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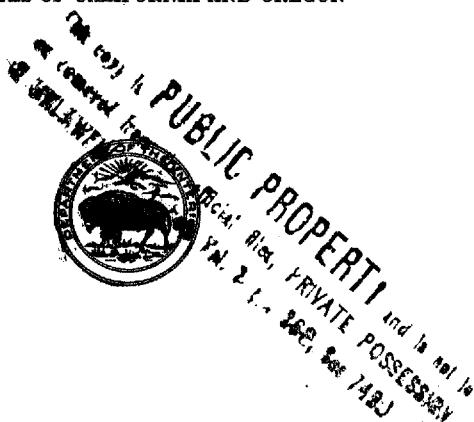
SURFACE WATER SUPPLY *of the* UNITED STATES 1927

PART XI PACIFIC SLOPE BASINS IN CALIFORNIA

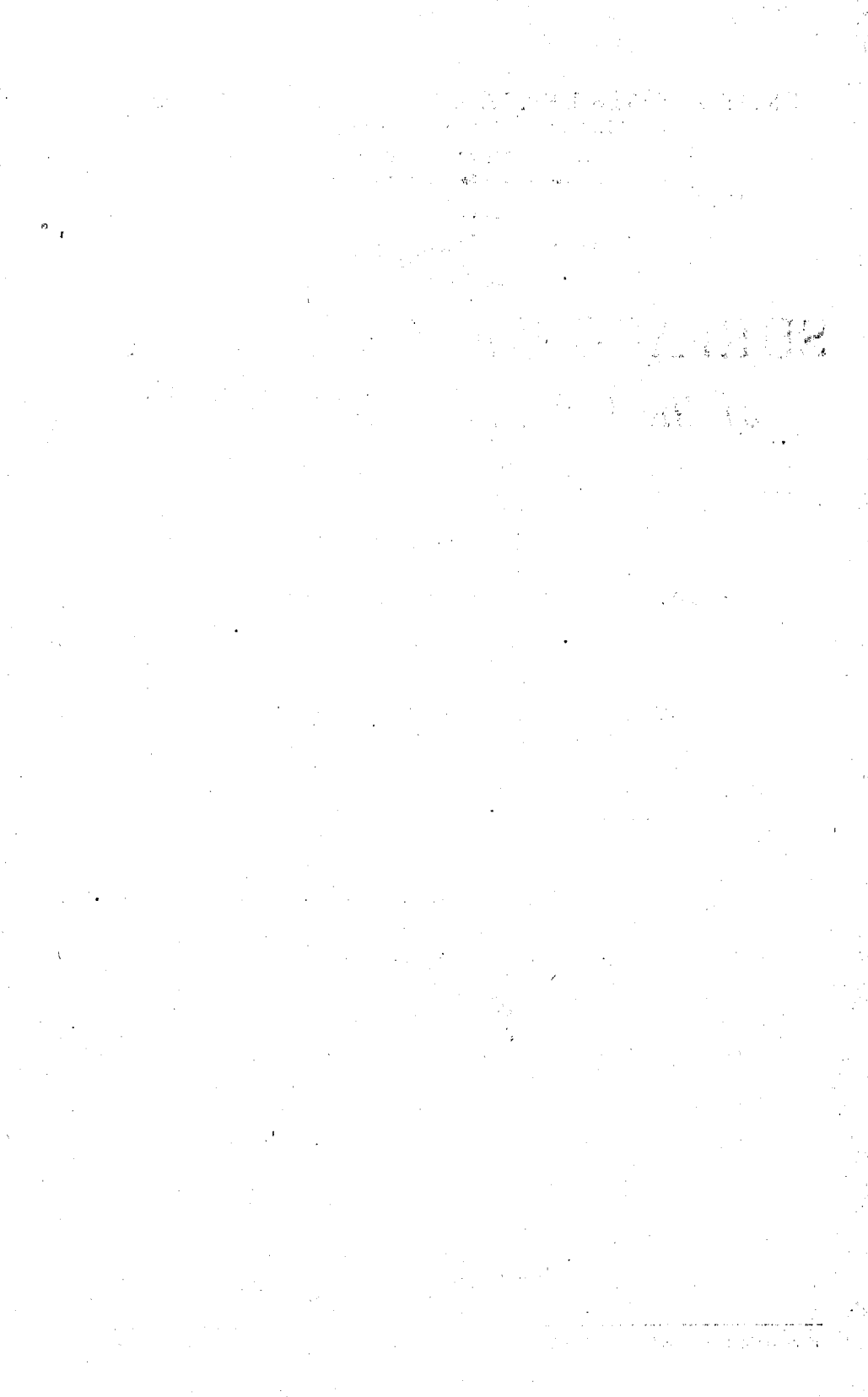
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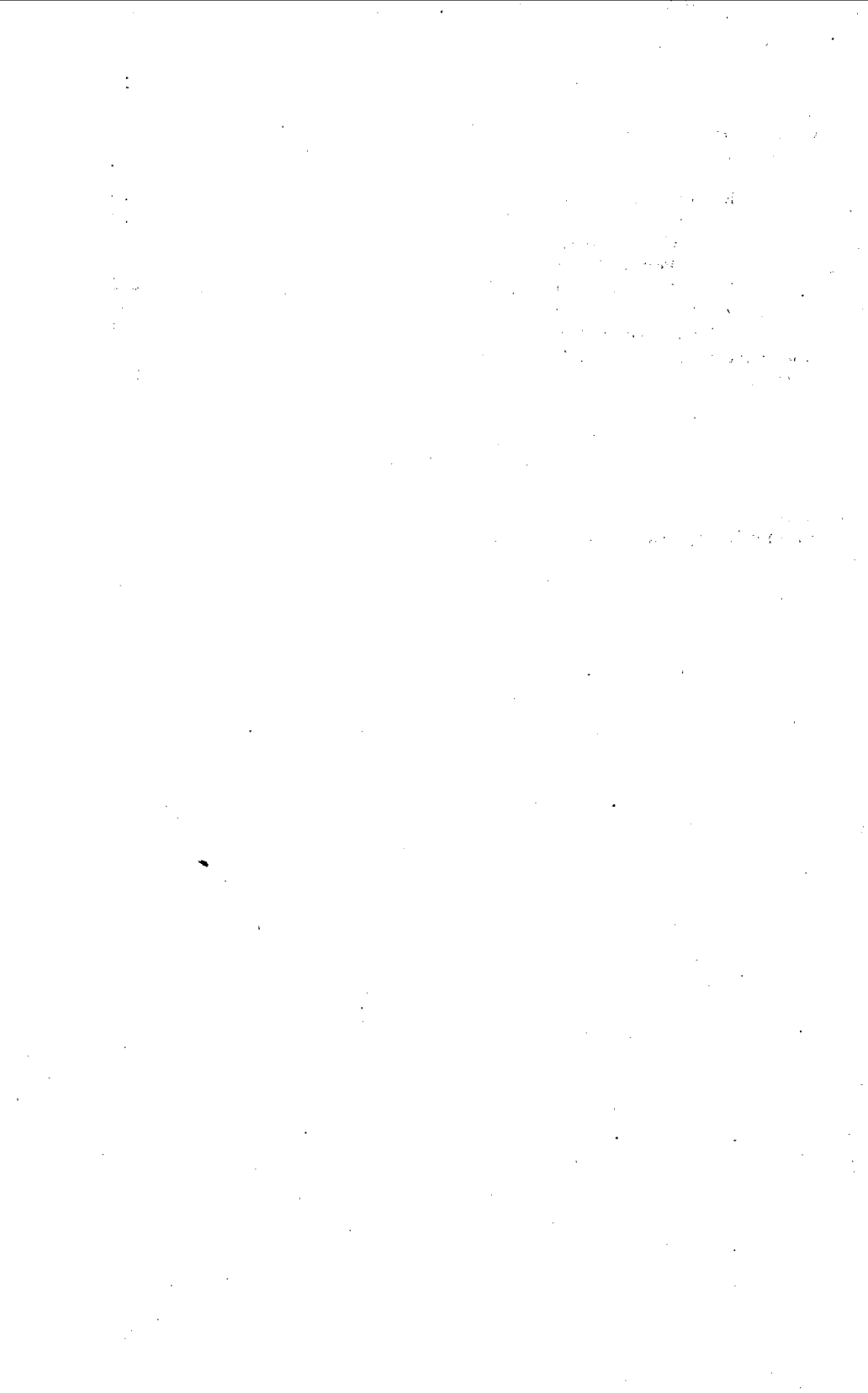
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SURFACE WATER SUPPLY OF PACIFIC SLOPE BASINS IN CALIFORNIA, 1927

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, 1927.

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, 1895-1928

1895.....	\$12,500.00	1918.....	\$175,000.00
1896.....	24,500.00	1919.....	148,244.16
1897-1899.....	50,000.00	1920.....	175,000.00
1900.....	70,000.00	1921-1923.....	180,000.00
1901-2.....	100,000.00	1924-25.....	170,000.00
1903-1906.....	200,000.00	1926.....	165,000.00
1907.....	150,000.00	1927.....	151,666.66
1908-1910.....	100,000.00	1928.....	147,000.00
1911-1917.....	150,000.00		

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 pages 9 and 10.

Measurements of stream flow have been made at about 5,380 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July, 1927, 1,750 gaging stations were being maintained by the Geological Survey and the cooperating organizations. 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, 1926, and ending September 30, 1927. At the beginning of January in most parts of the United States much of the precipitation in the preceding three 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 precipitation within that year.

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 obtained are either from direct readings on a staff gage, chain 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 measurements of

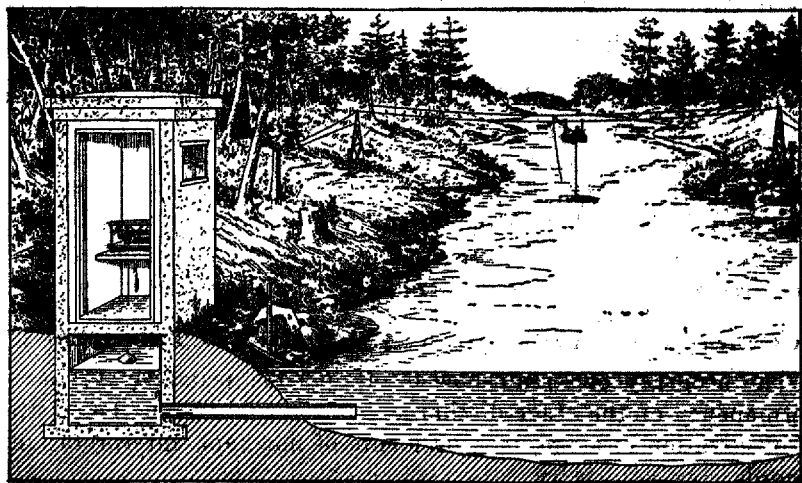


FIGURE 1.—Typical gaging station

river discharge. A typical gaging station, equipped with water-stage recorder and measuring cable and car, is shown in Figure 1.

From the discharge measurements rating tables are prepared that give the discharge for any stage. The application of the daily gage height 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 comprise a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly discharge and run-off.

The description of the station gives, in addition to statements regarding location and type of gage, information as to diversions that decrease the flow at the gage, artificial regulation, maximum and minimum recorded stages, and the accuracy of the records. The maximum discharge given under "Extremes" does not represent the

crest discharge unless a water-stage recorder was in operation or unless a nonrecording gage was read at the time of the crest.

The table of daily discharge gives, in general, the discharge in second-feet corresponding to the daily gage height which may be a once daily reading or the mean of twice daily readings of a nonrecording gage, or the mean daily gage height obtained from a water-stage recorder graph.

At stations on streams subject to sudden or rapid diurnal fluctuation the discharge obtained from the rating table and the mean daily gage height may not be the true mean discharge for the day. If such stations are equipped with water-stage recorders, the mean daily discharge may be obtained by averaging discharge at regular intervals during the day or by using the discharge integrator, an instrument for obtaining 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. On this average flow are based computations recorded in the remaining columns, which are defined on page 2.

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 the records. "Excellent" indicates that records are accurate within 5 per cent; "good," within 10 per cent; "fair," within 15 per cent; and "poor," 20 per cent 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.

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.

Many gaging stations on streams in the irrigated areas of the United States are located 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.

PUBLICATIONS

Investigations 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 investigations of such closely allied subjects as irrigation, water storage, water powers, 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 I. North Atlantic slope basins (St. John to York River).

II. South Atlantic slope and eastern Gulf of Mexico basins (James River to the Mississippi).

III. Ohio River Basin.

IV. St. Lawrence River Basin.

V. Upper Mississippi River and Hudson Bay Basins.

VI. Missouri River Basin.

VII. Lower Mississippi River Basin.

VIII. Western Gulf of Mexico basins.

IX. Colorado River Basin.

X. The Great Basin.

XI. Pacific slope basins in California.

XII. North Pacific slope basins, in three volumes:

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 in 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, Me., Statehouse.
 Boston, Mass., 2500 Customhouse.
 Hartford, Conn., 60 Washington Street.
 Albany, N. Y., 506 Broadway-Arcade Building.
 Trenton, N. J., 710 Trenton Trust Building.
 Charlottesville, Va., Brooks Museum, University of Virginia.
 South Charleston, W. Va., Naval Ordnance Plant.
 Asheville, N. C., 210 Post Office Building.
 Columbia, S. C., 801 National Loan & Exchange Bank Building.
 Ocala, Fla., Post Office Building.
 Chattanooga, Tenn., 630 Power Building.
 Tuscaloosa, Ala., Post Office Building.
 Columbus, Ohio, Engineering Experiment Station, Ohio State University.
 Indianapolis, Ind., 319 Federal Building.
 Lansing, Mich., M9 State Office Building.
 Chicago, Ill., 1503 Consumers Building.
 Madison, Wis., 337N State Capitol.
 St. Paul, Minn., 202 Old State Capitol.
 Topeka, Kans., 23 Federal Building.
 Rolla, Mo., Rolla Building, School of Mines and Metallurgy.
 Fort Smith, Ark., Post Office Building.
 Austin, Tex., State Capitol.
 Tucson, Ariz., 210 Post Office Building.
 Denver, Colo., 403 Post Office Building.
 Salt Lake City, Utah, 313 Federal Building.
 Idaho Falls, Idaho, 228 Federal Building.
 Boise, Idaho, Federal Building.
 Helena, Mont., 416 Power Block.
 Tacoma, Wash., 406 Federal Building.
 Portland, Oreg., 606 Post Office Building.
 San Francisco, Calif., 303 Customhouse.
 Los Angeles, Calif., 751 South Figueroa Street, room 510.
 Honolulu, Hawaii, Territorial Office Building.

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

Stream-flow records have been obtained at about 5,330 points in the United States, and the data obtained have been published in the reports tabulated below.

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.....	Mean discharge in second-feet.....	1884 to Dec. 31, 1892.
14th A, pt. 2.....	Monthly discharge (long-time records, 1871 to 1893).....	1888 to Dec. 31, 1893.
B131.....	Descriptions, measurements, gage heights, and ratings.....	1893 and 1894.
16th A, pt. 2.....	Descriptive information only.....	

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

Report	Character of data	Year
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 and 1896.
W 15.....	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas.	1897.
W 16.....	Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte, and western United States.	1897.
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.	1908
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).	1908.
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.

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 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 1927. The data for any particular station will 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 III 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, 1899-1927

[For basins included see p. 5]

Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII-A	XII-B	XII-C
1899	35	35, 36	36	36	36	36, 37	37	37	37, 38	38, 39	38, 39	38	38	38
1900	47, 48	48	48, 49	49	49	49, 50	50	50	50	51	51	51	51	51
1901	65, 75	65, 75	65, 75	65, 75	65, 75	65, 75	65, 75	65, 75	65, 75	65, 75	65, 75	65, 75	65, 75	65, 75
1902	82	82, 83	83	82, 83	82, 83	82, 83	83, 84	84	85	85	85	85	85	85
1903	97	97, 98	98	97	98, 99, 100	99	98, 99	99	100	100	100	100	100	100
1904	124, 125	126, 127	128	129	128, 130	130, 131	128, 131	132	133	133, 134	134	135	135	135
1905	165, 166	167, 168	169	170	171	172	169, 173	174	175, 177	176, 177	177	178	178	177, 178
1906	201, 202	203, 204	205	206	207	208	205, 209	210	211, 213	212, 213	213	214	214	214
1907-8	241	242	243	244	245	246	247	248	249	250, 251	251	252	252	252
1909	261	262	263	264	265	266	267	268	269	270, 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

* Rating tables and index to Water-Supply Papers 35-39 contained in Water-Supply Paper 39. Tables of monthly discharge for 1899 in Twenty-first Annual Report, Part IV.

† James River only.

‡ Gallatin River.

§ Green and Gunnison Rivers and Grand River above junction with Gunnison.

|| Mohave River only.

¶ Kings and Kern Rivers and south Pacific slope basins.

* 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. Tables of monthly discharge for 1900 in Twenty-second Annual Report, Part IV.

† Wissahickon and Schuylkill Rivers to James River.

‡ Scioto River.

§ Loup and Platte Rivers near Columbus, Nebr., and all tributaries below junction with Platte.

|| Tributaries of Mississippi from east.

¶ Lake Ontario and tributaries to St. Lawrence River proper.

§ Hudson Bay only.

|| New England rivers only.

¶ Hudson River to Delaware River, inclusive.

* Susquehanna River to York River, inclusive.

† Platte and Kansas Rivers.

‡ Great Basin in California except Truckee and Carson River Basins.

§ Below junction with Gila.

|| Rogue, Umpqua, and Siletz Rivers only.

COOPERATION

Investigation of the water resources of California is being carried on by the United States Geological Survey in cooperation with the State in accordance with acts of the State legislature, approved March 16, 1903, March 20, 1905, March 11, 1907, and April 22, 1909, empowering the State authorities to enter into contracts with the Director of the United States Geological Survey for the purpose of making topographic maps, gaging streams, and surveying reservoir sites and canal locations for the conservation and utilization of the flood and storm waters of the State. The work for the year 1927 was continued in accordance with the usual agreement, through Paul Bailey, director of public works and State engineer. Additional funds were provided by the division of engineering and irrigation to maintain certain stations in the lower Sacramento and San Joaquin River Basins during the irrigating season. Additional funds for the maintenance of river-measurement stations were provided by a special act of the State legislature, chapter 190, statutes of 1925, and disbursed by the division of water rights, Department of Public Works of the State of California, through Edward Hyatt, jr., chief of the division.

The entire expense of the stream-flow investigations in the Tuolumne River Basin for the Hetch Hetchy project is paid by the city and county of San Francisco, through M. M. O'Shaughnessy, city engineer.

All stations in Los Angeles County are maintained in cooperation with the board of supervisors and the Department of Agriculture, represented by the Forest Service through F. E. Bonner, district engineer, and the Weather Bureau through H. B. Hersey, meteorologist. The Forest Service pays the salary and expenses of one hydrographer detailed for field work. The Geological Survey supervises the work and compiles all stream-flow data for publication.

The stations in the Santa Ana River Basin are maintained in cooperation with San Bernardino, Riverside, and Orange Counties through their boards of supervisors. Cooperation is also furnished by the Weather Bureau in maintaining precipitation stations.

Assistance in the maintenance of river-measurement stations was furnished by the Southern California Edison Co., San Joaquin Light & Power Corporation, Pacific Gas & Electric Co., Byllesby Engineering & Management Corporation, Snow Mountain Water & Power Co., Merced Irrigation District, Yosemite Power Co., Southern Sierras Power Co., and East Bay Municipal Utility District.

Many complete records of run-off, gage-height records, and discharge measurements are furnished by various Federal bureaus, private companies, and individuals who are interested in the water

resources of California. This cooperation is acknowledged and explained in the descriptions that precede the records.

The work in Oregon was carried on under a cooperative agreement with the State through Rhea Luper, State engineer. Financial cooperation was furnished by the United States Bureau of Reclamation, the California Oregon Power Co., Fort Klamath Meadows Co., and Jackson County.

DIVISION OF WORK

The data for stations in California were collected and prepared for publication under the direction of H. D. McGlashan, district engineer, assisted by F. C. Ebert, William Kessler, R. C. Briggs, Charles Leidl, C. J. Emerson, Jarrett Oliver, Jesse Arnold, B. S. Barnes, G. H. Taylor, A. C. Swanson, and H. J. Tompkins.

The data for stations in Oregon and for stations on Klamath⁵ River and Jenny Creek near Copco, Calif., were collected and prepared for publication under the direction of F. F. Henshaw and G. H. Canfield, district engineers, assisted by K. N. Phillips, and by H. K. Smith, hydrographer of the United States Bureau of Reclamation. Data for stations in Goose Lake Basin and for Long Creek, near Silver Lake, were collected and computed under the supervision of Rhea Luper, State engineer, and reviewed, checked, and prepared for publication by F. F. Henshaw and G. H. Canfield, district engineers, assisted by K. N. Phillips.

The records were reviewed and the manuscript assembled by Warren Withee.

GAGING-STATION RECORDS

SWEETWATER RIVER BASIN

SWEETWATER RIVER NEAR DESCANSO, CALIF.

LOCATION.—Staff gage in SE. $\frac{1}{4}$ sec. 25, T. 15 S., R. 3 E., 2 miles below mouth of Guatay Creek and $1\frac{1}{2}$ miles below Descanso.

DRAINAGE AREA.—43.7 square miles.

RECORDS AVAILABLE.—November, 1905, to June, 1927. Discontinued.

EXTREMES.—Maximum discharge during year, about 11,200 second-feet February 16, determined by slope-area method (gage height, 13.2 feet); minimum, 0.2 second-foot October 1-23 (gage height, 1.41 feet).

1905-1927: Maximum discharge, that of February 16, 1927; stream dry during part of the years 1910, 1911, 1913, 1916, and 1925.

REMARKS.—Records good. About 0.5 second-foot is diverted above gage for irrigation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	0.2	0.5	0.6	8.5	6	-----	72	28	16
2	.2	.6	.6	8.5	6	-----	63	28	16
3	.2	.6	2.0	8	5.5	-----	60	26	16
4	.2	.6	1.1	8	6.5	185	58	26	15
5	.2	.6	.8	8	7.5	174	58	26	14
6	.2	.6	1.3	7.5	6.5	143	54	30	14
7	.2	.5	2.8	7.5	6	135	46	60	15
8	.2	.5	1.2	7.5	6	127	45	45	15
9	.2	.5	158	7.5	5.5	185	42	28	16
10	.2	.5	306	7.5	6.5	174	49	26	15
11	.2	.6	.64	13	18	153	67	24	13
12	.2	.6	43	15	17	139	57	23	11
13	.2	.6	28	14	52	133	78	22	11
14	.2	.4	16	12	154	107	74	21	10
15	.2	.4	12	10	-----	108	67	35	10
16	.2	.4	12	7.5	-----	93	65	20	10
17	.2	.4	10	8.5	-----	93	63	19	9.5
18	.2	.4	8.5	9	-----	82	59	16	10
19	.2	.4	12	9.5	-----	72	58	16	9.5
20	.2	.4	12	9.5	-----	69	52	16	9.5
21	.2	.4	12	18	135	63	48	16	9
22	.2	.4	13	13	-----	67	46	16	9.5
23	.2	.4	12	10	-----	58	38	16	8
24	.3	.4	12	10	-----	52	36	16	8
25	.3	.6	12	9.5	-----	49	34	16	-----
26	.4	.4	12	9	99	43	33	16	-----
27	.4	.4	8.5	8	81	45	31	16	-----
28	.4	.4	8	7.5	57	44	31	16	-----
29	.4	.4	8	7	-----	60	30	16	-----
30	.4	.5	8.5	6.5	-----	93	28	17	-----
31	.4	-----	8.5	6.5	-----	90	-----	16	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.4	0.2	0.25	15.4
November	.6	.4	.48	28.6
December	306	.6	26.0	1,600
January	18	6.5	9.40	578
March 1-31	135	43	101	5,610
April	78	28	51.4	3,060
May	60	16	23.0	1,410
June 1-24	16	8	12.1	576

SAN DIEGO RIVER BASIN

SAN DIEGO RIVER NEAR SANTEE, CALIF.

LOCATION.—Water-stage recorder at head of Mission Gorge, near western boundary of El Cajon grant, 6 miles west of Santee, San Diego County.

DRAINAGE AREA.—375 square miles at old Mission Dam, $1\frac{1}{4}$ miles upstream.

RECORDS AVAILABLE.—May, 1912, to September, 1927 (incomplete).

EXTREMES.—Maximum discharge during year, about 34,300 second-feet February 16, determined by slope-area method (gage height, 18.1 feet); practically no flow October 1 to December 8 and June 25 to September 30.

1912-1927: Maximum discharge, 70,200 second-feet January 27, 1916 (gage height, 25.1 feet); stream practically dry for several months each year except for a small amount of ground water being forced to surface.

REMARKS.—Records good except for estimated period February 14 to March 11, for which they are fair. Diversions for irrigation above station. Gage-height record and results of several discharge measurements furnished by La Mesa, Lemon Grove, and Spring Valley Irrigation District.

Daily and monthly discharge, in second-feet, 1926-27

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1.....	0	0.4	0.3	255	279	81	11
2.....	0	.4	.3	220	224	79	11
3.....	.7	.4	.3	220	189	75	14
4.....	1.6	.6	.4	1,820	183	73	17
5.....	1.0	.4	.4	1,450	162	75	17
6.....	.8	.4	.3	990	153	71	17
7.....	1.4	.4	.3	800	142	98	10
8.....	1.4	.4	.2	635	134	193	10
9.....	2.6	.4	.2	600	131	136	9
10.....	257	.4	.3	890	131	106	14
11.....	27	.6	2.6	600	331	91	28
12.....	5.0	.4	3.0	532	340	75	26
13.....	3.0	.4	4.3	494	287	64	23
14.....	1.9	.3	1,230	513	295	49	10
15.....	1.6	.3	4,910	494	308	54	6
16.....	1.4	.3	19,400	458	300	51	3.2
17.....	1.3	.6	7,820	338	217	40	4.0
18.....	1.4	.4	3,810	313	168	38	5.5
19.....	1.6	.1	2,080	286	153	38	2.5
20.....	1.3	.1	1,450	275	136	38	2.3
21.....	1.6	.7	1,100	255	131	40	1.6
22.....	3.6	.4	890	238	123	40	1.0
23.....	2.6	.3	715	220	116	38	.4
24.....	2.6	.3	565	206	106	37	.4
25.....	1.6	.3	500	193	98	30	0
26.....	1.6	.3	390	183	93	24	0
27.....	1.4	.3	340	193	89	27	0
28.....	1.1	.3	295	168	84	32	0
29.....	.8	.3		171	86	34	0
30.....	.7	.3		420	81	27	0
31.....	.6	.3		395		18	
Month	Maximum	Minimum	Mean	Run-off in acre-feet			
December.....	257	0	10.7	668			
January.....	7	.1	.37	22.3			
February.....	19,400	.2	1,590	88,300			
March.....	1,820	168	478	20,400			
April.....	340	81	175	10,400			
May.....	193	18	60.4	3,710			
June.....	26	0	7.96	474			
The year.....	19,400	0	184	133,000			

NOTE.—No flow in months omitted.

SAN DIEGUITO RIVER BASIN

SANTA YSABEL CREEK NEAR MESA GRANDE, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ sec. 21, T. 12 S., R. 2 E., at Sutherland dam site, 1 mile below Sutherland, $1\frac{1}{2}$ miles above Black Canyon Creek, and $4\frac{1}{2}$ miles southwest of Mesa Grande.

DRAINAGE AREA.—53.4 square miles.

RECORDS AVAILABLE.—December, 1912, to September, 1927.

EXTREMES.—No information for this year.

1912-1924: Maximum discharge, 21,100 second-feet January 27, 1916 (gage height, 11.0 feet); stream dry October 1-2, 1913; August 12-29, September 6-13, 1914; July 6-14 and July 23 to September 30, 1921; and July 1 to September 30, 1924.

REMARKS.—Monthly run-off in acre-feet furnished by San Diego County Water Co. and Water Department of city of San Diego.

Monthly run-off, 1926-27

Month	Run-off in acre- feet	Month	Run-off in acre- feet	Month	Run-off in acre- feet
October.....	25	March.....	8,200	August.....	147
November.....	114	April.....	3,680	September.....	207
December.....	2,070	May.....	2,050	The year.....	49,500
January.....	886	June.....	1,140		
February.....	30,800	July.....	248		

SURFACE WATER SUPPLY, 1927, PART XI.

SAN DIEGUITO RIVER AT LAKE HODGES, CALIF.¹

LOCATION.—In NW. $\frac{1}{4}$ sec. 18, T. 13 S., R. 2 W., at Lake Hodges Dam, $5\frac{1}{2}$ miles southwest of Escondido.

DRAINAGE AREA.—299 square miles.

RECORDS AVAILABLE.—January, 1916, to September, 1927.

REMARKS.—Diversions for irrigation 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. Following table, furnished by city of San Diego, gives monthly storage in reservoir and other data from which inflow is computed.

Inflow of San Dieguito River to Lake Hodges, Calif., 1925-26 and 1926-27

	Storage in acre-feet		Decrease during month (acre-feet)			Inflow in acre-feet
	End of month	Increase or decrease	Draft	Net evaporation *	Leakage or spill	
1925-26						
September.....						71
October.....						29
November.....	21,886					45
December.....	21,478	-368	319	-84	4	0
January.....	20,966	-508	352	-62	4	0
February.....	23,368	+2,373	243	+121	3	2,499
March.....	22,949	-389	419	-298	3	381
April.....	40,025	+17,146	64	+405	13,334	30,139
May.....	39,375	-720	714	-652	501	1,147
June.....	38,070	-1,305	665	-707	10	0
July.....	36,551	-1,519	641	-878	6	5
August.....	35,324	-1,227	507	-799	4	83
September.....	34,062	-1,262	596	-641	3	0
The year.....						34,348
1926-27						
September.....	34,062					0
October.....	32,949	-1,113	526	-485	4	0
November.....	32,242	-707	498	-146	3	0
December.....	33,680	+1,438	246	+478	4	1,210
January.....	34,290	+580	249	-32	3	864
February.....	38,065	+3,805	199	+912	123,540	126,630
March.....	38,260	+195	0	+60	15,032	15,187
April.....	39,450	+1,190	0	-349	6,657	8,196
May.....	39,170	-280	900	-573	2,593	3,801
June.....	38,700	-470	592	-678	31	831
July.....	37,031	-1,669	710	-833	22	0
August.....	35,420	-1,611	789	-809	4	0
September.....	33,926	-1,494	776	-620	4	0
The year.....						156,609

* Net evaporation equals gross evaporation minus rainfall.

NOTE.—Inflow equals increase or decrease in storage, plus draft, net evaporation, and leakage.

¹ Published as "San Dieguito River near San Bernardo, Calif.," 1916-1920, and as "San Dieguito River near Escondido, Calif.," 1921-1923.

SAN LUIS REY RIVER BASIN

SAN LUIS REY RIVER AT LAKE HENSHAW, NEAR MESA GRANDE, CALIF.

LOCATION.—In NW. $\frac{1}{4}$ 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, 1927.

REMARKS.—No diversions above station. Lake Henshaw Reservoir was completed in 1923, and the gaging station formerly maintained 1 mile below the dam was abandoned. The following table gives the inflow of San Luis Rey River to Lake Henshaw as computed from storage data on the lake. Complete record except inflow furnished by San Diego County Water Co.

Inflow of San Luis Rey River to Lake Henshaw, near Mesa Grande, Calif., 1926-27

	Storage in acre-feet		Decrease during month (acre-feet)		Inflow in acre-feet ^b
	End of month	Increase or decrease	Draft	Net evaporation ^a	
September.....	13,925				
October.....	13,511	-414	0	+548.4	134.4
November.....	13,547	+36	5.0	+131.0	172.0
December.....	15,080	+1,533	0	-559.1	973.9
January.....	15,391	+311	0	+76.7	387.7
February.....	84,907	+69,516	368.4	-3,249.6	66,634.8
March.....	93,805	+8,898	0	-237.2	8,660.8
April.....	97,378	+3,573	0	+885.3	4,468.3
May.....	97,834	+456	0	+1,603.0	2,059.0
June.....	96,613	-1,221	1.2	+1,990.0	770.2
July.....	94,212	-2,401	241.3	+2,815.5	655.8
August.....	90,419	-3,793	1,747.9	+2,713.7	668.6
September.....	86,364	-4,055	1,757.4	+2,069.5	271.9
The year.....		+72,939	4,121.2	+8,787.2	85,847.4

^a Net evaporation equals gross evaporation minus rainfall.^b Inflow computed by engineers of U. S. Geological Survey. These figures do not agree with inflow as computed by the San Diego County Water Co. as its computations are corrected for conserved evaporation in accordance with a provision in the contract with the Escondido Mutual Water Co.

NOTE.—Inflow equals increase or decrease in storage plus draft and net evaporation.

SANTA MARGARITA RIVER BASIN

TEMECULA CREEK AT NIGGER CANYON, NEAR TEMECULA, CALIF.

