feet.

Link River at Klamath Falls, Oreg.

Location.- Water-stage recorder in sec. 32, T. 38 S., R. 9 E., 200 yards above outlet of Keno Canal and three-eighths of a mile above Main Street Bridge, at Klamath Falls. Zero of gage is 4,083.71 feet above mean sea level, by 1929 general adjustment, and 4,085.50 feet by U. S. Bureau of Reclamation datum.

Drainage area.- 3,800 square miles.

Records available.- May 1904 to September 1934.

Average discharge.- 30 years, (including Keno Canal), 1,665 second-feet.

Extremes.- Maximum combined discharge of Link River and Keno Canal, 3,200 second-feet Mar. 30; minimum, 30 second-feet part of each day Feb. 11-13; minimum daily discharge, 31 second-feet Feb. 11.

1904-34: Maximum discharge, 9,400 second-feet May 12, 1904 (gage height at bridge, 7.30 feet); minimum, 22 second-feet Aug. 30, 1918; minimum daily discharge, 26 second-feet Aug. 30, 1932.

Remarks.- Records good. Regulation caused by storage of water in Upper Klamath Lake since April 1919. Water diverted above station by the main or "A" Canal and Keno Canal. Other small diversions above lake. Discharge tables include flow of Keno Canal. Water-stage recorder graph furnished by The California Oregon Power Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,420	322	795	301	1,360	50	2,450	674	1,270	776	992	1,010
2	1,420	313	439	297	1,360	322	1,700	614	692	776	1,150	1,150
3	1,420	311	274	305	1,360	44	1,160	502	402	767	782	1,380
4	1,410	315	820	303	1,360	44	1,030	494	1,020	762	467	1,370
5	1,410	311	829	979	1,140	47	682	330	1,300	764	630	1,260
6	1,410	304	826	1,090	1,030	47	499	449	611	771	1,120	1,190
7	1,390	438	311	1,080	1,030	47	184	961	433	745	1,140	1,200
8	1,390	832	464	1,080	1,030	328	132	779	439	1,200	1,040	1,300
9	1,390	921	484	1,340	1,030	405	481	614	960	1,330	995	1,250
10	1,380	883	300	1,340	500	172	663	453	446	1,420	991	986
11	1,190	477	545	1,350	31	62	727	456	1,070	1,300	987	1,080
12	1,380	300	324	1,350	285	424	733	789	1,020	1,260	990	1,180
13	1,380	988	281	1,330	435	422	774	316	719	1,110	1,000	1,170
14	1,020	1,040	293	1,340	978	424	425	807	728	1,240	1,010	830
15	495	911	298	1,340	1,100	329	338	835	710	1,310	1,020	470
16	1,000	654	301	1,340	967	329	879	738	797	1,410	1,020	721
17	984	867	287	1,340	255	174	869	719	869	1,410	940	1,020
18	873	466	992	1,340	33	47	876	550	753	1,420	684	1,150
19	865	282	1,170	1,340	612	335	1,000	564	889	1,420	1,010	1,150
20	866	801	560	1,320	493	334	869	477	1,070	1,320	1,000	1,190
21	513	826	553	1,340	343	330	550	959	1,300	1,290	1,000	1,320
22	295	828	558	1,340	219	331	320	985	1,290	1,130	1,080	1,220
23	858	826	465	1,360	440	344	803	949	859	1,420	1,080	954
24	919	870	293	1,360	212	108	881	1,300	862	1,330	560	816
25	1,010	602	294	1,360	42	50	844	1,300	964	1,330	714	816
26	921	809	296	1,360	222	478	839	833	1,030	1,140	950	810
27	851	816	290	1,360	225	470	1,000	444	734	1,150	1,190	818
28	500	800	280	1,360	50	917	546	1,090	776	1,310	1,180	810
29	278	798	293	1,360		1,380	320	1,360	785	1,410	1,180	810
30	340	647	298	1,360		1,720	949	710	779	1,250	1,140	1,000
31	492		293	1,040		2,690		1,100		1,060	1,010	

Month	River including Keno Canal				River including Keno and A Canals			
	Maximum	Minimum	Mean	Run-off in acre-feet	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,420	278	1,002	61,630	1,500	278	1,016	62,460
November	1,040	282	652	38,790	1,040	282	652	38,790
December	1,170	274	469	28,810	1,170	274	469	28,810
January	1,360	297	1,165	71,610	1,360	297	1,165	71,610
February	1,360	31	648	35,980	1,360	31	648	35,980
March	2,690	44	426	26,190	2,690	44	426	26,190
April	2,450	132	784	46,660	2,450	172	1,175	69,910
May	1,360	316	747	45,920	2,090	735	1,306	80,280
June	1,300	402	853	50,730	2,020	828	1,457	86,710
July	1,420	745	1,172	72,060	2,230	1,470	1,938	119,200
August	1,190	467	969	59,610	1,930	1,130	1,623	99,810
September	1,380	470	1,048	62,340	1,810	848	1,398	83,220
The year	2,690	31	829	600,300	2,690	31	1,109	803,000

Klamath River at Keno, Oreg.

Location.- Water-stage recorder in SE¼ sec. 35, T. 39 S., R. 7 E., 5 miles above mouth of Spencer Creek and 2 miles west of Keno.

Records available.- June 1904 to December 1913, January 1930 to September 1934.

Average discharge.- 13 years (1904-13, 1930-34), 1,695 second-feet.

Extremes.- Maximum discharge during year, 2,700 second-feet Mar. 31 (gage height, 7.02 feet); minimum, 35 second-feet Aug. 4 (gage height, 1.44 feet); minimum daily discharge, 60 second-feet May 19.

1904-13, 1930-34: Maximum discharge, 5,220 second-feet Apr. 19, 20, 1907; minimum, that of Aug. 4, 1934. Minimum daily discharge, that of May 19, 1934. Maximum discharge known, 9,250 second-feet about May 10, 1904.

Remarks.- Records excellent except those for May and June, which are good, and those below 100 second-feet, which are fair. Diversions for irrigation above station. Lost River Diversion Canal enters or diverts from Klamath River above station (see records for Diversions from Klamath River to Lost River near Olene, Oreg. and Lost River Diversion Canal near Olene, Oreg.). Following diversions in acre-feet through Klamath Strait into Lower Klamath Lake estimated from gate openings at Ady by U. S. Bureau of Reclamation: October, 151; November, 238; December, 246; January, 246; February, 169; March, 214; April, 3,040; May, 4,040; June, 4,070; July 1,050; August, 833; September, 518; the year, 14,810. Flow regulated by storage in Upper Klamath Lake since April 1919 and in Lake Ewauna and Klamath River above Keno since September 1931. Water-stage recorder graph furnished by The California Oregon Power Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,330	481	885	406	1,490	148	2,460	321	1,110	467	1,140	950
2	1,490	473	568	410	1,460	250	1,840	347	492	400	1,140	1,060
3	1,490	583	378	410	1,460	229	1,220	266	92	505	768	1,310
4	1,400	386	895	406	1,460	210	1,060	71	604	525	194	1,310
5	1,400	386	921	821	1,340	195	750	75	1,080	505	341	1,200
6	1,400	382	921	1,140	1,110	178	503	80	456	505	950	1,110
7	1,400	490	428	1,140	1,030	137	156	431	228	496	950	1,110
8	1,430	880	653	1,220	1,110	239	71	564	86	850	850	1,220
9	1,460	990	594	1,520	1,110	334	133	365	565	850	600	1,220
10	1,430	951	428	1,560	685	295	354	213	285	875	825	916
11	1,460	525	763	1,560	127	215	461	181	839	875	825	973
12	1,560	477	417	1,520	380	313	461	190	1,080	775	825	1,110
13	1,460	1,030	364	1,520	458	417	424	92	622	655	825	1,110
14	1,270	1,140	389	1,520	1,060	505	80	440	615	825	850	898
15	396	1,030	389	1,520	1,200	545	77	442	498	900	900	458
16	950	831	392	1,560	1,160	485	290	396	468	1,030	900	800
17	1,130	867	392	1,520	377	256	565	96	571	1,110	850	900
18	932	570	1,020	1,520	160	256	632	77	405	1,030	851	1,170
19	988	366	1,350	1,520	754	382	545	60	459	1,060	850	1,140
20	985	655	683	1,520	627	386	402	61	631	1,030	825	1,200
21	617	870	676	1,520	502	304	67	442	788	950	800	1,370
22	358	878	682	1,520	302	307	64	444	975	549	850	1,280
23	917	878	582	1,520	560	212	310	433	425	1,170	900	1,060
24	1,040	900	414	1,520	346	84	326	686	425	1,170	250	875
25	1,020	567	410	1,520	202	81	334	925	638	1,170	525	850
26	953	908	406	1,520	372	216	271	313	765	1,140	800	675
27	960	878	406	1,520	352	461	362	101	492	1,140	1,000	875
28	585	929	400	1,520	148	882	110	638	496	1,140	1,030	875
29	347	950	396	1,520		1,400	78	1,060	378	1,140	1,060	875
30	449	735	400	1,520		1,650	317	412	434	1,140	1,060	1,030
31	654		406	1,150		2,700		685		1,140	950	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,560	347	1,073	65,970
November	1,140	368	740	44,010
December	1,350	364	581	35,720
January	1,560	406	1,312	80,650
February	1,490	127	762	42,330
March	2,700	81	460	28,310
April	2,460	64	491	29,200
May	1,060	60	352	21,630
June	1,110	86	567	33,720
July	1,170	400	875	53,790
August	1,140	194	819	50,350
September	1,370	458	1,038	61,750
The year	2,700	60	756	547,400

Klamath River below Fall Creek, near Copco, Calif.

Location.- Water-stage recorder in NE¼ sec. 36, T. 48 N., R. 5 W., 500 feet below mouth of Fall Creek, half a mile below The California Oregon Power Co.'s Copco no. 2 plant, and 1 mile south of Copco post office. Zero of gage is about 2,310 feet above mean sea level, determined from river profile.

Drainage area.- 4,320 square miles.

Records available.- October 1928 to September 1934. At station above Fall Creek from October 1923 to September 1928.

Average discharge.- 11 years, 1,320 second-feet, including Fall Creek.

Extremes.- Maximum discharge during year, 3,650 second-feet Oct. 11 (gage height, 4.78 feet); minimum, 46 second-feet June 24 (gage height, 0.84 foot). Minimum daily discharge, 92 second-feet Oct. 1, Apr. 15, 22.

1923-34: Maximum discharge, 6,950 second-feet above Fall Creek, Mar. 26, 1928; minimum, about 10 second-feet several times in 1925 and 1926. Minimum daily discharge, 83 second-feet below Fall Creek Aug. 2, 1931.

Remarks.- Records excellent. Diversions and regulation above station. Water-stage recorder graph furnished by The California Oregon Power Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92	1,100	1,060	174	2,040	960	1,380	560	1,390	103	1,330	1,880
2	1,670	1,070	1,140	694	1,790	812	2,620	577	683	1,080	1,810	604
3	1,990	994	128	928	1,750	303	1,950	540	99	880	678	814
4	2,080	962	1,160	1,060	1,080	100	1,660	578	1,150	97	266	1,550
5	1,540	166	1,280	1,960	1,680	752	1,390	218	1,310	930	217	1,890
6	1,640	1,190	1,310	2,340	1,680	829	881	93	568	954	1,010	1,810
7	1,580	1,410	944	1,050	1,360	775	273	772	644	1,280	1,290	1,570
8	94	1,490	972	1,420	1,370	613	98	589	675	195	1,440	489
9	1,940	1,500	414	1,910	1,470	601	704	716	112	1,190	1,470	405
10	2,380	1,330	434	1,770	886	228	700	773	98	1,180	1,410	628
11	2,260	494	1,050	2,090	284	233	763	815	1,120	1,210	478	1,570
12	1,880	192	710	1,860	1,100	695	781	606	1,190	1,190	94	1,820
13	1,120	1,230	493	1,540	1,310	805	841	96	1,200	1,220	1,190	1,800
14	1,140	1,200	1,070	928	1,480	692	261	617	1,230	710	1,220	808
15	200	1,530	1,180	2,270	1,170	678	92	629	1,120	260	1,520	250
16	1,200	1,230	1,460	2,640	1,050	626	691	547	331	1,240	1,490	399
17	1,350	1,220	317	1,240	307	229	690	222	98	1,550	1,430	1,460
18	1,600	580	1,190	1,610	102	102	689	135	1,080	1,620	314	1,780
19	1,420	231	1,310	1,890	881	756	673	350	1,060	1,180	228	1,750
20	999	1,190	1,290	1,260	954	964	669	94	997	1,260	1,120	1,880
21	782	1,220	1,250	924	1,330	690	258	934	1,370	710	1,200	1,690
22	113	1,270	1,090	2,280	396	772	92	1,030	1,110	268	1,550	530
23	1,280	1,700	326	2,290	878	599	586	1,060	99	1,100	953	490
24	1,260	1,350	100	2,590	322	166	658	1,320	100	1,270	435	1,380
25	1,660	561	100	1,830	102	106	767	1,060	1,200	1,500	538	1,670
26	1,560	104	867	1,920	782	691	821	206	978	1,450	520	1,570
27	1,140	1,340	980	1,610	811	714	649	98	1,010	1,450	1,400	1,740
28	417	1,350	614	1,090	657	1,550	236	1,040	1,070	1,060	1,830	1,190
29	106	1,470	768	1,850		1,690	94	1,090	1,020	126	1,650	706
30	639	421	443	1,940		2,050	407	478	176	1,230	1,360	838
31	657		143	1,600		1,890		912		1,350	1,040	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,380	92	1,225	75,350
November	1,530	104	1,037	61,720
December	1,460	100	832	51,160
January	2,640	174	1,644	101,100
February	2,040	102	1,036	57,560
March	2,050	100	731	44,970
April	2,620	92	746	44,380
May	1,320	93	605	37,200
June	1,390	98	810	48,170
July	1,620	97	995	61,180
August	1,830	94	1,048	64,430
September	1,890	250	1,232	73,310
The year	2,640	92	995	720,500

Klamath River at Somesbar, Calif.

Location.- Water-stage recorder in SW¼ sec. 3, T. 11 N., R. 6 E., 300 feet below mouth of Salmon River and 1 mile west of Somesbar post office. Altitude, about 450 feet.

Drainage area.- 8,430 square miles.

Records available.- October 1927 to September 1934.

Extremes.- Maximum discharge during year, 21,300 second-feet Mar. 28 (gage height, 13.75 feet); minimum, 462 second-feet Aug. 14.

1927-34: Maximum discharge, 60,300 second-feet Mar. 26, 1928 (gage height, 27.9 feet); minimum, 218 second-feet Aug. 26, 1931.

A stage of about 50.8 feet occurred on Feb. 21, 1927 (discharge not computed).

Remarks.- Records good except those for Oct. 1-4, Jan. 30 to Mar. 27, Apr. 4-14, Aug. 23-25, which were estimated. Storage, large diversions for irrigation, and considerable regulation by power plants above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,900	2,450	1,920	7,260	6,500	4,800	10,900	3,800	2,560	1,780	1,830	1,630
2	1,800	2,590	1,800	8,580	6,700	5,000	9,440	4,020	3,010	1,100	1,730	1,980
3	1,800	2,730	2,880	17,800	6,300	5,300	9,680	4,680	2,940	962	2,380	1,680
4	3,000	2,450	2,050	13,700	6,100	5,000	8,700	4,510	1,980	1,780	1,830	1,020
5	3,500	2,180	1,330	11,300	5,500	4,900	7,800	4,180	1,830	1,580	1,080	1,560
6	2,450	1,980	3,680	10,400	5,700	5,100	7,100	3,940	3,220	962	801	2,260
7	2,730	1,420	7,700	9,680	6,300	5,200	6,400	3,360	2,680	1,480	696	2,260
8	2,450	2,450	4,170	7,700	8,000	4,900	5,800	3,430	2,260	1,830	1,580	2,150
9	1,640	2,660	3,180	7,260	6,500	4,500	5,100	3,800	2,260	1,830	1,930	1,440
10	1,610	2,660	2,520	7,260	6,100	4,500	5,100	3,570	2,100	1,110	1,930	906
11	3,420	2,660	2,120	6,840	5,700	4,400	5,400	3,570	1,630	1,830	1,930	766
12	3,500	1,800	8,680	6,840	4,600	4,200	5,100	3,570	1,730	1,880	1,630	1,350
13	2,800	1,350	11,100	6,840	4,800	4,400	5,100	3,360	2,620	1,930	850	2,150
14	2,180	1,260	7,700	15,000	5,000	4,700	5,000	2,820	2,440	1,980	577	2,380
15	2,050	2,180	6,040	14,100	5,000	4,500	4,510	2,440	2,500	1,830	1,580	1,680
16	1,540	2,590	5,270	11,800	4,600	4,500	4,100	2,880	2,380	1,300	1,930	1,020
17	1,020	2,180	5,560	10,600	4,600	4,400	3,870	2,750	2,100	1,110	1,930	682
18	2,050	2,180	5,270	8,720	4,100	4,100	4,180	2,620	1,480	2,260	1,830	986
19	2,450	1,980	7,260	9,920	3,800	3,700	4,020	2,200	1,260	2,320	1,440	2,150
20	2,240	1,330	8,800	12,100	4,000	3,700	4,020	2,040	2,100	2,100	752	2,150
21	1,800	1,310	7,480	10,400	4,300	4,400	3,940	2,150	2,100	1,730	731	2,380
22	1,640	2,180	7,040	9,920	4,600	4,400	4,100	1,680	2,260	1,780	1,480	2,260
23	1,420	2,160	6,640	13,500	4,000	4,400	4,180	2,750	2,200	1,220	2,000	1,680
24	1,020	2,730	5,840	13,000	3,900	4,500	4,340	2,880	1,780	970	2,400	1,260
25	2,050	2,450	5,080	11,800	3,800	4,100	4,510	3,360	1,140	1,630	800	1,440
26	2,590	1,920	4,710	10,200	3,700	3,800	4,340	3,080	1,300	2,100	773	2,150
27	2,590	1,200	4,620	9,440	4,300	8,000	4,100	2,680	2,150	2,040	946	2,260
28	2,180	1,180	5,270	8,240	5,300	19,300	3,870	2,100	1,930	2,040	1,150	2,440
29	3,660	2,310	9,240	7,140		16,900	3,500	2,750	1,930	1,880	2,260	1,880
30	3,180	2,450	9,460	7,500		13,800	3,570	3,290	1,980	1,260	2,260	1,530
31	2,450		7,920	7,300		12,300		2,680		808	1,880	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,660	1,020	2,310	142,000
November	2,730	1,180	2,100	125,000
December	11,100	1,330	5,560	342,000
January	17,800	6,840	10,100	621,000
February	8,000	3,700	5,140	285,000
March	19,300	3,700	6,050	372,000
April	10,900	3,500	5,390	321,000
May	4,680	1,880	3,130	192,000
June	3,220	1,140	2,130	127,000
July	2,320	808	1,630	100,000
August	2,400	577	1,510	92,800
September	2,440	682	1,720	102,000
The year	19,300	577	3,900	2,820,000

Sprague River near Chiloquin, Oreg.

Location.- Water-stage recorder in NE¼ sec. 35, T. 34 S., R. 7 E., 1¼ miles east of Chiloquin and 4 miles by river above Modoc Point Canal intake.

Drainage area.- 1,580 square miles.

Records available.- August 1931 to September 1934. Comparable record except for extremely low stages at station at McCready ranch, 12 miles upstream, July 1920 to September 1931.

Average discharge.- 13 years (1921-34), 391 second-feet.

Extremes.- Maximum discharge during year, 738 second-feet Apr. 3, 4 (gage height, 2.55 feet); minimum, 100 second-feet Oct. 1, Aug. 15 (gage height, 1.25 feet).
1920-34: Maximum discharge, 3,920 second-feet Mar. 29, 1928; minimum, about 50 second-feet May 26, 27, 1928.
Maximum discharge known, 4,490 second-feet at Chiloquin, Apr. 27, 1917.

Remarks.- Records good. Discharge estimated Dec. 1, 16, 17, Apr. 18-26. Diversions for irrigation above station; regulation by ponding at irrigation dams.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	109	242	220	305	325	373	563	246	188	159	153	116
2	226	335	218	340	310	362	672	250	188	159	153	119
3	210	310	238	384	295	356	724	268	188	159	153	121
4	206	272	226	390	286	351	705	286	188	159	153	124
5	195	264	234	419	281	340	601	305	188	159	159	121
6	188	268	238	473	281	330	551	290	191	159	169	121
7	119	264	242	509	281	320	551	268	188	156	166	121
8	116	305	238	497	286	310	545	246	188	156	163	119
9	124	259	238	431	300	315	509	238	184	153	163	119
10	127	246	238	356	325	320	467	195	184	153	163	119
11	132	242	238	310	351	320	437	124	184	195	163	129
12	153	242	246	286	340	320	413	129	184	234	159	132
13	163	238	259	277	330	300	214	132	184	234	127	134
14	163	238	272	277	325	310	407	134	184	234	107	137
15	166	242	281	277	315	315	384	134	184	218	105	134
16	176	238	270	272	305	325	362	124	169	195	114	134
17	290	238	210	277	295	320	195	114	159	180	119	132
18	300	234	238	286	286	330	180	116	153	173	121	132
19	199	234	264	281	281	335	240	150	147	173	119	132
20	195	234	259	286	281	340	250	166	147	173	119	132
21	191	230	264	290	281	346	490	150	150	169	116	134
22	191	230	259	315	290	351	420	140	147	169	114	137
23	195	234	264	330	300	362	310	206	147	169	107	147
24	191	238	268	351	315	362	260	156	150	166	105	153
25	206	234	277	390	340	368	260	129	153	163	103	188
26	150	234	268	485	368	373	260	134	150	163	103	199
27	143	234	264	545	395	384	264	150	150	163	105	191
28	159	238	264	533	395	401	246	173	153	163	107	180
29	202	234	277	473		419	234	188	153	159	105	173
30	255	226	295	401		425	242	188	156	156	105	184
31	230		290	351		479		184		156	109	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	300	109	183	11,250
November	335	226	249	14,830
December	295	210	253	15,580
January	545	272	368	22,610
February	395	281	313	17,380
March	479	300	350	21,540
April	724	180	399	23,710
May	305	114	184	11,330
June	191	147	169	10,070
July	234	153	173	10,670
August	169	103	130	7,990
September	199	116	140	8,360
The year	724	103	242	175,300

Wood River at Fort Klamath, Oreg.

Location.- Staff gage in sec. 22, T. 33 S., R. 7½ E., at highway bridge a quarter of a mile east of Fort Klamath. Zero of gage is 4,166.65 feet above mean sea level, by 1929 general adjustment.

Records available.- August 1911 to September 1934 (incomplete prior to 1922).

Average discharge.- 16 years (1913-16, 1918-19, 1922-34), 181 second-feet.