LOCATION.—Water-stage recorder on Pauba land grant, at upper end of Nigger Canyon, 10 miles east of Temecula, Riverside County. Arroyo Seco enters from left above gage.

RECORDS AVAILABLE.—January, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, about 17,100 second-feet February 16, determined by slope-area method (gage height, 19.5 feet); minimum, 0.9 second-foot August 20.

1923-1927: Maximum discharge, that of February 16, 1927; minimum, 0.8 second-foot September 30, 1924.

REMARKS.—Records fair. Gage-height record and results of most of the discharge measurements furnished by Vail and O'Neil.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2.1	2.2	2.8	5.5	5.5	29	27	11	4.8	2.1	1.9	2.6
2.....	2.2	2.2	2.5	5.5	5.5	27	22	11	2.6	2.1	2.1	2.6
3.....	2.1	2.3	2.3	5.5	5.5	38	19	10	4.8	2.3	2.1	2.3
4.....	1.9	2.3	6.5	5.5	6	53	18	10	2.9	2.3	1.9	2.1
5.....	1.9	2.3	4.8	5.5	7	48	16	10	2.6	2.6	2.1	1.9
6.....	2.0	2.3	4.0	5.5	5.5	38	16	10	1.7	2.9	2.1	2.1
7.....	1.9	2.3	4.4	5.5	5.5	35	15	13	2.1	3.2	2.1	1.9
8.....	1.9	2.2	4.6	5.5	5.5	31	15	12	4.0	3.2	2.1	1.7
9.....	1.9	2.1	6	5.5	5.5	34	16	9.5	4.4	3.2	3.2	1.9
10.....	1.9	2.1	5.5	5.5	5.5	37	17	6	6.5	3.5	3.2	1.9
11.....	1.9	2.5	4.6	6	6.5	27	24	4.0	6	3.5	2.9	1.9
12.....	1.8	2.7	4.6	6	6	25	21	6	5.5	2.9	2.9	2.3
13.....	1.9	2.6	4.4	6	8	24	20	7	3.8	2.9	2.9	2.3
14.....	1.9	2.7	4.0	6	7.5	24	20	7	2.3	2.9	2.9	2.3
15.....	1.9	2.7	3.7	6.5	3,320	26	19	6.5	4.8	2.6	2.9	2.6
16.....	1.9	3.0	3.5	6.5	12,400	28	18	7	4.8	2.6	2.6	2.9
17.....	1.9	3.0	3.5	6.5	1,200	25	16	8	4.1	2.6	2.1	2.3
18.....	2.0	3.0	3.9	6.5	300	23	14	8	4.8	2.3	1.9	2.5
19.....	2.1	2.8	6.5	6	118	20	15	7	5.5	2.6	1.7	2.7
20.....	2.2	3.0	5.5	5.5	95	23	12	7	4.4	2.3	1.5	2.9
21.....	2.1	2.8	6	6	72	23	12	7	4.4	2.1	1.5	2.3
22.....	2.1	3.0	7.5	7	63	26	14	6	3.5	2.6	1.7	2.6
23.....	2.0	2.8	8.0	6.5	53	23	13	6	3.5	2.3	1.7	2.6
24.....	2.0	3.0	8.5	6	46	20	14	4.8	3.5	2.3	1.5	2.9
25.....	2.1	2.8	7	6	41	18	15	4.8	3.3	2.3	2.1	2.6
26.....	2.1	2.8	7	6.5	42	16	14	4.8	3.2	3.2	1.9	2.6
27.....	2.2	3.9	6.5	6.5	35	14	12	3.8	3.0	2.9	2.1	2.3
28.....	2.2	3.0	6.5	6	30	15	12	3.8	2.9	3.1	2.1	2.3
29.....	2.2	2.8	6	5.5	-----	14	13	4.1	3.2	2.1	2.6	2.3
30.....	2.2	2.7	5.5	5.5	-----	45	10	4.8	2.6	1.9	2.6	2.4
31.....	2.2	-----	5.5	5.5	-----	32	-----	5.5	-----	1.9	2.6	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	2.2	1.8	2.02	124
November.....	3.9	2.1	2.66	158
December.....	8.5	2.3	5.21	320
January.....	7	5.5	5.92	364
February.....	12,400	5.5	642	35,700
March.....	53	14	27.8	1,710
April.....	27	10	16.3	970
May.....	13	3.8	7.24	445
June.....	6.5	1.7	3.85	229
July.....	3.5	1.9	2.69	159
August.....	3.2	1.5	2.24	138
September.....	2.9	1.7	2.35	140
The year.....	12,400	1.5	55.8	40,500

TEMECULA CREEK AT RAILROAD CANYON, NEAR TEMECULA, CALIF.

LOCATION.—Water-stage recorder on Temecula land grant, at upper end of Temecula or Railroad Canyon, $1\frac{1}{4}$ miles south of Temecula, Riverside County. Murrieta Creek enters from right above station.

RECORDS AVAILABLE.—January, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, about 27,600 second-feet, February 16, determined by slope-area method (gage height, 15.00 feet); minimum 1.4 second-feet August 8.

1923-1927: Maximum discharge, that of February 16, 1927; minimum, 0.4 second-foot July 16, 1925.

REMARKS.—Records fair. Discharge estimated October 31, December 8-15, February 21, 22, March 5, 6, 11, May 20-23, and June 24-27. Pumping diversions regulated flow during irrigation season. Gage-height record and results of most of the discharge measurements furnished by Vail and O'Neill.

Daily and monthly discharge, in second-feet, 1923-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.4	6.5	12	16	5.5	25	20	8.5	6.5	2.8	1.6	2.6
2	4.6	7	12	16	7	26	19	8.5	6	3.0	1.6	2.6
3	5.5	7.5	13	17	9	32	17	8.5	8	3.1	1.8	2.8
4	4.5	7.5	13	17	11	36	14	7.5	7	3.2	1.7	3.2
5	4.2	7.5	12	15	14	24	13	9	5.5	2.6	1.7	3.0
6	4.2	8	11	12	13	30	16	11	4.2	2.3	1.6	2.6
7	4.2	8	12	13	14	36	17	9.5	3.0	4.4	1.7	3.0
8	5	8	12	12	12	41	18	8.5	4.6	3.4	1.7	3.1
9	4.4	8	12	12	9.5	35	19	8	8	3.0	2.1	3.2
10	5	7.5	11	12	11	39	19	8	8.5	2.8	2.3	2.4
11	4.3	7	11	12	12	38	24	8.5	9	2.5	2.2	2.6
12	4.1	7	11	12	11	38	21	8.5	10	2.0	2.3	2.7
13	3.8	8	10	11	15	35	21	8	10	2.8	2.5	3.7
14	3.5	7.5	10	12	1,530	35	17	7.5	6.5	3.0	2.5	4.0
15	3.2	7.5	10	11	8,770	36	16	7.5	9	2.8	2.8	4.0
16	3.8	7.5	9.5	11	10,900	32	16	7	9	2.5	2.5	4.4
17	4.2	8	10	11	2,420	30	15	6.5	7.5	2.4	2.6	4.4
18	4.5	9	10	11	350	25	14	9.5	6.5	2.2	2.5	4.3
19	5	9	11	11	177	22	12	9	5	2.1	2.5	3.7
20	5.5	8.5	11	11	83	19	17	9	4.0	3.0	2.3	4.3
21	5.5	8	12	12	71	16	14	9	4.0	2.6	2.2	4.0
22	5	8.5	12	12	59	16	13	10	5.5	3.0	2.2	5
23	5	9.5	13	11	48	17	12	10	4.6	3.1	2.2	5.5
24	5.5	11	13	11	42	15	11	10	4.2	2.4	1.7	7.5
25	6	12	13	9.5	38	14	11	4.8	3.8	2.5	3.4	5
26	6.5	13	13	8.5	43	16	10	8	3.4	2.5	3.0	5
27	6	16	13	8	41	15	9.5	7.5	3.0	2.6	2.8	6
28	4.8	14	14	7.5	34	14	9.5	7	2.6	1.7	2.6	5.5
29	5	12	14	7.5	-----	20	9	7	2.2	3.4	2.4	6.5
30	5	12	15	7	-----	34	9	6.5	2.6	2.6	2.5	5.5
31	6	-----	15	6.5	-----	26	-----	6	-----	2.2	2.5	-----
Month					Maximum	Minimum	Mean	Run-off in acre-feet				
October					6.5	3.2	4.75	292				
November					16	6.5	9.02	537				
December					15	9.5	12.0	738				
January					17	6.5	11.5	707				
February					19,900	5.5	1,210	67,200				
March					41	14	27.0	1,660				
April					24	9	15.1	898				
May					11	4.8	8.19	504				
June					10	2.2	5.79	345				
July					4.4	1.7	2.73	168				
August					3.4	1.6	2.26	139				
September					7.5	2.4	4.07	242				
The year					19,900	1.6	101	73,400				

SURFACE WATER SUPPLY, 1927, PART XI

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.

RECORDS AVAILABLE.—November, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 33,100 second-feet February 16, determined by slope-area method (gage height, 15.6 feet); minimum, 0.7 second-foot August 13.

1924-1927: Maximum discharge, that of February 16, 1927; minimum, 0.1 second-foot, August 30, 1925, and September 4, 1926.

REMARKS.—Records fair. Discharge interpolated October 19-25, 27, and 28. Diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	2.5	4.4	8.5	12	7.5	49	40	15	9	3.9	1.6	1.6
2-----	3.1	5	8.5	12	10	44	36	13	9	3.9	1.4	1.6
3-----	3.6	5	9.5	12	9	64	34	12	8.5	3.9	1.4	1.4
4-----	4.4	5.5	14	12	13	121	30	11	10	4.8	1.6	1.6
5-----	2.7	5.5	18	13	24	121	29	14	8.5	3.9	1.2	3.0
6-----	2.2	6	13	12	16	87	26	15	8.5	3.3	1.6	1.8
7-----	2.2	6.5	13	12	13	77	24	18	7.5	3.9	1.8	2.0
8-----	2.4	6.5	22	12	13	69	21	18	10	3.9	1.8	2.2
9-----	3.3	6	48	12	13	80	19	17	10	3.0	1.2	2.2
10-----	3.1	6	20	12	14	96	21	15	10	1.8	1.4	3.0
11-----	4.4	6	16	12	20	64	22	13	10	1.8	1.8	2.4
12-----	3.3	6.5	15	12	20	58	29	11	9	2.2	1.0	2.2
13-----	3.1	6.5	14	11	33	51	28	11	10	2.4	.7	2.2
14-----	2.9	6.5	13	12	1,260	48	27	11	8.5	2.4	1.4	3.3
15-----	2.7	6	12	12	9,360	43	27	9	7	2.4	1.6	3.3
16-----	2.4	6	12	12	21,900	40	28	7.5	7	2.2	2.2	3.3
17-----	3.1	6	12	12	4,180	41	24	8.5	7	1.6	2.0	3.9
18-----	3.3	6	12	12	450	38	24	11	7.5	2.0	1.8	3.9
19-----	3.4	6	12	11	298	37	22	12	5.5	2.0	1.6	3.9
20-----	3.5	6.5	12	11	240	33	21	11	4.8	3.0	1.2	2.4
21-----	3.6	6	12	13	180	34	19	11	5.5	2.4	1.2	4.2
22-----	3.7	6	13	13	126	33	19	11	6	1.8	1.2	3.8
23-----	3.8	7	14	12	106	33	19	10	7	1.8	1.2	4.2
24-----	4.0	10	22	11	86	34	18	11	6	2.2	1.0	4.8
25-----	4.1	11	14	9.5	66	31	17	11	4.8	2.7	1.4	4.8
26-----	4.2	9	13	9.5	58	31	17	9	4.1	3.0	1.2	4.2
27-----	3.9	14	12	9	51	33	17	10	4.1	2.7	.8	6
28-----	3.6	12	12	8.5	48	31	17	9	4.8	2.2	1.2	7
29-----	3.6	10	12	8.5	-----	36	18	11	3.6	2.0	1.2	5.5
30-----	4.0	9	12	8.5	-----	55	16	11	2.4	2.0	1.2	7
31-----	4.7	-----	12	9	-----	46	-----	10	-----	1.6	1.4	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October-----	4.7	2.2	3.38	208
November-----	14	4.4	7.08	421
December-----	48	8.5	14.6	698
January-----	13	8.5	11.3	695
February-----	21,900	7.5	1,390	76,000
March-----	121	31	53.5	3,330
April-----	40	16	23.6	1,400
May-----	18	7.5	11.8	726
June-----	10	2.4	7.19	428
July-----	4.8	1.6	2.67	164
August-----	2.2	.7	1.40	86.1
September-----	7	1.4	3.37	201
The year-----	21,900	.7	118	85,100

SANTA MARGARITA RIVER BASIN

19

SANTA MARGARITA RIVER AT YSIDORA, CALIF

LOCATION.—Water-stage recorder on Santa Margarita y las Flores land grant, 3 miles above mouth of river and 4 miles north of Oceanside, at Ysidora, San Diego County.

RECORDS AVAILABLE.—February, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, about 33,600 second-feet February 16, determined by slope-area method (gage height, 18.00 feet); no flow October 1 to December 15 and August 10 to September 30.

1922-1927: Maximum discharge, that of February 16, 1927; no flow part of each year.

REMARKS.—Records fair. Gage destroyed February 16. Monthly mean discharge for February to August estimated from numerous discharge measurements. Diversions for irrigation above station. Gage-height record and results of most of the discharge measurements furnished by Vail and O'Neil.

Daily and monthly discharge, in second-feet, 1926-27

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1.	0	1.8	6.5						
2.	0	1.8	7	102			5.5		0.2
3.	0	1.9	7						
4.	0	1.9	8			8.5			
5.	0	1.8	12						
6.	0	1.9	11		44			0.8	
7.	0	2.4	11				4.5		
8.	0	3.1	10		36				
9.	0	3.6	9.5	144	35	7.5			
10.	0	4.4	9						0
11.	0	5	13						0
12.	0	6	14					.9	0
13.	0	6	15						0
14.	0	6	860				5		0
15.	0	6.5		92	40			1.3	0
16.	.6	7				7.5			0
17.	.6	7							0
18.	.6	7			32	6			0
19.	.9	7						.9	0
20.	1.0	7.5					7		0
21.	1.0	9.5						.5	0
22.	1.1	8.5							0
23.	1.5	9	237	59					0
24.	2.4	8.5				5			0
25.	1.9	8.5							0
26.	1.9	8		53	25			.2	0
27.	1.8	7.5							0
28.	1.6	7					2.7		0
29.	1.6	7					2.4		0
30.	1.8	7							0
31.	1.8	7		110					0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
December	2.4	0	0.71	43.7
January	9.5	1.8	5.71	351
February			1,470	81,600
March			100	6,150
April			38	2,260
May			7.0	420
June			5.0	298
July			.7	43.0
August		0	.05	3.1
The year		0	125	91,200

NOTE.—No flow in months omitted.

SANTA ANA RIVER BASIN

SANTA ANA RIVER NEAR MENTONE, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 4, T. 1 S., R. 2 W., near mouth of canyon, one-fourth mile above Southern California Edison Co.'s Mentone power plant, and $3\frac{1}{4}$ miles northeast of Mentone.

DRAINAGE AREA.—189 square miles.

RECORDS AVAILABLE.—July, 1896, to September, 1927.

EXTREMES.—Maximum discharge during year, about 24,000 second-feet February 16, determined by slope-area method; minimum, 0.9 second-foot October 28, 29, 31, and November 1.

1896-1927: Maximum discharge, 29,100 second-feet January 27, 1916; minimum, 0.1 second-foot October 12, 1919.

REMARKS.—Records good except for February 15 to April 26, for which daily gage-height record is missing. Monthly mean discharge estimated February to April. Diversions and regulation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1.1	0.9	5.5	2.0	3.3	114	-----	27	6	3.5	3.5	2.6
2.....	1.1	1.0	4.9	2.2	3.3	-----	-----	30	6	3.5	3.5	2.6
3.....	1.1	1.0	4.9	2.2	3.3	-----	-----	31	6	3.5	3.5	2.6
4.....	1.1	1.1	5.5	2.2	3.6	-----	-----	36	6.5	3.5	3.5	2.6
5.....	1.0	1.0	5.5	2.4	3.8	-----	-----	37	7.5	3.5	3.5	2.6
6.....	1.0	1.1	14	2.7	3.8	-----	26	36	7	3.5	3.5	2.6
7.....	1.0	1.2	11	2.7	3.8	-----	-----	42	6	3.5	3.5	2.6
8.....	1.1	1.3	18	2.9	3.8	-----	-----	45	6	3.5	3.5	2.6
9.....	1.1	1.3	11	2.9	4.0	-----	-----	42	5.5	3.6	3.5	2.7
10.....	1.1	1.4	8.5	2.9	4.0	-----	-----	30	5	3.6	3.5	2.7
11.....	1.1	1.4	8.5	2.9	4.2	-----	-----	19	4.9	3.7	3.5	2.7
12.....	1.1	1.7	8	2.9	4.2	-----	-----	20	4.8	3.8	3.4	2.7
13.....	1.1	1.9	8	2.9	7.5	-----	23	21	4.4	3.8	3.3	2.7
14.....	1.0	2.0	7.5	2.9	-----	-----	-----	22	4.0	3.8	3.1	2.7
15.....	1.0	10	6.5	2.9	-----	-----	-----	24	3.9	3.6	3.0	2.7
16.....	1.0	3.3	6	3.1	-----	-----	-----	25	3.9	3.6	3.0	2.6
17.....	1.0	2.2	4.2	3.1	-----	-----	-----	26	3.9	3.6	3.0	2.6
18.....	1.1	1.9	2.9	3.1	-----	-----	-----	27	3.8	3.6	3.1	2.6
19.....	1.1	1.8	4.6	3.3	-----	-----	-----	28	3.8	3.6	3.1	2.6
20.....	1.1	1.8	4.0	3.5	-----	-----	-----	30	3.8	3.6	3.5	2.6
21.....	1.2	1.7	4.0	4.2	-----	-----	-----	26	3.8	3.5	3.0	2.6
22.....	1.1	1.7	5.5	4.2	-----	-----	-----	10	3.7	3.8	3.0	2.6
23.....	1.1	1.8	4.0	4.2	-----	-----	-----	8	3.6	3.2	3.0	2.6
24.....	1.1	2.0	3.8	4.2	-----	-----	-----	7	3.5	3.2	2.9	2.6
25.....	1.0	3.1	3.5	4.0	-----	-----	-----	6.5	3.5	5	2.8	2.6
26.....	1.0	2.4	3.3	3.8	217	41	-----	6	3.5	3.6	2.8	2.6
27.....	1.0	28	2.7	3.5	-----	-----	21	6	3.5	3.6	2.8	2.6
28.....	9	9	2.2	3.3	-----	-----	22	6	3.5	3.5	2.8	2.6
29.....	9	7	2.2	3.3	-----	-----	19	6	3.5	3.5	2.8	2.6
30.....	1.1	6	2.2	3.3	-----	-----	19	6	3.5	3.5	2.7	2.6
31.....	9	-----	2.0	3.3	-----	-----	-----	6	-----	3.5	2.7	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	1.2	0.9	1.05	64.6
November.....	28	.9	3.40	202
December.....	18	2.0	5.95	366
January.....	4.2	2.0	3.13	192
February.....	-----	-----	770	42,800
March.....	-----	-----	75	4,610
April.....	-----	-----	25	1,490
May.....	45	6	22.3	1,370
June.....	7.5	3.5	4.61	274
July.....	5	3.2	3.59	221
August.....	3.5	2.7	3.17	195
September.....	2.7	2.6	2.62	156
The year.....	-----	.9	71.7	51,900

Combined daily and monthly discharge, in second-feet, of Santa Ana River and canals near Mentone, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	70	57	33	38	35	104		114	82	80	82	81
2.	73	64	32	38	37			106	84	80	82	81
3.	70	60	30	38	37			104	87	82	80	79
4.	70	61	35	38	41			112	76	84	80	79
5.	60	58	70	40	41			108	84	84	78	78
6.	60	53	55	38	41		116	106	85	82	82	81
7.	64	43	71	40	38			118	82	82	80	84
8.	62	50	59	38	38			124	84	84	82	87
9.	67	53	49	38	38			120	86	88	86	84
10.	70	56	43	40	38			108	86	88	88	84
11.	67	58	43	44	38			94	89	82	88	84
12.	68	58	41	46	41			96	86	85	85	84
13.	66	56	46	60	50		112	96	85	82	85	87
14.	68	56	40	40	388			98	85	85	86	87
15.	68	58	39	38				100	85	85	86	84
16.	68	50	36	39				100	85	85	86	84
17.	68	51	38	36				104	85	85	86	84
18.	68	50	36	39				81	85	85	86	79
19.	68	53	42	36				77	85	82	87	79
20.	68	48	37	39				84	85	88	89	81
21.	69	50	37	77				80	82	90	86	81
22.	64	49	54	68				94	85	84	74	81
23.	64	49	37	40				92	82	87	84	79
24.	61	48	33	42				88	82	87	86	81
25.	58	45	28	45				86	80	91	83	81
26.	59	38	33	41	286	116		87	82	85	86	81
27.	62	52	32	39			106	87	82	88	86	84
28.	62	47	32	39			110	90	80	88	86	81
29.	61	43	35	39			106	95	80	84	89	84
30.	58	34	35	39			106	84	80	82	87	81
31.	60		38	33				84		82	84	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	73	58	65.3	4,020
November	82	34	52.9	3,150
December	71	28	40.9	2,510
January	77	33	42.1	2,590
February			830	46,100
March			147	9,040
April			113	6,720
May	124	77	97.3	5,960
June	89	76	83.5	4,970
July	91	80	84.7	5,210
August	89	74	84.5	5,200
September	87	76	82.1	4,890
The year			139	100,000

SANTA ANA RIVER NEAR PRADO, CALIF.

LOCATION.—Water-stage recorder at Riverside-Orange County line in lower Santa Ana Canyon, 3 miles by river below Rincon Bridge and 3 miles south-west of Prado, Riverside County.

RECORDS AVAILABLE.—January, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, about 18,000 second-feet February 16, determined by slope-area method (gage height, 11.5 feet); minimum, 37 second-feet September 6.

1919-1927: Maximum and minimum discharges, same as for 1927.

REMARKS.—Records good except those for February 19-23, April 1-9, and September 21-26, which were estimated. Diversions and regulation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	68	84	136	145	172	440	396	129	77	69	50	45
2.....	68	80	130	148	164	447	372	140	67	64	48	45
3.....	66	82	145	156	158	580	349	117	64	64	50	45
4.....	65	84	172	164	172	636	325	121	67	60	48	43
5.....	64	83	161	167	268	550	302	129	67	57	46	48
6.....	65	88	156	170	200	437	279	110	72	50	43	41
7.....	63	89	193	170	189	324	255	117	69	46	45	48
8.....	64	85	200	161	182	312	232	121	67	46	46	48
9.....	68	84	428	161	158	447	208	110	64	46	41	45
10.....	69	85	175	161	161	447	185	106	67	48	46	48
11.....	73	90	148	175	172	260	318	102	72	48	55	46
12.....	71	91	148	178	172	202	229	106	80	50	52	52
13.....	72	97	143	172	470	176	229	96	74	57	60	52
14.....	77	96	143	170	2,650	162	224	96	74	69	55	60
15.....	74	97	136	167	3,300	234	229	99	80	62	52	62
16.....	76	96	146	170	16,000	180	218	91	88	57	62	62
17.....	73	96	153	172	5,000	298	224	88	85	57	62	69
18.....	78	95	150	178	1,000	272	267	94	85	57	57	69
19.....	78	100	164	175	800	272	207	94	94	48	62	72
20.....	74	99	156	204	700	272	207	88	85	50	60	67
21.....	75	98	215	239	650	298	202	80	82	60	55	66
22.....	79	99	189	235	600	357	196	77	80	50	57	65
23.....	77	106	172	223	550	350	176	77	72	52	52	64
24.....	79	113	164	215	525	312	158	80	64	50	45	63
25.....	83	137	131	219	500	279	154	88	69	45	46	62
26.....	83	120	136	200	475	266	140	96	67	48	46	61
27.....	79	247	143	208	460	246	132	85	64	57	46	60
28.....	80	164	153	200	450	234	132	94	69	52	48	60
29.....	84	134	153	189	-----	246	129	94	69	46	55	57
30.....	82	134	153	193	-----	398	125	80	67	46	46	60
31.....	77	-----	139	182	-----	419	-----	80	-----	46	-----	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	84	63	73.4	4,510
November.....	247	80	105	6,250
December.....	428	130	166	10,200
January.....	239	145	183	11,300
February.....	16,000	158	1,300	72,200
March.....	636	162	334	20,500
April.....	396	125	225	13,400
May.....	140	77	99.5	6,120
June.....	94	64	73.4	4,370
July.....	69	45	53.5	3,290
August.....	62	41	51.0	3,140
September.....	72	41	56.2	3,340
The year.....	16,000	41	219	159,000

LOWER SANTA ANA RIVER

For comparative purposes, discharge measurements were made on the same day during the irrigating season at different points in lower Santa Ana River Basin. Measurements were also made at some of these points during the irrigating seasons from 1916 to 1926.

Results of the measurements for 1926-27 are given in the following table.

Discharge measurements, in second-feet, of lower Santa Ana River, 1926-27

Date	Location					
	Rubidoux Bridge near Riverside (includes Spring Brook)		San Pedro, Los Angeles & Salt Lake Railroad bridge near Arlington (Riverside Narrows)		Hamner Avenue Bridge near Corona	
	Time	Dis-charge	Time	Dis-charge	Time	Dis-charge
Oct. 6.....	9.45 a. m.....	10	10.25 a. m.....	40	12.05 p. m.....	46
14.....	9.20 a. m.....	9.8	10.05 a. m.....	41	11.20 a. m.....	44
Nov. 12.....			9.20 a. m.....	48		
July 1.....	3.00 p. m.....	7.0	1.40 p. m.....	38	11.30 a. m.....	34
7.....			11.40 a. m.....	36		
25.....			9.45 a. m.....	35	11.50 a. m.....	30
Aug. 8.....			11.05 a. m.....	32	12.25 p. m.....	31
18.....			4.20 p. m.....	32	3.15 p. m.....	26
Sept. 1.....			10.55 a. m.....	30	11.50 a. m.....	24
13.....			4.05 p. m.....	32	2.40 p. m.....	36

Date	Location					
	Atchison, Topeka & Santa Fe Railway bridge near Prado		Riverside-Orange County line (Prado gaging station)		At intake of Anaheim Union and Santa Ana Canals	
	Time	Dis-charge	Time	Dis-charge	Time	Dis-charge
Oct. 6.....	1.00 p. m.....	74	1.35 p. m.....	66	2.15 p. m.....	64
14.....	12.35 p. m.....	82	1.55 p. m.....	83	2.45 p. m.....	76
Nov. 12.....	1.30 p. m.....	93	12.05 p. m.....	97	12.55 p. m.....	88
June 23.....	11.30 a. m.....	69	12.15 p. m.....	79		
July 1.....	10.20 a. m.....	72	9.00 a. m.....	74		
8.....	1.45 p. m.....	53	2.50 p. m.....	47		
25.....	12.55 p. m.....	49	1.25 p. m.....	46		
Aug. 8.....	1.10 p. m.....	53	4.15 p. m.....	45		
18.....	2.05 p. m.....	56	10.45 a. m.....	55		
Sept. 1.....	1.20 p. m.....	46	1.55 p. m.....	46		
13.....	1.50 p. m.....	58	12.50 p. m.....	56		

NOTE.—See also daily-discharge tables of Warm Creek near Colton and Meeks & Daley Canal near Colton.

SURFACE WATER SUPPLY, 1927, PART XI

SANTA ANA RIVER AT SANTA ANA, CALIF.

LOCATION.—Water-stage recorder at Fifth Street Bridge, Santa Ana, Orange County, 2 miles below junction with Santiago Creek and 10 miles above mouth.

RECORDS AVAILABLE.—January, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, about 25,000 second-feet February 16, determined by slope-area method (gage height, 8.2 feet); stream dry several months during year.

1923-1927: Maximum discharge, that of February 16, 1927; stream dry several months each year.

REMARKS.—Records fair. Daily discharge estimated or partly estimated except for February 14-18. Considerable diversion for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
1	0	0	0	2	50		
2	0	0	0	2	39		
3	0	0	0	2			
4	0	0	0	5			
5	0	0	0	5			
6	0	0	0	5			
7	0	0	0	5	178		1
8	0	67	0	5			
9	0	19	0	5			
10	0	0	0	5			
11	0	0	0	5			
12	0	0	0	5	135	60	
13	0	0	0	5			
14	0	0	0	2,600		33	
15	0	0	0	4,000			
16	0	0	0	13,000			
17	0	0	0	4,100			0
18	0	0	0	1,300			0
19	0	0	0	860	62		0
20	0	0	8	725			0
21	0	0	13	600			0
22	0	0	13	450			0
23	0	0	12	314			0
24	0	0	12	250			0
25	0	10	12	200			0
26	0	10	10	150			0
27	50	10	7	100			0
28	0	10	4	75		16	0
29	0	10	3				0
30	0	10	2		91		0
31		10	2				0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	50	0	1.67	99.4
December	67	0	5.03	309
January	13	0	3.16	194
February	13,000	2	1,030	57,200
March			* 100	6,180
April			* 50	2,980
May			* 1.5	92.2
The year			92.4	67,000

* Estimated.

NOTE.—No flow in months omitted.

SOUTHERN CALIFORNIA EDISON CO.'S CANAL AND GREENSPOT PIPE LINE NEAR MENTONE, CALIF.

LOCATION.—In SW. $\frac{1}{4}$ sec. 4, T. 1 S., R. 2 W., at Southern California Edison Co.'s plant at mouth of canyon, 3 miles northeast of Mentone.

RECORDS AVAILABLE.—1896 to September, 1927.

EXTREMES.—1896-1927: Maximum mean daily canal discharge, 200 second-feet February 17-19, 1927 (the flume that carries the water across Santa Ana River was destroyed February 16, 1927); no flow during short periods nearly every year.

REMARKS.—The intake of this canal is at Southern California Edison Co.'s power plant No. 2, $2\frac{3}{4}$ miles above the Mentone plant. Water is diverted from forebay of Mentone plant by the Greenspot pipe line. Canal discharge below forebay is computed from records of kilowatt output of power plant. Pipe-line discharge is computed from weir record at forebay. Sum of canal and pipe-line discharges gives total flow of canal above forebay. Record furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, of Southern California Edison Co.'s canal near Mentone, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	64	53	27	35	27	48	87	83	67	68	72	69
2.....	67	59	27	35	29	32	87	72	69	68	72	69
3.....	64	56	24	35	29	48	87	69	72	69	69	67
4.....	64	56	29	35	32	69	87	72	61	72	69	67
5.....	56	53	64	37	32	64	87	67	67	72	67	64
6.....	56	48	40	35	32	75	87	67	69	69	72	69
7.....	59	43	59	37	29	88	87	72	67	69	69	72
8.....	56	45	40	35	29	77	87	75	69	72	72	75
9.....	61	48	37	35	29	77	87	75	72	75	75	72
10.....	64	53	34	37	29	77	87	72	72	75	77	72
11.....	61	53	34	40	29	72	87	72	75	69	77	72
12.....	61	53	32	43	32	75	87	72	72	72	75	72
13.....	61	53	37	57	37	72	87	72	72	69	75	75
14.....	61	51	32	37	85	72	87	72	72	72	75	75
15.....	61	45	32	35	85	75	87	72	72	72	75	72
16.....	61	43	29	35	40	69	87	72	72	72	75	72
17.....	61	45	33	32	200	72	85	69	72	72	75	72
18.....	61	45	32	35	200	69	83	45	72	72	77	67
19.....	61	48	37	32	200	67	83	40	72	69	75	67
20.....	61	43	32	35	0	69	83	45	72	75	77	69
21.....	64	45	32	72	27	64	85	45	69	77	75	69
22.....	59	45	48	63	40	64	83	75	72	72	63	69
23.....	59	45	32	35	37	61	85	75	69	75	72	67
24.....	56	43	29	37	67	67	88	72	69	75	75	69
25.....	53	40	24	40	69	72	85	72	67	77	72	69
26.....	53	35	29	37	67	72	85	72	69	72	75	69
27.....	56	53	29	35	37	72	85	72	69	75	75	72
28.....	56	37	29	35	59	72	85	75	67	75	75	69
29.....	56	35	32	35	-----	85	85	80	67	72	77	72
30.....	53	27	32	35	-----	85	85	69	67	69	75	69
31.....	56	-----	35	29	-----	85	-----	69	-----	69	72	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	67	53	59.4	3,650
November.....	59	27	46.6	2,770
December.....	64	24	34.3	2,110
January.....	72	29	38.4	2,360
February.....	200	0	57.4	3,190
March.....	85	32	69.7	4,290
April.....	88	83	85.9	5,110
May.....	83	40	68.7	4,220
June.....	75	61	69.8	4,150
July.....	77	68	72.0	4,430
August.....	77	63	73.4	4,510
September.....	75	64	70.1	4,170
The year.....	200	0	62.1	45,000

SANTA ANA RIVER BASIN

27

MILL CREEK NEAR CRAFTONVILLE, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 13, T. 1 S., R. 2 W., at mouth of canyon, below bridge on Redlands-Bear Valley highway, $5\frac{1}{4}$ miles northeast of Craftonville.

RECORDS AVAILABLE.—January, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, about 4,500 second-feet February 16, determined by slope-area method; stream practically dry for several months.

1919-1927: Maximum discharge, that of February 16, 1927; all water diverted into Mill Creek power canal No. 1 at times.

REMARKS.—Daily discharge estimated November 24-28, December 7-9, February 13, 14, 19-26, April 16-23, June 27 to July 6, and July 27 to September 30. 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 the sum of flow in creek and the three canals.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0	0	0	46	34	44	33	10	0.2	0.1
2.....	0	0	0	42	33	48	33	7	.2	.1
3.....	0	0	0	48	32	65	32	9	.2	.2
4.....	0	0	0	46	32	71	32	8	.1	.2
5.....	0	0	0	40	33	81	32	5	.1	.2
6.....	0	0	0	38	33	98	32	.4	.1	.2
7.....	0	7	0	37	33	168	32	.4	.1	.2
8.....	0	3	0	37	34	130	32	.4	.1	.2
9.....	0	3	0	38	34	81	32	.4	.1	.2
10.....	0	0	0	36	35	69	32	.4	.1	.2
11.....	0	0	0	35	37	65	32	.4	.1	.2
12.....	0	0	0	34	35	56	31	.4	.1	.2
13.....	0	0	1.5	34	34	67	31	.4	.1	.2
14.....	0	0	70	36	35	62	30	.4	.1	.2
15.....	0	0	465	36	32	57	30	.4	.1	.2
16.....	0	0	1,680	36	35	57	28	.4	.1	.2
17.....	0	0	610	33	35	68	29	.3	.1	.1
18.....	0	0	190	32	35	55	28	.2	.1	.1
19.....	0	0	110	32	35	46	28	.2	.1	.1
20.....	0	0	100	31	35	48	27	.4	.1	.1
21.....	0	5	90	30	35	46	27	.4	.1	.1
22.....	0	.1	80	31	35	42	27	.2	.1	.1
23.....	0	0	75	32	35	39	28	.9	.1	.1
24.....	4	0	70	33	37	38	27	2.0	.1	.1
25.....	6	0	65	33	40	38	26	.4	.1	.1
26.....	4	0	60	33	40	38	25	.2	.1	.1
27.....	60	0	58	33	41	38	22	.2	.1	.1
28.....	2	0	50	32	41	36	19	.2	.1	.1
29.....	0	0	-----	34	42	35	16	.4	.1	.1
30.....	0	0	-----	36	44	34	12	.4	.1	.1
31.....	0	0	-----	36	-----	34	-----	.2	.1	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November.....	60	0	2.53	151
December.....	7	0	.58	35.7
February.....	1,680	0	135	7,500
March.....	48	30	35.8	2,200
April.....	44	32	35.7	2,120
May.....	168	34	59.8	3,680
June.....	33	12	28.2	1,680
July.....	10	.2	1.61	99.0
August.....	.2	.1	.11	6.8
September.....	.2	.1	.15	8.9
The year.....	1,680	0	24.1	17,500

NOTE.—No flow in months omitted.

Combined daily and monthly discharge, in second-feet, of Mill Creek and canals near Craftonville, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19.1	17.4	16.4	18.9	18.8	82	73	83	72	54	39	29
2	20.5	17.4	16.1	19.6	18.7	77	72	86	72	52	38	29
3	19.9	16.5	14.2	19.4	18.5	86	71	95	71	50	37	30
4	18.8	17.2	18.7	20.0	19.7	80	72	100	72	47	36	28
5	18.0	16.9	20.4	20.1	20.1	74	73	110	71	48	36	28
6	18.2	16.7	18.9	19.5	18.7	73	73	127	72	46	37	28
7	18.0	16.9	22	19.5	18.5	72	74	196	72	45	35	28
8	17.7	15.5	22	19.1	18.5	71	75	159	72	43	35	28
9	18.7	17.3	23	18.5	18.1	72	75	117	72	45	34	28
10	18.7	17.1	19.5	19.2	18.1	71	76	105	72	43	34	27
11	17.5	16.8	20.1	19.9	19.2	70	76	101	68	43	33	27
12	17.7	16.8	19.3	20.1	20.5	68	72	92	66	43	33	26
13	17.3	19.0	18.7	19.7	22	68	71	103	70	42	33	27
14	17.3	18.3	18.0	19.3	93	70	69	97	67	42	33	28
15	17.7	17.0	17.9	18.9	489	70	70	90	68	41	33	27
16	17.3	16.9	17.3	19.4	1,690	71	75	90	66	40	32	27
17	17.6	16.6	17.5	19.2	613	70	74	107	67	39	32	27
18	16.1	17.3	18.7	18.6	214	72	74	96	66	39	31	26
19	16.0	16.4	18.6	18.5	131	72	74	87	65	38	33	25
20	16.0	16.0	17.6	18.7	127	72	74	89	63	41	37	26
21	16.5	16.3	24	24.5	117	70	74	87	62	41	34	25
22	16.9	16.6	20.8	20.6	108	71	74	82	62	41	34	26
23	16.1	16.1	19.4	20.5	103	72	75	79	64	42	33	26
24	16.2	27	18.9	19.9	91	74	77	78	63	51	33	25
25	15.9	21	18.2	19.5	86	74	80	77	62	47	31	25
26	17.3	22	18.5	18.8	91	73	79	77	60	43	32	24
27	16.5	81	17.3	19.7	95	73	81	77	61	41	32	24
28	17.1	15	19.1	19.0	85	72	83	75	57	41	32	24
29	17.5	17.9	18.9	18.7	-----	73	84	73	56	39	31	24
30	16.8	15.5	18.5	18.8	-----	75	84	72	56	38	31	23
31	16.9	-----	19.1	18.6	-----	76	-----	72	-----	38	30	-----
Month						Maximum	Minimum	Mean	Run-off in acre-feet			
October						20.5	15.9	17.5	1,080			
November						81	15	19.6	1,170			
December						24	14.2	19.0	1,170			
January						24.5	18.5	19.5	1,200			
February						1,690	18.1	157	8,720			
March						86	68	73.0	4,490			
April						84	69	75.1	4,470			
May						196	72	96.1	5,610			
June						72	56	66.2	3,940			
July						54	38	43.3	2,660			
August						39	30	33.7	2,070			
September						29	23	26.5	1,580			
The year						1,690	14.2	53.1	38,500			

MILL CREEK POWER CANAL NO. 3 AT INTAKE, NEAR FOREST HOME, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 12, T. 1 S., R. 1 W., at sand box 200 feet below diversion dam on Mill Creek, half a mile west of Forest Home.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 25 second-feet or more February 20 to August 24; minimum, 7.3 second-feet February 16.

REMARKS.—Records good except those for November 12, December 12, January 1, 19-22, September 3, and 4, which were estimated. Records computed only on days when discharge of creek is less than 25 second-feet; discharge greater than this amount February 20 to August 24.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Aug.	Sept.
1.....	14.3	13.5	10.9	13.9	13.0	-----	21
2.....	14.8	13.5	11.3	13.9	13.0	-----	20
3.....	14.3	13.0	12.1	14.3	13.0	-----	20
4.....	13.9	13.0	15.3	13.9	13.5	-----	20
5.....	13.5	13.5	15.3	13.9	12.6	-----	20
6.....	12.6	13.0	14.8	12.6	12.6	-----	20
7.....	12.6	13.0	15.3	12.6	12.6	-----	21
8.....	13.0	13.5	13.0	12.1	13.0	-----	22
9.....	13.0	13.9	13.0	12.6	13.5	-----	22
10.....	13.5	14.3	13.9	13.0	13.9	-----	21
11.....	13.5	14.3	13.5	13.0	13.9	-----	21
12.....	13.0	13.4	13.0	13.0	13.9	-----	20
13.....	13.5	12.6	12.6	12.6	14.8	-----	22
14.....	13.5	12.6	12.6	12.6	18.2	-----	21
15.....	13.5	12.6	12.1	12.1	16.8	-----	20
16.....	12.1	12.1	12.6	11.7	7.3	-----	20
17.....	12.6	12.1	13.0	11.3	12.1	-----	19.2
18.....	13.0	12.1	12.6	11.3	15.3	-----	18.7
19.....	13.5	12.1	12.1	11.4	24	-----	18.2
20.....	13.0	11.7	12.1	11.5	-----	-----	18.7
21.....	13.5	11.7	12.1	11.7	-----	-----	18.7
22.....	13.5	12.1	12.1	11.9	-----	-----	18.2
23.....	13.5	12.1	11.3	12.1	-----	-----	18.7
24.....	13.5	14.3	11.7	12.6	-----	-----	17.7
25.....	13.5	11.3	12.6	12.6	-----	23	18.2
26.....	13.5	11.3	12.6	13.0	-----	23	18.2
27.....	13.5	16.7	12.6	12.6	-----	23	18.2
28.....	13.5	12.1	13.0	12.6	-----	23	18.2
29.....	13.0	11.3	12.6	13.0	-----	22	17.7
30.....	13.5	11.3	13.5	13.0	-----	22	17.7
31.....	13.5	-----	13.9	13.0	-----	21	-----
Month	Maximum	Minimum	Mean	Run-off in acre-feet			
October.....	14.8	12.1	13.4	824			
November.....	16.7	11.3	12.8	762			
December.....	15.3	10.9	12.9	793			
January.....	14.3	11.3	12.6	775			
February 1-19.....	24	7.3	14.1	531			
August 25-31.....	23	21	22.4	311			
September.....	22	17.7	19.6	1,170			

MILL CREEK POWER CANALS NOS. 2 AND 3 NEAR CRAFTONVILLE, CALIF.

LOCATION.—In NE. $\frac{1}{4}$ 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, 1927.

EXTREMES.—1919-1927: Maximum mean daily discharge, 36 second-feet November 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. The headworks of canal No. 3 are in sec. 13, T. 1 S., R. 1 W., about 3 miles above the 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.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18.2	16.7	15.9	17.0	16.7	24	32	33	32	32	32	27
2	19.6	16.8	15.5	17.8	16.6	23	32	32	32	32	31	27
3	19.1	15.9	13.4	17.6	16.4	26	32	24	32	32	31	27
4	18.0	16.6	18.0	18.2	17.4	23	32	24	32	31	31	26
5	17.2	16.2	19.6	18.4	18.0	23	32	24	32	32	31	26
6	17.4	16.0	17.9	18.0	16.8	24	32	24	32	32	32	26
7	17.2	16.2	14.0	18.0	16.6	24	33	24	32	31	31	26
8	17.0	14.8	18.0	17.6	16.6	23	33	24	32	30	31	26
9	18.0	16.6	18.2	17.0	16.2	23	33	24	32	32	31	26
10	18.0	18.4	18.0	17.7	16.2	24	33	24	32	31	31	26
11	16.8	16.2	18.6	18.0	17.0	24	30	24	32	31	30	25
12	17.0	16.2	17.9	18.2	17.9	24	29	24	32	31	30	24
13	16.6	18.4	17.4	18.0	17.3	24	29	24	32	30	30	25
14	16.6	17.7	16.8	17.2	22	23	26	24	31	31	30	26
15	17.0	16.4	16.4	16.6	23	23	31	24	32	30	30	25
16	16.6	16.4	16.4	17.1	3.2	24	33	24	32	30	29	25
17	17.0	16.1	16.8	16.9	3.1	27	32	30	32	30	30	25
18	15.5	16.8	17.4	16.4	24	31	32	32	32	30	29	24
19	15.3	15.9	16.5	16.6	21	31	32	32	32	29	30	23
20	15.4	15.5	15.8	16.6	27	32	32	32	31	29	31	24
21	15.8	15.8	16.3	19.4	27	32	32	32	31	30	30	23
22	16.3	16.1	17.6	17.6	28	32	31	32	31	32	30	24
23	15.5	15.6	16.8	17.9	28	32	32	32	31	32	30	24
24	15.5	22	16.6	17.6	21	32	32	32	31	32	30	24
25	15.2	10.6	15.4	17.2	21	32	32	32	31	32	29	24
26	16.6	15.2	15.2	16.5	22	32	31	32	31	31	30	23
27	15.8	21	15.1	17.4	22	32	32	32	31	28	30	23
28	16.4	13.1	16.8	16.8	22	32	34	32	30	32	30	23
29	16.8	14.6	16.8	16.8	-----	31	34	32	31	31	29	23
30	15.6	14.2	16.4	16.7	-----	31	33	32	32	31	29	22
31	15.9	-----	17.0	16.5	-----	32	-----	32	-----	32	28	-----
Month						Maximum	Minimum	Mean	Run-off in acre-feet			
October						19.6	15.2	16.7	1,030			
November						22	10.6	16.2	964			
December						19.6	13.4	16.7	1,030			
January						19.4	16.4	17.4	1,070			
February						28	3.1	19.1	1,060			
March						32	23	27.4	1,630			
April						34	26	31.8	1,890			
May						33	24	28.4	1,750			
June						32	30	31.6	1,880			
July						32	28	30.9	1,900			
August						32	28	30.2	1,860			
September						27	22	24.7	1,470			
The year						34	3.1	24.3	17,600			

MILL CREEK POWER CANAL NO. 1 NEAR CRAFTONVILLE, CALIF.

LOCATION.—Water-stage recorder just above weir in NE. $\frac{1}{4}$ sec. 13, T. 1 S., R. 2 W., one-fourth mile below intake on Mill Creek, on Redlands-Bear Valley highway, 5 miles northeast of Craftonville.

RECORDS AVAILABLE.—January, 1919, to September, 1927.

REMARKS.—Records good except those for December 9, 12, 13, May 16-18, June 28, 29, August 31, September 1-4, 15-17, 23, and 25-30, which were estimated. This canal diverts water from Mill Creek in NE. $\frac{1}{4}$ 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.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	0.9	0.7	0.5	1.9	2.1	11.9	7.1	6.4	6.9	12.2	6.6	2.0
2.	.9	.6	.6	1.8	2.1	11.7	6.6	5.8	7.3	13.0	6.4	2.0
3.	.8	.6	.8	1.8	2.1	11.9	7.1	6.2	7.3	9.6	5.6	2.1
4.	.8	.6	.7	1.8	2.3	11.2	7.5	4.9	7.7	8.4	5.1	2.2
5.	.8	.7	.8	1.7	2.1	11.4	7.7	4.7	7.3	10.5	5.1	2.2
6.	.8	.7	1.0	1.5	1.9	11.2	7.7	4.7	7.5	13.8	4.9	2.2
7.	.8	.7	1.2	1.5	1.9	11.0	7.7	3.8	7.5	13.6	4.3	2.2
8.	.7	.7	1.0	1.5	1.9	11.0	7.9	5.4	7.7	12.5	3.8	2.2
9.	.7	.7	1.5	1.5	1.9	11.2	7.9	12.2	7.7	12.2	3.3	2.1
10.	.7	.7	1.5	1.5	1.9	10.7	8.4	12.2	7.7	11.7	3.1	2.1
11.	.7	.6	1.5	1.9	2.2	10.7	8.8	11.9	4.5	11.7	2.8	2.2
12.	.7	.6	1.4	1.9	2.6	10.5	8.1	11.7	3.1	11.4	3.0	2.2
13.	.7	.6	1.3	1.7	3.4	10.5	7.9	12.2	6.6	11.2	3.0	2.2
14.	.7	.6	1.2	2.1	.6	11.0	8.1	11.4	6.4	11.0	2.8	1.9
15.	.7	.6	1.5	2.3	.8	11.0	7.1	9.3	6.4	10.5	2.6	1.9
16.	.7	.5	.9	2.3	5.0	10.7	7.1	9.3	6.0	9.8	2.5	1.8
17.	.6	.5	.7	2.3	.2	10.2	6.9	9.3	5.8	9.1	2.3	1.8
18.	.6	.5	1.3	2.2	0	9.1	6.6	9.2	5.6	8.4	2.3	1.8
19.	.7	.5	2.1	1.9	0	8.6	6.6	9.1	5.4	9.1	2.5	1.8
20.	.6	.5	1.8	2.1	0	8.6	6.9	9.3	4.7	11.7	5.6	1.8
21.	.7	.5	3.0	5.1	0	8.4	7.1	8.6	4.3	10.7	4.1	1.8
22.	.6	.5	3.1	3.0	0	8.4	7.5	8.4	4.5	8.4	3.4	1.8
23.	.6	.5	2.6	2.6	0	8.4	7.9	7.9	5.4	9.3	3.0	1.6
24.	.7	.6	2.3	2.3	0	8.6	8.1	7.7	5.1	17.1	2.5	1.3
25.	.7	4.1	2.8	2.3	0	8.6	8.1	7.3	4.9	14.3	2.2	1.3
26.	.7	3.3	3.3	2.3	8.6	7.9	8.1	7.3	4.0	12.2	2.1	1.3
27.	.7	.3	2.2	2.3	15.3	7.9	7.9	6.9	7.7	12.7	2.1	1.3
28.	.7	.2	2.3	2.3	13.0	7.9	7.7	6.6	8.0	9.1	2.1	1.3
29.	.7	3.3	2.1	1.9	---	8.1	7.7	6.2	9.0	7.3	1.9	1.3
30.	1.2	1.3	2.1	2.1	---	8.4	7.1	6.2	12.5	6.6	1.9	1.3
31.	1.0	---	2.1	2.1	---	8.1	---	6.4	---	5.8	1.9	---

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.2	0.6	0.74	45.5
November	4.1	.5	.89	53.0
December	3.3	.5	1.66	101
January	5.1	1.5	2.11	130
February	15.3	0	2.57	143
March	11.9	7.9	9.83	604
April	8.8	6.6	7.56	450
May	12.2	3.8	8.02	493
June	12.5	3.1	6.43	386
July	17.1	5.8	10.8	664
August	6.6	1.9	3.33	208
September	2.2	1.3	1.83	109
The year	17.1	0	4.68	3,390

SURFACE WATER SUPPLY, 1927, PART XI

PLUNGE CREEK NEAR EAST HIGHLANDS, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ 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.

RECORDS AVAILABLE.—January, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,420 second-feet February 16 (gage height, 3.80 feet); no flow for several months during year.

1919-1927: Maximum discharge, that of February 16, 1927; no flow for several months during each year.

REMARKS.—Records good for low stages and fair for high stages. Diversions for irrigation at several points above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1.....	0	0.9	0.9	1.3	19	16	4.9	0.1
2.....	0	.3	1.0	.8	17	15	4.3	.1
3.....	0	.3	1.0	.1	25	14	3.1	.1
4.....	0	1.2	1.0	.4	34	14	2.5	.1
5.....	0	1.5	1.0	.4	32	12	2.2	.1
6.....	0	1.5	1.0	.1	27	10	1.4	.1
7.....	0	.6	.9	.1	27	9	3.4	.1
8.....	0	4.9	.9	.1	25	8.5	4.9	.1
9.....	0	2.9	.9	.1	26	8	2.4	.1
10.....	0	2.0	.8	.1	24	8.5	1.4	.1
11.....	0	1.2	1.1	.1	21	12	.9	.2
12.....	0	.9	2.0	.1	19	10	.8	.1
13.....	0	1.0	1.5	3.1	17	10	.4	.7
14.....	0	.9	1.1	148	15	10	.2	.2
15.....	0	.6	1.0	381	14	11	.2	.1
16.....	0	.5	1.0	965	14	14	.2	.1
17.....	0	.4	1.0	303	11	12	.1	.1
18.....	0	.5	.9	137	10	11	.1	.1
19.....	0	4.2	.9	77	9	10	.1	.1
20.....	0	2.2	1.0	56	8	9	.3	.1
21.....	0	3.1	10	47	8	7	.4	.1
22.....	0	6	4.9	42	7.5	6.5	.5	.1
23.....	0	2.7	3.4	34	7.5	6	.2	0
24.....	0	2.0	2.7	30	5	5.5	.3	0
25.....	0	1.7	2.4	27	3.7	4.9	.5	0
26.....	0	1.5	2.0	22	4.0	4.9	.3	0
27.....	13	1.3	1.8	21	4.0	4.9	.6	0
28.....	2.5	1.1	1.7	19	4.0	4.9	.7	0
29.....	1.6	1.1	1.6	-----	4.6	4.3	.8	0
30.....	1.2	1.1	1.5	-----	12	4.6	.5	0
31.....	-----	1.2	1.4	-----	21	-----	.2	-----

Month	Maximum	Minimum	Mean	Run off in acre-feet
November.....	13	0	0.61	36.3
December.....	6	.3	1.83	113
January.....	10	.8	1.75	108
February.....	965	.1	32.7	4,590
March.....	34	3.7	15.3	941
April.....	16	4.3	9.25	550
May.....	4.9	.1	1.25	78.9
June.....	.7	0	.10	6.0
The year.....	965	0	8.88	6,420

NOTE.—No flow in months omitted.

33

LOCATION.—Water-stage recorder in NE. ¼ sec. 10, T. 2 S., R. 3 W., 2½ miles south of Redlands.

EXTREMES.—Maximum discharge during year, about 3,000 second-feet February 16; no flow several months during year.

REMARKS.—Discharge estimated October 1 to December 23 and February 15 to September 30; based on weekly discharge measurements during later period. Except during high water the entire flow is diverted above station. Record of daily discharge furnished by State division of engineering and irrigation. Station maintained in cooperation with city of Redlands.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
1	0.2		1.0	1.1	2.0	10	4.9	2.2	
2				1.1	2.3	10	4.5	1.8	
3				1.2	2.6	7.5	4.2	1.5	
4				1.2	3.0	7	4.0	0	
5				1.3	1.5	6	3.9	0	
6				1.3	1.5	6	3.7	0	
7				1.4	1.5	6	3.5	0	
8				1.3	1.5	6	3.3	0	
9				1.3	1.5	5.5	3.1	0	
10				1.2	1.5	5.5	2.9	0	
11	0.5			1.1	1.5	5.5	2.9	0	
12				1.1	1.5	5.5	3.0	0	
13				1.0	9	5.5	3.0	0	
14				.9	150	4.8	3.1	0	
15				1.0	1,150	4.3	3.2	0	
16				1.2	1,840	3.8	3.3	0	
17				1.3	150	3.2	3.4	0	
18				1.4	1.4	15	2.8	3.4	0
19				2.0	1.5	14	2.3	3.4	0
20				2.5	1.6	12	1.8	3.3	0
21	.3			3.0	1.7	11	1.8	3.3	0
22				2.5	1.8	9.5	1.9	3.2	0
23				2.5	1.7	9.5	1.9	3.2	0
24				1.1	1.6	9.5	2.0	3.2	0
25				1.1	1.4	9.5	2.1	3.1	0
26				1.1	1.3	9.5	2.2	3.1	0
27				1.1	1.2	10	2.3	3.1	0
28				1.1	1.1	10	9	3.1	0
29				1.1	1.0		16	2.9	0
30				1.1	1.3		12	2.5	0
31		1.1	1.6		9		0		
Month	Maximum		Minimum		Mean		Run-off in acre-feet		
October					0.25		15.4		
November					.50		29.8		
December	3.0				1.30		79.9		
January	1.8		0.9		1.30		79.9		
February	1,840		1.5		123		6,830		
March	16		1.8		5.46		336		
April	4.9		2.5		3.36		200		
May	2.2		0		.18		11.1		
The year	1,840		0		10.5		7,560		

NOTE.—No flow in months omitted.

WARM CREEK NEAR COLTON, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 21, T. 1 S., R. 4 W., at Colton Avenue Highway Bridge, $1\frac{1}{4}$ miles east of Colton.

RECORDS AVAILABLE.—August, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, about 2,140 second-feet February 16 (gage height, 6.70 feet); minimum, 26 second-feet September 8. 1920-1927: Maximum discharge, 2,780 second-feet December 21, 1922; minimum, that of September 8, 1927.

REMARKS.—Records good except those for October 3-7, 9-15, July 29-31, August 1-5, 7-12, 14, 15, 17-19, 22, 24, and 25, which were interpolated. Diversion for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	34	59	60	63	84	83	81	51	34	32	34
2	42	31	59	61	61	84	79	66	53	35	32	35
3	42	34	66	61	60	102	77	45	53	36	32	35
4	41	43	66	60	74	108	75	41	51	40	32	37
5	40	43	62	60	67	97	74	50	47	37	32	36
6	39	45	62	58	65	93	72	48	47	34	32	34
7	38	46	68	56	60	90	72	55	48	34	33	30
8	38	49	109	56	57	86	70	50	47	36	34	27
9	38	47	81	56	57	83	68	45	46	36	35	29
10	39	45	67	57	58	80	94	41	48	35	36	39
11	39	48	65	61	69	77	118	37	54	34	37	45
12	40	56	66	63	71	77	81	34	53	33	38	36
13	40	55	68	60	130	76	77	37	52	35	39	37
14	41	42	67	59	450	75	74	39	50	37	37	37
15	41	43	68	61	850	74	70	40	48	37	36	37
16	42	49	69	61	1,290	73	75	51	43	37	34	37
17	42	46	68	63	278	72	75	61	43	39	36	39
18	44	41	69	64	133	71	63	58	43	39	38	39
19	45	43	69	63	90	71	61	57	45	39	40	40
20	47	41	64	68	102	71	61	61	46	42	41	38
21	48	36	73	77	103	70	60	58	47	41	31	35
22	48	35	66	63	97	69	55	55	46	41	34	34
23	48	43	66	67	94	68	57	47	45	40	37	34
24	48	71	61	65	92	68	65	45	41	39	36	34
25	46	55	61	64	90	68	75	45	41	36	35	35
26	42	53	60	65	90	68	72	43	46	34	34	34
27	42	118	60	65	86	68	81	46	45	34	33	35
28	42	59	60	63	84	66	99	50	41	32	32	35
29	41	59	60	65	-----	72	101	53	39	32	33	35
30	43	59	60	64	-----	135	97	51	34	32	34	34
31	38	-----	60	64	-----	113	-----	50	-----	32	34	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	48	38	42.1	2,590
November	118	31	49.0	2,920
December	109	39	66.4	4,080
January	77	56	62.3	3,830
February	1,290	57	172	9,550
March	135	66	80.9	4,970
April	118	55	76.0	4,520
May	81	34	49.7	3,060
June	54	34	46.4	2,760
July	42	32	36.2	2,230
August	41	31	34.8	2,140
September	45	27	35.5	2,110
The year	1,290	27	61.8	44,800

Combined daily and monthly discharge, in second-feet, of Warm Creek and Meeks & Daley Canal near Colton, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	58	48	59	60	68	84	83	88	69	51	48	48
2.....	59	46	59	61	66	84	79	76	71	62	48	50
3.....	58	49	66	61	65	102	77	60	71	64	48	50
4.....	58	59	66	60	76	108	75	56	68	57	50	51
5.....	57	59	62	60	67	97	74	64	64	55	46	50
6.....	56	61	62	58	65	93	72	62	64	52	47	46
7.....	55	62	68	56	68	90	72	69	64	51	48	42
8.....	55	59	109	56	70	86	70	63	63	62	50	41
9.....	54	60	81	56	69	83	68	58	62	62	52	44
10.....	57	61	67	57	69	80	94	54	65	51	52	48
11.....	58	64	65	61	72	77	118	50	71	51	52	55
12.....	58	66	66	63	71	77	81	47	70	49	52	47
13.....	57	64	68	62	130	76	77	50	70	52	53	48
14.....	59	58	67	61	450	75	74	54	68	54	52	48
15.....	59	60	68	63	850	74	70	56	65	54	51	48
16.....	61	64	69	63	1,290	73	75	66	60	54	50	49
17.....	60	61	68	65	278	72	75	76	58	55	52	51
18.....	62	57	69	66	133	71	63	74	60	55	53	51
19.....	63	59	69	66	90	71	61	73	61	54	50	52
20.....	65	57	64	69	102	71	61	78	61	56	52	51
21.....	66	52	73	77	103	70	60	74	63	57	44	48
22.....	65	50	66	63	97	69	59	72	63	58	48	46
23.....	65	58	66	67	94	68	57	65	61	57	51	46
24.....	65	79	61	67	92	68	65	63	59	55	50	48
25.....	63	55	61	68	90	65	75	61	58	52	50	49
26.....	59	53	60	68	90	68	72	60	63	50	49	48
27.....	59	118	60	68	86	68	81	63	62	49	48	48
28.....	59	59	60	68	84	66	106	68	58	47	47	48
29.....	57	59	60	70	-----	72	110	71	56	47	47	48
30.....	51	59	60	69	-----	135	105	69	52	48	49	47
31.....	51	-----	60	69	-----	113	-----	68	-----	48	48	-----
Month	Maximum					Minimum			Mean		Run-off in acre-feet	
October.....	66					51			59.0		3,630	
November.....	118					46			60.5		3,600	
December.....	109					59			66.4		4,060	
January.....	77					56			63.8		3,920	
February.....	1,290					65			174		9,660	
March.....	135					66			80.9		4,970	
April.....	118					57			77.0		4,580	
May.....	88					47			64.8		3,980	
June.....	71					52			63.3		3,770	
July.....	58					47			52.5		3,230	
August.....	53					44			49.6		3,050	
September.....	55					41			48.2		2,870	
The year.....	1,290					41			71.0		51,300	

STRAWBERRY CREEK NEAR ARROWHEAD SPRINGS, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 11, T. 1 N., R. 4 W., at the Del Rosa Water Co.'s diversion dam, half a mile south of Arrowhead Springs.

RECORDS AVAILABLE.—December, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, about 380 second-feet February 16 (gauge height, 4.35 feet); minimum, 0.5 second-foot August 25.

1919-1927: Maximum discharge, 408 second-feet January 2, 1922; maximum gauge height, that of February 16, 1927; minimum discharge, 0.2 second-foot several days during August, September, and October, 1925.

REMARKS.—Records good except those for October 22-24 and April 20-28, which were interpolated. Slight diversion of water for domestic use above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	1.0	1.6	1.7	2.3	9	9.5	5.5	4.0	2.3	1.3	0.6
2	1.3	1.2	1.6	1.7	2.1	8.5	8.5	5	4.0	2.0	1.3	.6
3	1.4	1.0	1.6	1.7	2.3	15	8.5	5	3.9	2.0	1.2	.6
4	1.0	.9	1.7	2.3	3.0	21	8.5	5	3.7	2.0	1.2	.6
5	1.0	1.0	1.8	2.0	2.7	19	7.5	5	3.8	1.9	1.2	.7
6	.8	.9	3.0	2.1	2.5	15	7.5	5	3.6	1.7	1.2	.7
7	.8	1.0	7.5	2.1	2.4	13	7	7	3.5	1.4	1.2	.8
8	.8	1.0	8.5	2.0	2.3	12	7.5	6.5	3.1	1.5	1.0	.7
9	1.0	1.1	6.5	1.9	2.3	14	7	5.5	3.2	1.5	.8	.8
10	1.2	1.0	4.2	2.0	2.3	13	8	5.5	4.0	1.6	.8	.8
11	1.0	1.1	3.9	2.3	2.4	12	9	4.9	4.4	1.5	.8	.8
12	1.2	1.4	3.5	2.1	2.5	11	9	4.2	4.1	1.5	.8	.8
13	.9	1.9	3.4	2.1	4.7	10	8.5	3.9	3.6	1.6	.8	1.0
14	.9	1.5	3.0	2.1	37	10	8.5	3.8	3.4	1.5	.8	1.0
15	1.0	1.4	2.8	2.1	100	10	9	3.7	3.2	1.6	.8	1.1
16	1.0	1.5	2.5	2.0	265	9.5	10	3.5	2.6	1.6	.6	1.3
17	1.0	1.2	2.5	2.0	96	9.5	9.5	3.7	2.7	1.5	.7	1.2
18	1.3	1.3	2.3	2.1	46	9.5	8.5	3.6	3.0	1.3	.6	1.2
19	1.3	1.3	2.6	1.9	24	8.5	8.5	4.1	3.2	1.5	.6	1.0
20	1.4	1.4	2.3	2.7	18	8.5	8.5	4.9	3.1	1.6	.6	.8
21	1.6	1.4	4.2	7.5	14	8	8	4.6	3.2	1.4	.8	1.0
22	1.4	1.4	4.5	4.0	14	8	8	4.3	2.7	1.2	.7	.8
23	1.2	1.6	3.3	3.4	14	7	7.5	3.8	2.3	1.3	.6	.8
24	1.1	3.0	2.8	3.1	13	7.5	7	3.7	2.0	1.4	.6	.8
25	1.0	2.5	2.5	3.1	12	7	7	3.4	2.0	1.3	.5	1.1
26	1.2	2.3	2.4	2.8	12	7.5	6.5	3.6	2.5	1.3	.6	1.1
27	.9	6.5	2.3	2.7	11	7.5	6	3.9	2.2	1.4	.6	.9
28	1.0	2.4	2.4	2.6	10	7.5	6	4.1	2.5	1.2	.6	.8
29	1.1	1.9	2.1	2.5	-----	8	5.5	3.9	2.3	1.3	.8	1.0
30	1.2	1.9	1.8	2.3	-----	10	5.5	3.6	2.1	1.3	.7	1.1
31	1.0	-----	1.8	2.3	-----	12	-----	3.9	-----	1.3	.8	-----
Month						Maximum	Minimum	Mean	Run-off in acre-feet			
October						1.6	0.8	1.09	67.0			
November						6.5	.9	1.63	97.0			
December						8.5	1.6	3.13	192			
January						7.5	1.7	2.49	153			
February						265	2.1	25.7	1,430			
March						21	7	10.6	652			
April						10	5.5	7.85	467			
May						7	3.4	4.45	274			
June						4.4	2.0	3.13	186			
July						2.3	1.2	1.53	94.1			
August						1.3	.5	.83	51.0			
September						1.3	.6	.88	52.4			
The year						265	.5	5.13	3,720			

WATERMAN CANYON CREEK NEAR ARROWHEAD SPRINGS, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 2, T. 1 N., R. 4 W., 600 feet above old toll house and 1 mile northwest of Arrowhead Springs.