Extremes.- Maximum discharge during year, 323 second-feet Jan. 3 (gage height, 2.20 feet); minimum, 101 second-feet Aug. 27 (gage height, 0.66 foot).
1911-34: Maximum discharge (estimated), 600 second-feet Nov. 23-25, 1921 (gage height, 4.0 feet); minimum, 84 second-feet in July, August, September, 1931.

Remarks.- Records good. Considerable diversion for irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	210	234	195	242	210	202	266	188	160	132	123	121
2	210	226	195	242	210	210	250	173	160	133	126	121
3	210	226	195	323	210	210	234	180	160	129	109	121
4	210	218	195	234	210	202	234	180	160	130	109	118
5	210	218	202	218	202	202	226	180	160	128	107	118
6	210	218	226	210	202	202	234	180	160	132	107	121
7	218	218	242	210	202	202	226	180	166	135	107	121
8	218	218	226	210	195	202	226	180	160	133	107	138
9	218	218	226	210	195	202	226	180	160	133	107	138
10	218	218	210	210	202	210	226	173	152	135	107	126
11	226	210	218	210	202	210	218	173	152	136	105	126
12	218	210	218	210	195	202	226	160	160	133	106	126
13	218	210	218	218	195	202	210	160	152	127	107	133
14	218	210	210	234	195	202	210	166	150	128	126	148
15	218	210	218	226	195	210	210	166	150	124	124	135
16	218	210	195	226	195	210	218	160	149	120	126	138
17	218	218	195	210	195	210	226	166	150	114	124	150
18	218	218	210	226	195	210	218	166	149	114	126	148
19	218	218	226	242	195	202	195	133	150	109	128	150
20	210	218	234	258	195	210	188	133	148	121	126	140
21	210	210	242	242	195	210	166	134	149	116	98	143
22	210	210	242	290	195	210	166	140	145	112	105	145
23	210	218	234	226	195	210	166	148	139	109	104	143
24	210	218	234	218	195	210	180	146	128	108	103	140
25	202	218	226	210	202	218	153	180	123	112	103	148
26	210	218	218	210	202	226	143	160	109	114	103	146
27	210	218	218	210	202	242	160	160	112	113	101	150
28	210	202	218	210	202	290	160	160	121	114	148	160
29	218	202	226	210		282	160	166	116	116	123	153
30	234	180	226	210		258	166	160	118	126	123	153
31	234		226	210		258		160		126	121	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	234	202	215	13,230
November	234	180	215	12,770
December	242	195	218	13,420
January	323	210	226	13,910
February	210	195	199	11,070
March	290	202	217	13,340
April	266	143	203	12,070
May	188	133	164	10,100
June	166	109	146	8,660
July	136	108	123	7,560
August	148	98	114	7,020
September	160	118	137	8,170
The year	323	98	181	131,300

Fourmile Lake Reservoir near Odessa, Oreg.

Location.- Staff gage in NW¼ sec. 9, T. 36 S., R. 5 E., at dam at outlet of Fourmile Lake, 15 miles northwest of Odessa. Gage readings are elevations above mean sea level, irrigation company datum.

Records available.- June 1923 to September 1930, June 1932 to September 1934.

Extremes.- Maximum recorded contents during year, 13,600 acre-feet Apr. 21 (elevation, 6,000.3 feet); minimum, 967 acre-feet Aug. 15 to Sept. 30 (gage height, 5,981.8 feet).

1923-30, 1932-34: Maximum contents, 15,170 acre-feet July 10, 1933 (elevation, 6,002.0 feet); no storage at times.

Remarks.- Records good March to July; others fair. Water turned out of reservoir is diverted 300 feet below dam into Cascade Canal, which conveys it over divide into drainage basin of Fish Lake in Rogue River Basin. Records furnished by State engineer.

Monthly stage and contents, 1933-34

Date	Elevation in feet	Contents in acre-feet	Change in contents during month in acre-feet
Sept. 30		*9,550	
Oct. 31		*9,600	+50
Nov. 30		*9,800	+200
Dec. 31		*10,070	+270
Jan. 31		*11,000	+930
Feb. 28		*11,250	+250
Mar. 31		*12,790	+1,540
Apr. 30	5,999.1	12,530	-260
May 31	5,994.2	8,674	-3,856
June 30	5,987.7	4,392	-4,282
July 31	5,982.0	1,077	-3,315
Aug. 31		*967	-110
Sept. 30		*967	0
The year			-8,583

*Estimated.

Cascade Canal near Fish Lake, Oreg.

Location.- Water-stage recorder in SE¼ sec. 30, T. 36 S., R. 5 E., at divide between Rogue River and Klamath River Basins, 3 miles above Fish Lake.

Records available.- Irrigation seasons June 1924 to September 1934.

Extremes.- Maximum discharge during year, 60 second-feet June 5 (gage height, 2.20 feet); no flow at times.
1924-34: Maximum discharge, that of June 5, 1934.

Remarks.- Records good. Discharge estimated Apr. 21. This canal diverts water from Fourmile Creek in Klamath River Basin and discharges into Fish Lake in Rogue River Basin. Gaging station is 10 miles below point of diversion. About 1½ miles above Fish Lake is a lava bed into which entire flow sinks, reappearing in springs at head of Fish Lake. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	32	51	50	1	
2							0	32	52	51	0	
3							0	32	52	52	0	
4							0	30	53	52	0	
5							0	30	54	51	0	
6							0	30	54	51	0	
7							0	31	54	52	0	
8							0	30	52	53	0	
9							0	30	50	53	0	
10							0	33	53	54	0	
11							0	32	52	54	0	
12							0	34	52	52	0	
13							0	35	52	49	0	
14							0	36	51	28	0	
15							0	36	50	3	0	
16							0	36	50	33	0	
17							0	36	50	41	0	
18							0	37	50	40	0	
19							0	38	50	36	0	
20							0	38	52	32	0	
21							18	38	52	24	0	
22							30	39	52	20	0	
23							30	40	51	15	0	
24							30	41	51	12	0	
25							28	44	51	10	0	
26							28	45	53	6	0	
27							28	47	52	4	0	
28							28	48	52	3	0	
29							29	49	52	2	0	
30							32	49	50	1	0	
31								50		1	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	32	0	9.4	557
May	50	30	37.4	2,300
June	54	50	51.7	3,070
July	54	1	31.8	1,950
August	1	0	.03	2
September	0	0	0	0
The year	54	0	10.9	7,880

Note.- No flow during months left blank.

"A" Canal at Klamath Falls, Oreg.

Location.- Water-stage recorder in NE¼ sec. 30, T. 38 S., R. 9 E., 300 feet below head gates of canal and 1 mile northwest of Klamath Falls.

Records available.- October 1912 to September 1934, in reports of U. S. Geological Survey; October 1910 to September 1912 in reports of State engineer.

Average discharge.- 24 years, 154 second-feet.

Extremes.- Maximum discharge during year, 947 second-feet Apr. 26 (gage height, 9.81 feet); no flow Oct. 1 to Apr. 12.

1911-34: Maximum discharge, 986 second-feet May 14, 1931; maximum stage, 10.72 feet June 27, 1925.

Remarks.- Records good. "A" Canal diverts water from Upper Klamath Lake, in NE¼ sec. 30, T. 38 S., R. 9 E., for irrigating lands east of Klamath River on both sides of Lost River. Most of return waters reach Lost River. Records furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0						0	635	555	717	772	465
2	0						0	558	565	746	784	404
3	0						0	554	548	741	747	373
4	0						0	492	538	706	666	391
5	67						0	405	568	736	634	421
6	91						19	387	572	773	627	451
7	82						40	410	538	792	630	511
8	75						40	398	490	790	653	508
9	63						40	396	415	790	688	448
10	42						40	404	382	807	686	402
11	0						40	395	401	821	662	399
12	0						95	410	423	821	648	421
13	0						153	445	475	826	644	390
14	0						219	484	532	846	652	384
15	0						248	494	588	821	713	378
16	0						342	520	593	802	734	362
17	0						394	565	602	801	710	356
18	0						452	628	681	812	675	368
19	0						569	621	740	812	653	364
20	0						670	620	787	774	662	354
21	0						730	618	716	718	658	371
22	0						316	681	708	669	665	368
23	0						846	752	728	712	663	339
24	0						391	794	724	756	660	261
25	0						898	794	717	742	627	210
26	0						918	786	720	738	585	198
27	0						868	719	752	729	585	198
28	0						852	630	712	728	589	198
29	0						786	602	689	726	559	170
30	0						738	574	703	735	531	66
31	0							550		760	505	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	91	0	13.5	833
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	918	0	391	23,250
May	794	387	559	34,360
June	787	382	605	35,980
July	846	669	766	47,100
August	784	505	654	40,200
September	511	66	351	20,880
The year	918	0	280	202,600

Note.- No flow during months left blank.

Keno Canal at Klamath Falls, Oreg.

Location.- Staff gage in SW¼ sec. 32, T. 38 S., R. 9 E., 200 feet above penstock to west-side plant of The California Oregon Power Co. and a quarter of a mile above Link River bridge at Klamath Falls.

Records available.- October 1923 to September 1934.

Extremes.- Maximum mean daily discharge during year, 284 second-feet Nov. 1; no flow at times.
1923-34: Maximum mean daily discharge, that of Nov. 1, 1933.

Remarks.- Records good. Discharge determined from record of electrical output of power plant 200 feet below gage combined with spill at wasteway above canal gage. Canal diverts water from Upper Klamath Lake at Link River storage dam in SE¼ sec. 30. Water used for developing power and returned to Link River in SW¼ sec. 32. Flow controlled by gates at head of canal. Gage-height and electrical records furnished by The California Oregon Power Co.

Combined discharge, in second-feet, of Keno Canal and Wasteway, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	269	264	246	268	263	4	254	256	259	256	261	261
2	270	275	237	264	262	4	141	254	265	256	251	256
3	267	271	244	269	263	4	33	140	256	256	256	255
4	264	275	254	267	264	4	0	0	255	253	263	254
5	264	273	275	269	115	4	0	89	262	255	258	259
6	264	268	270	267	0	4	0	265	262	253	258	256
7	263	267	275	263	0	4	0	260	264	255	258	261
8	262	264	274	252	0	4	0	263	259	258	257	255
9	261	264	278	257	0	4	0	260	262	261	255	254
10	262	271	267	255	0	4	144	262	250	270	261	254
11	259	267	255	254	0	4	253	264	256	224	257	255
12	259	267	250	253	0	4	255	262	260	258	260	252
13	262	264	251	253	0	4	259	260	264	255	260	251
14	263	267	262	257	0	4	259	257	265	257	260	255
15	262	267	265	256	0	4	256	256	262	254	260	261
16	259	263	268	259	0	4	258	257	262	257	257	251
17	260	255	254	260	0	4	253	256	260	260	261	245
18	260	255	262	259	0	4	255	249	259	267	258	241
19	253	252	262	256	0	4	253	252	259	272	257	237
20	255	245	265	261	4	0	255	253	259	281	255	231
21	255	260	260	261	4	0	253	262	261	271	252	249
22	259	262	260	260	4	0	248	247	263	271	255	240
23	256	260	257	264	4	0	252	212	260	267	259	244
24	261	259	262	261	4	0	263	245	256	264	266	250
25	262	258	253	260	4	0	260	263	253	262	260	244
26	263	254	104	261	4	0	258	262	260	262	250	246
27	256	250	128	261	4	0	259	256	259	264	252	244
28	251	245	247	261	4	151	255	257	256	263	262	244
29	245	243	260	261		263	255	259	259	258	255	244
30	257	245	265	263		260	253	265	259	261	257	241
31	231		262	264		253		260		262	258	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	270	231	259	15,940
November	284	243	262	15,570
December	278	104	251	15,430
January	269	253	261	16,040
February	264	0	43.0	2,390
March	263	0	32.4	1,990
April	253	0	189	11,270
May	265	0	238	14,660
June	265	253	260	15,460
July	281	224	260	15,990
August	266	251	258	15,850
September	261	231	250	14,860
The year	284	0	215	155,400

Note.- Records of daily and monthly discharge published prior to Oct. 1, 1933, do not include the spill at wasteway above gage.

Lost River Diversion Canal near Olene, Oreg.

Location.- Water-stage recorder in SW¼ sec. 30, T. 39 S., R. 10 E., 1¼ miles below intake of canal at Lost River Dam and 5 miles southwest of Olene.

Records available.- May 1912 to September 1934.

Average discharge.- 21 years (1912-15, 1916-34), 100 second-feet.

Extremes.- Maximum mean daily discharge during year, 131 second-feet Sept. 29; no flow at times.
1912-34: Maximum discharge, 1,050 second-feet Mar. 22, 1932.

Remarks.- Records fair. Discharge estimated from daily gate openings and head at intake. Canal diverts water from Lost River in SW¼ sec. 29, T. 39 S., R. 10 E., and discharges into Klamath River to assist in reclamation of bed of Tule Lake. At times direction of flow is reversed and water diverted from Klamath River into Lost River (see record for Diversion from Klamath River to Lost River near Olene, Oreg.). Records furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	109	112	100	100	102	110						0
2	106	114	98	100	98	105						0
3	105	112	97	102	97	107						0
4	101	113	100	103	99	106						0
5	98	108	98	104	99	108						0
6	96	106	98	102	99	107						0
7	98	105	99	108	101	104						0
8	101	104	102	104	97	99						0
9	99	104	102	97	100	98						0
10	97	104	102	101	104	95						46
11	99	104	98	109	111	97						72
12	95	104	102	108	115	94						61
13	91	102	98	106	115	95						65
14	94	101	104	104	114	99						64
15	79	100	107	102	113	106						62
16	77	100	102	104	110	106						51
17	93	98	106	104	112	98						47
18	98	98	107	101	111	97						58
19	96	99	107	99	114	97						66
20	94	99	102	98	114	44						85
21	94	98	107	102	114	0						97
22	91	98	106	102	108	0						88
23	92	98	105	102	107	0						76
24	92	106	105	98	108	0						64
25	91	113	106	106	109	0						70
26	91	111	105	106	110	0						75
27	95	108	103	107	114	0						81
28	105	102	100	106	112	0						100
29	109	103	103	106		0						131
30	115	100	102	105		0						120
31	111		102	105		0						

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	115	77	97.2	5,970
November	114	98	104	6,200
December	107	97	102	6,290
January	109	97	103	6,350
February	115	97	107	5,960
March	110	0	63.6	3,910
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	131	0	52.6	3,130
The year	131	0	52.2	37,810

Note.- No flow during months left blank.

Diversion from Klamath River to Lost River near Olene, Oreg.

Location.- Staff gages and orifice at diversion from Klamath River 3½ miles south of Klamath Falls; water-stage recorder near wasteway in SW¼ sec. 30, T. 39 S., R. 10 E., 5 miles southwest of Olene, Oreg.

Records available.- April 1931, when diversion began, to September 1934.

Extremes.- Maximum mean daily discharge during year, 386 second-feet Apr. 25; no flow at times.
1931-34: Maximum mean daily discharge, 564 second-feet Apr. 13, 1933.

Remarks.- Records fair. Discharge determined from gate openings and gage readings at intake from Klamath River. This canal was built to divert water from Lost River to Klamath River to assist in reclamation of the bed of Tule Lake (see record for Lost River Diversion Canal near Olene, Oreg.). Beginning in April 1931 water was diverted from Klamath River and released into drain which empties into Lost River, from which it was rediverted for irrigation of lands near Tule Lake. Records furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	318	107	154	58	
2							0	202	110	154	97	
3							0	163	110	115	90	
4							0	171	110	52	56	
5							0	170	110	73	56	
6							0	170	110	98	57	
7							0	170	100	142	57	
8							0	171	41	232	57	
9							0	170	0	284	57	
10							62	170	0	305	55	
11							100	170	0	307	0	
12							177	195	0	300	0	
13							250	209	0	259	0	
14							250	209	31	260	0	
15							250	208	45	260	0	
16							250	219	68	210	0	
17							250	280	138	220	0	
18							245	325	186	252	0	
19							301	350	186	219	0	
20							350	340	186	202	7	
21							350	325	186	171	40	
22							350	300	187	152	76	
23							350	327	187	154	142	
24							366	345	187	153	139	
25							386	356	187	153	102	
26							371	340	164	118	104	
27							356	315	153	104	95	
28							350	268	153	79	49	
29							347	208	153	52	29	
30							340	159	153	51	0	
31								131		51	0	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	386	0	202	12,000
May	356	131	240	14,760
June	187	0	112	6,640
July	307	51	172	10,580
August	142	0	45.9	2,820
September	0	0	0	0
The year	386	0	64.7	46,800

Note.- No flow during months left blank.

Fall Creek at Copco, Calif.

Location.- Staff gage in NE¼ sec. 36, T. 48 N., R. 5 W., at railway crossing 500 feet above mouth and 1 mile south of Fall Creek power plant and Copco post office.

Records available.- July 1928 to September 1934.

Extremes.- Maximum recorded discharge during year, 42 second-feet Jan. 14 (gage height, 0.65 foot); minimum, 26 second-feet Sept. 10-21 (gage height, 0.40 foot).
1928-34: Maximum discharge, 105 second-feet Dec. 27, 1928; minimum, 27 second-feet Aug. 10, 1930.

Remarks.- Records fair. No diversions or regulation. Gage-height record furnished by The California Oregon Power Co.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	33	33	*33	*31	*31	31	*32	*30	28	30	*27
2	29	32	33	*34	*31	31	31	*31	*30	*28	*30	*27
3	27	33	34	36	31	31	31	*31	30	*28	*30	27
4	28	33	33	33	*31	31	*31	*31	*30	*28	*30	*27
5	28	33	33	32	31	31	*31	31	31	*28	*30	*27
6	28	32	33	*32	31	31	*31	*31	*31	*28	*30	*27
7	29	32	35	32	31	*31	31	31	*31	*28	*30	*27
8	30	32	34	31	*31	*31	*31	*31	*31	28	31	*27
9	29	32	33	31	31	31	31	*31	*31	29	*30	*27
10	29	32	34	31	*31	*31	*31	31	31	*29	*29	*26
11	30	*32	33	*31	31	31	*31	*32	*31	*30	*28	*26
12	31	32	34	31	31	31	*31	32	*31	*31	*27	*26
13	30	*32	34	*33	*31	31	31	*32	*31	31	27	*26
14	29	31	35	42	*30	*31	32	32	*31	*31	*28	*26
15	30	32	*35	*37	*30	31	32	*32	*31	*31	29	*26
16	30	32	34	*33	30	*31	*32	31	*31	*31	*29	26
17	30	32	34	31	31	31	*32	*31	31	*31	*30	*26
18	30	33	32	*33	31	31	32	*31	27	*31	*30	*26
19	30	33	33	35	31	31	*32	*31	*30	*31	*30	*26
20	30	33	*33	32	*32	31	*32	*32	*30	31	*31	*26
21	32	33	*33	31	32	31	*32	*32	*30	*30	31	*26
22	33	32	*33	32	31	31	32	*32	*30	30	*31	*30
23	34	33	*32	37	32	*32	*32	32	*30	30	*30	31
24	34	32	*32	35	31	32	32	*32	30	30	*30	*31
25	34	31	*32	33	31	*32	30	*31	*30	*30	*29	*31
26	34	31	32	*33	31	31	*31	*31	30	*30	*29	*30
27	34	31	*33	33	33	31	*31	*30	*30	*30	*28	*30
28	34	32	33	33	31	31	*31	30	*29	*30	*28	*30
29	37	33	34	32		31	32	*30	*29	30	28	*30
30	35	33	35	32		32	*32	*30	*28	*30	*28	30
31	33		33	31		*32		*30		*30	*28	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	37	27	31.0	1,900
November	33	31	32.2	1,920
December	35	32	33.4	2,050
January	42	31	33.1	2,030
February	33	30	31.1	1,730
March	32	31	31.2	1,920
April	32	30	31.4	1,870
May	32	30	31.2	1,920
June	31	27	30.2	1,800
July	31	28	29.7	1,830
August	31	27	29.3	1,800
September	31	26	27.6	1,640
The year	42	26	30.9	22,410

*Estimated.

142901 O—35——23

Keene Creek Canal near Ashland, Oreg.

Location.- Water-stage recorder in NW¼ sec. 29, T. 39 S., R. 3 E., 400 feet above short tunnel through Cascade Divide, 2 miles north of Ashland-Klamath Falls highway, and 16 miles southeast of Ashland.

Records available.- June 1923 to September 1934.

Extremes.- Maximum discharge during year, 44 second-feet Aug. 8 (gage height, 3.29 feet); no flow at times.
1923-34: Maximum discharge, 78 second-feet Aug. 18, 1928.

Remarks.- Records good except those estimated, which are fair. Canal diverts from Keene Creek in SE¼ sec. 20, T. 39 S., R. 3 E., water released from Hyatt Prairie Reservoir into head of Emigrant Creek for irrigation of lands near Talent. Probably no flow in canal, October to March, from run-off from basin above canal and below Hyatt Prairie Reservoir, from which stored water was released Apr. 19-25, May 15 to Sept. 8. Records furnished by State engineer.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	*1	36	29	17	4
2							0	*1	36	29	21	3
3							0	*1	35	29	29	2
4							0	*1	35	29	31	2
5							0	0	35	28	34	.8
6							0	0	35	26	36	.4
7							0	0	35	22	40	.2
8							0	0	34	22	39	.1
9							0	0	34	22	38	0
10							0	0	34	22	36	0
11							0	0	34	21	30	0
12							0	0	34	18	15	0
13							0	0	34	17	4	0
14							0	0	34	17	4	0
15							0	.6	34	17	3	0
16							0	15	33	17	3	0
17							0	17		17	3	0
18							0	15		17	3	0
19							*2	12		17	3	0
20							10	10		17	2	0
21							10	10		16	3	0
22							*10	14		16	4	0
23							*10	16		15	4	0
24							*10	17	*31	14	4	0
25							*6	28		14	3	.2
26							*2	36		14	4	.2
27							*2	36		15	4	.2
28							†2	37		15	4	.1
29							*2	37		16	4	.1
30							*2	37		16	4	.1
31								37		16	4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	10	0	2.3	135
May	37	0	12.2	751
June	36		32.9	1,960
July	29	14	19.4	1,190
August	40	2	14.0	859
September	4	0	.45	27
The year	40	0	6.79	4,920

*Estimated. †Field estimated.

Note.- No flow during months left blank.

Hyatt Prairie Reservoir near Ashland, Oreg.

Location.- Staff gage in SW¼ sec. 16, T. 39 S., R. 3 E., at dam of Talent Irrigation District 3 miles north of Ashland-Klamath Falls highway and 20 miles east of Ashland. Gage readings are elevation above mean sea level, irrigation district datum.

Records available.- December 1922 to September 1934.

Extremes.- Maximum contents during year, 6,267 acre-feet Apr. 17, 19, May 8 (elevation, 5,002.7 feet); no storage in latter part of September.
1922-34: Maximum contents, 15,920 acre-feet May 15, 16, 1928 (elevation, 5,015.70 feet); no storage at times.