DRAINAGE AREA.—4.55 square miles.

RECORDS AVAILABLE.—November, 1911, to October, 1914; December, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, 87 second-feet February 16 (gage height, 4.0 feet); minimum, 0.1 second-foot part of October and November.

1911-1914, 1920-1927: Maximum discharge, 164 second-feet January 2, 1922; no flow part of July to October, 1924, August and September, 1925, and August and September, 1926.

REMARKS.—Records good except those for December 8-13 and April 16-28, which were estimated. Small diversion for domestic use above station. Slight regulation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.5	1.0	1.2	7.5	6	3.7	2.4	0.5	0.3	0.2
2	.1	.1	.5	1.0	1.2	7.5	5.5	3.7	2.5	.4	.3	.2
3	.1	.1	.6	1.0	1.2	13	5	3.5	2.4	.3	.3	.2
4	.1	.1	.7	1.0	2.1	15	4.9	3.4	2.3	.3	.3	.2
5	.1	.1	.7	1.0	1.7	13	4.7	3.7	2.2	.2	.3	.2
6	.1	.1	1.6	1.0	1.5	12	4.6	3.8	2.1	.2	.3	.2
7	.1	.1	2.3	1.1	1.4	11	4.4	5	1.9	.3	.3	.3
8	.1	.1	3.2	1.0	1.3	10	4.2	4.6	1.9	.3	.2	.3
9	.1	.1	2.7	1.0	1.3	12	4.2	4.4	2.0	.3	.2	.3
10	.1	.1	2.3	1.2	1.2	10	4.5	4.1	2.4	.3	.2	.3
11	.1	.1	1.9	1.3	1.4	10	5.5	3.8	2.6	.4	.2	.2
12	.1	.2	1.6	1.1	1.5	9	5	3.6	2.4	.4	.2	.3
13	.1	.5	1.2	1.1	2.7	8.5	5	3.3	2.1	.4	.2	.5
14	.1	.4	1.2	1.1	20	8.5	5	3.3	1.9	.5	.2	.6
15	.1	.3	1.0	1.0	32	8	5	3.2	1.5	.6	.2	.5
16	.1	.3	1.0	1.1	65	7.5	4.9	3.0	1.4	.6	.2	.6
17	.1	.4	.8	1.1	55	7.5	4.8	2.9	1.4	.5	.2	.5
18	.1	.2	1.0	1.1	32	7	4.7	2.9	1.5	.4	.2	.4
19	.1	.2	1.2	1.0	23	6.5	4.6	3.3	1.5	.5	.2	.3
20	.2	.2	1.0	2.1	19	6.5	4.5	3.7	1.4	.6	.2	.3
21	.3	.2	1.8	4.0	16	6	4.4	3.3	1.3	.5	.2	.2
22	.2	.2	1.8	2.3	15	6	4.3	3.0	1.2	.4	.3	.2
23	.2	.2	1.5	1.9	13	5.5	4.2	2.7	1.0	.4	.3	.2
24	.1	1.1	1.4	1.7	12	5.5	4.1	2.6	1.0	.4	.2	.3
25	.1	.7	1.3	1.6	10	5.5	4.0	2.5	.9	.4	.2	.4
26	.1	.8	1.2	1.5	9.5	5.5	3.9	2.6	.8	.4	.2	.3
27	.1	2.6	1.1	1.3	9	5.5	3.8	2.8	.7	.4	.2	.2
28	.1	1.0	1.1	1.3	8	5	3.7	2.8	.7	.4	.2	.2
29	.1	.7	1.0	1.3	-----	5.5	3.6	2.6	.6	.4	.3	.3
30	.2	.5	1.0	1.3	-----	6.5	3.6	2.6	.5	.4	.3	.2
31	.2	-----	1.0	1.2	-----	7.5	-----	2.6	-----	.3	.2	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.3	0.1	0.12	7.4
November	.1	.1	.39	23.2
December	3.2	.5	1.33	81.8
January	4.0	1.0	1.35	83.0
February	65	1.2	12.8	711
March	15	.5	8.19	504
April	6	3.6	4.55	271
May	5	2.5	3.32	204
June	2.6	.5	1.62	96.4
July	.6	.2	.40	24.6
August	.3	.2	.24	14.8
September	.6	.2	.30	17.9
The year	65	.1	2.82	2,040

SURFACE WATER SUPPLY, 1927, PART XI

CITY CREEK NEAR HIGHLAND, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 27, T. 1 N., R. 3 W., $\frac{1}{4}$ miles northeast of Highland.

RECORDS AVAILABLE.—October, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,930 second-feet February 16 (gage height, 9.8 feet); no flow for several months.

1919-1927: Maximum discharge, 2,360 second-feet April 5, 1926; maximum gage height, that of February 16, 1927; no flow for several months during each year except 1923.

REMARKS.—Records good except those for extremely high stages, which are fair. Diversion above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1.....	0	3.8	5.5	3.0	25	31	8	1.6	0.4
2.....	0	3.6	5.5	2.4	24	26	6	1.8	.3
3.....	0	3.8	5	1.7	40	26	6	1.9	.2
4.....	0	4.4	5	4.2	51	24	5.5	1.9	.1
5.....	0	5.5	4.2	6.5	45	21	6	2.1	.1
6.....	0	7	3.8	5	41	20	8	2.2	.1
7.....	0	15	4.6	4.0	36	20	19	2.2	.1
8.....	0	13	4.2	3.8	34	22	22	1.9	.1
9.....	0	11	4.2	3.8	38	21	18	1.0	.1
10.....	0	7.5	4.9	4.6	35	23	8.5	1.5	.1
11.....	0	6.5	6	5.5	31	28	4.8	3.9	0
12.....	0	6	6.5	7	29	25	3.9	2.7	0
13.....	0	6.5	5.5	23	27	27	2.9	1.9	0
14.....	0	5.5	5	268	26	26	2.9	2.7	0
15.....	0	5	4.9	628	24	25	2.7	1.5	0
16.....	0	4.6	4.6	1,200	23	29	2.7	.8	0
17.....	0	4.4	4.6	365	21	26	2.6	.7	0
18.....	0	4.6	4.6	191	20	24	2.7	.8	0
19.....	0	7.5	4.4	116	18	26	3.5	.8	0
20.....	-----	5	5.5	76	14	22	5.5	.8	0
21.....	0	10	19	59	12	19	4.8	.7	0
22.....	0	14	8	50	11	13	2.6	.6	0
23.....	0	8.5	7.5	44	10	12	2.2	.6	0
24.....	3.3	8.5	6.5	40	10	12	2.4	.5	0
25.....	6	8.5	6	35	8.5	10	2.1	.5	0
26.....	4.4	7.5	5.5	34	10	10	1.8	.5	0
27.....	26	7	5.5	30	10	10	1.8	.5	0
28.....	6.5	6.5	4.9	27	11	9	1.9	.5	0
29.....	4.4	6	4.6	-----	14	10	1.5	.5	0
30.....	4.2	6	4.2	-----	31	10	1.4	.4	0
31.....	-----	6	3.2	-----	40	-----	1.5	-----	0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November.....	26	0	1.83	109
December.....	15	3.6	7.05	433
January.....	19	3.2	5.59	344
February.....	1,200	1.7	115	6,390
March.....	51	8.5	24.3	1,520
April.....	31	9	20.2	1,200
May.....	22	1.4	5.33	328
June.....	3.9	.4	1.33	79.1
July.....	.4	0	.05	3.1
The year.....	1,200	0	14.4	10,400

NOTE.—No flow in months omitted.

CITY CREEK WATER CO.'S CANAL NEAR HIGHLAND, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 28, T. 1 N., R. 3 W., 1 mile northeast of Highland.

RECORDS AVAILABLE.—May, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 10 second-feet May 30; canal dry for several periods at various times.

1924-1927: Maximum discharge, that of May 30, 1927.

REMARKS.—Records good. This canal diverts water from City Creek half a mile above gage. At times water is pumped from the canal above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Jan.	Feb.	Apr.	May	June	July	Aug.	Sept.
1.....	2.2	2.4	0	0	0	5.2	9.1	6.2	3.4	2.2
2.....	2.4	2.5	0	0	0	5.2	8.9	6.2	3.6	2.2
3.....	2.6	2.4	0	0	0	5.2	8.7	6.2	3.4	2.2
4.....	2.1	2.4	0	5	0	5.2	8.7	6.2	3.2	2.1
5.....	1.8	2.4	0	0	0	5.2	7.6	6.2	3.2	2.0
6.....	1.8	2.4	2	0	0	5.2	7.4	5.8	3.7	1.8
7.....	1.8	2.4	0	0	0	0	7.6	5.6	3.4	1.9
8.....	2.0	2.1	0	0	0	0	8.0	5.4	2.9	2.2
9.....	2.0	2.2	0	0	0	0	8.7	5.4	2.7	2.2
10.....	2.2	2.4	0	0	0	0	8.3	5.0	2.4	2.2
11.....	2.4	2.6	0	0	0	0	7.8	4.6	2.4	2.2
12.....	2.0	3.3	0	0	0	0	7.4	4.5	2.7	2.5
13.....	2.0	5.3	0	0	0	3.7	7.4	4.5	2.7	2.8
14.....	1.8	3.4	0	0	0	7.4	7.8	4.8	2.6	3.1
15.....	2.0	3.2	0	0	0	7.6	8.3	4.8	2.4	2.9
16.....	1.8	2.7	0	0	0	7.8	8.5	4.6	2.4	2.9
17.....	1.8	2.5	0	0	0	7.6	8.5	4.3	2.6	3.2
18.....	2.0	2.6	0	0	0	7.8	8.5	4.1	2.7	2.8
19.....	2.2	2.7	0	0	0	7.8	8.3	4.3	2.6	2.7
20.....	2.5	2.6	0	0	0	8.3	8.3	4.8	2.6	2.4
21.....	2.7	3.0	0	0	0	9.1	7.6	4.5	2.7	2.3
22.....	2.7	3.0	0	0	0	8.9	7.2	4.1	2.6	2.2
23.....	2.7	3.0	0	0	0	8.7	6.8	3.7	2.4	2.2
24.....	2.4	2.4	0	0	0	8.7	6.8	3.6	2.3	2.2
25.....	2.0	0	0	0	0	8.7	6.6	3.6	2.3	2.4
26.....	2.0	0	0	0	0	8.3	6.2	3.4	2.2	2.4
27.....	1.8	0	0	0	0	7.2	6.0	3.6	2.3	2.2
28.....	1.8	0	0	0	0	7.4	6.2	3.4	2.3	2.4
29.....	2.0	0	0	-----	5.2	8.9	6.2	3.2	2.4	2.2
30.....	2.1	0	0	-----	5.2	9.8	5.8	3.2	2.4	2.2
31.....	2.4	-----	0	-----	-----	9.4	-----	3.4	2.3	-----
Month	Maximum				Minimum		Mean		Run-off in acre-feet	
October.....	2.7				1.8		2.13		131	
November.....	5.3				0		2.20		131	
January.....	.2				0		.01		.4	
February.....	.7				0		.04		2.2	
April.....	5.2				0		.35		20.8	
May.....	9.8				0		5.95		366	
June.....	9.1				5.8		7.64		455	
July.....	6.2				3.2		4.62		284	
August.....	3.7				2.2		2.70		166	
September.....	3.2				1.8		2.37		141	
The year.....	9.8				0		2.34		1,700	

NOTE.—No flow in months omitted.

DEVIL CANYON CREEK NEAR SAN BERNARDINO, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 6, T. 1 N., R. 4 W., 7.3 miles northwest of San Bernardino.

DRAINAGE AREA.—6.16 square miles.

RECORDS AVAILABLE.—November, 1911, to October, 1914; December, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, 182 second-feet February 16 (gage height, 3.55 feet); stream practically dry October 1 to November 26.

1919-1927: Maximum discharge, 220 second-feet April 7, 1926 (gage height, 3.75 feet); stream practically dry September 27 and 28, 1921, and several months during summers of 1924, 1925, and 1926.

REMARKS.—Records fair. Water diverted above gage by city of San Bernardino and spread over canyon floor to increase absorption.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1.....	0	0.1	0.1	0.7	9	7	4.7	0.3
2.....	0	.1	.1	.6	8.5	6.5	4.7	.2
3.....	0	.1	.1	.6	13	6.5	4.4	.2
4.....	0	.1	.1	1.1	14	6.5	3.9	.2
5.....	0	.1	.1	1.3	14	6	3.9	.2
6.....	0	.5	.1	.8	14	6	3.6	.2
7.....	0	2.9	.1	.6	12	6	4.1	.2
8.....	0	4.0	.1	.5	11	6	4.4	.2
9.....	0	5.5	.1	.5	12	6	4.1	.2
10.....	0	2.5	.1	.5	11	6.5	3.9	.2
11.....	0	1.4	.2	.5	10	6.5	3.4	.2
12.....	0	1.1	.2	.5	9.5	6.5	3.3	.2
13.....	0	1.0	.2	2.1	9	6	3.1	.2
14.....	0	.8	.2	40	8.5	6	2.9	.2
15.....	0	.5	.2	64	8	6	2.1	.2
16.....	0	.5	.2	110	8	6.5	1.0	.2
17.....	0	.3	.2	56	8	6.5	.4	.2
18.....	0	.3	.2	42	7.5	6.5	.4	.2
19.....	0	.4	.2	29	7.5	6.5	.4	.2
20.....	0	.3	.9	21	7	6.5	.5	.2
21.....	0	.9	7.5	15	6.5	6	.4	.2
22.....	0	1.9	3.3	12	6	5.5	.3	.1
23.....	0	.9	2.4	12	6	5.5	.3	.1
24.....	0	.7	1.9	12	6	5	.3	.1
25.....	0	.5	1.6	11	6	5	.3	.1
26.....	0	.5	1.4	9.5	6	5	.3	.1
27.....	1.8	.4	1.4	9.5	6	5	.3	.1
28.....	.2	.4	1.1	9	6	5	.3	.1
29.....	.1	.3	1.0	-----	6	5	.3	.1
30.....	.1	.3	.9	-----	7	5	.3	.1
31.....	-----	.2	.9	-----	7	-----	.3	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November.....	1.8	0	0.07	4.2
December.....	5.5	.1	.95	58.4
January.....	7.5	.1	.87	53.5
February.....	110	.5	16.5	916
March.....	14	6	8.71	536
April.....	7	5	5.95	354
May.....	4.7	.3	2.02	124
June.....	.3	.1	.17	10.1
July.....	-----	-----	*.10	6.1
August.....	-----	-----	*.10	6.1
September.....	-----	-----	*.10	6.0
The year.....	110	0	2.87	2,070

* Estimated.

NOTE.—No flow in October.

LYTLE CREEK AND FONTANA PIPE LINE NEAR FONTANA, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ sec. 6, T. 1 N., R. 5. W, unsurveyed, one-fourth mile below Lytle Creek power plant of Southern California Edison Co. and $7\frac{1}{2}$ miles north of Fontana.

RECORDS AVAILABLE.—October, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, about 5,300 second-feet February 16, determined by slope-area method (gage height, 5.40 feet); no flow during part of year.

REMARKS.—Records good except those for extremely high water, which are fair. Water is diverted about 3 miles above gage for the Lytle Creek power plant. This water is then carried directly across the creek by a siphon to the head-works of the Fontana pipe line which serves the Fontana power plant. Records of daily discharge of Fontana pipe line, determined from kilowatt output of power plant, furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, of Lytle Creek near Fontana, Calif., 1926-27

Day	Dec.	Feb.	Mar.	Apr.	Day	Dec.	Feb.	Mar.	Apr.
1.....	0	0	27	5	16.....	0	1,350	16	1.9
2.....	0	0	22	5	17.....	0	250	22	0
3.....	0	0	39	5	18.....	0	160	27	0
4.....	0	0	38	4.9	19.....	0	95	18	0
5.....	0	0	31	4.9	20.....	0	95	12	0
6.....	0	0	28	4.9	21.....	1.0	75	11	0
7.....	0	0	22	20	22.....	0	61	8.5	0
8.....	0	0	22	5	23.....	0	36	6.5	0
9.....	0	0	24	5	24.....	0	33	6.5	0
10.....	0	0	18	5	25.....	0	31	6.5	0
11.....	0	0	16	5	26.....	0	31	6.5	0
12.....	0	0	15	5	27.....	0	31	6.5	0
13.....	0	0	14	5	28.....	0	29	6.5	0
14.....	0	70	12	5	29.....	0		6	0
15.....	0	630	14	4.3	30.....	0		6	0
					31.....	0		6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
December.....	1.0	0	0.03	1.8
February.....	1,350	0	108	5,300
March.....	39	6	16.6	1,020
April.....	20	0	3.03	180
The year.....	1,350	0	9.81	7,090

NOTE.—No flow in creek Oct. 1 to Dec. 20, Dec. 22 to Feb. 13, and Apr. 17 to Sept. 30.

Daily and monthly discharge, in second-feet, of Fontana pipe line near Fontana, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	26	26	25	22	20	56	44	42	37	48	51	43.
2.....	26	26	25	21	20	56	43	42	36	47	51	42
3.....	26	26	25	21	20	57	44	41	37	47	50	42
4.....	26	26	25	20	24	56	43	42	36	45	50	42
5.....	26	26	24	21	23	56	44	42	36	46	50	42
6.....	26	25	24	22	22	55	44	42	36	46	49	41
7.....	26	25	26	23	22	54	44	45	36	48	48	42
8.....	26	26	33	23	22	55	43	43	37	49	48	41
9.....	27	26	30	22	21	56	43	42	37	50	48	41
10.....	25	26	25	23	22	56	43	42	38	50	48	41
11.....	25	26	25	22	23	56	48	40	40	51	47	41
12.....	25	26	25	23	22	56	46	40	40	51	47	41
13.....	25	25	25	22	25	56	44	40	39	51	47	41
14.....	25	24	25	22	50	56	42	38	39	52	46	40
15.....	25	25	25	21	35	54	41	37	40	51	46	42
16.....	25	26	25	21	24	52	45	37	40	51	46	40
17.....	24	26	25	21	37	46	48	36	40	51	47	40
18.....	24	26	25	22	48	41	50	36	42	50	46	39
19.....	24	26	25	21	50	43	50	37	42	51	46	39
20.....	26	26	24	22	52	43	48	37	43	51	46	39
21.....	26	26	24	24	49	43	47	36	43	52	44	37
22.....	26	25	24	23	49	43	46	36	42	50	45	37
23.....	26	26	24	22	57	42	44	35	43	50	45	37
24.....	26	33	24	22	57	42	44	34	43	50	45	37
25.....	26	25	24	21	55	42	45	33	45	51	45	37
26.....	26	39	24	22	54	42	45	34	46	51	45	37
27.....	26	27	25	20	56	43	46	34	46	50	44	37
28.....	26	25	24	18	56	42	45	34	46	50	44	37
29.....	26	25	24	20	-----	43	43	34	47	50	44	37
30.....	26	25	24	20	-----	46	43	33	48	50	44	37
31.....	26	-----	22	20	-----	45	-----	35	-----	50	44	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	27	24	25.6	1,570
November.....	39	24	26.3	1,550
December.....	33	22	25.0	1,540
January.....	24	18	21.5	1,320
February.....	57	20	36.2	2,010
March.....	57	41	49.5	3,040
April.....	50	41	44.8	2,670
May.....	45	33	38.0	2,340
June.....	48	36	40.7	2,420
July.....	52	45	49.7	3,060
August.....	51	44	46.6	2,870
September.....	43	37	39.6	2,360
The year.....	57	18	37.0	26,800

Combined daily and monthly discharge, in second-feet, of Lytle Creek and Fontana pipe line near Fontana, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	26	25	22	20	83	49	42	37	48	51	43
2	26	26	25	21	20	78	48	42	36	47	51	42
3	26	26	25	21	20	96	49	41	37	47	50	42
4	26	26	25	20	24	94	48	42	36	45	50	42
5	26	26	24	21	23	87	49	42	36	46	50	42
6	26	25	24	22	22	83	49	42	36	46	49	41
7	26	25	26	23	22	76	64	45	36	48	48	42
8	26	26	33	23	22	77	48	43	37	49	48	41
9	27	26	30	22	21	80	48	42	37	50	48	41
10	25	26	25	23	22	74	48	42	38	50	48	41
11	25	26	25	22	23	72	53	40	40	51	47	41
12	25	26	25	23	22	71	51	40	40	51	47	41
13	25	25	25	22	25	70	49	40	39	51	47	41
14	25	24	25	22	120	68	47	38	39	52	46	40
15	25	25	25	21	665	68	45	37	40	51	46	42
16	25	26	25	21	1,370	68	47	37	40	51	46	40
17	24	26	25	21	287	68	48	36	40	51	47	40
18	24	26	25	22	208	68	50	36	42	50	46	39
19	24	26	25	21	145	61	50	37	42	51	46	39
20	26	26	24	22	147	55	48	37	43	51	46	39
21	26	26	25	24	124	54	47	36	43	52	44	37
22	26	25	24	23	110	52	46	36	42	50	45	37
23	26	26	24	22	93	48	44	35	43	50	45	37
24	26	33	24	22	90	48	44	34	43	50	45	37
25	26	25	24	21	86	48	45	33	45	51	45	37
26	26	39	24	22	85	48	45	34	46	51	45	37
27	26	27	25	20	87	50	46	34	46	50	44	37
28	26	25	24	18	85	48	45	34	46	50	44	37
29	26	25	24	20	-----	49	43	34	47	50	44	37
30	26	25	24	20	-----	52	43	33	48	50	44	37
31	26	-----	22	20	-----	51	-----	35	-----	50	44	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	27	24	25.6	1,570
November	39	24	26.3	1,560
December	33	22	25.0	1,540
January	24	18	21.5	1,320
February	1,370	20	142	7,890
March	96	48	66.0	4,000
April	64	43	47.9	2,850
May	45	33	38.0	2,340
June	48	36	40.7	2,420
July	52	45	49.7	3,060
August	51	44	46.6	2,870
September	43	37	39.6	2,360
The year	1,370	18	46.8	33,800

SURFACE WATER SUPPLY, 1927, PART XI

CAJON CREEK NEAR KEENBROOK, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 12, T. 2 N., R. 6 W., 300 feet above mouth of Lone Pine Creek and 1 mile north of Keenbrook.

RECORDS AVAILABLE.—December, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, about 950 second-feet February 15 (gage height, 5.45 feet); minimum, 1.3 second-feet August 9 (gage height, 1.35 feet).

1919-1927: Maximum discharge, about 5,000 second-feet December 20, 1921 (gage height, 9.0 feet); minimum, 0.05 second-foot June 25, 1920 (gage height, 1.05 feet).

REMARKS.—Records good except those for extremely high water, which are fair. Discharge estimated December 24-28, April 3-9, and 12-25. No diversions or regulation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1.8	1.7	1.9	2.9	2.5	12	10	4.9	3.2	2.4	1.6	1.4
2.....	1.8	1.7	2.0	2.9	2.5	12	10	4.8	3.0	2.4	1.6	1.6
3.....	1.8	1.8	2.4	2.9	2.7	39	9	4.7	3.2	2.4	1.6	1.6
4.....	1.7	1.8	2.4	2.9	5.5	26	9	4.7	3.2	2.4	1.8	1.6
5.....	1.7	1.8	2.4	3.0	4.1	20	9	4.5	3.2	2.2	1.9	1.6
6.....	1.7	1.8	2.5	3.0	3.6	18	8	4.9	3.2	2.4	1.9	1.6
7.....	1.7	1.8	3.0	3.2	3.6	15	8	5	3.2	2.4	1.8	1.4
8.....	1.8	1.8	12	2.9	3.4	14	7	5	3.0	2.2	1.4	1.4
9.....	2.0	1.8	35	2.7	3.4	14	7	4.7	3.2	2.2	1.3	1.4
10.....	2.0	2.0	11	2.7	3.6	12	13	4.7	3.4	2.0	1.4	1.4
11.....	1.8	2.0	6.5	2.7	3.8	12	17	4.1	3.4	1.9	1.6	1.4
12.....	1.7	2.0	5.5	2.7	3.9	11	14	3.6	3.4	1.9	1.6	1.4
13.....	1.7	2.0	4.1	2.7	21	11	13	3.0	3.4	1.9	1.6	1.6
14.....	1.7	1.8	3.6	2.7	163	10	12	2.9	3.0	1.8	1.8	1.6
15.....	1.7	1.8	3.0	2.5	227	10	11	2.5	2.9	1.8	1.8	1.6
16.....	1.7	1.8	3.0	2.4	369	9.5	10	3.2	2.7	1.8	1.8	1.6
17.....	1.5	1.8	3.0	2.5	90	10	9	3.8	2.7	1.8	1.8	1.6
18.....	1.5	1.8	3.2	2.5	54	9.5	9	3.9	2.7	1.4	1.8	1.8
19.....	1.7	1.8	3.2	2.5	38	9.5	8	4.1	2.7	1.4	1.8	1.8
20.....	1.8	1.8	3.2	2.9	31	9	8	4.3	2.7	1.6	1.8	1.6
21.....	2.0	1.8	4.7	3.8	32	9	7	4.1	2.5	1.6	1.8	1.6
22.....	2.0	1.8	3.9	3.4	26	8.5	7	4.1	2.7	1.4	1.8	1.6
23.....	2.0	1.8	3.6	3.0	23	8.5	6	3.9	2.7	1.4	1.8	1.6
24.....	1.8	3.0	3.6	2.9	20	8.5	6	3.6	2.5	1.4	1.8	1.6
25.....	1.8	2.0	3.5	2.7	17	9	6	3.2	2.5	1.4	1.8	1.6
26.....	1.8	12	3.4	2.7	16	9.5	5.5	3.4	2.5	1.6	1.8	1.6
27.....	1.7	9.5	3.4	2.5	14	9.5	5.5	3.4	2.5	1.4	1.8	1.6
28.....	1.7	3.0	3.3	2.5	13	9.5	5.5	3.4	2.7	1.6	1.8	1.4
29.....	1.8	2.5	3.2	2.5	-----	10	5.5	3.2	2.5	1.6	1.8	1.6
30.....	1.8	2.0	3.0	2.5	-----	11	4.9	3.4	2.5	1.6	1.8	1.4
31.....	1.7	-----	2.9	2.5	-----	10	-----	3.4	-----	1.6	1.8	-----
Month					Maximum	Minimum	Mean	Run-off in acre-feet				
October.....					2.0	1.5	1.77	109				
November.....					12	1.7	2.53	151				
December.....					35	1.9	4.88	300				
January.....					3.8	2.4	2.78	171				
February.....					369	2.5	42.7	2,370				
March.....					39	8.5	12.5	769				
April.....					17	4.9	8.66	515				
May.....					5	2.5	3.95	243				
June.....					3.4	2.5	2.90	173				
July.....					2.4	1.4	1.84	113				
August.....					1.9	1.3	1.73	106				
September.....					1.8	1.4	1.55	92.2				
The year.....					369	1.3	7.06	5,110				

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LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 12, T. 2 N., R. 6 W., 50 feet above Atchison, Topeka & Santa Fe Railway bridge and 1 mile north of Keenbrook.

EXTREMES.—Maximum discharge during year, about 70 second-feet February 15 (gauge height, 4.0 feet); minimum, 0.1 second-foot at times during year.

1919-1927: Maximum discharge, about 810 second-foot December 19, 1922 (gage height, 4.1 feet); minimum, 0.1 second-foot at times during 1926 and 1927.

REMARKS.—Records fair. Discharge interpolated between discharge measurements November 28 to February 12 and February 17 to May 15. No diversions or regulation above station.

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.2	0.2	0.2	0.5	0.7	0.4	0.4	0.3	0.2	0.1
2	.1	.1	.1	.2	.2	.5	.7	.4	.4	.3	.2	.1
3	.1	.1	.1	.2	.2	.8	.6	.4	.4	.3	.2	.2
4	.1	.1	.1	.2	.3	.5	.6	.4	.4	.3	.2	.2
5	.1	.1	.1	.2	.3	.4	.5	.4	.4	.3	.2	.2
6	.1	.1	.1	.2	.3	.4	.5	.4	.3	.3	.2	.2
7	.1	.1	.1	.2	.2	.4	.4	.4	.3	.3	.2	.2
8	.1	.1	.1	.2	.2	.4	.4	.4	.3	.3	.2	.2
9	.1	.1	.1	.2	.1	.5	.4	.4	.3	.3	.2	.2
10	.1	.1	.1	.2	.1	.6	.4	.4	.3	.3	.2	.2
11	.1	.1	.1	.2	.1	.5	.5	.4	.4	.3	.2	.2
12	.1	.1	.1	.2	.1	.5	.5	.4	.4	.3	.2	.2
13	.1	.1	.2	.2	2.5	.5	.5	.4	.4	.3	.2	.2
14	.1	.1	.2	.1	16	.4	.5	.4	.3	.3	.2	.2
15	.1	.1	.2	.1	16	.4	.4	.4	.3	.3	.2	.2
16	.1	.1	.2	.1	22	.5	.4	.4	.3	.3	.2	.2
17	.1	.1	.2	.1	3.0	.5	.4	.4	.3	.2	.2	.2
18	.1	.1	.2	.1	2.0	.5	.4	.4	.3	.2	.2	.2
19	.1	.1	.2	.1	1.5	.5	.4	.5	.3	.2	.2	.2
20	.1	.1	.2	.1	1.5	.5	.4	.5	.3	.2	.2	.2
21	.1	.1	.2	.2	1.0	.5	.4	.5	.3	.2	.2	.2
22	.1	.1	.2	.2	1.0	.5	.4	.5	.3	.2	.2	.2
23	.1	.1	.2	.2	.5	.5	.4	.4	.2	.2	.2	.1
24	.1	.7	.2	.2	.5	.5	.4	.4	.2	.2	.2	.1
25	.1	.3	.2	.2	.5	.5	.4	.4	.2	.2	.2	.1
26	.1	4.3	.2	.1	.5	.6	.4	.4	.2	.2	.2	.1
27	.1	1.9	.2	.1	.5	.7	.4	.4	.3	.2	.2	.1
28	.1	.2	.2	.1	.5	.7	.4	.4	.3	.2	.2	.1
29	.1	.2	.2	.2		.7	.4	.4	.3	.2	.2	.1
30	.1	.2	.2	.2		.7	.4	.4	.3	.2	.2	.1
31	.1		.2	.2		.7		.4		.2	.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.1	0.1	0.10	6.1
November	4.3	.1	.34	20.2
December	.2	.1	.16	9.8
January	.2	.1	.17	10.5
February	22	.1	2.56	142
March	.8	.4	.53	32.6
April	.7	.4	.45	26.8
May	.5	.4	.41	25.2
June	.4	.2	.31	18.4
July	.3	.2	.25	15.4
August	.2	.2	.20	12.3
September	.2	.1	.17	10.1
The year	22	.1	.46	329

SURFACE WATER SUPPLY, 1927, PART XI

MEEKS & DALEY CANAL NEAR COLTON, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ 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, 1927.

EXTREMES.—Maximum mean daily discharge during year, 18.7 second-feet October 16; no flow at times.

1920-1927: Maximum mean daily discharge, 21 second-feet June 16 and July 6, 1926; no flow at times each year.

REMARKS.—Records good except for estimated periods. This canal diverts from right bank of Warm Creek $1\frac{1}{2}$ miles northeast of Colton. Water is used for irrigation in vicinity of Colton.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Jan.	Feb.	Apr.	May	June	July	Aug.	Sept.
1	16.1	13.7	0	4.7	0	7.2	*17.6	17.0	15.8	13.8
2	16.7	15.4	0	4.6	0	10.2	*17.6	17.2	15.7	15.3
3	16.4	15.3	0	4.6	0	14.8	*17.6	17.6	16.1	15.4
4	17.1	16.4	0	2.1	0	14.8	*17.5	17.2	17.6	14.4
5	16.8	16.1	0	.1	0	14.2	*17.5	18.3	13.7	13.5
6	16.8	16.4	0	0	0	14.1	17.5	18.0	15.2	11.5
7	17.0	16.1	0	7.9	0	14.4	15.5	17.2	15.4	12.1
8	17.0	9.6	0	12.7	0	12.7	16.3	15.9	15.5	14.1
9	15.5	13.3	0	12.2	0	12.8	16.4	15.8	17.0	15.3
10	17.8	16.4	0	10.6	0	13.2	17.0	16.4	*16.1	9.0
11	18.5	16.2	0	3.3	0	13.2	17.0	16.6	*15.2	9.8
12	17.6	8.7	0	.0	0	13.2	17.4	16.1	*14.4	10.7
13	17.2	9.2	2.4	.1	0	13.3	18.1	17.1	13.6	11.3
14	18.4	16.2	2.3	.2	0	15.0	18.5	17.1	14.8	11.3
15	18.4	16.7	2.3	.2	0	15.9	17.2	17.2	15.0	10.8
16	18.7	15.4	2.3	.2	0	14.8	17.2	17.2	16.2	11.8
17	17.5	15.2	1.6	0	0	14.9	15.3	16.4	16.1	12.1
18	17.9	15.8	1.5	0	0	15.9	16.6	15.8	15.2	12.2
19	18.4	16.3	2.6	0	0	15.9	*15.8	15.2	10.0	12.5
20	18.0	15.9	1.4	0	0	17.1	15.0	14.1	10.7	12.6
21	17.5	15.5	.3	0	0	16.1	15.7	16.1	13.2	12.7
22	17.2	15.5	0	0	*4.0	17.0	16.7	16.7	14.4	12.5
23	17.2	15.3	0	0	0	18.4	16.2	16.6	14.1	12.2
24	17.1	7.6	2.2	0	0	17.9	17.8	16.3	14.5	13.8
25	16.6	0	3.8	0	.1	16.4	16.6	16.2	14.5	13.7
26	16.7	0	2.6	0	.1	17.2	17.0	15.7	14.6	13.5
27	16.8	0	2.6	0	.1	17.4	17.2	15.3	15.0	13.3
28	16.7	0	4.7	0	6.8	17.5	17.4	*15.3	15.3	13.2
29	15.9	0	4.8	-----	8.5	17.6	17.4	*15.4	14.4	*13.0
30	*8.0	0	4.8	-----	7.7	17.6	18.3	*15.5	14.6	12.8
31	*13.0	-----	4.8	-----	-----	17.6	-----	15.5	13.6	-----
Month	Maximum		Minimum		Mean		Run-off in acre-feet			
October	18.7		3.0		16.8		1,030			
November	16.7		0		11.6		690			
January	4.8		0		1.52		93.5			
February	12.7		0		2.27		126			
April	8.5		0		.91		54.1			
May	18.4		7.2		15.1		928			
June	18.5		15.0		17.0		1,010			
July	18.3		14.1		16.4		1,010			
August	17.6		10.0		14.8		910			
September	15.4		9.0		12.7		756			
The year	18.7		0		9.12		6,610			

* Estimated.

NOTE.—No flow in months omitted.

SAN JACINTO RIVER NEAR SAN JACINTO, CALIF.

LOCATION.—Staff gage in SE. $\frac{1}{4}$ sec. 13, T. 5 S., R. 1 E., at highway bridge $\frac{3}{4}$ miles southeast of San Jacinto.

RECORDS AVAILABLE.—October, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, determined by slope-area method, about 45,000 second-feet February 16; minimum, 0.4 second-foot August 30 and 31.

1920-1927: Maximum discharge, that of February 16, 1927; stream usually dry several months each year.

REMARKS.—Records fair. Discharge interpolated between discharge measurements January 4-31. No record February 16 to March 4. Water is diverted from several tributaries above station. Lake Hemet Water Co. stores water on South Fork of San Jacinto River at Lake Hemet; some water was released April 1-21. See also footnote to daily-discharge table.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3.0	3.0	0.6	5.5	7	-----	87	97	45	26	13	* 1
2.....	3.1	3.0	.6	5.5	7	-----	130	92	48	24	13	* 1
3.....	3.1	3.1	.6	5.5	6	-----	126	96	46	19	12	* 2
4.....	3.1	* 3.4	193	5.5	7	-----	147	91	46	17	12	* 3
5.....	3.1	3.6	193	5.5	7	380	144	86	46	20	10	* 3
6.....	3.1	3.9	108	5.5	7	298	140	86	45	19	* 9	* 4
7.....	3.1	4.2	68	5.5	10	274	137	103	46	18	8	* 5
8.....	3.8	4.2	52	5	10	250	135	126	44	16	* 7	* 5
9.....	3.8	4.1	45	5	10	250	135	120	44	14	* 5	6
10.....	3.8	4.4	40	5	11	250	135	112	50	16	* 3	9
11.....	3.8	4.5	29	5	10	210	130	114	55	16	1.9	9
12.....	3.7	4.5	20	5	10	210	135	114	48	16	* 2.2	8
13.....	3.6	4.7	16	5	11	210	142	108	43	14	* 2.5	8
14.....	3.6	4.9	12	5	30	210	147	100	43	* 5	2.8	9
15.....	3.5	3.9	6.5	5	480	210	162	92	43	* 5	2.6	9
16.....	3.4	3.8	4.2	5	-----	130	152	86	43	* 5	2.9	14
17.....	3.4	3.8	2.2	6	-----	111	154	82	41	* 5	2.8	14
18.....	3.2	3.7	1.0	9.5	-----	111	154	73	43	* 5	2.8	12
19.....	3.1	3.6	.7	9.5	-----	107	132	68	36	* 5	2.9	12
20.....	3.1	3.6	.6	9	-----	107	113	66	33	15	3.2	12
21.....	3.1	3.6	.5	10	-----	107	106	62	33	15	* 8	12
22.....	2.9	3.6	.6	9	-----	102	98	60	33	15	14	12
23.....	3.1	3.6	* 16	9	-----	102	90	61	35	15	20	12
24.....	3.1	3.6	* 16	8	-----	93	92	58	33	15	17	14
25.....	3.1	* 4.0	5.5	8	-----	93	84	58	31	15	6	14
26.....	3.1	* 4.0	5.5	8	-----	84	86	55	31	15	2.3	22
27.....	3.1	7	5.5	7	-----	74	90	52	31	3.5	1.8	21
28.....	2.9	3.5	6	7	-----	72	90	50	29	* 3.5	* 1.3	20
29.....	3.1	1.3	6	7	-----	69	90	48	27	* 3.5	* .9	20
30.....	3.1	.7	6	7	-----	68	94	48	26	* 3.5	* .4	20
31.....	3.1	-----	5.5	7	-----	97	-----	45	-----	13	* 4	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	3.8	2.9	3.26	200
November.....	7	.7	3.76	224
December.....	193	.5	27.9	1,720
January.....	10	5	6.60	406
February 1-15.....	480	6	41.5	1,230
March 5-31.....	380	68	158	8,460
April.....	154	84	122	7,260
May.....	126	45	80.9	4,970
June.....	55	28	39.9	2,370
July.....	28	3.5	11.9	732
August.....	20	.4	6.15	378
September.....	22	1	10.4	619

* Estimated.

NOTE.—No natural flow Oct. 1 to Nov. 25 and probably Aug. 1 to Sept. 30. Water was released from Lake Hemet past station and picked up 200 feet below gage from Oct. 1 to Nov. 25 and July 15 to Sept. 30.

SURFACE WATER SUPPLY, 1927, PART XI

SAN JACINTO RIVER NEAR ELSINORE, CALIF.

LOCATION.—Water-stage recorder near east line sec. 9, T. 6 S., R. 4 W., $2\frac{1}{4}$ miles above junction with Elsinore Lake (low-water stage), one-fourth mile above highway crossing, and 2 miles southeast of Elsinore.

DRAINAGE AREA.—717 square miles.

RECORDS AVAILABLE.—January, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, about 16,000 second-feet February 17, determined by slope-area method (gage height, 11.8 feet); stream dry several months.

1916-1927: Maximum discharge, that of February 17, 1927; stream dry for several months each year.

REMARKS.—Records good except those for February 14-20, which are fair. Storage and diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1.....	0	0.1	0.2	303	92	3.0	0.2
2.....	0	.1	.2	278	76	2.3	.1
3.....	0	.1	.2	283	100	1.9	.1
4.....	0	.1	.3	309	95	1.5	.1
5.....	0	.1	.6	327	90	1.1	.1
6.....	0	.1	.5	306	84	.9	.1
7.....	0	.1	.4	269	74	1.1	.1
8.....	32	.1	.3	259	74	7	.1
9.....	6	.1	.8	254	74	62	0
10.....	1.2	.1	.9	249	69	30	0
11.....	1.7	.1	1.0	246	92	26	0
12.....	1.3	.2	.9	220	109	18	0
13.....	.7	.1	1.2	196	96	10	0
14.....	.5	.1	16	170	90	4.5	0
15.....	.3	.1	420	120	95	.9	0
16.....	.2	.1	2,050	100	96	.4	0
17.....	.2	.1	11,500	88	109	.4	0
18.....	.2	.1	8,340	79	90	.4	0
19.....	.1	.1	4,450	76	85	.5	0
20.....	.1	.1	2,460	69	80	.4	0
21.....	.1	.1	1,540	59	69	.4	0
22.....	.1	.1	1,080	52	116	.4	0
23.....	.2	.2	836	48	28	.3	0
24.....	.3	.2	684	45	26	.2	0
25.....	.8	.2	540	45	22	.2	0
26.....	.2	.2	463	44	17	.3	0
27.....	.1	.2	389	40	16	.3	0
28.....	.1	.2	330	36	12	.4	0
29.....	.1	.2		33	7.5	.4	0
30.....	.1	.2		66	4.8	.2	0
31.....	.1	.2		87		.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
December.....	32	0	1.49	91.6
January.....	2	.1	.13	8.0
February.....	11,500	.2	1,250	69,400
March.....	327	33	153	9,410
April.....	116	4.8	66.6	4,140
May.....	62	.2	5.66	348
June.....	.2	0	.03	1.8
The year.....	11,500	0	116	83,400

NOTE.—No flow in months omitted.

ELSINORE LAKE AT ELSINORE, CALIF.

LOCATION.—Staff gage on northeast shore near outlet at Elsinore, Riverside County. Several gages at different datums used during year but all readings have been reduced to same datum.

RECORDS AVAILABLE.—December, 1915, to September, 1927.

REMARKS.—Elsinore Lake overflows only during and after years of heavy rainfall. Temescal Creek is the high-water outlet. The surface of the lake has been below the outlet since July, 1917.

Daily elevation, in feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.					44.5	57.3						
2.	44.9	44.5	44.4			57.4	58.6			57.8	56.8	
3.						57.5		58.9				
4.			44.4	44.5		57.6			58.4			
5.	44.9				44.5		58.6	58.9		57.8		
6.		44.4									56.7	
7.			44.4					58.8	58.4			
8.				44.5	44.5	58.2						
9.	44.8	44.4					58.7			57.8	56.6	
10.								58.8				56.3
11.			44.5	44.5					58.2			56.3
12.	44.8				44.6	58.4	58.8			57.7		
13.		44.4									56.6	
14.			44.5					58.8	58.2			
15.				44.5	44.7	58.4	58.9					
16.	44.7	44.3				58.5				57.4	56.6	
17.					48.8			58.8				56.2
18.			44.5	44.5	52.9				58.1			
19.	44.7				54.5	58.5	59.0			57.2		
20.		44.3			55.4							56.1
21.			44.5		55.8			58.8	58.0			
22.				44.5	56.1	58.6						
23.	44.6	44.3			56.4		59.0			57.2		
24.					56.6			58.6				56.0
25.			44.5	44.5	56.8	58.5			58.0			
26.	44.6			44.5	57.0	58.5	59.0	58.6		57.0		56.0
27.		44.3			57.1							
28.			44.5		57.2			58.6	58.0			
29.				44.5		58.5						
30.	44.6	44.3					59.0		57.9	56.8		56.0
31.			44.5					58.4				

NOTE.—Add 1,200 feet to obtain elevation above sea level.

SAN ANTONIO CREEK NEAR CLAREMONT, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ SE. $\frac{1}{4}$ 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.

DRAINAGE AREA.—16.9 square miles.

RECORDS AVAILABLE.—March, 1901, to September, 1927.

EXTREMES.—Maximum discharge during year, 718 second-feet February 16 (gage height, 5.35 feet); minimum, about 0.5 second-foot October 1 to November 24.

1917-1927: Maximum discharge, 1,020 second-feet December 19, 1921 (gage height, 8.20 feet); minimum, estimated 0.1 second-foot in August and September, 1919, and September and October, 1925.

REMARKS.—Daily discharge estimated or interpolated between discharge measurements October 1 to February 13, May 7-13, July 22-28, and August 6 to September 30. The Southern California Edison Co. diverts water for power development above station (see p. 52).

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		1.1	0.6	0.8	84	26	21	5.5	1.5	1.4	1.2
2		1.2	.6	.8	76	24	20	5.5	1.6	1.4	1.2
3		1.3	.6	.8	77	23	20	4.6	1.6	1.4	1.2
4		1.4	.6	2.0	71	23	20	4.2	1.6	1.4	1.2
5		1.2	.6	.8	68	22	20	4.0	1.6	1.6	1.2
6		1.1	.6	.8	65	22	21	3.7	1.5	1.5	1.3
7		1.1	.6	.7	59	23	23	3.5	1.4	1.4	1.3
8		1.1	.6	.6	56	24	22	3.4	1.4	1.3	1.3
9		1.2	.6	.6	52	24	21	3.4	1.4	1.2	1.3
10		1.2	.6	.6	49	26	20	3.4	1.4	1.2	1.3
11		1.2	.6	.6	45	24	19	3.6	1.4	1.1	1.4
12		1.3	.6	.6	41	23	17	3.5	1.4	1.1	1.4
13		1.3	.6	3.5	40	22	16	3.4	1.4	1.1	1.4
14		1.3	.6	43	38	21	15	3.4	1.4	1.2	1.4
15		1.3	.6	41	38	20	15	3.3	1.4	1.2	1.4
16		1.2	.6	466	36	20	16	3.3	1.3	1.2	1.4
17		1.1	.6	276	35	19	15	3.3	1.3	1.2	1.4
18		1.0	.6	183	35	18	15	3.2	1.4	1.2	1.4
19		1.0	.6	172	35	16	14	3.2	1.4	1.2	1.4
20		.9	.6	162	34	16	14	3.2	1.4	1.2	1.4
21		.9	.6	148	33	14	14	2.8	1.4	1.2	1.4
22		.8	.6	133	32	14	12	2.2	1.4	1.2	1.3
23		.8	.6	124	31	14	12	1.9	1.4	1.2	1.3
24		.8	.6	116	31	16	9.5	1.6	1.4	1.2	1.3
25		.7	.6	112	30	17	9	1.4	1.4	1.2	1.3
26	10	.7	.6	102	30	18	9	1.4	1.4	1.2	1.3
27	9	.6	.6	97	31	20	8	1.2	1.4	1.2	1.3
28	6	.6	.7	90	30	21	8	1.1	1.4	1.2	1.3
29	4.0	.6	.7	-----	31	21	7.5	1.2	1.4	1.2	1.3
30	1.0	.6	.7	-----	30	21	6.5	1.4	1.4	1.2	1.3
31	-----	.6	.7	-----	28	-----	6	-----	1.5	1.2	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	-----	-----	0.5	30.7
November	10	-----	1.42	84.5
December	1.4	0.6	1.01	62.1
January	.7	.6	.61	87.5
February	466	.6	81.4	4,520
March	84	28	44.2	2,720
April	26	14	20.4	1,210
May	23	6	15.0	922
June	5.5	1.1	3.03	180
July	1.6	1.3	1.43	87.9
August	1.6	1.1	1.25	76.9
September	1.4	1.2	1.32	78.6
The year	466	-----	13.8	10,000

* Estimated.

SANTA ANA RIVER BASIN

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Combined daily and monthly discharge, in second-feet, of San Antonio Creek and Southern California Edison Co.'s canal near Claremont, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	10.3	9.1	9.9	12.1	13.8	109	51	46	30	24	16.2	14.2
2.....	10.7	9.1	10.0	12.3	14.0	101	49	45	30	24	16.0	14.6
3.....	10.4	9.3	10.8	12.1	13.9	102	48	45	30	24	16.0	14.0
4.....	10.3	9.1	12.0	12.1	16.4	96	48	45	29	23	16.0	13.7
5.....	10.2	9.1	15.0	12.5	14.1	93	47	45	29	23	16.0	13.5
6.....	10.2	9.1	12.5	12.5	14.0	90	47	46	29	22	15.8	13.6
7.....	10.2	8.9	14.0	12.5	13.5	84	48	48	28	21.1	16.0	13.6
8.....	10.2	8.9	13.7	12.5	13.4	81	49	47	28	20.9	15.7	14.1
9.....	10.1	9.0	12.2	12.5	13.4	77	49	46	28	20.8	15.6	14.3
10.....	10.1	8.9	13.2	12.5	13.6	74	51	45	28	20.4	15.2	14.1
11.....	10.1	9.0	13.4	12.8	13.2	70	49	44	29	19.9	15.1	14.2
12.....	9.6	9.1	13.0	12.7	13.2	66	48	42	28	19.6	14.9	14.3
13.....	9.6	8.7	13.3	13.0	17.2	65	47	41	28	19.4	15.1	14.4
14.....	9.6	8.7	13.3	12.7	63	63	46	40	27	19.2	15.0	14.4
15.....	9.7	8.7	13.6	12.9	64	63	45	40	27	19.0	15.0	13.8
16.....	9.6	8.9	13.3	13.0	480	61	45	41	27	18.5	15.0	13.9
17.....	9.8	8.9	13.2	13.3	294	60	44	40	27	18.2	14.9	13.8
18.....	9.7	8.9	13.4	13.4	202	60	43	40	27	17.7	15.0	13.2
19.....	9.7	8.9	13.2	13.4	191	60	41	39	27	18.0	14.8	13.0
20.....	9.6	8.8	12.9	13.7	181	59	41	39	26	17.5	14.7	13.0
21.....	9.7	8.8	14.1	14.1	166	58	39	39	26	17.4	14.9	13.0
22.....	9.5	8.7	13.1	13.8	152	57	39	37	25	17.4	14.7	12.7
23.....	9.6	8.7	13.0	13.8	143	56	39	37	24	17.5	14.7	12.6
24.....	9.6	9.2	11.7	14.2	135	56	41	34	24	17.2	14.6	12.7
25.....	9.4	9.4	12.5	14.1	130	55	42	34	23	17.4	14.5	12.7
26.....	9.3	20	12.3	13.9	127	55	43	34	23	17.1	14.8	13.1
27.....	9.3	23	12.7	14.2	122	56	45	33	23	16.8	14.9	12.7
28.....	9.3	16	12.4	13.9	115	55	46	33	23	17.0	14.8	12.6
29.....	9.3	13.6	12.4	13.9	-----	56	46	32	23	16.8	14.8	12.9
30.....	9.3	9.7	12.2	14.2	-----	55	46	32	24	16.7	14.9	12.5
31.....	9.3	-----	12.1	14.2	-----	53	-----	31	-----	16.7	14.6	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	10.7	9.3	9.78	601
November.....	23	8.7	10.2	607
December.....	15	9.9	12.7	781
January.....	14.2	12.1	13.2	812
February.....	480	13.2	98.2	5,450
March.....	109	53	69.2	4,250
April.....	51	39	45.4	2,700
May.....	48	31	40.0	2,460
June.....	30	23	26.7	1,590
July.....	24	16.7	19.3	1,190
August.....	16.2	14.5	15.2	935
September.....	14.6	12.5	13.5	803
The year.....	480	8.7	30.6	22,200

SOUTHERN CALIFORNIA EDISON CO.'S CANAL NEAR CLAREMONT, CALIF.

LOCATION.—Hook gage in NW. $\frac{1}{4}$ sec. 1, T. 1 N., R. 8 W., at weir in tailrace of Sierra power house, on San Antonio Creek, $1\frac{1}{2}$ miles below intake, and 8 miles northeast of Claremont.

RECORDS AVAILABLE.—January, 1917, to September, 1927.

REMARKS.—This canal diverts water from San Antonio Creek in SE. $\frac{1}{4}$ sec. 25, T. 2 N., R. 8 W., 1 mile above gaging station on San Antonio Creek near Claremont. The water is used for power development at Sierra power house and then returned to creek. Discharge record furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	9.8	8.6	8.8	11.5	13.0	25	25	25	25	22	14.8	13.0
2.....	10.2	8.6	8.8	11.7	13.2	25	25	25	25	22	14.6	13.4
3.....	9.9	8.8	9.5	11.5	13.1	25	25	25	25	22	14.6	12.8
4.....	9.8	8.6	10.6	11.5	14.4	25	25	25	25	21	14.6	12.5
5.....	9.7	8.6	13.8	11.9	13.3	25	25	25	25	21	14.4	12.3
6.....	9.7	8.6	11.4	11.9	13.2	25	25	25	25	21	14.3	12.3
7.....	9.7	8.4	12.9	11.9	12.8	25	25	25	25	19.7	14.6	12.3
8.....	9.7	8.4	12.6	11.9	12.8	25	25	25	25	19.5	14.4	12.8
9.....	9.6	8.5	11.0	11.9	12.8	25	25	25	25	19.4	14.4	13.0
10.....	9.6	8.4	12.0	11.9	13.0	25	25	25	25	19.0	14.0	12.3
11.....	9.6	8.5	12.2	12.2	12.6	25	25	25	25	18.5	14.0	12.8
12.....	9.1	8.6	11.7	12.1	12.6	25	25	25	25	18.2	13.8	12.9
13.....	9.1	8.2	12.0	12.4	13.7	25	25	25	25	18.0	14.0	13.0
14.....	9.1	8.2	12.0	12.1	20	25	25	25	24	17.8	13.8	13.0
15.....	9.2	8.2	12.3	12.3	23	25	25	25	24	17.6	13.8	12.4
16.....	9.1	8.4	12.1	12.4	14.3	25	25	25	24	17.2	13.8	12.5
17.....	9.3	8.4	12.1	12.7	18.2	25	25	25	24	16.9	13.7	12.4
18.....	9.2	8.4	12.4	12.8	19.2	25	25	25	24	16.3	13.8	11.8
19.....	9.2	8.4	12.2	12.8	18.8	25	25	25	24	16.6	13.6	11.6
20.....	9.0	8.3	12.0	13.1	18.8	25	25	25	23	16.1	13.5	11.6
21.....	9.2	8.3	13.2	13.5	18.5	25	25	25	23	16.0	13.7	11.6
22.....	9.0	8.2	12.3	13.2	18.8	25	25	25	23	16.0	13.5	11.4
23.....	9.1	8.2	12.2	13.2	19.0	25	25	25	22	16.1	13.5	11.3
24.....	9.1	8.7	10.9	13.6	19.1	25	25	25	22	15.8	13.4	11.4
25.....	8.9	8.7	11.8	13.5	18.1	25	25	25	22	16.0	13.3	11.4
26.....	8.8	10.2	11.6	13.3	25	25	25	25	22	15.7	13.6	11.8
27.....	8.8	14.4	12.1	13.6	25	25	25	25	22	15.4	13.7	11.4
28.....	8.8	10.3	11.8	13.2	25	25	25	25	22	15.6	13.6	11.3
29.....	8.8	9.6	11.8	13.2	-----	25	25	25	22	15.4	13.6	11.6
30.....	8.8	8.7	11.6	13.5	-----	25	25	25	23	15.3	13.7	11.2
31.....	8.8	-----	11.5	13.5	-----	25	-----	25	-----	15.2	13.4	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	10.2	8.8	9.28	571
November.....	14.4	8.2	8.81	524
December.....	13.8	8.8	11.7	719
January.....	13.6	11.5	12.6	775
February.....	25	12.6	16.8	933
March.....	25	25	25	1,540
April.....	25	25	25	1,490
May.....	25	25	25	1,540
June.....	25	22	23.8	1,420
July.....	22	15.2	17.8	1,090
August.....	14.8	13.3	13.9	855
September.....	13.4	11.2	12.2	726
The year.....	25	8.2	16.8	12,200

SANTIAGO CREEK NEAR VILLA PARK, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 13, T. 4 S., R. 9 W., at mouth of canyon, $1\frac{1}{4}$ miles northeast of Villa Park, and five-eighths of a mile below Serrano & Carpenter Water Co.'s diversion dam.

RECORDS AVAILABLE.—June, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, about 11,000 second-feet February 16, determined by slope-area method (gage height, 8.4 feet); no flow most of the year.

1920-1927: Maximum discharge, that of February 16, 1927; no flow several months each year.

REMARKS.—Records good except those for February 14-22, which were estimated. Serrano & Carpenter Canal diverts water at diversion dam above gage. See record of canal, p. 55. The Irvine Co. also diverts water above gage at times.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
1.....	0	2.5	4.4	0.1	75	34	7.5
2.....	0	1.1	4.4	0	65	25	7
3.....	0	3.0	4.1	0	113	22	6.5
4.....	0	9	4.1	10	130	22	4.4
5.....	0	7.5	3.8	17	138	23	2.8
6.....	0	6.5	2.6	10	105	23	.2
7.....	0	14	1.3	7.5	108	23	.2
8.....	0	22	.1	0	102	23	.2
9.....	0	16	0	0	126	23	.2
10.....	0	8	0	3.7	145	25	.2
11.....	0	6	4.7	16	145	36	.2
12.....	0	5	6	12	138	27	.2
13.....	0	5	5.5	205	130	27	.2
14.....	0	4.8	4.1	400	87	25	.1
15.....	0	4.8	3.5	600	70	25	.1
16.....	0	4.8	3.5	7,000	56	18	.1
17.....	0	4.8	1.2	1,200	50	12	.1
18.....	0	4.8	0	300	44	10	.1
19.....	0	4.4	0	275	38	10	.1
20.....	0	4.4	2.3	240	34	11	.1
21.....	0	5	14	200	31	10	0
22.....	0	4.8	7.5	165	31	10	0
23.....	0	5.5	7	128	32	9.5	0
24.....	3.2	5.5	2.1	102	34	10	0
25.....	4.0	5	1.3	88	34	10	0
26.....	0	4.8	1.4	88	35	9.5	0
27.....	47	4.4	.1	82	36	9.5	0
28.....	12	4.1	.1	78	36	9.5	0
29.....	7.5	4.1	.1	-----	39	9.5	0
30.....	5	4.1	0	-----	64	9	0
31.....	-----	4.4	0	-----	47	-----	0
Month	Maximum	Minimum	Mean	Run-off in acre-feet			
November.....	47	0	2.62	156			
December.....	22	1.1	6.13	377			
January.....	14	0	2.88	177			
February.....	7,000	0	401	22,300			
March.....	145	31	74.8	4,600			
April.....	36	9	18.0	1,070			
May.....	7.5	0	.97	59.6			
The year.....	7,000	0	39.7	28,700			

NOTE.—No flow in months omitted.

Combined daily and monthly discharge, in second-feet, of Santiago Creek and Serrano & Carpenter Canal near Villa Park, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	5	3.2	7.5	7	3.7	77	36	13	8	7	7.5	5.5
2.....	5	3.3	6.5	7	3.3	67	28	12	8	7	7.5	5
3.....	5	3.3	6.5	7	3.4	114	25	12	7.5	7.5	7.5	5
4.....	5	3.4	9	7	12	130	25	11	7	7.5	7.5	4.9
5.....	5	3.4	7.5	6.5	17	138	26	10	6.5	7.5	7	4.9
6.....	4.9	3.3	9	5	10	105	26	8	6.5	7.5	7	4.9
7.....	4.9	3.3	14	3.9	10	108	26	7.5	6.5	8.5	7	5.5
8.....	4.9	3.2	22	2.7	3.7	102	26	8	6.5	9	7	5.5
9.....	4.7	3.2	16	2.6	3.6	126	26	8	6.5	9.5	7	5.5
10.....	4.7	2.9	8	2.6	6.5	145	27	8	6.5	9.5	7	5
11.....	4.7	3.1	8	5.5	18	145	37	8	6.5	9.5	6.5	6
12.....	4.6	3.2	8.5	6	15	138	29	8	6.5	9.5	6.5	5.5
13.....	4.4	3.1	8.5	5.5	208	130	29	8	6	10	6.5	5.5
14.....	4.4	3.1	8.5	5	400	87	27	7.5	6	10	6.5	5.5
15.....	4.4	2.9	8.5	4.9	600	70	27	7.5	6	10	6.5	5.5
16.....	4.3	2.9	8	5	7,000	56	21	7.5	5.5	10	6.5	5.5
17.....	4.3	2.8	8	4.0	1,200	50	15	7.5	6	9.5	6.5	5.5
18.....	4.1	2.8	8	2.8	300	46	13	7.5	5.5	9.5	6.5	5.5
19.....	4.1	2.8	7.5	2.8	275	41	15	7.5	6	9.5	6.5	5.5
20.....	4.1	2.7	8	4.4	240	37	16	7.5	5.5	10	6.5	5
21.....	4.1	2.6	7	14	200	34	15	7.5	7.5	9.5	6.5	5
22.....	4.0	2.6	7	7.5	165	34	15	7.5	7.5	9.5	6.5	5
23.....	3.8	2.6	7	7	129	34	14	7.5	7	9	6.5	5
24.....	3.8	4.6	5.5	4.3	104	37	15	8	7	9	6.5	5.5
25.....	3.8	4.4	5	4.3	90	38	15	8.5	7	8.5	6	5
26.....	3.8	3.6	6.5	4.1	89	40	14	8	7	8	6	5
27.....	3.7	48	7	3.9	82	41	14	8.5	7	8	5.5	5
28.....	3.7	12	7	3.9	79	42	15	8.5	7	8	6	5
29.....	3.6	7.5	6.5	4.2	-----	41	15	8.5	7.5	8	6	4.9
30.....	3.1	8	6.5	4.0	-----	64	14	8	8	8	5.5	4.9
31.....	3.1	-----	7	3.7	-----	47	-----	8	-----	8	5.5	-----
Month	Maximum		Minimum		Mean		Run-off in acre-feet					
October.....	5		3.1		4.29		264					
November.....	48		2.6		5.26		313					
December.....	22		5		8.37		515					
January.....	14		2.6		5.10		314					
February.....	7,000		3.3		402		23,300					
March.....	145		54		76.3		4,690					
April.....	37		13		21.5		1,280					
May.....	13		7.5		8.47		521					
June.....	8		5.5		6.72		400					
July.....	10		7		8.78		539					
August.....	7.5		5.5		6.56		403					
September.....	6		4.9		5.23		311					
The year.....	7,000		2.6		44.1		31,800					

SERRANO & CARPENTER CANAL NEAR VILLA PARK, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 13, T. 4 S., R. 9 W., at division box half a mile above mouth of Santiago Creek Canyon and $2\frac{1}{4}$ miles north-east of Villa Park.

RECORDS AVAILABLE.—August, 1920, to September, 1927.

EXTREMES.—1920-1927: Maximum mean daily discharge, 16.8 second-feet May 20, 1922; no water is diverted at times.

REMARKS.—Records good except those for October 1-5, 26, 27, November 5-8, May 13, and July 30 to August 6, which were interpolated. This canal diverts from Santiago Creek at a submerged dam at Point of Rocks. At the division box the flow is divided between the John T. Carpenter and Serrano Water Cos. and is carried through concrete pipe lines to orchard lands on the north and south sides of Santiago Creek. During periods of shortage both companies augment their supplies by pumping.