Remarks.- Records good except those for October to December, which are fair. Records furnished by State engineer.

Monthly stage and contents, 1933-34

Date	Elevation in feet	Contents in acre-feet	Change in contents during month in acre-feet
Sept. 30		*4,500	
Oct. 31		*4,600	+100
Nov. 30		*4,700	+100
Dec. 31		*4,850	+150
Jan. 31		*5,320	+470
Feb. 28		5,590	+270
Mar. 31	5,002.3	6,027	+437
Apr. 30		*6,150	+123
May 31	5,001.4	5,496	-654
June 30		*3,280	-2,216
July 31		*1,710	-1,570
Aug. 31		*400	-1,310
Sept. 30		0	-400
The year			-4,500

*Estimated.

Shasta River near Yreka, Calif.

Location.- Water-stage recorder installed Nov. 2, 1933 (staff gage at same site prior to Nov. 2) in NE¼ sec. 24, T. 46 N., R. 7 W., 0.6 mile above mouth and 6 miles north of Yreka. Altitude, about 2,000 feet.

Drainage area.- 804 square miles.

Records available.- October 1933 to September 1934.

Extremes.- Maximum discharge during year, 166 second-feet Jan. 3 (gage height, 2.89 feet); minimum, 6 second-feet July 26.

Remarks.- Records good. Discharge estimated Oct. 1, Nov. 26 to Dec. 11. Storage and many irrigation diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	124	136	122	146	140	132	115	62	49	17	11	28
2	124	136	124	148	140	132	105	72	44	20	12	50
3	124	134	130	164	140	130	94	79	32	41	11	50
4	113	132	128	159	140	130	88	78	27	29	9.5	25
5	113	132	126	153	138	128	60	82	30	25	9	22
6	103	132	126	146	138	134	63	48	66	17	11	27
7	103	132	140	144	136	136	61	44	50	20	8	26
8	103	132	138	142	132	132	51	45	60	30	8.5	22
9	106	132	136	140	134	130	41	46	73	16	9.5	16
10	106	132	134	140	136	124	33	48	84	17	9	16
11	96	132	136	138	134	124	34	43	66	23	7.5	18
12	96	132	144	136	134	126	24	29	41	29	8	20
13	96	132	144	138	132	113	18	27	36	34	11	19
14	103	132	144	144	130	100	15	23	32	29	18	13
15	106	132	146	146	130	100	15	21	20	26	16	15
16	106	132	140	142	128	96	17	19	17	12	11	18
17	106	132	134	140	128	100	15	20	16	14	12	22
18	106	132	132	140	130	82	11	12	23	18	20	32
19	106	132	130	142	130	82	8	13	12	17	18	37
20	106	132	128	146	130	47	8.5	13	27	13	18	47
21	106	132	128	146	132	57	8	14	32	11	13	54
22	106	130	130	146	132	45	16	16	24	8.5	12	51
23	106	130	132	148	132	42	18	15	27	8	10	52
24	117	130	132	150	132	41	22	14	24	8.5	11	63
25	117	128	132	146	130	41	24	14	34	8	18	73
26	117	128	132	142	130	43	24	13	32	6.5	18	76
27	117	126	134	142	130	42	29	35	26	11	15	78
28	128	124	134	142	134	93	24	46	25	20	20	85
29	128	122	134	142		132	22	58	24	16	29	94
30	134	122	140	142		128	28	78	22	11	22	94
31	136		148	140		124		60		10	22	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	136	96	112	6,890
November	136	122	131	7,800
December	148	122	134	8,240
January	164	138	145	8,920
February	140	128	133	7,390
March	136	41	98.9	6,080
April	115	8	36.4	2,170
May	82	12	38.9	2,390
June	84	12	35.9	2,140
July	41	6.5	18.3	1,130
August	29	7.5	13.8	848
September	94	13	41.5	2,470
The year	164	6.5	77.9	56,500

Salmon River at Somesbar, Calif.

Location.- Water-stage recorder in NW¼ sec. 2, T. 11 N. R. 6 E., 1⅛ miles above mouth and half a mile east of Somesbar post office. Altitude, about 500 feet.

Drainage area.- 737 square miles.

Records available.- September 1911 to September 1915, October 1927 to September 1934.

Extremes.- Maximum discharge during year, 10,600 second-feet Mar. 28 (gage height, 9.00 feet); minimum, 93 second-feet Sept. 21-22.
1927-34: Maximum discharge, 21,200 second-feet Mar. 26, 1928 (gage height, 13.0 feet); minimum, 70 second-feet Aug. 25, Sept. 4-5, 1931.

Remarks.- Records good. No large diversions above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	196	392	178	1,410	1,460	1,070	2,730	1,140	634	269	138	101
2	192	380	234	1,700	1,440	1,150	2,380	1,190	588	269	138	101
3	187	386	355	5,020	1,360	1,250	2,090	1,370	542	254	138	98
4	183	342	259	3,350	1,280	1,230	1,900	1,300	520	244	138	98
5	178	302	234	2,330	1,230	1,510	1,780	1,230	512	234	138	98
6	174	280	438	1,820	1,240	1,540	1,700	1,160	565	224	138	98
7	170	264	1,190	1,540	1,390	1,370	1,700	1,070	602	119	135	98
8	170	244	595	1,360	1,720	1,250	1,680	1,100	558	224	131	98
9	166	234	433	1,230	1,430	1,210	1,570	1,040	512	219	128	98
10	166	229	373	1,120	1,290	1,240	1,510	930	482	210	124	98
11	166	224	380	1,010	1,200	1,280	1,510	930	468	201	121	98
12	166	219	1,250	970	1,130	1,320	1,480	960	475	192	121	98
13	162	210	2,110	970	1,070	1,290	1,480	880	475	187	118	98
14	162	206	1,240	3,150	1,020	1,300	1,410	834	446	183	118	101
15	162	206	940	3,110	1,010	1,360	1,370	834	412	178	114	98
16	162	206	735	2,250	1,020	1,330	1,340	798	392	178	114	98
17	162	201	735	1,860	970	1,230	1,230	744	380	178	114	96
18	162	201	870	1,720	981	1,190	1,150	699	361	178	114	96
19	162	201	1,160	2,090	992	1,210	1,150	658	349	174	111	96
20	166	201	1,400	2,520	1,010	1,230	1,150	642	336	166	111	96
21	166	201	1,090	2,160	950	1,260	1,210	610	330	166	107	93
22	166	196	1,020	2,180	930	1,360	1,400	610	319	166	104	93
23	166	192	1,010	3,070	910	1,280	1,610	618	302	166	101	128
24	166	192	992	2,810	870	1,290	1,550	650	296	162	101	158
25	162	183	950	2,380	852	1,360	1,290	690	308	158	101	146
26	162	178	930	2,140	910	1,250	1,120	674	399	158	98	131
27	166	178	890	1,990	1,010	3,380	1,050	726	349	154	101	131
28	219	183	852	1,820	1,150	8,500	992	690	319	146	111	128
29	595	178	1,370	1,720		5,880	930	992	296	146	111	121
30	674	178	1,780	1,600		3,880	1,010	762	280	138	107	118
31	535		1,480	1,500		3,230		658		138	104	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	674	162	213	13,100
November	392	178	233	13,900
December	2,110	178	886	54,500
January	5,020	970	2,060	127,000
February	1,720	852	1,140	63,300
March	8,500	1,070	1,880	116,000
April	2,730	930	1,480	88,100
May	1,370	610	877	53,900
June	634	280	427	25,400
July	269	138	190	11,700
August	138	98	118	7,260
September	158	93	107	6,370
The year	8,500	93	801	581,000

Trinity River at Lewiston, Calif.

Location.- Water-stage recorder in NE¼ sec. 19, T. 33 N., R. 8 W., at highway bridge at Lewiston. Zero of gage is 1,794.72 feet above sea level.

Drainage area.- 724 square miles.

Records available.- August 1911 to September 1934.

Average discharge.- 23 years, 1,400 second-feet.

Extremes.- Maximum discharge during year, 12,400 second-feet Mar. 28 (gage height, 11.21 feet); minimum, 61 second-feet Sept. 22.
1911-34: Maximum discharge, about 31,900 second-feet Nov. 30, 1926 (gage height, 18.3 feet); minimum, 23 second-feet July 30, 1924.

Remarks.- Records excellent. Diversions for irrigation, power, and placer mining above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	120	264	140	3,340	1,120	2,140	3,220	1,940	777	240	98	74
2	118	247	147	2,860	1,140	1,990	2,800	1,860	694	237	98	73
3	116	234	191	3,220	1,100	2,040	2,400	1,810	640	230	94	70
4	112	214	194	2,340	1,040	2,040	2,190	1,760	604	221	92	67
5	109	197	191	1,720	1,040	2,510	2,140	1,860	616	208	92	64
6	105	183	186	1,380	1,540	2,460	2,190	1,860	652	194	94	64
7	101	174	272	1,180	2,980	2,190	2,400	1,810	682	186	94	63
8	98	169	264	1,030	4,120	1,940	2,560	1,680	634	183	91	63
9	96	163	234	945	2,800	1,860	2,460	1,540	598	177	89	63
10	91	160	218	868	2,140	1,940	2,400	1,420	592	174	89	66
11	87	158	218	784	1,760	2,040	2,400	1,540	562	163	87	66
12	91	152	476	721	1,540	2,140	2,340	1,580	538	155	87	67
13	94	150	1,140	664	1,380	2,090	2,400	1,420	550	150	84	67
14	94	147	770	847	1,260	2,140	2,400	1,340	532	147	82	67
15	94	147	562	973	1,300	2,290	2,400	1,340	482	142	81	67
16	96	147	460	854	2,140	2,400	2,340	1,260	448	140	79	68
17	98	147	385	784	1,860	2,140	2,090	1,130	416	134	76	67
18	98	144	356	749	1,720	1,990	1,940	1,020	395	130	74	66
19	98	142	351	791	1,810	2,090	1,940	938	380	125	73	66
20	98	142	338	1,260	2,190	2,090	1,990	896	360	120	71	64
21	98	140	333	1,180	1,900	2,240	2,140	861	346	116	70	64
22	98	142	338	1,180	1,860	2,240	2,620	854	333	116	70	63
23	100	144	346	1,300	2,240	2,190	4,260	868	307	116	70	67
24	101	142	360	1,380	2,090	2,190	4,120	833	291	114	68	68
25	101	144	351	1,220	1,900	2,560	3,100	924	295	109	67	77
26	101	142	356	1,110	2,860	2,340	2,620	861	324	107	67	87
27	101	142	360	1,120	2,800	4,170	2,340	1,120	315	105	67	89
28	101	140	360	1,140	2,460	11,300	2,140	988	299	105	68	91
29	137	140	834	1,130		8,600	1,940	1,090	279	103	74	89
30	279	140	2,090	1,130		5,140	1,860	973	261	100	76	89
31	320		1,540	1,090		3,860		840		98	76	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	320	87	115	7,070
November	264	140	163	9,700
December	2,090	140	463	28,500
January	3,340	664	1,300	79,900
February	4,120	1,040	1,930	107,000
March	11,300	1,860	2,880	177,000
April	4,260	1,860	2,470	147,000
May	1,940	833	1,300	79,900
June	777	261	473	28,100
July	240	98	150	9,220
August	98	67	80.6	4,960
September	91	63	70.5	4,200
The year	11,300	63	943	683,000

Trinity River near Burnt Ranch, Calif.