Daily and monthly discharge, in second-feet, 1920-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	3.2	5	2.8	3.6	2.3	2.0	5.5	8	7	7.5	5.5
2	5	3.3	5.5	2.8	3.3	2.3	3.3	5.5	8	7	7.5	5.5
3	5	3.3	3.7	2.8	3.4	.8	3.3	5.5	7.5	7.5	7.5	5.5
4	5	3.4	0	2.7	2.4	0	3.3	6.5	7	7.5	7.5	4.9
5	5	3.4	0	2.7	0	0	3.2	8	6.5	7.5	7	4.9
6	4.9	3.3	2.4	2.6	0	0	3.2	8	6.5	7.5	7	4.9
7	4.9	3.3	0	2.6	2.4	0	3.1	7.5	6.5	8.5	7	5.5
8	4.9	3.2	0	2.6	3.7	0	2.9	8	6.5	9	7	5.5
9	4.7	3.2	0	2.6	3.6	0	2.8	8	6.5	9.5	7	5.5
10	4.7	2.9	0	2.6	2.8	0	2.1	8	6.5	9.5	7	5
11	4.7	3.1	2.0	.8	0	0	.7	8	6.5	9.5	6.5	6
12	4.6	3.2	3.6	0	2.7	0	2.0	8	6.5	9.5	6.5	5.5
13	4.4	3.1	3.6	0	2.9	0	1.8	8	6	10	6.5	5.5
14	4.4	3.1	3.7	1.4	0	0	1.6	7.5	6	10	6.5	5.5
15	4.4	2.9	3.7	1.4	0	0	1.6	7.5	6	10	6.5	5.5
16	4.3	2.9	3.4	1.5	0	0	2.6	7.5	5.5	10	6.5	5.5
17	4.3	2.8	3.3	2.8	0	0	3.1	7.5	6	9.5	6.5	5.5
18	4.1	2.8	3.2	2.8	0	2.1	3.1	7.6	5.5	9.5	6.5	5.5
19	4.1	2.8	3.3	2.8	0	2.8	4.6	7.5	6	9.5	6.5	5.5
20	4.1	2.7	3.6	2.1	0	2.6	4.6	7.5	5.5	10	6.5	5
21	4.1	2.6	2.2	0	0	2.9	4.6	7.5	7.5	9.5	6.5	5
22	4.0	2.6	2.1	0	0	2.5	4.6	7.5	7.5	9.5	6.5	5
23	3.8	2.6	1.8	0	1.0	2.3	4.6	7.5	7	9	6.5	5.5
24	3.8	1.4	0	2.2	1.7	3.4	4.6	8	7	9	6.5	5.5
25	3.8	4	0	3.0	1.6	4.3	4.6	8.5	7	8.5	6	5
26	3.8	3.6	1.7	2.7	.6	5	4.6	8	7	8	6	5
27	3.7	.8	2.7	3.8	0	5	5	8.5	7	8	5.5	5
28	3.7	0	2.7	3.8	1.3	5.5	5.5	8.5	7	8	6	5
29	3.6	0	2.6	4.1	-----	2.2	5.5	8.5	7.5	8	6	4.9
30	3.1	3.1	2.6	4.0	-----	0	5.5	8	8	8	5.5	4.9
31	3.1	-----	2.7	3.7	-----	0	-----	3	-----	8	5.5	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	5	3.1	4.29	264
November	3.6	0	2.08	156
December	5.5	0	2.28	140
January	4.1	0	2.28	137
February	3.7	0	1.32	78.3
March	5.5	0	1.43	91.0
April	5.5	.7	3.47	206
May	8.5	5.5	7.00	437
June	8	5.5	6.72	409
July	10	7	8.76	539
August	7.5	5.5	6.66	408
September	6	4.9	5.23	311
The year	10	0	4.40	3,190

SAN GABRIEL RIVER BASIN

SAN GABRIEL RIVER NEAR AZUSA, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ sec. 23, T. 1 N., R. 10 W., near road crossing at mouth of canyon, half a mile above Southern California Edison Co.'s power house, and 2 miles north of Azusa.

DRAINAGE AREA.—214 square miles.

RECORDS AVAILABLE.—1894 to September, 1927.

EXTREMES.—Maximum discharge during year, about 18,200 second-feet February 16 (gage height, 10.2 feet); no flow October 1 to November 23, December 4, 12–20, December 31 to January 10, and July 9 to September 30.

1894–1927: Maximum discharge, 40,000 second-feet January 18, 1916 (gage height, 12.0 feet); stream dry for several months each year.

REMARKS.—Records good. The power canal of the Southern California Edison Co. heads about 5 miles above station. (For daily discharge of this canal see p. 58.)

Daily and monthly discharge, in second-feet, 1926–27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1	0	0.1	0	1.2	394	174	125	48	2.0
2	0	.2	0	.6	341	165	131	48	2.0
3	0	.2	0	.2	473	165	122	48	1.0
4	0	0	0	44	430	165	120	46	1.0
5	0	14	0	41	372	160	120	43	.8
6	0	8	0	15	353	155	120	41	.6
7	0	31	0	7	343	155	135	40	.4
8	0	20	0	5	357	152	118	37	.2
9	0	28	0	4.4	352	150	110	38	0
10	0	16	0	3.4	360	168	100	42	0
11	0	11	2.6	4.4	336	222	92	44	0
12	0	0	2.2	3.8	311	189	86	42	0
13	0	0	1.6	15	292	171	82	36	0
14	0	0	.6	1,500	274	165	82	33	0
15	0	0	2.5	2,270	262	168	82	28	0
16	0	0	2.0	11,400	250	168	82	26	0
17	0	0	4.0	3,290	227	165	80	24	0
18	0	0	4.5	1,710	245	165	78	24	0
19	0	0	5.5	1,210	230	162	80	21	0
20	0	0	6	930	212	147	80	20	0
21	0	6	13	806	186	142	76	19	0
22	0	14	10	719	183	142	66	18	0
23	0	4.2	5	680	186	142	62	15	0
24	2	1.6	5	593	193	145	56	12	0
25	7	3.2	4.6	550	186	196	54	9	0
26	29	1.1	4.4	514	183	223	52	7.5	0
27	340	.2	4.0	438	177	212	52	5.5	0
28	39	.6	3.6	476	174	185	52	5	0
29	9.5	.4	3.0		183	142	49	4.0	0
30	2.7	.2	2.4		216	146	48	2.0	0
31		0	1.8		180		48		0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	340	0	14.3	851
December	31	0	5.16	317
January	13	0	2.91	179
February	11,400	2	975	54,000
March	473	174	274	16,800
April	223	140	165	9,420
May	135	48	85.6	5,250
June	48	3.0	27.6	1,660
July	2.0	0	.26	16
The year	11,400	0	123	88,900

NOTE.—No flow in months omitted.

Combined daily and monthly discharge, in second-feet, of San Gabriel River and Southern California Edison Co.'s canal near Azusa, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	23	54	50	49	465	251	203	125	78	47	35
2	26	23	49	50	48	406	242	201	125	75	47	35
3	26	24	47	50	48	538	242	192	125	74	47	35
4	25	23	53	54	103	495	242	186	123	73	46	34
5	26	23	87	56	127	437	237	193	120	72	45	33
6	26	21	72	56	93	418	232	196	118	70	46	31
7	25	21	111	55	78	408	232	208	117	70	45	33
8	25	19	99	55	75	422	228	196	113	68	44	34
9	26	22	108	54	71	456	226	186	114	66	43	35
10	27	21	91	54	64	434	244	176	119	64	41	35
11	26	19	81	61	67	406	299	170	121	66	42	34
12	25	21	68	63	65	387	263	165	119	63	42	33
13	24	23	68	60	80	369	246	161	113	62	41	35
14	24	23	62	56	1,580	350	240	161	110	61	42	35
15	25	24	61	56	2,340	339	243	161	104	63	41	35
16	24	23	60	56	11,400	327	243	159	101	61	40	35
17	23	22	59	56	3,320	304	240	157	98	59	41	35
18	24	22	58	58	1,780	323	230	155	99	57	42	35
19	25	22	55	58	1,280	307	227	157	96	57	39	34
20	26	22	56	64	1,000	289	222	157	95	58	39	32
21	26	23	74	88	880	263	217	153	93	59	39	33
22	27	22	89	71	794	260	217	143	92	56	39	32
23	26	22	69	62	708	263	217	139	89	55	38	31
24	24	47	63	61	670	263	223	136	86	54	36	31
25	23	75	60	59	628	263	234	131	83	52	35	31
26	23	82	56	57	592	260	223	129	82	53	36	33
27	23	395	53	58	566	254	212	129	80	52	36	31
28	23	120	52	58	553	251	204	129	79	51	35	30
29	24	72	50	57	-----	260	205	126	78	50	35	30
30	22	58	50	53	-----	293	204	125	77	51	34	31
31	23	-----	50	52	-----	266	-----	125	-----	48	34	-----
Month					Maximum	Minimum	Mean	Run-off in acre-feet				
October					27	22	24.8	1,520				
November					395	19	45.2	2,690				
December					111	47	66.6	4,100				
January					88	50	53.0	3,570				
February					11,400	43	1,040	57,800				
March					538	251	348	21,400				
April					269	204	223	12,900				
May					209	125	162	9,950				
June					125	77	103	6,180				
July					76	48	61.2	3,790				
August					47	34	40.5	2,490				
September					35	30	33.2	1,990				
The year					11,400	19	178	129,000				

SOUTHERN CALIFORNIA EDISON CO.'S CANAL NEAR AZUSA, CALIF.

LOCATION.—Hook gage and weirs at Southern California Edison Co.'s power house in sec. 22, T. 1 N., R. 10 W., $1\frac{1}{2}$ miles north of Azusa.

RECORDS AVAILABLE.—1896 to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 86 second-feet February 5; no flow April 26 and 27.

1896-1927: Maximum mean daily discharge, 97 second-feet November 27, 1906; canal usually dry for a few days each year.

REMARKS.—Intake for this canal is on San Gabriel River in SE. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 31, T. 2 N., R. 9 W., 5 miles above gage. The water is used for power development and irrigation. During the rainy season part of the water from the power plant is wasted back into San Gabriel River below the gaging station. Discharge record furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	26	23	54	50	48	71	77	68	77	74	47	35
2.....	26	23	49	50	47	65	77	70	77	73	47	35
3.....	26	24	47	50	43	65	77	70	77	73	47	35
4.....	25	22	53	54	59	65	77	68	77	72	46	34
5.....	26	23	73	56	86	65	77	73	77	71	45	33
6.....	26	21	64	56	78	65	77	76	77	69	46	31
7.....	25	21	80	55	71	65	77	73	77	70	45	33
8.....	25	19.3	79	55	70	65	76	78	76	68	44	34
9.....	26	22	80	54	67	74	76	76	76	66	43	35
10.....	27	21	75	54	61	74	76	76	77	64	41	36
11.....	26	19.2	70	58	63	70	76	78	77	66	42	34
12.....	25	21	68	60	61	76	74	79	77	63	42	33
13.....	24	23	68	58	65	77	75	79	77	62	41	35
14.....	24	23	62	55	75	76	75	79	77	61	42	35
15.....	25	24	61	54	73	77	75	79	76	63	41	35
16.....	24	23	60	53	13	77	75	77	75	61	40	35
17.....	23	22	59	52	35	77	75	77	74	59	41	35
18.....	24	22	58	53	69	77	76	77	75	57	42	35
19.....	25	22	65	53	73	77	75	77	75	57	42	34
20.....	26	22	66	58	73	77	75	77	75	58	39	32
21.....	26	23	68	75	74	77	75	77	74	59	39	33
22.....	27	22	75	61	75	77	75	77	74	56	39	33
23.....	26	22	65	57	76	77	75	77	74	56	38	31
24.....	24	45	61	56	77	77	78	77	74	54	36	31
25.....	23	68	57	54	78	77	39	77	74	52	35	31
26.....	23	53	55	53	78	77	0	77	75	53	36	33
27.....	23	55	53	54	78	77	0	77	74	52	36	31
28.....	23	81	51	54	77	77	49	77	74	51	35	30
29.....	24	63	50	54	-----	77	63	77	74	50	35	30
30.....	22	55	50	61	-----	77	64	77	74	51	34	31
31.....	23	-----	50	50	-----	77	-----	77	-----	48	34	-----
Month						Maximum	Minimum	Mean	Run-off in acre-feet			
October.....						27	22	24.3	1,520			
November.....						81	19.2	30.9	1,840			
December.....						80	47	61.5	3,780			
January.....						75	50	55.1	3,890			
February.....						86	13	65.8	3,650			
March.....						77	65	73.6	4,530			
April.....						78	0	67.8	4,080			
May.....						79	68	75.9	4,670			
June.....						77	74	75.6	4,500			
July.....						74	48	60.9	3,740			
August.....						47	34	40.5	2,490			
September.....						35	30	33.2	1,980			
The year.....						86	0	55.4	40,100			

SAN GABRIEL RIVER BASIN

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ROGERS CREEK NEAR AZUSA, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 23, T. 1 N., R. 10 W., half a mile above mouth of creek, and $2\frac{1}{2}$ miles north of Azusa.

DRAINAGE AREA.—6.4 square miles.

RECORDS AVAILABLE.—October, 1917, to September, 1927. (Discharge measurements only, May, 1918, to June, 1917.)

EXTREMES.—Maximum discharge during year, about 1,200 second-feet February 18 (gage height, 9.95 feet); no flow August 3 to September 30.

1917-1927: Maximum discharge, about 2,600 second-feet April 7, 1926; stream dry several months each year.

REMARKS.—Records fair. Discharge estimated October 1 to November 23. Two small diversions above station diverted all the water at times.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1			1.2	0.6	0.5	12	6.5	2.6	1.6	0.6	0
2			.6	.6	.5	12	6	1.7	1.5	.6	.1
3			.8	.8	.5	23	5.5	1.0	1.6	.6	0
4			1.2	.8	16	16	5.5	.7	1.5	.4	0
5			.8	.8	6	16	5.5	.6	1.5	.4	0
6			.6	.8	4.5	16	5.5	3.3	1.3	.4	0
7			1.4	.8	6	15	5.5	4.4	.9	.2	0
8			5	.8	6	14	6	4.0	.9	.1	0
9			3.4	.8	5	15	6	3.1	1.0	.1	0
10			2.0	.8	4.0	14	7.5	2.9	1.3	.1	0
11			2.0	.8	3.0	13	10	2.7	1.5	.2	0
12			1.8	.8	2.0	12	7	2.6	1.3	.2	0
13			1.6	.8	3.9	11	6	2.5	1.2	.1	0
14			1.5	.8	160	11	6	2.3	1.1	.2	0
15			1.5	.8	150	10	6	2.3	1.0	.2	0
16			1.5	.8	415	9.5	6	2.2	1.0	.2	0
17			1.5	.8	186	9	6	2.1	1.0	.1	0
18			1.4	.8	100	8.5	6	2.3	1.2	.1	0
19			1.4	.9	66	8	5.5	2.5	1.0	.1	0
20			1.4	3.0	40	7.5	5.5	2.7	1.0	.1	0
21			1.4	1.9	30	7.5	5	2.6	.9	.1	0
22			1.6	.6	25	7.5	4.6	2.3	.7	.1	0
23			1.8	.5	22	7	4.6	2.1	.7	.1	0
24			2.0	.5	18	7	4.4	2.0	.6	.1	0
25			1.0	.6	17	7	4.2	2.0	.6	.1	0
26		15	1.5	.5	17	7	3.8	1.9	.5	.1	0
27		9	1.0	.5	16	6	3.5	1.9	.4	.1	0
28		4.0	.6	.5	14	6	3.8	2.0	.4	.1	0
29		2.0	.6	.5	-----	7.5	3.8	2.0	.5	.1	0
30		1.8	.5	.5	-----	8	4.0	1.9	.5	.0	0
31		-----	.5	.5	-----	7	-----	1.7	-----	.0	0
Month				Maximum		Minimum		Mean		Run-off in acre-feet	
October				15		-----		0.2		12.3	
November				5		-----		1.31		78.9	
December				3.0		0.5		1.45		91.0	
January				415		.5		.81		49.3	
February				23		.5		47.6		2,648	
March				10		6		10.6		652	
April				4.4		3.5		5.51		328	
May				1.6		.6		2.29		141	
June				.6		.4		1.01		64.1	
July				.6		0		.18		11.1	
August				.1		0		0		0	
The year				415		0		5.62		4,000	

NOTE.—No flow in September.

FISH CREEK NEAR DUARTE, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 15, T. 1 N., R. 10 W., three-fourths of a mile above mouth of canyon and 4 miles northeast of Duarte.

DRAINAGE AREA.—6.5 square miles.

RECORDS AVAILABLE.—July to September, 1916, and July, 1917, to September, 1927.

EXTREMES.—Maximum discharge during year, about 945 second-feet February 16 (gage height, 6.00 feet); minimum, 0.4 second-foot October 25–27.

1916–1927: Maximum discharge, about 2,180 second-feet April 4, 1925 (gage height, 8.0 feet); no flow during periods in 1919, 1920, 1921, and 1924.

REMARKS.—Records good. No diversions or regulation above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.5	0.5	1.6	2.3	2.3	14	7.5	3.6	3.2	1.4	0.8	0.7
2.....	.5	.5	1.6	2.3	2.3	14	7	3.9	3.4	1.4	.8	.7
3.....	.5	.5	1.8	2.5	2.5	32	7	4.2	3.4	1.2	.8	.7
4.....	.5	.5	1.8	2.3	16	24	7	4.4	3.2	1.2	.8	.7
5.....	.5	.5	1.4	2.3	8.5	21	6.5	4.3	2.6	1.2	.8	.7
6.....	.5	.5	2.0	2.3	6.5	19	6	4.5	2.4	1.1	.9	.7
7.....	.5	.5	1.8	2.3	5	18	6	5.5	2.4	1.1	.8	.7
8.....	.5	.5	6.5	2.8	4.2	17	6	4.8	2.4	1.2	.9	.7
9.....	.6	.5	4.6	2.5	3.1	18	6	4.0	2.1	1.1	.8	.7
10.....	.6	.5	2.8	2.8	2.8	16	8.5	4.0	2.9	1.1	.8	.7
11.....	.6	.5	2.0	3.9	2.8	14	10	4.0	3.4	1.1	.8	.6
12.....	.6	.8	1.6	2.8	2	14	8.5	3.4	3.4	1.3	.8	.5
13.....	.5	.8	1.4	2.8	17	13	7.5	3.2	2.9	1.4	.8	.7
14.....	.6	.6	1.1	2.5	140	14	7.5	2.9	2.6	1.4	.8	.8
15.....	.6	.6	1.0	2.0	280	14	7	2.6	2.9	1.4	.8	.8
16.....	.5	.6	.8	1.8	482	14	7	2.6	2.6	1.3	.8	.6
17.....	.5	.5	.7	1.6	151	12	7.5	2.4	2.4	1.1	.8	.6
18.....	.5	.5	.8	1.6	76	10	7	2.6	2.4	1.0	.9	.5
29.....	.5	.5	.7	1.6	46	13	7	2.6	2.1	1.0	.9	.5
20.....	.6	.5	.7	5	39	10	7	3.4	2.1	1.3	.8	.5
21.....	.6	.5	2.8	5.5	30	8.5	6	3.7	2.0	1.4	.8	.5
22.....	.6	.5	2.3	3.5	26	8.5	5.5	3.7	2.0	1.3	.8	.6
23.....	.6	.5	1.8	3.0	24	8.5	5	3.4	1.4	1.3	.8	.7
24.....	.5	7	1.8	2.5	23	8.5	5	3.4	1.6	1.1	.8	.8
25.....	.4	.4	1.8	2.0	18	8	5	3.2	1.9	1.0	.7	.9
26.....	.4	40	1.8	2.0	18	8	5	3.2	1.7	1.1	.7	.8
27.....	.4	9	1.8	2.0	16	8	5	3.7	1.6	1.0	.7	.8
28.....	.6	3.1	2.0	2.3	15	7.5	5	4.0	1.4	1.0	.7	.8
29.....	.5	2.3	1.8	2.3	-----	8	4.7	3.2	1.4	1.0	.8	.8
30.....	.5	1.8	2.0	2.3	-----	8.5	8.6	2.9	1.4	1.0	.8	1.0
31.....	.5	-----	2.3	2.5	-----	7.5	-----	2.9	-----	.9	.7	-----
Month	Maximum					Minimum			Mean		Run-off in acre-feet	
October.....	0.6					0.4			0.52		32.0	
November.....	46					.5			2.54		151	
December.....	6.5					.7			1.90		117	
January.....	5.5					1.6			2.56		159	
February.....	482					2.0			52.1		2,590	
March.....	32					7.5			13.2		812	
April.....	10					3.6			6.44		333	
May.....	5.5					2.4			3.55		215	
June.....	3.4					1.4			2.37		141	
July.....	1.4					.9			1.17		71.9	
August.....	.9					.7			.80		48.2	
September.....	1.0					.5			.69		41.1	
The year.....	482					.4			7.01		5,070	

SAWPIT CREEK NEAR MONROVIA, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 13, T. 1 N., R. 11 W., three-eighths mile below highway bridge, which is just below junction of two main branches and 2 miles north of Monrovia.

DRAINAGE AREA.—5.3 square miles at old location three-eighths mile upstream.

RECORDS AVAILABLE.—November, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, about 900 second-feet February 16; stream dry at gage for several months.

1916-1927: Maximum discharge, about 2,000 second-feet April 7, 1926, estimated from flow of Rogers Creek; stream dry several months each year.

REMARKS.—Records fair. Daily discharge ascertained from discharge measurements and by comparison with flow of Rogers Creek and Fish Creek. Part of the water supply for Monrovia is obtained from the two branches of Sawpit Creek above gage. See record for Monrovia pipe line (p. 63). A flood-control dam was under construction during the year. No water held in storage on September 30. City of Monrovia furnished observer for water-stage recorder.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1	0	0.4	0.2	0.4	2	1.0	1.2	0.2	0.1
2	0	.4	.2	.5	2	.8	1.2	.2	.1
3	0	.4	.2	.6	8	.5	1.2	.2	.1
4	0	.4	.2	1.0	8	.3	1.2	.2	.1
5	0	.3	.2	1.0	7	.3	1.1	.3	.1
6	0	.1	.2	.8	5	.3	1.0	.3	.1
7	0	.8	.2	.7	5	.8	.8	.3	.1
8	0	3.5	.2	.6	5	.3	.7	.3	.1
9	0	2.5	.2	.5	5	.3	.5	.3	.1
10	0	.4	.2	.3	5	2.0	.4	.3	.1
11	0	.4	.2	.5	5	1.5	.3	.2	.1
12	0	1.0	.2	.5	5	1.2	.3	.2	.1
13	0	2.0	.2	3.5	4.5	1.1	.3	.2	0
14	0	2.0	.2	100	4.0	1.0	.2	.2	0
15	0	.4	.2	175	3.5	1.0	.2	.2	0
16	0	.4	.2	350	3.0	1.0	.2	.2	0
17	0	.3	.2	130	2.8	1.0	.1	.2	0
18	0	.3	.2	65	2.5	.9	.1	.2	0
19	0	.2	.2	30	2.0	.9	.1	.2	0
20	0	.2	.2	15	1.8	.9	.1	.2	0
21	0	.1	.2	12	1.5	.9	.1	.2	0
22	.1	.2	.2	9	1.2	1.0	.1	.2	0
23	.2	.2	.2	8	.7	1.0	.1	.2	0
24	4.0	.8	.2	7	.5	1.0	.1	.2	0
25	.1	.3	.2	5	.5	1.1	.1	.2	0
26	10	.2	.2	3	.5	1.1	.1	.2	0
27	2.0	.2	.2	3	.5	1.1	15	.2	0
28	.6	.2	.2	2	.5	1.1	.2	.2	0
29	.5	.2	.2	-----	.5	1.1	.2	.2	0
30	.4	.2	.2	-----	3.9	1.1	.2	.2	0
31	-----	.2	.2	-----	2.0	-----	.2	-----	0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	10	0	0.60	35.7
December	3.5	.1	.62	33.1
January	.2	.2	.30	12.3
February	350	.4	33.0	1,880
March	8	.5	3.17	195
April	2.0	.3	.90	53.6
May	13	.1	.90	60.9
June	.3	.2	.22	13.1
July	.1	0	.04	2.5
The year	350	0	3.10	2,240

NOTE.—No flow in months omitted.

Combined daily and monthly discharge, in second-feet, of Sawpit Creek and Monrovia pipe line near Monrovia, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	0.8	1.2	1.3	1.3	4.0	2.6	3.8	2.1	1.9	1.4	1.3
2	.8	.6	1.0	1.3	1.6	4.2	2.6	3.6	1.6	1.9	1.4	1.3
3	.9	.4	.8	1.2	1.7	9.6	2.6	3.6	1.8	1.9	1.4	1.3
4	.3	.6	1.2	1.3	1.3	9	2.1	3.6	1.9	1.9	1.4	1.3
5	.8	.4	1.4	1.2	1.5	8.5	2.4	3.6	1.9	1.9	1.4	1.2
6	.8	.4	1.0	1.1	1.6	6.5	2.4	3.4	1.9	1.9	1.4	1.2
7	.8	.8	1.2	1.3	1.7	7	2.8	2.9	1.8	1.9	1.4	1.2
8	.8	.4	3.0	1.3	1.7	3	3.0	3.1	1.8	1.9	1.4	1.2
9	.8	.6	2.7	1.3	1.6	8	2.9	2.9	2.0	1.9	1.4	1.2
10	.8	.4	.6	1.0	1.3	7.5	4.5	2.6	2.2	1.8	1.4	1.2
11	.8	.4	1.3	1.0	1.4	7	3.9	2.5	2.1	1.8	1.4	1.3
12	.8	.4	3.1	1.1	1.7	6.5	3.6	2.7	2.0	1.6	1.4	1.3
13	.8	.4	3.1	1.3	4.7	6	3.9	2.5	2.1	1.6	1.4	1.3
14	.8	.8	3.2	1.3	100	6	4.1	2.3	2.1	1.5	1.4	1.3
15	.8	.5	1.4	1.2	175	6	4.0	2.3	2.1	1.5	1.4	1.3
16	.8	.6	1.5	1.1	350	6	4.0	2.2	2.0	1.5	1.4	1.3
17	.8	.5	.9	1.2	131	6	3.2	2.0	2.1	1.5	1.4	1.3
18	.8	.4	1.3	1.1	66	6	3.6	2.0	2.2	1.5	1.4	1.3
19	.8	.4	1.3	1.3	32	4.5	3.6	2.1	2.2	1.5	1.4	1.3
20	.8	.4	1.1	1.2	17	4.3	3.5	2.5	2.2	1.5	1.4	1.3
21	.8	.6	1.2	1.0	14	4.6	3.5	2.2	2.2	1.5	1.4	1.3
22	.4	.5	1.2	1.1	10	4.2	3.6	2.1	2.2	1.5	1.4	1.3
23	.6	.6	1.3	1.3	10	3.5	3.4	2.2	2.1	1.5	1.4	1.3
24	.8	4.4	1.4	1.1	9	3.3	3.6	2.0	2.1	1.5	1.3	1.3
25	.6	.6	1.6	1.0	6.5	2.1	3.7	2.0	2.1	1.5	1.3	1.2
26	.8	10	1.4	1.0	5	2.1	3.7	2.0	2.0	1.5	1.2	1.2
27	.3	2.4	1.3	1.1	5	3.3	3.2	20	2.1	1.4	1.3	1.2
28	.5	1.0	1.3	1.1	3.9	3.2	3.7	2.0	2.0	1.4	1.3	1.2
29	.5	.9	1.3	1.0		3.0	3.2	2.0	2.0	1.4	1.3	1.2
30	.3	.8	1.3	1.3		5.5	3.3	2.0	2.0	1.4	1.3	1.2
31	.8		1.2	1.1		3.1		2.1		1.4	1.3	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.9	0.4	0.75	46.1
November	10	.4	1.97	68.7
December	3.9	.6	1.51	92.8
January	1.3	1.0	1.17	71.9
February	350	1.3	34.3	1,900
March	9.5	2.1	5.43	334
April	4.5	2.1	3.35	199
May	29	2.0	3.13	192
June	2.2	1.6	2.04	131
July	1.9	1.4	1.63	99.6
August	1.4	1.2	1.37	82.3
September	1.3	1.2	1.26	75.0
The year	350	.4	4.53	3,200

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 1 1/4 miles north of Monrovia.

RECORDS AVAILABLE.—May, 1916, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 3.4 second-feet March 18; no flow February 16.

1916-1927: Maximum mean daily discharge, 6.1 second-feet May 9, 1922; no flow November 11, 1924, April 8 and 16, 1926, and February 16, 1927.

REMARKS.—Records excellent. The Monrovia pipe line furnishes part of the water supply of Monrovia. It obtains its water from two branches of Sawpit Creek. Most of this water is collected by tunnels driven into the side of the canyon. Gage-height record furnished by city of Monrovia.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.				
1	0.8	0.8	0.8	1.1	0.9	2.0	1.6	2.6	1.9	1.8	1.4	1.3				
2	.8	.6	.6	1.1	1.1	2.2	2.1	2.4	1.6	1.8	1.4	1.3				
3	.9	.4	.4	1.0	1.1	1.3	2.1	2.4	1.6	1.8	1.4	1.3				
4	.8	.6	.8	1.1	.5	1.1	1.8	2.4	1.7	1.8	1.4	1.3				
5	.8	.4	1.1	1.0	.5	1.5	2.1	2.4	1.6	1.8	1.4	1.2				
6	.8	.4	.9	.9	.8	1.7	2.1	2.4	1.6	1.8	1.4	1.2				
7	.8	.8	.4	1.1	1.0	2.2	2.5	2.1	1.5	1.8	1.4	1.2				
8	.8	.4	.4	1.1	1.1	2.3	2.7	2.4	1.5	1.8	1.4	1.2				
9	.8	.6	.2	1.1	1.1	2.3	2.6	2.4	1.7	1.8	1.4	1.2				
10	.8	.4	.2	.8	1.0	2.4	2.5	2.3	1.9	1.7	1.4	1.2				
11	.8	.4	.9	.8	.9	1.8	2.4	2.3	1.9	1.7	1.4	1.3				
12	.8	.4	1.1	.9	1.2	1.7	2.4	2.4	1.8	1.5	1.4	1.3				
13	.8	.4	1.1	1.1	1.2	1.5	2.3	2.2	1.9	1.5	1.4	1.3				
14	.8	.8	1.2	1.1	.4	2.1	3.1	2.1	1.9	1.5	1.4	1.3				
15	.8	.6	1.0	1.0	.2	2.7	3.0	2.1	1.9	1.5	1.4	1.3				
16	.8	.6	1.1	.9	0	2.3	3.0	2.0	1.8	1.5	1.4	1.3				
17	.8	.5	.6	1.0	.6	3.1	2.2	1.9	1.9	1.5	1.4	1.3				
18	.8	.4	1.0	.9	.9	3.4	2.7	1.9	2.0	1.5	1.4	1.3				
19	.8	.4	1.1	1.1	1.5	2.5	2.7	2.0	2.0	1.5	1.4	1.3				
20	.8	.4	.9	1.0	1.7	2.5	2.6	2.4	2.0	1.5	1.4	1.3				
21	.8	.6	1.1	.8	1.6	3.1	2.6	2.1	2.0	1.5	1.4	1.3				
22	.4	.4	1.0	.9	1.5	3.0	2.6	2.0	2.0	1.5	1.4	1.3				
23	.6	.4	1.1	1.1	1.8	2.8	2.4	2.1	1.9	1.5	1.4	1.3				
24	.8	.4	.6	.9	2.2	2.3	2.6	1.9	1.9	1.5	1.3	1.3				
25	.6	.5	1.3	.8	1.7	1.6	2.6	1.9	1.9	1.5	1.3	1.3				
26	.6	.4	1.2	.8	2.1	1.6	2.6	1.9	1.8	1.5	1.2	1.3				
27	.8	.4	1.1	.9	2.1	2.3	2.1	1.9	1.9	1.4	1.3	1.2				
28	.5	.4	1.1	.9	1.9	2.7	2.6	1.8	1.8	1.4	1.3	1.2				
29	.6	.4	1.1	.8		2.3	2.1	1.8	1.8	1.4	1.3	1.2				
30	.8	.4	1.1	1.1		1.5	2.2	1.8	1.8	1.4	1.3	1.2				
31	.8		1.0	.9		1.1		1.9		1.4	1.3					
Month													Maximum	Minimum	Mean	Run-off in acre-feet
October													0.9	0.4	0.75	43.1
November													.8	.4	.48	28.6
December													1.3	.2	.89	54.7
January													1.1	.8	.97	58.3
February													2.2	0	1.15	64.4
March													3.4	1.1	2.25	135
April													3.1	1.6	2.45	145
May													2.6	1.8	2.18	131
June													2.0	1.5	1.82	108
July													1.8	1.4	1.58	97.3
August													1.4	1.2	1.37	84.2
September													1.3	1.2	1.25	75.0
The year													3.4	0	1.43	1,050

SURFACE WATER SUPPLY, 1927, PART XI

SAN DIMAS CREEK NEAR SAN DIMAS, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 25, T. 1 N., R. 9 W., at mouth of San Dimas Canyon, 3 miles northeast of San Dimas.

DRAINAGE AREA.—18.3 square miles.

RECORDS AVAILABLE.—December, 1916, to September, 1927. (Discharge measurements only, April to September, 1916.)

EXTREMES.—Maximum discharge during year, 475 second-feet February 17 (gauge height, 8.00 feet); practically no flow October 1-3.

1916-1927: Maximum discharge, 1,140 second-feet February 9, 1922; stream often dry for several months during year.