Location.- Water-stage recorder in sec. 20, T. 5 N., R. 7 E., 2 miles above highway bridge at Cedar Flat and 7 miles above Burnt Ranch. Altitude, about 950 feet.

Drainage area.- 1,400 square miles.

Records available.- October 1931 to September 1934.

Extremes.- Maximum discharge during year, 18,500 second-feet Mar. 28 (gage height, 14.42 feet); minimum, 97 second-feet Sept. 10.
1931-34: Maximum discharge, that of Mar. 28, 1934; minimum, 89 second-feet Oct. 5, 1931.

Remarks.- Records excellent except those for Oct. 1-11, Mar. 11-18, 22-31, Apr. 1-9, 13-16, which were estimated. Slight regulation and small diversions for mining and irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	160	529	210	4,240	1,840	3,840	6,000	2,860	1,250	459	158	121
2	158	492	239	5,610	1,880	3,470	5,000	2,740	1,180	437	155	122
3	156	460	332	5,950	1,840	3,470	4,000	2,740	1,100	415	155	120
4	155	413	335	4,970	1,750	3,350	3,700	2,690	1,000	391	155	117
5	153	373	319	3,590	1,660	3,590	3,400	2,690	1,000	391	155	113
6	151	339	316	2,760	1,800	3,840	3,200	2,740	1,040	368	155	108
7	150	310	547	2,280	2,990	3,470	3,100	2,640	1,070	345	154	105
8	148	288	556	1,980	5,130	3,050	3,200	2,470	1,070	330	152	104
9	146	270	476	1,800	4,380	2,820	3,300	2,270	1,000	321	151	104
10	145	265	421	1,620	3,350	2,760	3,260	2,070	970	315	149	101
11	143	257	421	1,490	2,760	2,800	3,260	2,120	970	309	145	101
12	142	252	958	1,370	2,430	2,900	3,260	2,270	940	299	141	104
13	139	244	2,180	1,290	2,180	2,800	3,200	2,120	910	281	142	104
14	144	242	1,800	1,700	1,980	2,900	3,200	2,020	880	272	136	106
15	142	239	1,290	2,480	1,880	2,900	3,200	1,970	838	252	132	109
16	142	234	1,040	2,080	2,600	3,000	3,100	1,840	776	233	131	110
17	144	234	890	1,840	2,820	2,900	2,860	1,700	732	229	128	112
18	146	234	805	1,660	2,540	2,700	2,640	1,570	695	231	124	113
19	148	232	780	1,750	2,480	2,700	2,580	1,450	660	229	123	113
20	151	232	780	2,430	2,870	2,820	2,640	1,370	630	221	122	109
21	151	230	780	2,430	2,820	2,870	2,800	1,330	610	217	120	108
22	149	227	805	2,330	2,600	2,900	3,020	1,290	578	210	118	107
23	152	225	832	2,300	3,050	2,800	4,830	1,330	552	207	116	120
24	155	225	860	2,700	3,350	2,800	5,950	1,370	522	203	114	134
25	156	220	890	2,430	2,990	2,900	4,540	1,410	522	201	115	131
26	159	218	890	2,130	3,710	3,000	3,740	1,450	578	194	116	129
27	158	218	920	2,030	4,820	4,500	3,380	1,570	588	193	114	144
28	158	216	920	2,030	4,380	15,000	2,960	1,660	552	188	117	155
29	174	214	1,570	1,980		12,000	2,740	1,840	522	178	118	151
30	366	208	3,230	1,930		9,000	2,580	1,660	494	172	118	148
31	556		3,350	1,880		7,000		1,450		166	120	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	556	139	171	10,500
November	529	208	278	16,500
December	3,350	210	959	59,000
January	5,950	1,290	2,500	154,000
February	5,130	1,660	2,820	157,000
March	15,000	2,700	4,090	251,000
April	6,000	2,580	3,490	208,000
May	2,860	1,290	1,960	121,000
June	1,250	494	808	48,100
July	459	166	273	16,800
August	158	114	134	8,240
September	155	101	117	6,960
The year	15,000	101	1,460	1,060,000

Trinity River near Hoopa, Calif.

Location.- Water-stage recorder in SE¼ sec. 31, T. 8 N., R. 5 E., on Hoopa Indian Reservation, half a mile below mouth of Campbell Creek and 2 miles southeast of Hoopa.

Drainage area.- 2,820 square miles.

Records available.- October 1931 to September 1934; also at Hoopa, October 1911 to January 1914 and November 1916 to August 1918.

Extremes.- Maximum discharge during year, 20,600 second-feet Mar. 28 (gage height, 13.96 feet); minimum, 187 second-feet Sept. 11.
1911-14, 1916-18, 1931-34: Maximum discharge, 89,000 second-feet Dec. 31, 1913 (gage height, 28.1 feet at old Hoopa gage); minimum, 162 second-feet Oct. 4, 1931.

Remarks.- Records excellent except those for Oct. 1-11, Sept. 12-30, which were estimated. Small diversions for mining and irrigation above station.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	400	1,110	426	10,200	3,950	7,640	8,620	4,480	2,270	828	303	211
2	390	938	496	13,600	3,870	6,920	7,400	4,380	2,070	800	293	211
3	380	828	682	14,400	3,710	6,450	6,450	4,290	1,920	750	291	210
4	370	775	882	12,200	3,560	6,220	5,790	4,200	1,780	728	291	206
5	360	682	775	8,880	3,410	6,220	5,270	4,030	1,740	705	291	203
6	350	616	800	6,920	3,340	6,220	5,070	3,950	1,740	660	288	198
7	340	574	1,480	5,790	4,200	5,790	4,970	3,790	1,780	638	286	195
8	330	554	1,320	4,970	6,920	5,170	5,070	3,710	1,740	616	286	192
9	320	534	1,080	4,290	6,920	4,770	5,070	3,480	1,700	595	284	190
10	310	515	910	3,950	5,480	4,670	4,870	3,200	1,620	574	279	190
11	300	496	855	3,560	4,770	4,570	4,770	3,080	1,540	574	271	188
12	310	496	2,080	3,240	4,200	4,670	4,670	3,200	1,510	534	262	190
13	305	478	7,160	3,200	3,870	4,570	4,570	3,140	1,480	534	258	195
14	300	478	5,790	5,300	3,560	4,480	4,480	2,890	1,410	496	254	195
15	308	478	4,030	8,360	3,410	4,480	4,380	2,830	1,380	496	246	195
16	300	460	3,140	6,680	3,790	4,570	4,290	2,710	1,290	478	242	200
17	305	460	2,830	5,480	4,380	4,570	4,120	2,600	1,230	460	236	200
18	308	460	2,710	4,870	4,030	4,200	3,870	2,380	1,170	460	234	205
19	310	457	2,830	4,870	4,120	4,030	3,710	2,220	1,140	436	230	205
20	313	457	3,200	6,450	4,770	4,120	3,640	2,070	1,080	416	230	200
21	315	453	3,080	6,220	4,870	4,120	3,790	2,020	1,050	404	228	200
22	315	450	2,830	6,000	4,570	4,200	4,030	1,970	1,020	397	224	200
23	318	446	2,710	6,450	4,870	4,200	5,580	1,920	965	388	215	220
24	320	446	2,710	6,920	5,370	4,030	7,400	2,120	938	379	213	250
25	323	443	2,770	6,220	4,970	4,120	6,220	2,320	910	373	210	240
26	320	436	2,770	5,580	6,450	4,380	5,070	2,380	1,020	364	210	240
27	326	433	2,770	5,170	8,880	4,970	4,570	2,540	1,050	353	211	260
28	339	443	2,770	4,970	8,620	16,100	4,120	2,650	992	350	213	280
29	423	436	5,810	4,670		19,400	3,870	3,010	938	336	215	270
30	660	429	10,500	4,380		13,600	3,790	2,890	882	323	213	260
31	1,110		9,400	4,120		10,500		2,540		313	211	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,110	300	367	22,600
November	1,110	429	542	32,300
December	10,500	426	2,960	182,000
January	14,400	3,200	6,380	392,000
February	8,880	3,340	4,820	268,000
March	19,400	4,030	6,260	385,000
April	8,620	3,640	4,980	296,000
May	4,480	1,920	3,000	184,000
June	2,270	882	1,380	82,100
July	828	313	508	31,200
August	303	210	249	15,300
September	280	188	213	12,700
The year	19,400	188	2,630	1,900,000

Smith River near Crescent City, Calif.

Location.- Water-stage recorder in SW¼ sec. 10, T. 16 N., R. 1 E., half a mile below mouth of South Fork and 9 miles east of Crescent City.

Drainage area.- 613 square miles.

Records available.- October 1931 to September 1934.

Extremes.- Maximum discharge during year, 33,100 second-feet Jan. 14 (gage height, 20.20 feet); minimum, 184 second-feet Sept. 19.
1931-34: Maximum discharge, 61,700 second-feet Mar. 18, 1932 (gage height, 26.45 feet); minimum, 168 second-feet Oct. 21, 1931.

Remarks.- Records excellent except those for Aug. 23 to Sept. 3, which were estimated. No diversions or regulation.

Discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	358	1,720	352	4,590	2,750	3,870	5,350	3,510	770	428	283	210
2	343	1,370	477	7,460	2,550	3,990	5,830	2,360	750	422	283	210
3	337	1,130	1,370	20,200	2,360	3,750	4,630	2,180	730	410	291	205
4	329	925	835	15,100	2,180	3,290	3,750	1,960	730	401	288	204
5	320	795	675	8,600	2,090	3,070	3,290	2,750	710	396	283	204
6	315	695	7,130	6,170	1,960	3,070	2,850	2,850	730	401	280	202
7	309	635	8,780	4,730	2,160	2,750	2,500	2,320	730	407	277	200
8	309	582	3,310	3,910	3,990	2,500	2,320	2,090	690	404	270	198
9	304	548	2,160	3,310	3,630	2,270	2,140	1,880	670	395	264	194
10	296	512	1,650	2,980	2,960	2,090	1,960	1,680	650	383	260	192
11	294	495	1,640	2,680	2,600	1,920	1,840	1,540	630	374	252	192
12	294	478	13,300	2,880	2,320	1,840	1,720	1,440	630	362	245	194
13	291	452	17,800	3,780	2,140	1,720	1,610	1,340	610	356	241	196
14	286	436	13,800	23,900	2,000	1,610	1,540	1,280	590	353	239	196
15	284	427	11,600	12,300	1,920	1,540	1,470	1,220	570	353	239	190
16	281	418	6,860	7,600	1,840	1,470	1,400	1,190	570	344	237	188
17	279	406	9,970	5,830	1,720	1,400	1,340	1,160	550	341	237	188
18	276	397	11,400	5,050	1,760	1,340	1,280	1,080	550	338	234	186
19	276	397	15,300	7,610	1,880	1,280	1,250	1,060	530	329	230	186
20	296	412	13,000	13,000	2,850	1,250	1,190	1,040	530	323	226	188
21	302	394	8,600	8,600	2,650	1,220	1,160	985	512	317	221	188
22	286	382	6,510	7,800	2,400	1,220	1,220	960	512	317	221	192
23	281	370	5,030	15,900	2,220	1,160	1,250	935	495	314	215	311
24	281	364	4,170	12,300	2,090	1,140	1,280	935	495	314	215	478
25	281	358	3,540	8,200	1,960	1,110	1,160	1,010	495	314	210	323
26	281	352	3,090	6,170	2,360	1,080	1,110	960	495	314	210	260
27	296	355	2,780	5,050	4,500	2,250	1,060	885	495	308	210	239
28	743	406	2,880	4,370	5,350	13,800	1,040	860	495	305	215	230
29	3,780	373	6,340	3,750		8,600	1,010	860	478	299	215	228
30	2,880	358	5,340	3,400		5,510	1,960	838	446	291	215	223
31	2,980		4,310	3,070		5,830		792		285	210	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,780	276	596	36,600
November	1,720	352	565	33,600
December	17,800	352	6,260	385,000
January	23,900	2,680	7,760	477,000
February	5,350	1,720	2,540	141,000
March	13,800	1,080	2,870	176,000
April	5,830	1,010	2,050	122,000
May	3,510	792	1,480	91,000
June	770	446	595	35,400
July	428	285	352	21,600
August	291	210	242	14,900
September	478	186	220	13,100
The year	23,900	186	2,140	1,550,000

Measurements of stream flow in the Pacific slope basins in California at points other than gaging stations for the year ending September 30, 1934, are listed in the following tables.

Streams south of San Francisco Bay

Tia Juana River at highway bridge near Nestor, Calif.

Dry during entire year.

San Diego River at El Capitan dam site, near Lakeside, Calif.

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
	Sec.-ft.		Sec.-ft.		Sec.-ft.		Sec.-ft.
Jan. 2	65	Feb. 23	14	Feb. 25	51	Feb. 28	7.9

San Vicente Creek near Foster, Calif.

(Tributary to San Diego River)

Dry during entire year.

Santa Ysabel Creek near Mesa Grande, Calif.

(Tributary to San Dieguito River)

Nov. 3	0.5	Dec. 16	4.8	Feb. 25	17	Mar. 27	4.2
Dec. 6	1.6	Jan. 4	6.4	Mar. 17	2.8		

San Luis Rey River at Sickler Mill, near Pala, Calif.

Oct. 6	3.0	Oct. 20	3.3	Nov. 3	4.1	Nov. 24	4.5
Oct. 13	3.4	Oct. 27	3.8				

Pala Indian Reservation Canal near Pala, Calif.

(Diverts from San Luis Rey River)

Oct. 6	2.4	Oct. 20	2.3	Nov. 3	2.8	Nov. 24	3.0
Oct. 13	2.6	Oct. 27	3.0				

Santa Ana River at highway crossing, near Pedley, Calif.

Mar. 2, 38 second-feet

Santa Ana River above heading of J ditch, near Norco, Calif.

Mar. 2, 38 second-feet

Santa Ana River at Pedley power house, near Norco, Calif.

Mar. 2, 42 second-feet

Santa Ana River 1 mile below Hamner Avenue Bridge, near Norco, Calif.

Mar. 2, 51 second-feet

Santa Ana River above Hamner Springs, near Norco, Calif.

Mar 2, 59 second-feet

Santa Ana River 1½ miles below Auburndale Bridge, near Corona, Calif.

Mar. 2, 80 second-feet

Santa Ana River at Rincon Bridge, near Prado, Calif.

Mar. 2, 90 second-feet

Santa Ana River below Chino Creek, near Prado, Calif.

Mar. 2, 102 second-feet

Santa Ana River at Atcheson, Topeka & Santa Fe Railway bridge near Prado, Calif.

Mar. 2, 100 second-feet

Santa Ana River at Yorba Bridge, near Yorba, Calif.

Jan. 1	3,262	Feb. 24	75	Mar. 2	55	Mar. 8	27
Jan. 2	450	Feb. 26	70	Mar. 5	36	Mar. 9	23
Jan. 23	43	Feb. 27	59	Mar. 6	31	Mar. 12	3.2
Jan. 25	42	Feb. 28	57	Mar. 7	24	Mar. 13	2.5
Jan. 27	38	Mar. 1	56				

Streams south of San Francisco Bay--Continued

Santa Ana River at spreading ground, three-quarters of a mile below Yorba Bridge, near Yorba, Calif.

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
	Sec.-ft.		Sec.-ft.		Sec.-ft.		Sec.-ft.
Jan. 15	41	Jan. 23	27	Mar. 2	34	Mar. 8	28
Jan. 16	39	Jan. 27	23	Mar. 5	28	Mar. 9	25
Jan. 17	37	Feb. 27	45	Mar. 6	27	Mar. 12	4.8
Jan. 18	45	Feb. 28	38	Mar. 7	24	Mar. 13	.3
Jan. 19	27	Mar. 1	43				

Santa Ana River at Richfield road, ¾ mile above Jefferson Street Bridge, near Yorba, Calif.

Dec. 31, 20.0 second-feet

Santa Ana River at Jefferson Street Bridge, near Atwood, Calif.

Feb. 26	13.3	Feb. 28	1.7	Mar. 1	2.1	Mar. 6	0.6
Feb. 27	.6						

Santa Ana River at Anaheim-Olive Bridge, near Olive, Calif.

Feb. 26, 5.0 second-feet

Waterman Canyon Creek at San Bernardino, Calif.

(Water Department gaging station near San Bernardino, Calif.)

Dec. 13	19	Dec. 31	94	Jan. 1	78	Jan. 2	13
Dec. 30	5.5	Dec. 31	94	Jan. 1	51	Jan. 9	2.7
Dec. 31	30	Dec. 31	96	Jan. 1	75	Feb. 23	48
Dec. 31	48	Jan. 1	83				

Lytle Creek (east channel) at junction with Warm Creek, near San Bernardino, Calif.

(Tributary to Warm Creek)

July 9, 0.5 second-foot

Cajon Creek at Ranger Station, near Keenbrook, Calif.

(Tributary to Lytle Creek)

Oct. 27, 0.6 second-foot
Jan. 5, 11 second-feet

Cajon Cienega at San Andreas fault line, near Keenbrook, Calif.

(Tributary to Cajon Creek)

Oct. 27, 0.6 second-foot
Jan. 5, 0.8 second-foot

J Ditch (diverts from Santa Ana River) at intake near Norco, Calif.

Mar. 2, dry

Hammer Springs near Norco, Calif.

(Tributary to Santa Ana River)

Mar. 2, 10.2 second-feet

Durkee Ditch (diverts from Santa Ana River) at Auburndale Bridge, near Corona, Calif.

Mar. 2, 0.5 second-foot

Upper diversion from Haines Creek at upper sand box, near Tujunga, Calif.

Oct. 12	0.01	Oct. 28	0.01	Dec. 11	0.01		

Lower diversion from Haines Creek at lower tunnel below gaging station, near Tujunga, Calif.

Oct. 12	0.05	Mar. 31	0.13	May 17	0.13	July 6	0.10
Oct. 28	.05	Apr. 10	.15	June 2	.12	July 12	.10
Dec. 11	.05	Apr. 18	.15	June 8	.12	July 21	.09
Jan. 25	.10	Apr. 26	.15	June 15	.11	Aug. 2	.08
Mar. 7	.15	May 11	.13	June 23	.11	Aug. 30	.07
Mar. 20	.13			June 27	.10	Sept. 13	.06

Streams south of San Francisco Bay--Continued

Fillmore Land & Water Co.'s diversion from Sespe Creek, near Sespe, Calif.

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
	Sec.-ft.		Sec.-ft.		Sec.-ft.		Sec.-ft.
Oct. 20	3.2	May 11	12.7	July 5	5.3	Aug. 26	3.2
Nov. 3	4.3	May 18	12.1	July 19	3.8	Sept. 9	3.0
Nov. 29	4.9	May 25	11.8	Aug. 1	3.3	Sept. 14	3.0
Apr. 19	12.9	June 6	7.8	Aug. 14	3.2	Sept. 25	4.1
May 4	14.4	June 27	7.6				

Fillmore Land & Water Co.'s waste ditch* near Sespe, Calif.

May 11	4.4	May 18	4.6	May 25	4.3	June 6	5.9

North Fork of Matilija Creek near Matilija, Calif.

Oct. 2	0.6	Aug. 1	0.4	Aug. 30	0.4	Sept. 21	0.4
Feb. 13	2.2						

Santa Ynez River just above junction with North Fork, Calif.

Oct. 26	0.2	Apr. 5	0.6	May 31	.12	July 5	0.03
Nov. 23	.1	May 2	†.25	June 6	.12	July 12	.01
Dec. 29	.1	May 9	.22	June 14	.11	July 20	.01
Feb. 1	.6	May 16	.19	June 20	.05	July 25	Dry
Mar. 1	1.6	May 22	.22	June 27	.03		

Santa Ynez River ½ mile above junction with Mono Creek, Calif.

Oct. 10	0	Oct. 25	0	Nov. 7	0	Dec. 5	0
Oct. 16	0	Oct. 31	0	Nov. 28	0		

Santa Ynez River ½ mile below junction with Mono Creek, Calif.

Dec. 19	1.2	May 10	1.1	June 14	1.2	Aug. 30	0
Dec. 27	.4	May 17	1.0	June 21	.5	Sept. 6	0
Apr. 19	5.7	May 24	.7	June 28	0	Sept.27	0
Apr. 26	3.8	May 31	.9	July 12	0		
May 3	2.9	June 7	3.8	Aug. 2	0		

Santa Ynez River at Paradise Camp, Calif.

Oct. 10	0	Oct. 31	0	Nov. 28	0	Dec. 19	0.2
Oct. 16	0	Nov. 7	0	Dec. 5	0	Dec. 27	.3
Oct. 25	0	Nov. 14	0	Dec. 12	.2		

Santa Ynez River at Buellton, Calif.

Oct. 9	0	Dec. 11	5	Feb. 3	10	Apr. 7	17
Oct. 14	0	Dec. 16	6.5	Feb. 10	14	Apr. 14	15
Oct. 21	0	Dec. 23	5	Feb. 17	19	Apr. 21	5
Oct. 28	0	Dec. 30	7	Feb. 24	817	Apr. 28	5
Nov. 4	0.9	Jan. 1	4,430	Mar. 3	109		
Nov. 11	1.0	Jan. 4	279	Mar. 10	48		
Nov. 25	1.3	Jan. 13	40	Mar. 17	37		
Dec. 2	1.6	Jan. 20	23	Mar. 31	22		
		Jan. 27	20				

Santa Ynez River at A Street Bridge, Lompoc, Calif.

Oct. 27	0	Feb. 2	21	Mar. 23	26	May 18	0
Nov. 24	0	Feb. 9	18	Mar. 30	23	June 1	0
Dec. 13	0	Feb. 16	25	Apr. 6	15	July 9	0
Dec. 28	0	Feb. 23	52	Apr. 13	7.7	July 30	0
Jan. 9	85	Mar. 2	177	Apr. 20	4.9	Aug. 13	0
Jan. 12	59	Mar. 9	63	Apr. 27	.4	Sept. 1	0
Jan. 19	34	Mar. 16	37	May 4	0	Sept. 25	0
Jan. 26	26						

*Waste into Sespe Creek above gaging station.

†After May 2 discharge determined by a weir.

Streams south of San Francisco Bay--Continued

Santa Ynez River at H Street Bridge, Lompoc, Calif.

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
	Sec.-ft.		Sec.-ft.		Sec.-ft.		Sec.-ft.
Oct. 27	0	Feb. 9	18	Mar. 23	28	May 4	0
Nov. 27	0	Feb. 16	24	Mar. 30	22	May 18	0
Dec. 28	0	Feb. 23	52	Apr. 6	15	June 1	0
Jan. 12	65	Mar. 2	137	Apr. 13	6.5	July 2	0
Jan. 19	37	Mar. 9	63	Apr. 20	2.6	Aug. 6	0
Jan. 26	30	Mar. 16	40	Apr. 27	.3	Sept. 25	0
Feb. 2	21						

Santa Ynez River at Pine Canyon Bridge, near Lompoc, Calif.