REMARKS.—Records good. Discharge October 16 to November 19 estimated from records of diversions of San Dimas Water Co. Discharge June 30 to September 30 estimated from discharge measurements. Water diverted just below gage for irrigation. Los Angeles County flood reservoir three-fourths mile above station regulates flow during storms.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	0.2	2.6	1.3	1.2	9.5	8.5	2.4	4.5	0.7	0.1	
2	4.8	.2	2.6	1.3	1.1	10	8	2.4	4.4	.7	.1	
3	4.7	.2	2.6	1.2	1.1	14	7	2.4	4.4	.7	.1	
4	4.5	.2	2.2	1.2	3.6	19	7	2.4	4.4	.6	.1	
5	4.3	.2	1.6	1.2	3.7	18	6.5	2.4	4.4	.5	.1	
6	4.1	.2	1.5	1.2	2.6	14	6.5	2.4	4.4	.5	.1	
7	3.8	.2	2.0	1.2	2.2	14	6	1.9	4.4	.4	.1	
8	3.5	.2	3.9	1.2	2.0	13	6	.8	4.2	.4	.1	
9	3.4	.2	4.5	1.2	1.8	13	5.5	2.0	4.1	.4	.1	
10	3.3	.2	3.3	1.2	1.8	13	6.5	2.1	4.0	.3	.1	
11	2.6	.2	2.8	1.6	2.0	10	12	2.2	3.6	.3	.1	
12	1.7	.2	2.6	1.5	1.8	9.5	9.5	2.2	1.3	.3	.1	
13	1.6	.2	2.5	1.3	3.6	9.5	8.5	2.0	2.1	.2	.1	
14	1.6	.2	2.4	1.3	23	9	7.5	2.1	2.8	.2	.1	0.05
15	1.4	.2	2.3	1.3	53	8	7	2.1	2.8	.2	.1	
16	1.2	.2	2.2	1.3	179	7.5	6.5	3.0	3.0	.2	.1	
17	1.2	.2	2.1	1.3	371	7	6	4.4	3.0	.2	.1	
18	1.2	.2	2.1	1.3	226	8	5.5	4.2	3.3	.2	.1	
19	1.2	.2	2.1	1.3	180	7	5.5	4.2	3.0	.2	.1	
20	.6	.2	2.0	1.6	158	6.5	5.5	4.5	3.3	.2	.1	
21	.2	.2	3.3	2.5	93	6	4.1	4.6	3.2	.2	.1	
22	.2	.2	3.3	1.9	45	5.5	2.4	4.5	3.0	.2	.1	
23	.2	.2	3.1	1.7	19	5.5	2.3	4.6	2.9	.2	.1	
24	.2	.4	2.7	1.6	9	5.5	2.3	4.6	2.8	.2	.1	
25	.2	.5	2.3	1.5	10	5.5	2.3	4.6	2.6	.1	.1	
26	.2	1.6	2.0	1.5	12	5.5	2.3	4.6	2.4	.1	.1	
27	.2	2.0	1.7	1.4	11	5	2.3	4.6	2.0	.1	.1	0
28	.2	2.0	1.5	1.4	10	6	2.3	4.6	.7	.1	.1	0
29	.2	2.3	1.3	1.4		5.5	2.4	4.6	.7	.1	.1	0
30	.2	2.6	1.3	1.4		11	2.4	4.5	.7	.1	.1	0
31	.2		1.3	1.3		9.5		4.5		.1	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	7	0.2	1.93	119
November	2.6	.2	.53	31.5
December	4.5	1.3	2.39	147
January	2.5	1.2	1.41	84.7
February	371	1.1	51.0	2,830
March	19	5.5	9.42	579
April	12	2.3	5.54	390
May	4.6	.8	3.30	303
June	4.5	.7	3.08	193
July	.7	.1	.29	17.8
August	.1	.1	.10	6.1
September		0	.04	2.4
The year	371	0	6.27	4,540

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 one-fourth mile above mouth and $2\frac{1}{4}$ miles northeast of Glendora.

DRAINAGE AREA.—7.5 square miles.

RECORDS AVAILABLE.—December, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, 660 second-feet February 16 (gage height, 3.30 feet); no flow October 1 to February 3 and April 26 to September 30.

1919-1927: Maximum discharge, that of February 16, 1927; no flow for several months during each year.

REMARKS.—Records good except those for February 25 to March 2, March 23-30, and April 2 and 3, which were interpolated. The Glendora Irrigation Co. diverts water half a mile and $1\frac{1}{2}$ miles above gage through a 10-inch pipe line. A 12-inch pipe line diverts water at the dam.

Daily and monthly discharge, in second-feet, 1926-27

Day	Feb.	Mar.	Apr.	Day	Feb.	Mar.	Apr.	Day	Feb.	Mar.	Apr.
1.....	0	11	0.7	11.....	0.5	6	5	21.....	18	3.3	2.1
2.....	0	12	.7	12.....	.5	4.1	4.7	22.....	13	3.0	2.1
3.....	0	12	1.7	13.....	1.3	3.8	7	23.....	11	2.7	2.1
4.....	1.0	8.6	2.7	14.....	18	4.9	6.5	24.....	9.5	2.5	2.1
5.....	.6	8	2.5	15.....	40	4.9	5.5	25.....	9.5	2.3	1.0
6.....	.6	7	2.4	16.....	313	4.9	3.8	26.....	10	1.9	0
7.....	.5	6.5	2.5	17.....	78	4.4	3.0	27.....	10	1.7	0
8.....	.5	6.5	2.4	18.....	39	4.1	2.7	28.....	11	1.4	0
9.....	.5	6.5	2.4	19.....	28	3.8	2.4	29.....		1.2	0
10.....	.5	6.5	2.5	20.....	34	3.5	2.1	30.....		.9	0
								31.....		.7	
Month				Maximum		Minimum		Mean		Run-off in acre-feet	
February.....				313		0		23.2		1,290	
March.....				12		.7		4.85		298	
April.....				7		0		2.42		144	
The year.....				313		0		2.39		1,730	

NOTE.—No flow Oct. 1 to Feb. 3 and Apr. 26 to Sept. 30.

LOS ANGELES RIVER BASIN

PACOIMA CREEK NEAR SAN FERNANDO, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ NE. $\frac{1}{4}$ 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, 1927.

EXTREMES.—Maximum discharge during year, about 1,860 second-feet February 16 (gage height, 15.4 feet); no flow for several months.

1916-1927: Maximum discharge, that of February 16, 1927; usually no flow for several months each year.

REMARKS.—Records fair. Discharge interpolated January 28 to February 9 and February 23-28; estimated February 14-19; estimated on basis of discharge measurements April 21 to June 24. A flood-control dam above station was under construction during year.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1.....	0	0.8	0.7	0.1	32	20	7.5	1.9
2.....	0	.4	.8	.1	31	20	10	1.8
3.....	0	.4	.9	.1	42	20	7	1.7
4.....	0	.4	1.0	.1	41	11	2.4	1.6
5.....	0	1.0	1.2	.1	39	2.8	8	1.6
6.....	0	1.5	1.4	.1	34	9.5	11	1.5
7.....	0	2.0	1.6	.1	33	7.5	11	1.5
8.....	0	2.5	1.8	0	32	8	5	1.7
9.....	0	6	1.8	0	81	11	0	1.9
10.....	0	9	1.8	0	29	21	0	2.1
11.....	0	6	2.0	0	29	21	0	2.3
12.....	0	4.5	2.0	0	29	9.5	0	2.5
13.....	0	4.0	2.5	0	27	1.0	0	2.7
14.....	0	3.0	.9	80	28	9.5	0	2.5
15.....	0	2.5	.4	120	27	8.5	0	2.2
16.....	0	1.5	.5	445	25	3.2	0	2.0
17.....	0	1.0	.4	250	24	3.2	0	1.7
18.....	0	1.0	.4	150	22	8.5	0	1.4
19.....	0	1.0	.4	90	20	12	0	1.1
20.....	0	1.5	.6	73	22	10	0	.9
21.....	0	2.5	.5	63	23	9.5	0	.7
22.....	0	7.5	.4	58	20	3.5	0	.5
23.....	0	6	.4	48	20	3.5	0	.8
24.....	0	3.5	.4	44	20	2.0	0	.1
25.....	0	1.5	.4	41	21	1.5	2.0	0
26.....	0	1.5	.3	38	22	1.5	2.0	0
27.....	0	1.0	.3	35	24	1.5	2.0	0
28.....	0	.9	.3	32	25	2.0	2.0	0
29.....	3	.8	.3	—	26	7.5	2.0	0
30.....	1.5	.7	.2	—	24	2.0	2.0	0
31.....	—	.7	.2	—	20	—	2.0	—

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November.....	3.0	0	0.15	8.9
December.....	9	.4	2.47	152
January.....	2.5	.2	.86	52.9
February.....	445	0	56.0	3,110
March.....	42	20	27.1	1,670
April.....	21	1.0	8.39	499
May.....	11	0	2.45	151
June.....	2.7	0	1.27	75.6
The year.....	445	0	7.90	5,720

NOTE.—No flow in months omitted.

TUJUNGA CREEK NEAR SUNLAND, CALIF.

LOCATION.—Water-stage recorder near center of sec. 32, T. 3 N., R. 13 W. (unsurveyed), at 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, 1927.

EXTREMES.—Maximum discharge during year, about 3,830 second-feet February 16; minimum, 0.5 second-foot October 17 and 18.

1916-1927: Maximum discharge, 8,600 second-feet December 19, 1921 (gage height, 6.20 feet); minimum, estimated 0.1 second-foot September 20-23, 1919, and several days in August, September, and October, 1924.

REMARKS.—Records good except those for February 14-21, which are fair. Two or three ranches divert a part of the low-water flow for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	1.0	8.5	6	8	70	49	25	12	6	1.1	0.6
2	.9	1.1	8	7	8	73	49	24	12	5.5	1.0	.6
3	.8	1.1	7.5	7	8	115	44	28	12	5.5	1.0	.6
4	.7	1.0	8	7.5	34	112	41	23	13	4.3	1.0	.6
5	.7	.9	7.5	7.5	25	103	39	25	13	2.9	1.0	.6
6	.7	.9	8	8	17	109	40	26	14	3.2	1.0	.6
7	.9	.9	9.5	7.5	17	103	40	25	14	2.9	.9	.6
8	.9	.9	15	7.5	14	103	41	26	13	1.8	.9	.6
9	.8	.8	19	7.5	13	103	41	25	12	1.8	.9	.6
10	.8	.8	15	8	13	91	50	22	14	1.8	.9	.6
11	.8	1.0	13	9	15	91	51	22	14	1.5	.9	.6
12	.7	1.1	12	8.5	15	79	47	20	14	1.4	1.0	.6
13	.7	1.3	11	8.5	31	68	44	17	12	1.4	1.1	.6
14	.7	1.2	10	8.5	275	67	47	16	10	1.4	1.0	.7
15	.6	1.2	8	8.5	650	67	47	14	8.5	1.8	1.0	.8
16	.6	1.3	8	8	1,820	67	47	14	7.5	1.5	1.0	1.0
17	.5	1.2	8	7.5	770	64	45	14	7.5	1.4	1.0	1.0
18	.5	1.1	8	8	470	61	41	14	7.5	1.4	1.0	1.1
19	.6	1.1	8	8	350	56	41	16	8	1.5	1.0	1.0
20	.6	1.3	8	9	210	54	38	17	8	2.2	1.0	1.0
21	.6	1.8	13	9.5	130	51	35	16	7	2.2	1.0	1.0
22	.7	2.0	11	8.5	121	49	33	16	7	1.4	1.0	.9
23	.7	2.2	10	8.5	118	48	32	14	6	1.3	.9	.9
24	.7	47	9.5	8.5	115	48	30	14	6.5	1.2	.8	1.0
25	.7	12	9	9	103	47	29	13	9	1.2	.8	1.0
26	.7	55	8.5	9.5	94	47	29	14	8.5	1.2	.6	.9
27	.7	32	8	9.5	85	42	29	14	7.5	1.2	.6	.8
28	.8	17	7.5	9	73	47	29	14	6.5	1.2	.6	.8
29	1.0	12	6.5	8.5	—	49	27	12	6.5	1.2	.6	1.0
30	1.1	10	6	8.5	—	54	26	12	5.5	1.2	.6	1.0
31	1.1	—	6	8.5	—	55	—	12	—	1.0	.6	—
Month						Maximum	Minimum	Mean	Run-off in acre-feet			
October						1.1	0.5	0.74	45.5			
November						88	.8	8.94	582			
December						19	6	9.52	585			
January						9.5	6	8.21	505			
February						1,820	8	200	11,100			
March						115	47	70.9	4,360			
April						51	28	39.4	2,340			
May						26	12	18.0	1,110			
June						14	5.5	9.37	587			
July						6	1.0	2.11	130			
August						1.1	.6	.90	55.3			
September						1.1	.6	.79	47.0			
The year						1,820	.5	29.6	21,400			

HAINES CREEK NEAR TUJUNGA, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 18, T. 2 N., R. 13 W., 800 feet above mouth of canyon and $1\frac{1}{2}$ miles northeast of Tujunga.

DRAINAGE AREA.—1.2 square miles.

RECORDS AVAILABLE.—February, 1917, to September, 1927.

EXTREMES.—Maximum discharge during year, 4.3 second-feet February 16 (gage height, 1.13 feet); minimum, about 0.005 second-foot October, November, August, and September.

1917-1927: Maximum discharge, 15 second-feet January 2, 1922 (gage height, 1.74 feet); stream dry July 18 to August 1, 1921, August 29 to October 12, 1925, and December 19, 1925, to January 10, 1926.

REMARKS.—Records fair. No daily discharge ascertained October 1 to January 31 and July 1 to September 30. Diversions above and below station. Several small check dams have been built across stream in upper part of drainage basin.

Daily and monthly discharge, in second-feet, 1926-27

Day	Feb.	Mar.	Apr.	May	June	Day	Feb.	Mar.	Apr.	May	June
1.....	0.01	0.20	0.19	0.11	0.02	16.....	2.9	0.23	0.15	0.04	0.03
2.....	.01	.23	.19	.11	.02	17.....	.40	.22	.15	.03	.03
3.....	.01	.35	.19	.10	.02	18.....	.26	.22	.15	.03	.03
4.....	.01	.31	.19	.10	.02	19.....	.23	.20	.15	.03	.03
5.....	.01	.24	.18	.09	.02	20.....	.24	.19	.15	.03	.01
6.....	.01	.24	.18	.09	.02	21.....	.24	.18	.15	.03	.01
7.....	.01	.24	.18	.08	.02	22.....	.23	.19	.14	.03	.01
8.....	.01	.25	.19	.08	.02	23.....	.22	.20	.14	.03	.01
9.....	.01	.25	.22	.07	.02	24.....	.20	.20	.13	.02	.01
10.....	.01	.25	.23	.07	.02	25.....	.20	.22	.13	.02	.01
11.....	.01	.26	.19	.06	.02	26.....	.20	.22	.12	.02	.01
12.....	.01	.26	.18	.06	.02	27.....	.20	.22	.12	.02	.01
13.....	.02	.26	.18	.05	.02	28.....	.20	.20	.12	.02	.01
14.....	.45	.24	.18	.05	.02	29.....		.22	.12	.02	.01
15.....	.75	.23	.15	.04	.02	30.....		.22	.12	.02	.01
						31.....		.22		.02	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....			* 0.005	0.81
November.....			* .005	.30
December.....			* .010	.61
January.....			* .015	.22
February.....	2.9	0.01	.252	14.0
March.....	.35	.18	.231	14.2
April.....	.23	.12	.162	9.04
May.....	.11	.02	.051	3.14
June.....	.03	.01	.018	1.37
July.....			* .010	.61
August.....			* .005	.31
September.....			* .005	.30
The year.....	2.9		.063	45.4

* Estimated.

ARROYO SECO NEAR PASADENA, CALIF.

LOCATION.—Water-stage recorder near south line of sec. 30, T. 2 N., R. 12 W. (unsurveyed), just below trail crossing at forest ranger's station, in Angeles National Forest, $1\frac{1}{2}$ miles above mouth of Millard Canyon, and $3\frac{1}{2}$ miles northwest of Pasadena.

DRAINAGE AREA.—16.4 square miles.

RECORDS AVAILABLE.—December, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, about 1,400 second-feet February 16 (gage height, 5.9 feet); stream practically dry October 1 to November 23, 1910–1927: Maximum discharge, about 5,630 second-feet February 20, 1914 (gage height, 12.5 feet); stream practically dry July 20 to September 30, 1925, and August 12 to November 23, 1926.

REMARKS.—Records good below 60 second-feet and fair above. Discharge estimated February 14–17. Daily discharge not ascertained for August and September. No diversions.

Daily and monthly discharge, in second-feet, 1926–27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1	0	1.8	1.9	1.9	26	12	7	2.9	1.5
2	0	1.5	1.9	1.8	24	10	7	2.9	1.5
3	0	2.1	1.9	1.8	38	10	6	2.9	1.3
4	0	1.8	1.9	12	35	9.5	6	2.9	1.8
5	0	1.5	2.1	14	33	9.5	6.5	2.9	1.2
6	0	1.9	2.1	7	29	9.5	7.5	2.9	1.1
7	0	2.1	2.1	4.8	26	9.5	7.5	2.9	0
8	0	8.5	2.1	3.9	25	9.5	7.5	2.9	0
9	0	9.5	2.1	3.4	24	9.5	7.5	2.9	0
10	0	4.6	2.1	3.2	24	11	6.5	3.2	0
11	0	3.7	2.1	3.0	23	13	5.5	3.4	0
12	0	3	2.1	2.9	22	12	5	3.7	0
13	0	2.9	2.1	7	21	11	4.6	3.4	7
14	0	2.4	2.2	175	19	11	4.4	3.0	7
15	0	2.2	2.2	320	17	11	4.1	2.7	7
16	0	1.9	2.2	775	17	11	3.9	2.2	0
17	0	1.8	2.2	240	18	10	3.4	2.1	0
18	0	1.8	2.2	102	16	9.5	3.2	2.1	0
19	0	1.5	2.2	75	14	9.5	3.7	2.1	0
20	0	1.4	2.4	60	13	9	4.4	2.1	0
21	0	2.2	2.4	50	11	8	3.9	2.1	0
22	0	4.4	2.2	45	9.5	7.5	3.2	2.1	0
23	0	2.6	2.2	40	9.5	7	3.2	1.9	0
24	3.4	2.4	2.2	38	10	7	3.2	1.6	0
25	2.1	2.2	2.2	33	11	7	3	1.6	0
26	9	2.2	2.2	31	12	6.5	3	1.6	4
27	25	2.2	2.2	29	11	6.5	3.2	1.6	3
28	6.5	2.2	2.1	28	11	6.5	3.2	1.6	2
29	2.6	2.2	1.9	-----	12	7	3.2	1.6	1
30	2.2	2.1	1.9	-----	12	7	3.0	1.5	1
31	-----	2.1	1.9	-----	12	-----	2.9	-----	10
Month	Maximum		Minimum		Mean		Run-off in acre-feet		
November	25		0		1.69		101		
December	9.5		1.4		2.73		198		
January	2.4		1.9		2.11		139		
February	775		1.8		75.3		4,336		
March	38		9.5		13.9		1,163		
April	13		6.5		9.23		549		
May	7.5		2.9		4.73		290		
June	3.7		1.5		2.44		145		
July	-----		-----		.71		43.7		
August	-----		-----		.1		6.1		
September	-----		-----		.1		6.0		
The year	775		0		9.37		6,780		

• Estimated.

NOTE.—No flow in October.

SURFACE WATER SUPPLY, 1927, PART XI

SANTA ANITA CREEK NEAR SIERRA MADRE, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 10, T. 1 N., R. 11 W., at head of Hermits Falls, 4 miles northeast of Sierra Madre.

DRAINAGE AREA.—10.5 square miles.

RECORDS AVAILABLE.—July, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, about 645 second-feet February 16 (gage height, 6.50 feet); minimum, 0.2 second-foot October 5-8 and 13-18.

1916-1927: Maximum discharge, about 1,400 second-feet April 7, 1926 (gage height, 10.7 feet); minimum, 0.1 second-foot September 30, 1925.

REMARKS.—Records good below 300 second-feet and fair above. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.3	0.3	2.0	2.1	2.0	14	13	6	3.7	2.2	1.2	0.4
2.....	.4	.3	1.7	2.1	2.0	14	13	6	3.8	2.2	1.2	.4
3.....	.4	.3	2.2	2.1	2.0	27	12	5.5	3.7	2.1	1.2	.4
4.....	.3	.3	2.1	2.0	13	24	12	5.5	3.7	2.0	1.1	.4
5.....	.2	.3	1.9	2.0	8.5	23	11	6	3.4	1.7	1.0	.4
6.....	.2	.3	2.0	2.1	6	22	11	6.5	3.4	1.6	1.0	.4
7.....	.2	.3	2.0	2.1	4.6	22	11	7	3.2	1.6	1.0	.5
8.....	.2	.3	5	2.6	3.8	22	11	6	3.2	1.6	1.0	.5
9.....	.3	.3	4.6	1.8	3.7	23	11	5.5	3.2	1.5	.9	.6
10.....	.4	.3	3.7	1.8	3.5	23	12	5.5	3.5	1.5	.9	.5
11.....	.4	.3	3.0	2.3	3.5	22	13	5.5	3.5	1.5	.9	.5
12.....	.3	.6	2.7	2.2	3.2	20	12	4.6	3.4	1.5	.9	.5
13.....	.2	.7	2.5	2.1	13	19	11	4.2	3.2	1.5	.9	.7
14.....	.2	.5	2.4	2.0	95	19	11	4.0	3.0	1.6	.8	.8
15.....	.2	.5	2.3	2.0	145	18	11	3.8	2.8	1.6	.7	.7
16.....	.2	.4	2.2	1.8	431	17	11	3.7	2.7	1.5	.7	.6
17.....	.2	.4	2.1	1.8	162	16	10	3.7	2.7	1.3	.7	1.0
18.....	.2	.4	2.0	1.8	74	15	9.5	3.7	2.7	1.2	.7	.3
19.....	.3	.4	1.9	1.8	51	15	9.5	3.8	2.7	1.2	.7	.7
20.....	.4	.4	1.7	3.4	42	14	9	4.2	2.7	1.3	.7	.6
21.....	.5	.4	8.5	6.5	36	14	8	4.0	2.7	1.2	.6	.5
22.....	.5	.4	3.2	3.8	30	14	7.5	3.8	2.4	1.2	.7	.5
23.....	.6	.4	2.8	3.4	25	13	7	3.7	2.3	1.2	.6	.5
24.....	.4	8.5	2.5	2.8	22	13	6.5	3.5	2.2	1.2	.5	.6
25.....	.3	1.8	2.5	2.5	20	13	6	3.5	2.3	1.1	.4	.7
26.....	.3	18	2.4	2.3	17	13	6	3.7	2.3	1.2	.4	.6
27.....	.3	14	2.4	2.3	16	13	6	3.8	2.3	1.2	.4	.5
28.....	.3	3.4	2.3	2.1	15	13	6	3.8	2.3	1.1	.5	.5
29.....	.4	2.5	2.3	2.1	-----	14	6	3.8	2.3	1.1	.5	.6
30.....	.3	2.1	2.2	2.6	-----	14	6	4.0	2.2	1.1	.5	.6
31.....	.3	-----	2.2	2.0	-----	14	-----	3.7	-----	1.0	.4	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	0.5	0.2	0.31	19.1
November.....	18	.3	1.97	117
December.....	5.0	1.7	2.53	136
January.....	6.5	3.8	2.36	145
February.....	431	2.0	44.6	2,490
March.....	27	13	17.3	1,000
April.....	13	6	9.63	571
May.....	7	3.5	4.58	282
June.....	3.8	2.2	2.92	172
July.....	2.2	1.0	1.45	88.9
August.....	1.3	.4	.78	48.7
September.....	1.0	.4	.57	35.0
The year.....	431	.2	7.15	5,120

LITTLE SANTA ANITA CREEK NEAR SIERRA MADRE, CALIF.

LOCATION.—Water-stage recorder near center of W. $\frac{1}{2}$ 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, 1927.

EXTREMES.—Maximum discharge during year, about 140 second-feet February 16 (gage height, 2.40 feet); minimum, 0.05 second-foot October 1 to November 23.

1916-1927: Maximum stage, 11.75 feet April 7, 1926 (discharge, not computed); stream dry during periods in 1919, 1924, and 1925.

REMARKS.—Records good. Discharge estimated October 1 to November 23. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0.5	0.2	0.3	3.4	1.6	1.0	0.6	0.4	0.1	0.1
2			.4	.2	.2	3.0	1.6	1.0	.6	.4	.1	.1
3			.5	.2	.3	4.6	1.6	1.0	.7	.4	.1	.1
4			.5	.2	.9	3.8	1.6	1.0	.7	.4	.1	.1
5			.4	.2	.9	3.4	1.6	1.0	.7	.4	.1	.1
6			.4	.2	.8	3.4	1.6	1.2	.6	.4	.1	.1
7			.4	.2	.6	2.7	1.6	1.4	.7	.4	.1	.1
8			.6	.2	.6	2.7	1.6	1.2	.7	.3	.1	.1
9			.6	.2	.5	2.7	1.6	1.2	.7	.3	.1	.1
10			.3	.2	.5	2.7	1.6	1.2	.7	.3	.1	.1
11			.3	.2	.5	2.4	1.6	1.0	.8	.3	.1	.1
12		0.05	.3	.2	.5	2.4	1.6	1.0	.8	.3	.1	.1
13			.3	.2	.9	2.4	1.6	1.0	.6	.2	.1	.2
14			.3	.2	22	2.4	1.6	.9	.7	.2	.1	.2
15			.3	.2	30	2.4	1.6	.9	.7	.2	.1	.2
16		0.05	.3	.2	82	2.2	1.5	.8	.7	.2	.1	.2
17			.3	.2	25	2.2	1.5	.8	.7	.2	.1	.2
18			.3	.2	14	2.2	1.4	.8	.7	.2	.1	.2
19			.3	.2	11	1.9	1.4	.8	.6	.1	.1	.2
20			.3	.4	9	1.9	1.3	.9	.6	.1	.1	.1
21			.4	.5	6.5	1.6	1.2	.8	.6	.1	.1	.1
22			.3	.4	6	1.6	1.3	.8	.6	.1	.1	.1
23			.8	.4	5.5	1.6	1.4	.7	.6	.1	.1	.1
24		1.0	.3	.4	5.5	1.6	1.3	.6	.6	.1	.1	.1
25		.2	.3	.4	4.2	1.6	1.3	.6	.5	.1	.1	.1
26		2.1	.3	.3	3.8	1.6	1.2	.6	.5	.1	.1	.1
27		1.1	.3	.3	3.8	1.6	1.2	.6	.4	.1	.1	.1
28		.6	.3	.3	3.8	1.6	1.2	.7	.4	.1	.1	.1
29		.6	.3	.3		1.6	1.1	.7	.4	.1	.1	.1
30		.5	.3	.3		1.6	1.1	.6	.4	.1	.1	.1
31			.2	.2		1.6		.6		.1	.1	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			0.05	2.1
November	2.1		.24	14.8
December	.6	0.2	.25	25.6
January	.5	.2	.26	16.9
February	82	.2	3.55	476
March	4.6	1.6	2.24	144
April	1.6	1.1	1.45	83.3
May	1.4	.6	.88	54.1
June	.8	.4	.62	36.9
July	.4	.1	.22	13.5
August	.1	.1	.10	4.1
September	.2	.1	.12	7.1
The year	82		1.21	878

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, 1927.

EXTREMES.—Maximum discharge during year, about 863 second-feet February 16 (gage height, 4.10 feet); no flow for several months.

1918-1927: Maximum discharge, about 1,360 second-feet April 7, 1926 (gage height, 5.0 feet); no flow for periods each year.

REMARKS.—Records good except those for extremely high stages, which are fair. City of Pasadena diverts water above station; records of diversion furnished by city.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
1	0	0	0	0	3.7	3.7	0.7
2	0	0	0	0	2.3	3.3	0
3	0	0	0	0	15	8.1	0
4	0	0	0	10	8	3.1	0
5	0	0	0	2.2	8	3.2	0
6	0	0	0	0	7	2.7	0
7	0	0	0	0	7	2.2	0
8	0	6	0	0	8	2.6	0
9	0	3.2	0	0	9.5	2.4	3
10	0	.3	0	1.5	8.5	3.9	.3
11	0	0	.5	.7	8	3.9	.7
12	0	0	0	.2	7	3.5	0
13	0	0	0	1.8	6	3.1	0
14	0	0	0	63	6	3.7	0
15	0	0	0	99	5.5	3.7	0
16	0	0	0	337	5.5	3.5	0
17	0	0	0	96	5	3.4	0
18	0	0	0	43	5	3.2	0
19	0	0	0	31	5	3.1	0
20	0	0	0	25	4.1	2.6	0
21	0	.5	0	17	2.8	2.2	0
22	0	0	0	10	1.9	1.6	0
23	0	1.2	0	7.5	2.3	.4	0
24	1.1	.8	0	6	3.5	0	0
25	0	0	0	5.5	2.5	.9	0
26	14	0	0	4.4	3.4	.9	0
27	10	0	0	3.5	2.4	.9	0
28	.5	0	0	2.9	2.8	.2	0
29	0	0	0		4	.8	0
30	0	0	0		4.8	2.2	0
31		0	0		4.5		0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	14	0	0.85	50.6
December	6	0	.30	24.9
January	.5	0	.09	1.2
February	337	0	27.4	1,320
March	15	1.9	5.52	389
April	3.9	0	2.47	247
May	.7	0	1.06	3.7
The year	337	0	2.86	2,099

NOTE.—No flow in months omitted.

Monthly diversion by city of Pasadena from Eaton Creek, 1926-27

Month	Run-off in acre-feet	Month	Run-off in acre-feet	Month	Run-off in acre-feet
October	20.0	March	123.8	August	31.6
November	29.7	April	106.4	September	26.8
December	98.5	May	169.1		
January	69.0	June	107.8	The year	961.4
February	121.6	July	57.1		

SANTA CLARA RIVER BASIN

SESPE CREEK NEAR SESPE, CALIF.

LOCATION.—Water-stage recorder in Santa Barbara National Forest, three-fourths of a mile below mouth of West Fork of Sespe Creek, $4\frac{1}{2}$ miles above intake of Fillmore Canal, and $6\frac{1}{2}$ miles northwest of Sespe, Ventura County.

DRAINAGE AREA.—216 square miles.

RECORDS AVAILABLE.—October, 1915, to January, 1927 (incomplete). Discontinued.

EXTREMES.—Maximum discharge during year, about 3,460 second-feet November 26 (gage height, 10.20 feet); minimum, 3.0 second-feet October 18.

1915-1927: Maximum discharge, about 27,000 second-feet April 7, 1926 (gage height, 16.0 feet); minimum, 0.8 second-foot July 30 to August 1, 1924.

REMARKS.—Records fair except those for high stages, which are poor. No diversions above station. Gage-height record and results of some discharge measurements furnished by Ventura Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Day	Oct.	Nov.	Dec.	Jan.
1.....	3.5	3.7	31	13	16.....	3.7	3.5	17	-----
2.....	4.1	3.7	26	13	17.....	3.5	3.5	16	-----
3.....	4.1	3.5	30	13	18.....	3.0	3.7	16	-----
4.....	3.7	3.7	32	14	19.....	3.1	3.7	16	-----
5.....	3.4	3.7	30	13	20.....	3.3	4.1	16	-----
6.....	3.3	3.7	24	14	21.....	3.7	4.1	16	-----
7.....	3.3	3.7	22	14	22.....	3.7	4.1	17	-----
8.....	3.4	3.5	22	14	23.....	3.7	4.5	16	-----
9.....	3.5	3.5	21	14	24.....	3.5	48	16	-----
10.....	3.5	3.5	20	14	25.....	3.5	26	15	-----
11.....	3.7	3.5	19	16	26.....	3.4	710	15	-----
12.....	3.7	3.9	19	13	27.....	3.4	678	15	-----
13.....	3.5	3.7	18	17	28.....	3.5	94	14	-----
14.....	3.7	3.5	18	16	29.....	3.5	53	14	-----
15.....	3.7	3.4	18	-----	30.....	3.5	38	14	-----
					31.....	3.5	-----	13	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	4.1	3.0	3.54	218
November.....	710	3.4	57.7	3,480
December.....	32	13	19.2	1,180
January 1-14.....	18	13	14.5	408
The period.....				5,230

SANTA YNEZ RIVER BASIN

SANTA YNEZ RIVER NEAR LOMPOC, CALIF.

LOCATION.—Staff gage near east boundary of La Misión Vieja de la Purísima grant, at highway bridge $1\frac{1}{2}$ miles east of Lompoc, Santa Barbara County.

DRAINAGE AREA.—790 square miles.

RECORDS AVAILABLE.—November, 1906, to September, 1918; April, 1925, to September, 1927. (Discharge not computed for 1909.)

EXTREMES.—Maximum discharge during year, about 13,600 second-feet April 8 (gage height, 14.0 feet); minimum, 0.1 second-foot several days in September. 1906-1918, 1925-1927: Maximum discharge, 41,800 second-feet January 25, 1914 (gage height, 13.0 feet); minimum, 0.1 second-foot October 8-10, 1925, and several days in September, 1927.

REMARKS.—Records poor. Discharge interpolated May 24 to June 10. Water is diverted by the city of Santa Barbara at Gibraltar Dam, and some irrigation water is pumped from wells along banks of river.