Oct. 5	0.3	Nov. 27	0.4	Jan. 12	63	Mar. 1	182
Oct. 9	.3	Dec. 6	.4	Jan. 15	44	Mar. 9	61
Oct. 13	.4	Dec. 11	.5	Jan. 19	36	Mar. 12	51
Oct. 16	.3	Dec. 15	.9	Jan. 26	29	Mar. 16	30
Oct. 23	.3	Dec. 18	.7	Jan. 30	25	Mar. 23	27
Oct. 30	.3	Dec. 22	.7	Feb. 2	25	Mar. 30	20
Nov. 6	.3	Dec. 26	.6	Feb. 9	20	Apr. 6	15
Nov. 10	.2	Jan. 2	3,450	Feb. 16	30	Apr. 13	9.2
Nov. 13	.3	Jan. 3	587	Feb. 23	37	Apr. 20	3.8
Nov. 17	.4	Jan. 9	148	Feb. 26	389	Apr. 27	1.1
Nov. 24	.3						

Santa Ynez River at Renwick Crossing, near Surf, Calif.

Oct. 5	0.3	Nov. 24	0.2	Jan. 19	43	Mar. 16	42
Oct. 13	.3	Dec. 1	.5	Jan. 26	33	Mar. 23	28
Oct. 21	.4	Dec. 6	.8	Feb. 2	24	Mar. 30	21
Oct. 27	.2	Dec. 15	2.1	Feb. 9	21	Apr. 6	15
Nov. 3	.2	Dec. 22	2.1	Feb. 16	31	Apr. 13	6.4
Nov. 7	.4	Dec. 28	1.8	Feb. 23	35	Apr. 20	2.8
Nov. 17	.7	Jan. 12	70	Mar. 9	71	Apr. 27	.8

Alder Creek at junction with Santa Ynez River, near Santa Barbara, Calif.

Oct. 26	0.1	May 9	0.32	June 27	0.22	Aug. 15	0.14
Nov. 23	.1	May 16	.28	July 5	.19	Aug. 22	.10
Dec. 29	.5	May 22	.28	July 12	.19	Aug. 29	.12
Feb. 1	.8	May 31	.26	July 20	.19	Sept. 5	.11
Mar. 1	2.5	June 6	.36	July 25	.16	Sept. 12	.12
Apr. 5	1.3	June 14	.26	Aug. 1	.14	Sept. 19	.12
May 2	*.36	June 20	.25	Aug. 7	.14	Sept. 26	.12

North Fork of Santa Ynez River at junction with Santa Ynez River, near Santa Barbara, Calif.

Oct. 26	0	May 2	†0.36	June 14	0.12	July 25	0.08
Nov. 23	0	May 9	.16	June 20	.19	Aug. 1	.06
Dec. 29	.2	May 16	.14	June 27	.14	Aug. 7	0
Feb. 1	.4	May 22	.10	July 5	.09	Aug. 22	0
Mar. 1	.6	May 31	.08	July 12	.04	Sept. 6	0
Apr. 5	.5	June 6	.66	July 20	.04	Sept. 26	0

Camuesa Creek at junction with Santa Ynez River, near Santa Barbara, Calif.

Oct. 10	0	Apr. 26	0.2	May 31	0.1	July 5	0.02
Nov. 7	0	May 3	.2	June 7	.1	Aug. 2	0
Dec. 7	0	May 10	.2	June 14	.1	Sept. 6	0
Dec. 27	0	May 17	.1	June 21	.1	Sept. 27	0
Apr. 19	.3	May 24	.1	June 28	.1		

Gidney Creek at junction with Santa Ynez River, near Santa Barbara, Calif.

Oct. 10	0	Apr. 19	0.2	May 10	0	Aug. 2	0
Nov. 7	0	Apr. 26	.1	June 7	0	Sept. 6	0
Dec. 5	0	May 3	.2	July 5	0	Sept. 27	0
Dec. 27	0						

*Weir measurement.

†Weir measurements after May 2.

Streams south of San Francisco Bay—Continued

Hot Springs Creek at junction with Santa Ynez River, near Santa Barbara, Calif.

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
	Sec.-ft.		Sec.-ft.		Sec.-ft.		Sec.-ft.
Oct. 10	0.3	Nov. 28	0.4	Jan. 13	0.9	Mar. 13	0.5
Oct. 16	.3	Dec. 5	.4	Jan. 18	.8	Mar. 20	.4
Oct. 25	.3	Dec. 12	.9	Jan. 31	.6	Mar. 27	.4
Oct. 31	.4	Dec. 19	.7	Feb. 13	.5	Apr. 3	.4
Nov. 7	.4	Dec. 26	1.0	Mar. 3	.7	Apr. 10	.3
Nov. 14	.4	Jan. 5	1.1	Mar. 6	.6	Apr. 19	.3

Santa Agueda Creek at junction with Santa Ynez River, near Santa Ynez, Calif.

Oct. 9	0	Jan. 3	0	Mar. 3	0	July 7	0
Nov. 4	0	Feb. 3	0	Apr. 7	0	Aug. 4	0
Dec. 2	0	Feb. 17	0	May 5	0	Sept. 1	0
Dec. 30	0	Feb. 24	24	June 1	0	Sept. 28	0

Santa Cota Creek at junction with Santa Ynez River, near Santa Ynez, Calif.

Oct. 9	2.9	Dec. 1	5.3	Jan. 27	4.2	Mar. 24	2.9
Oct. 14	3.7	Dec. 9	4.6	Feb. 3	4.1	Mar. 31	4.1
Oct. 21	3.0	Dec. 16	3.3	Feb. 10	3.4	Apr. 7	3.2
Oct. 28	2.2	Dec. 23	2.7	Feb. 17	3.4	Apr. 14	3.1
Nov. 4	2.1	Dec. 30	3.1	Feb. 24	5.4	Apr. 21	1.2
Nov. 11	2.1	Jan. 3	4.5	Mar. 3	4.4	Apr. 28	1.3
Nov. 18	3.6	Jan. 13	3.6	Mar. 10	3.5	May 26	4.0
Nov. 25	3.4	Jan. 20	4.4	Mar. 17	3.5		

Alamo Pintado Creek 1.1 miles above junction with Santa Ynez River, near Solvang, Calif.

Oct. 9	0.2	Dec. 2	0.2	Jan. 20	0.2	Mar. 10	0.2
Oct. 14	.2	Dec. 9	.2	Jan. 27	.2	Mar. 17	.2
Oct. 21	.2	Dec. 16	.2	Feb. 3	.2	Mar. 31	.2
Oct. 28	.2	Dec. 23	.2	Feb. 10	.2	Apr. 7	.2
Nov. 4	.2	Dec. 30	.2	Feb. 17	.2	Apr. 14	.2
Nov. 11	.2	Jan. 3	.3	Feb. 24	4.2	Apr. 21	.2
Nov. 18	.2	Jan. 13	.2	Mar. 3	.3	Apr. 28	.2
Nov. 25	.2						

Alisal Creek at junction with Santa Ynez River, near Solvang, Calif.

Oct. 9	0	Jan. 27	0	Mar. 17	1.1	May 5	0
Nov. 4	0	Feb. 3	0	Mar. 24	.5	May 19	0
Dec. 2	0	Feb. 10	0	Mar. 31	.4	June 1	0
Dec. 30	0	Feb. 17	0	Apr. 7	.2	July 7	0
Jan. 3	2.3	Feb. 24	35	Apr. 14	.1	Aug. 4	0
Jan. 13	0	Mar. 3	4.6	Apr. 21	.2	Sept. 1	0
Jan. 20	0	Mar. 10	1.4	Apr. 28	.1	Sept. 28	0

Nojoqui Creek 0.6 mile above junction with Santa Ynez River, near Buellton, Calif.

Oct. 9	0	Feb. 10	0	Mar. 10	0	July 7	0
Nov. 4	0	Feb. 17	0	Apr. 7	0	Aug. 4	0
Dec. 2	0	Feb. 24	11	May 5	0	Sept. 1	0
Jan. 4	0	Mar. 3	0	June 1	0	Sept. 28	0
Feb. 3	0						

Santa Rosa Creek at junction with Santa Ynez River, near Buellton, Calif.

Oct. 23	0.1	Dec. 14	5.2	Jan. 15	0.3	Mar. 12	0.3
Nov. 12	.1	Dec. 26	.4	Feb. 9	.3	Mar. 26	.3
Nov. 27	.1	Jan. 2	.6	Feb. 26	.3		

Salsipuedes Creek 0.9 mile above junction with Santa Ynez River, near Lompoc, Calif.

Oct. 5	0.1	Dec. 1	0.3	Jan. 19	0.8	Mar. 9	2.0
Oct. 13	.3	Dec. 8	.3	Jan. 26	.7	Mar. 16	1.7
Oct. 21	.3	Dec. 13	13	Feb. 2	.8	Mar. 23	1.3
Oct. 27	.3	Dec. 15	1.6	Feb. 9	.8	Mar. 30	1.1
Nov. 3	.2	Dec. 22	.4	Feb. 16	3.1	Apr. 6	.8
Nov. 10	.2	Dec. 28	.4	Feb. 23	15	Apr. 13	.7
Nov. 17	.3	Jan. 4	1.2	Feb. 26	77	Apr. 20	.4
Nov. 24	.2	Jan. 12	.8	Mar. 2	5.7	Apr. 27	.4

Streams south of San Francisco Bay--Continued

Alamo Creek at junction with Cuyama River, near Santa Maria, Calif.

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
	Sec.-ft.		Sec.-ft.		Sec.-ft.		Sec.-ft.
Dec. 22	2.2	Feb. 24	1.8	May 11	0.8	Aug. 29	1.0
Jan. 1	2.9	Mar. 28	1.2				

San Joaquin River Basin

North Fork of Big Creek above Florence Lake Tunnel outlet, Calif.

(Tributary to Big Creek, a tributary to San Joaquin River)

Dec. 8, 1.0 second-foot
Jan. 31, 2.2 second-feet

Sand Creek above Florence Lake Tunnel outlet, Calif.

(Tributary to Big Creek)

Dec. 8, 0.4 second-foot
Jan. 31, 1.1 second-feet

Pitman Creek at Southern California Edison Co.'s gaging station at Big Creek, Calif.

(Tributary to Big Creek)

Oct. 11	0.3	Jan. 11	0.6	Apr. 12	0.6	July 13	0.06
Nov. 14	.1	Feb. 9	.4	May 11	.4	Aug. 10	.05
Dec. 5	.3	Mar. 6	.9	June 14	.2	Sept. 7	.04

Stevenson Creek at gagingstation at Shaver, Calif.

(Tributary to San Joaquin River)

Oct. 11	0.1	Jan. 5	0.5	Apr. 5	0.2	July 6	0.04
Nov. 6	.1	Feb. 5	.2	May 2	.2	Aug. 6	.03
Dec. 4	.07	Mar. 2	.6	June 5	.2	Sept.3	.04

Cherry Canal near Early intake, near Mather, Calif.

(Diverts from Cherry Creek)

Aug. 20, 123 second-feet

Mokelumne River at former gaging station near Thornton, Calif.

June 19, 12.6 second-feet

Streams north of San Francisco Bay

Bluff Creek half a mile above mouth, near Orleans, Calif.

(Tributary to Klamath River)

Sept. 1, 37.3 second-feet

Spencer Creek at former gaging station near mouth, 5 miles northwest of Keno, Oreg.

(Tributary to Klamath River)

May 17, 5.0 second-feet

Spring Creek below canal at mouth, near Chiloquin, Oreg.

(Tributary to Williamson River)

May 28, 267 second-feet

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