Daily and monthly discharge, in second-feet, 1906-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	0.6	2.1	90	38	59	490	178	77	32	11	0.6	0.4
2-----	.6	2.4	80	37	59	350	192	70	31	11	.6	.4
3-----	.6	3.4	48	35	59	1,150	201	68	30	9.5	.4	.4
4-----	.8	2.6	146	34	610	1,100	201	61	29	9.5	.4	.1
5-----	.8	2.6	55	32	237	650	192	55	28	9.5	.4	.8
6-----	.6	4.3	51	37	230	420	192	55	27	7	.4	.4
7-----	.6	3.4	53	34	142	318	192	59	26	7	.4	1.1
8-----	.6	4.3	51	30	106	286	187	61	26	5	.4	.4
9-----	.6	2.6	55	30	95	269	178	59	25	5	.6	.4
10-----	.6	2.4	57	82	98	275	178	64	24	5	.6	1.6
11-----	.6	2.6	51	55	98	530	292	68	23	5	.6	.4
12-----	.6	4.3	46	98	92	530	331	68	23	6	.6	.4
13-----	.6	6	44	61	87	455	280	70	23	4.3	.6	.1
14-----	.6	6	42	70	2,260	420	220	66	20	4.3	.6	.1
15-----	.6	5	40	59	5,810	264	154	61	20	4.3	.6	.1
16-----	.6	5	40	55	10,400	252	139	57	20	4.3	.6	.6
17-----	.6	4.3	35	50	7,610	247	132	50	18	4.3	.6	.6
18-----	.6	4.3	40	42	3,470	241	135	48	18	3.4	.6	.6
19-----	.6	4.3	35	40	2,700	258	128	44	15	3.4	.6	.1
20-----	.6	4.3	30	37	1,940	252	132	42	15	3.4	.6	.1
21-----	.6	4.3	29	42	1,540	269	122	42	11	3.4	.6	.1
22-----	.6	4.3	30	48	1,060	275	115	38	11	3.4	.6	.1
23-----	.6	2.6	32	48	850	299	115	38	9.5	3.4	.6	.1
24-----	.6	6	30	55	850	305	108	38	9.5	2.6	.6	.4
25-----	.6	10	32	59	650	242	108	37	8.5	2.6	.6	.1
26-----	.6	166	34	59	650	241	103	36	10	1.4	.6	.1
27-----	.6	2,040	35	61	490	220	95	35	10	1.4	.6	.1
28-----	.6	690	40	59	490	206	90	35	11	.6	.6	.1
29-----	.6	142	42	59	-----	252	85	34	12	.6	.6	.1
30-----	.4	122	40	59	-----	247	82	34	14	.6	.4	.1
31-----	1.1	-----	40	59	-----	220	-----	33	-----	.6	.4	-----
Month						Maximum	Minimum	Mean	Run-off in acre-feet			
October-----						1.1	0.4	0.62	38.1			
November-----						2,040	2.1	109	6,490			
December-----						146	29	47.5	2,920			
January-----						98	30	50.5	3,118			
February-----						10,400	59	1,520	84,400			
March-----						1,160	206	372	22,900			
April-----						331	82	162	9,640			
May-----						77	33	51.7	3,180			
June-----						32	8.5	19.3	1,150			
July-----						11	.6	4.61	283			
August-----						.6	.4	.55	33.8			
September-----						1.8	.1	.35	20.8			
The year-----						10,400	.1	186	134,000			

SALINAS RIVER BASIN

ARROYO SECO NEAR SOLEDAD, CALIF.

LOCATION.—Staff gage in sec. 21, T. 19 S., R. 6 E., at Pettitt ranch, 15 miles south of Soledad.

DRAINAGE AREA.—215 square miles.

RECORDS AVAILABLE.—January, 1901, to September, 1927.

EXTREMES.—Maximum discharge during year, about 22,000 second-feet November 27 (gage height, 16.5 feet); probably no flow October 1 and 2.

1901-1927: Maximum discharge, about 22,000 second-feet February 21, 1917, and November 27, 1926 (gage height, 16.5 feet); stream dry during periods in 1902, 1903, 1904, 1906, 1913, 1914, 1919, 1921, 1924, and 1926.

REMARKS.—Records fair. Daily discharge not determined November 24-30, September 1, 2, and 4-30. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0	6	115	4.8	45	625	170	155	62	25	3.7	-----
2.....	0	6	85	4.8	42	575	170	150	59	25	3.7	-----
3.....	2.0	6	82	4.8	39	550	1,180	145	59	25	2.6	1.8
4.....	2.0	7	62	3.7	1,450	455	700	140	56	23	2.6	-----
5.....	2.0	7	53	3.7	1,060	415	600	140	53	23	2.6	-----
6.....	2.8	7	50	3.7	815	395	375	135	53	23	2.6	-----
7.....	2.8	9	45	3.7	650	395	335	130	53	23	2.6	-----
8.....	2.8	10	39	3.7	6,500	375	318	125	50	23	2.6	-----
9.....	3.6	11	27	2.6	11,900	375	300	125	50	23	2.6	-----
10.....	3.6	12	25	120	2,730	375	265	120	50	23	1.5	-----
11.....	3.6	14	25	235	2,730	355	235	115	47	23	1.5	-----
12.....	3.6	15	23	65	2,100	355	235	115	45	23	1.5	-----
13.....	3.6	15	20	82	1,450	335	235	110	45	20	1.5	-----
14.....	3.6	17	20	82	1,250	335	229	95	42	20	1.4	-----
15.....	3.6	17	18	75	1,120	335	229	101	42	20	1.4	-----
16.....	3.6	18	18	71	935	335	229	97	42	19	1.4	-----
17.....	4.4	18	16	75	815	318	223	97	42	18	1.4	-----
18.....	4.4	18	16	75	650	318	217	93	42	18	1.4	-----
19.....	4.4	20	14	71	575	318	211	89	39	16	1.4	-----
20.....	5	21	14	68	550	300	206	89	39	16	1.4	-----
21.....	5	23	14	130	525	300	200	85	37	14	1.4	-----
22.....	5	23	14	101	500	265	195	82	37	14	1.4	-----
23.....	5	24	12	85	1,250	265	190	82	34	12	1.4	-----
24.....	5	-----	12	75	1,890	235	180	78	31	11	1.4	-----
25.....	5	-----	11	65	1,250	235	180	75	32	11	1.4	-----
26.....	5	-----	11	62	995	235	175	71	32	9	1.5	-----
27.....	5	-----	9	59	700	180	175	71	29	7	1.5	-----
28.....	6	-----	9	59	650	180	170	68	29	6	1.5	-----
29.....	6	-----	7	53	-----	180	165	68	27	6	1.5	-----
30.....	6	-----	7	50	-----	175	160	65	25	4.8	1.5	-----
31.....	6	-----	7	47	-----	175	-----	65	-----	4.8	1.5	-----
Month					Maximum	Minimum	Mean	Run-off in acre-feet				
October.....					6	0	3.88	239				
November.....					115	6	650	38,700				
December.....					235	7	28.4	1,750				
January.....					11,900	2.6	59.4	3,650				
February.....					625	39	1,610	89,400				
March.....					1,180	175	331	20,400				
April.....					155	160	282	16,800				
May.....					62	65	102	6,270				
June.....					25	25	42.8	2,550				
July.....					3.7	4.8	17.1	1,050				
August.....					-----	1.4	1.85	114				
September.....					-----	-----	1.5	89.3				
The year.....					-----	0	250	181,000				

* Estimated.

COYOTE CREEK BASIN

COYOTE CREEK NEAR MADRONE, CALIF.

LOCATION.—Staff gage in northwest corner of San Jose grant, above highway bridge at mouth of canyon, one-fourth mile below mouth of Las Animas Creek, and $2\frac{1}{4}$ miles northeast of Madrone, Santa Clara County.

DRAINAGE AREA.—193 square miles.

RECORDS AVAILABLE.—October, 1902, to September, 1912; December, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, 6,340 second-feet February 16 (gage height, 12.0 feet); minimum, 0.3 second-foot October 6 and 7 (gage height, 1.84 feet).

1902-1912, 1916-1927: Maximum discharge, 25,000 second-feet, probably occurred March 7, 1911; no flow during several short periods from 1902-1911, from August 8 to November 15, 1920, and from July 16 to September 15, 1924.

REMARKS.—Records good. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.4	0.5	16	6	18	152	108	23	10	4.5	2.2	0.9
2.....	.6	.5	13	6.5	18	131	394	24	10	4.4	2.5	.8
3.....	.5	.5	12	6.5	191	131	648	24	9.5	4.3	2.3	.8
4.....	.4	.5	14	6.5	1,000	125	343	22	9.5	4.2	2.1	.9
5.....	.4	.5	16	6	270	119	226	22	9	3.9	2.0	.9
6.....	.3	.5	13	10	150	103	152	22	8.5	3.6	1.9	.8
7.....	.3	.5	11	8	91	88	114	24	8.5	3.4	1.6	.7
8.....	.4	.5	9.5	7	65	84	103	22	10	3.3	1.6	.6
9.....	.5	.5	9	8.5	54	98	98	22	9.5	3.2	1.6	.7
10.....	.9	.5	8.5	11	45	177	103	20	9	3.1	1.5	.6
11.....	.8	.6	8.5	14	40	125	98	20	8	3.0	1.5	.6
12.....	.7	.6	8	25	36	108	88	20	8	2.9	1.6	.6
13.....	.6	.6	8	22	45	103	79	18	8	2.9	1.8	.6
14.....	.6	.6	7.5	18	245	145	66	17	7.5	3.1	1.6	.5
15.....	.6	.6	7.5	17	3,020	114	62	18	7.5	3.0	1.5	.5
16.....	.5	.6	7	30	4,340	98	62	17	7.5	3.3	1.5	.4
17.....	.5	.6	6.5	68	820	93	54	16	7.5	3.2	1.4	.6
18.....	.5	.6	6	40	2,910	88	47	16	7	2.9	1.5	.6
19.....	.4	.7	6	35	820	79	47	16	6.5	2.9	1.3	.6
20.....	.4	.7	5.5	87	490	70	41	15	6.5	2.9	1.3	.6
21.....	.5	.6	6	91	450	96	41	14	6	2.7	1.3	.5
22.....	.5	1.6	6.5	58	376	62	38	14	6	2.5	1.2	.5
23.....	.6	1.5	6.5	38	328	54	36	14	6	2.4	1.1	.5
24.....	.6	12	5.5	31	970	50	34	14	6	2.3	1.1	.5
25.....	.6	14	5.5	28	580	47	32	13	5.5	2.3	1.0	.5
26.....	.5	14	5.5	25	411	44	30	12	5.5	2.5	1.0	.5
27.....	.5	435	5.5	22	273	41	28	12	4.9	2.4	1.1	.5
28.....	.5	79	5.5	20	196	41	28	11	4.7	2.3	1.2	.5
29.....	.5	38	5	20	—	41	27	11	4.4	2.3	1.2	.5
30.....	.5	28	5.5	20	—	47	26	11	4.3	2.2	1.1	.4
31.....	.5	—	6	19	—	50	—	11	—	2.3	1.0	—

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	0.9	0.3	0.52	32.0
November.....	435	.5	21.2	1,260
December.....	16	5	8.24	507
January.....	91	6	25.9	1,590
February.....	4,340	18	652	36,200
March.....	177	41	89.5	5,500
April.....	648	26	108	6,430
May.....	24	11	17.3	1,060
June.....	10	4.3	7.86	438
July.....	4.5	2.2	3.04	187
August.....	2.5	1.0	1.50	62.2
September.....	.9	.4	.61	36.3
The year.....	4,340	.3	73.7	53,330

COYOTE CREEK BASIN

77

COYOTE CREEK NEAR EDENVALE, CALIF.

LOCATION.—Staff gage at east boundary of Santa Teresa grant at "The Narrows," 1½ miles northeast of Edenvale, Santa Clara County, and 7 miles south of San Jose.

RECORDS AVAILABLE.—October, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,630 second-feet February 16 (gage height, 9.0 feet); no flow except on November 28 and during parts of February, March, and April.

1916-1927: Maximum discharge, 10,000 second-feet February 10, 1922 (gage height, 12.8 feet); no flow during most of each year.

REMARKS.—Records good. Water is pumped from wells along river above station for irrigation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Feb.	Mar.	Apr.	Day	Nov.	Feb.	Mar.	Apr.
1	0	0	110	14	16	0	3,010	59	17
2	0	0	89	366	17	0	800	54	8
3	0	0	80	515	18	0	2,130	48	4.1
4	0	755	78	284	19	0	735	40	.2
5	0	159	80	159	20	0	386	33	0
6	0	42	59	106	21	0	288	26	0
7	0	5.5	48	94	22	0	306	20	0
8	0	.3	40	62	23	0	236	16	0
9	0	0	46	59	24	0	705	9	0
10	0	0	134	60	25	0	470	5	0
11	0	0	89	48	26	0	306	.3	0
12	0	0	70	45	27	0	222	0	0
13	0	0	58	39	28	47	159	0	0
14	0	0	80	28	29	0		0	0
15	0	2,460	70	22	30			0	0
					31			1.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	47	0	1.57	93.4
February	3,010	0	471	26,200
March	134	0	46.5	2,860
April	515	0	64.3	3,830
The year	3,010	0	45.5	33,000

NOTE.—No flow during October, December, January, and May to September.

ALAMEDA CREEK BASIN

ALAMEDA CREEK NEAR SUNOL, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 7, T. 5 S., R. 2 E., 1 mile above junction with Calaveras Creek and $7\frac{1}{2}$ miles southeast of Sunol.

DRAINAGE AREA.—33.1 square miles.

RECORDS AVAILABLE.—May, 1911, to September, 1927. Records 1911-1924 were published in Water-Supply Paper 591.

EXTREMES.—1911-1927: Maximum mean daily discharge, 1,660 second-feet February 21, 1917; stream dry during a part of most years.

REMARKS.—No diversions. Station maintained and daily discharge and monthly totals in million gallons furnished by Spring Valley Water Co. through G. A. M. Elliott, chief engineer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1.....	0	19	9	16	43	148	13	0.6
2.....	0	17	9	15	36	118	12	.5
3.....	0	23	9.5	333	35	203	12	.5
4.....	0	18	11	248	33	131	11	.3
5.....	0	14	11	9	31	78	11	.2
6.....	0	12	37	49	29	60	9.5	0
7.....	0	11	30	39	26	47	9	0
8.....	0	9.5	25	30	24	40	8.5	0
9.....	0	8.5	19	26	43	40	8	0
10.....	0	7.5	24	21	59	40	7.5	0
11.....	0	7.5	29	20	36	42	7	0
12.....	0	7.5	23	18	31	62	6.5	0
13.....	0	5	19	18	31	40	6	0
14.....	0	3.4	18	212	106	30	5.5	0
15.....	0	3.1	16	319	65	27	5	0
16.....	0	2.6	29	339	58	25	4.5	0
17.....	0	1.9	35	200	47	22	4.0	0
18.....	0	1.7	22	619	39	19	3.4	0
19.....	0	7.5	21	200	33	16	2.9	0
20.....	0	18	161	138	28	16	2.5	0
21.....	0	19	40	161	26	15	2.2	0
22.....	0	12	35	145	26	15	1.9	0
23.....	0	12	27	121	28	14	1.5	0
24.....	172	11	24	200	22	14	1.4	0
25.....	31	9	20	121	22	14	1.2	0
26.....	204	8.5	19	91	20	14	1.1	0
27.....	351	8.5	20	67	20	14	.9	0
28.....	82	8.5	20	53	20	14	.9	0
29.....	81	8.5	23	-----	19	14	.8	0
30.....	29	8.5	19	-----	19	14	.8	0
31.....	-----	9	18	-----	22	-----	.6	-----
Month	Maximum		Minimum		Mean		Run-off in acre-feet	
November.....	351		0		31.7		1,890	
December.....	28		1.7		10.2		627	
January.....	161		9		26.6		1,640	
February.....	619		15		140		7,780	
March.....	106		19		34.5		2,120	
April.....	203		14		44.9		2,679	
May.....	13		.6		5.24		322	
June.....	.6		0		.07		4.2	
The year.....	619		0		23.5		17,100	

NOTE.—No flow in months omitted.

ALAMEDA CREEK AT SUNOL, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 7, T. 4 S., R. 1 E., at Sunol Dam, 1 mile below junction with Arroyo de la Laguna, and 1 mile west of Sunol.

DRAINAGE AREA.—622 square miles, previously published area in error.

RECORDS AVAILABLE.—October, 1900, to September, 1927.

EXTREMES.—1901-1927: Maximum mean daily discharge, 14,700 second-feet March 7, 1911; no flow for part of nearly every year.

REMARKS.—Diversion at station. See Spring Valley Water Co.'s aqueduct at Niles, p. 88. Regulation caused by operations at dam on Calaveras Creek. Records showing millions of gallons per day furnished by Spring Valley Water Co. through G. A. M. Elliott, chief engineer. Daily discharge converted into second-feet and monthly discharge computed by United States Geological Survey.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1.....	0	11	1.5	0.8	110	91	30	22	27	0.2
2.....	0	4.5	2.2	6	95	237	30	22	25	.2
3.....	0	4.5	1.9	285	61	486	28	23	27	.2
4.....	0	4.5	2.2	1,000	57	288	27	23	30	.2
5.....	0	8.4	2.9	345	50	178	25	22	32	.2
6.....	0	2.6	11	126	29	110	24	22	30	.2
7.....	0	2.9	4.6	61	30	73	22	25	30	.2
8.....	0	4.0	4.0	44	13	54	21	9	30	.2
9.....	0	3.9	3.9	14	50	54	18	22	30	0
10.....	0	2.5	5	4.2	110	50	18	22	32	0
11.....	0	2.9	5	1.2	65	35	18	22	30	.2
12.....	0	2.9	2.5	6	38	32	18	20	27	.2
13.....	0	2.9	6	5	46	30	18	30	5.5	0
14.....	0	2.2	6	120	232	11	18	20	13	0
15.....	0	1.9	3	1,450	120	5.5	18	22	13	0
16.....	0	3.1	10	1,960	81	2.3	20	25	13	0
17.....	0	2.5	4.2	1,020	61	6	21	27	2.5	0
18.....	0	2.2	1.4	2,110	41	5	22	27	2.6	0
19.....	0	1.9	117	1,110	25	3	23	20	7.5	0
20.....	0	1.9	54	599	16	3	24	20	18	0
21.....	0	1.9	7.5	594	6.5	3	25	27	2.2	0
22.....	0	1.9	1.5	475	3.9	3	26	25	1.2	0
23.....	0	3.7	1.4	317	9	3	27	25	.8	0
24.....	1.2	4.5	2.3	668	8	4	27	25	.3	0
25.....	5.5	4.0	2.6	485	5	4	27	27	.3	0
26.....	26	3.1	2.5	288	5	3	27	27	.2	0
27.....	483	2.9	2.5	196	5.5	3.1	27	30	.2	0
28.....	309	2.5	5	148	6	30	27	25	.2	0
29.....	125	2.2	3.2	6	6	30	27	25	.2	0
30.....	46	2.0	2.2	6	6	30	27	25	.2	0
31.....		1.9	1.1	6	6		22		.2	0
Month	Maximum				Minimum		Mean		Run-off in acre-feet	
November.....	433				0		31.6		1,360	
December.....	11				1.9		3.17		105	
January.....	117				3		8.57		327	
February.....	2,110				5		470		23,190	
March.....	232				5		43.1		2,662	
April.....	486				3		61.0		3,690	
May.....	30				18		23.6		1,450	
June.....	30				9		23.2		1,350	
July.....	32				2		13.3		843	
August.....	2				0		.05		8.1	
The year.....	2,110				0		53.4		38,700	

NOTE.—No flow in months omitted.

ALAMEDA CREEK NEAR NILES, CALIF.

LOCATION.—Water-stage recorder in sec. 15, T. 4. S., R. 1. W., one-eighth of a mile above highway bridge and 1¼ miles northeast of Niles.

DRAINAGE AREA.—633 square miles.

RECORDS AVAILABLE.—October, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,650 second-feet February 18 (gage height, 7.40 feet); no flow October 1, 4-9, and August 18 to September 30.

1916-1927: Maximum discharge, 13,900 second-feet February 10, 1922 (gage height, 12.44 feet); no flow during periods in 1918, 1920, and 1924-1927.

REMARKS.—Records excellent. Water diverted from the gravels at lower end of Livermore Valley above station. See Spring Valley Water Co.'s aqueduct near Sunol. Regulation caused by operations at dam on Calaveras Creek.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1.....	0	0.4	33	3.9	6	116	80	50	43	47	0.2
2.....	.1	.4	14	3.7	7	94	263	50	34	48	.2
3.....	.1	.4	8	3.7	344	33	516	54	34	50	.2
4.....	0	.6	4.3	3.9	1,120	80	390	41	37	51	.2
5.....	0	.6	3.6	3.3	412	80	230	33	37	52	.2
6.....	0	.6	3.2	12	193	60	145	27	38	52	.2
7.....	0	.6	3.0	31	96	34	96	36	38	51	.2
8.....	0	.6	3.9	27	57	22	69	35	30	51	.2
9.....	0	.4	7.5	16	29	38	60	33	30	51	.2
10.....	.4	.4	3.0	13	14	120	64	32	40	54	.2
11.....	.4	.6	2.6	16	8.5	91	54	33	36	53	.2
12.....	.3	1.1	2.6	14	7	53	67	36	33	47	.2
13.....	.2	1.2	2.5	8.5	6.5	45	67	35	33	38	.2
14.....	.2	.9	2.4	5	82	245	41	37	32	26	.2
15.....	.2	.8	2.2	3.7	1,630	159	22	38	35	25	.1
16.....	.3	.8	2.0	4.7	2,360	109	15	35	38	28	.1
17.....	.4	.8	2.2	14	1,190	37	7.5	37	40	9	.1
18.....	.4	.9	2.5	15	2,140	69	6	36	38	3.5	0
19.....	.4	1.6	2.2	9	1,520	47	5	39	38	24	0
20.....	.4	1.4	2.4	125	694	30	5	40	38	33	0
21.....	.3	1.2	2.6	103	555	18	6	40	44	5	0
22.....	.3	1.2	2.7	28	555	10	4.9	43	46	1.8	0
23.....	.3	1.0	2.6	9	400	7.5	4.0	42	45	1.1	0
24.....	.3	1.4	8	6.5	555	6	3.7	41	43	.7	0
25.....	.3	.48	4.7	5	500	5.5	3.5	41	42	.6	0
26.....	.3	10	4.5	5.5	352	5	3.5	25	50	.5	0
27.....	.3	378	5.5	4.8	263	4.9	10	19	50	.4	0
28.....	.2	375	5	7.5	169	4.5	51	55	46	.3	0
29.....	.3	179	4.2	9	-----	4.3	52	30	46	.3	0
30.....	.4	94	3.9	10	-----	4.2	51	42	47	.1	0
31.....	.4	-----	3.7	7.5	-----	4.5	-----	43	-----	.2	0
Month					Maximum	Minimum	Mean	Run-off in acre-feet			
October.....					0.4	0	0.23	14.1			
November.....					378	.4	26.8	2,190			
December.....					33	2.0	4.96	305			
January.....					125	3.3	17.0	1,009			
February.....					2,360	6	54.5	20,309			
March.....					245	4.2	56.2	3,429			
April.....					516	3.5	79.7	4,746			
May.....					55	19	33.0	2,342			
June.....					50	30	30.4	2,340			
July.....					54	.1	28.0	1,609			
August.....					.2	0	.10	6.1			
The year.....					2,360	0	66.7	48,800			

NOTE.—No flow in September.

CALAVERAS CREEK NEAR SUNOL, CALIF.

LOCATION.—Water-stage recorder just above weir in sec. 13, T. 5 S., R. 1 E., 500 feet below Calaveras Dam, 1 mile above junction with Alameda Creek, and 8 miles southeast of Sunol.

DRAINAGE AREA.—100 square miles.

RECORDS AVAILABLE.—June, 1910, to September, 1927. Records 1910-1924 were published in Water-Supply Paper 591.

EXTREMES.—1910-1927: Maximum mean daily discharge, 3,830 second-feet March 7, 1911; stream dry for short periods nearly every year since construction of Calaveras Dam was begun.

REMARKS.—No diversions. Water is stored in Calaveras Reservoir and when released it flows down the natural channel of Calaveras Creek past the station. Station maintained and daily discharge and monthly totals in million gallons furnished by Spring Valley Water Co. through G. A. M. Elliott, chief engineer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	62	63	36	57	39	0	1.3	96	98	109	59	63
2	62	63	40	61	39	0	0	96	96	109	59	63
3	62	63	40	63	13	0	0	93	100	109	59	63
4	62	63	42	63	0	0	0	79	101	109	60	63
5	62	63	56	63	0	0	0	76	101	109	61	63
6	62	61	48	61	0	0	0	84	101	109	61	63
7	63	61	56	54	0	0	0	84	72	109	61	63
8	63	61	63	54	0	0	0	84	86	109	61	63
9	63	61	62	54	0	0	0	86	101	109	61	63
10	63	61	62	53	0	0	0	88	91	109	61	63
11	63	61	62	44	0	0	0	91	85	109	61	63
12	63	61	62	41	0	0	0	91	85	94	61	63
13	63	60	62	39	0	0	0	96	85	84	61	63
14	63	60	62	39	0	0	0	99	89	84	61	63
15	63	60	62	39	0	0	0	99	93	84	61	63
16	63	60	62	34	0	0	0	102	93	71	61	63
17	63	61	62	22	0	0	0	103	93	69	61	63
18	63	61	62	3.0	0	0	2.6	103	99	95	61	63
19	63	61	62	0	0	0	29	103	101	105	61	63
20	63	61	62	0	0	0	24	103	110	58	61	63
21	63	61	62	0	0	0	24	104	100	63	61	63
22	63	61	62	0	0	0	28	106	97	63	61	63
23	63	61	50	11	0	0	37	106	97	63	61	63
24	63	61	42	19	0	0	39	106	100	63	61	63
25	63	61	42	41	0	0	48	90	104	63	61	63
26	63	61	42	33	0	3.5	51	77	106	59	61	63
27	63	0	42	31	0	18	96	77	106	59	61	59
28	63	0	42	31	0	28	96	79	106	59	61	59
29	63	0	50	31	-----	30	98	104	108	59	63	59
30	63	33	57	34	-----	34	96	104	109	59	63	59
31	63	-----	57	33	-----	27	-----	104	-----	59	63	-----

Month	Maximum	Minimum	Mean	Sum of in acre-feet
October	63	62	62.3	3,830
November	63	0	53.9	3,219
December	63	36	53.7	3,300
January	63	0	36.0	2,310
February	39	0	3.25	180
March	34	0	4.55	280
April	96	0	22.3	1,339
May	106	76	96.9	5,770
June	110	72	97.2	5,780
July	100	58	84.3	5,180
August	63	59	60.6	3,730
September	63	59	62.0	3,690
The year	110	0	53.2	38,500

SURFACE WATER SUPPLY, 1927, PART XI

SAN ANTONIO CREEK NEAR SUNOL, CALIF.

LOCATION.—Water-stage recorder at San Antonio Creek dam site on Valle de San Jose grant, $1\frac{1}{2}$ miles above junction with Alameda Creek, and $2\frac{1}{4}$ miles southeast of Sunol, Alameda County.

DRAINAGE AREA.—39.7 square miles, since change of location in 1915 or 1916. RECORDS AVAILABLE.—January, 1912, to September, 1927. Records 1912-1924 were published in Water-Supply Paper 591.

EXTREMES.—1912-1927: Maximum mean daily discharge, 1,460 second-feet January 3, 1916; stream dry for a part of the time during most years.

REMARKS.—No diversions. Station maintained and daily discharge and monthly totals in million gallons furnished by Spring Valley Water Co. through G. A. M. Elliott, chief engineer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	0	25	5.5	7.5	24	38	7.5	4.0
2	0	9.5	5.5	9	23	44	7.5	3.9
3	0	4.3	5.5	120	20	91	7.5	3.9
4	0	3.1	4.6	100	16	57	7.5	3.7
5	0	2.8	3.9	41	14	35	7.5	3.6
6	0	2.8	9.5	26	13	28	7.5	3.6
7	0	3.1	15	17	13	21	7.5	3.4
8	0	3.6	13	14	11	21	7.5	3.2
9	0	4.0	10	12	6	20	7	3.1
10	0	4.5	12	9.5	5.5	19	6.5	3.1
11	0	5	14	9.5	3.1	17	6.5	2.9
12	0	5.5	12	8.5	3.1	16	6	2.9
13	0	5.5	10	7.5	15	14	6	2.8
14	0	5.5	9	70	72	14	5.5	2.8
15	0	5	9	191	31	12	5.5	2.6
16	0	5	11	99	31	11	5.5	2.8
17	0	4.6	20	113	31	9.5	5.5	2.8
18	0	4.5	16	252	28	7.5	5.5	2.8
19	0	4.3	14	109	21	7.5	5.5	2.8
20	0	4.2	61	66	18	7.5	5.5	2.8
21	0	4.2	28	59	15	7.5	5	2.6
22	0	4.3	20	66	15	7.5	5	2.5
23	0	4.6	14	61	15	7.5	5	2.3
24	3.6	4.8	13	73	15	7.5	5	1.9
25	0	5	13	60	15	7.5	4.8	1.2
26	8	5.5	10	43	15	7.5	4.8	.8
27	53	5.5	6.5	31	15	7.5	4.6	.5
28	21	5.5	9.5	24	14	7.5	4.5	.3
29	17	5.5	12	-----	12	7.5	4.3	.2
30	58	5.5	9.5	-----	12	7.5	4.2	0
31	-----	5.5	7.5	-----	14	-----	4.0	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	58	0	5.11	304
December	25	2.8	5.39	321
January	61	3.9	12.9	793
February	252	7.5	60.8	3,380
March	72	3.1	17.8	1,090
April	91	7.5	19.0	1,120
May	7.5	4.0	5.86	599
June	4.0	0	2.53	151
The year	252	0	10.4	7,440

NOTE.—No flow in months omitted.

ARROYO DE LA LAGUNA NEAR PLEASANTON, CALIF.

LOCATION.—Water-stage recorder at Laguna Dam on Valle de San Jose grant, between the Western Pacific and Southern Pacific Co.'s railroad bridges, 3¼ miles south of Pleasanton, Alameda County. Previous to 1918, station was at bridge on county road No. 2,000, 2 miles west of Pleasanton.

DRAINAGE AREA.—412 square miles, since change of location in 1915 or 1916.

RECORDS AVAILABLE.—January, 1912, to September, 1927. Records 1912-1924 were published in Water-Supply Paper 591.

EXTREMES.—1912-1927: Maximum mean daily discharge, 9,810 second-feet January 25, 1924; stream dry during a part of some years.

REMARKS.—No diversions. Station maintained and daily discharge and monthly totals in million gallons furnished by Spring Valley Water Co. through G. A. M. Elliott, chief engineer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	0	11	0.2	0.5	85	49	1.5	0.8	0.6	0.3
2	0	2.2	.3	.5	81	122	1.5	.8	.6	.3
3	0	.8	.2	233	79	285	1.5	.8	.6	.3
4	0	.8	.2	668	79	175	1.5	.8	.6	.3
5	0	.6	.2	221	73	106	1.5	.8	.6	.3
6	0	.6	.2	98	67	78	1.5	.8	.6	.3
7	0	.6	.2	57	29	52	1.5	.8	.6	.3
8	0	.5	.2	29	28	46	1.4	.8	.6	.3
9	0	.5	.2	20	28	39	1.2	.8	.6	.3
10	0	.3	.2	15	27	35	1.2	.8	.6	.3
11	0	.3	.2	9.5	26	29	1.2	.8	.5	.2
12	0	.3	.2	7	25	25	1.2	.8	.5	.2
13	0	.3	.2	7	65	22	1.1	.8	.5	.2
14	0	.3	.2	53	63	21	1.1	.8	.5	.2
15	0	.3	.2	1,030	39	20	1.1	.8	.5	.2
16	0	.3	.2	1,610	29	17	1.1	.6	.5	.2
17	0	.3	.2	750	26	15	1.1	.6	.5	.2
18	0	.3	.3	1,560	22	14	1.1	.6	.5	.2
19	0	.2	.3	736	19	14	.9	.6	.5	.2
20	0	.2	.3	354	16	10	.9	.6	.5	.2
21	0	.2	.5	277	14	8	.9	.6	.5	.2
22	0	.2	.5	243	13	6.5	.8	.6	.5	.2
23	0	.2	.6	170	12	5.5	.8	.6	.5	.2
24	0	.2	.6	326	10	4.3	.8	.6	.5	.2
25	0	.2	.6	243	9	3.7	.8	.6	.5	.2
26	0	.2	.5	171	7.5	3.2	.8	.6	.3	0
27	24	.2	.5	125	6	2.8	.8	.6	.3	0
28	212	.2	.5	95	4.6	2.5	.8	.6	.3	0
29	115	.2	.5		4.6	2.3	.8	.6	.3	0
30	52	.2	.5		4.6	2.0	.8	.6	.3	0
31		.2	.5		4.6		.8		.2	0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	212	0	13.4	797
December	11	.2	.72	44.3
January	.6	.2	.29	17.8
February	1,610	.5	325	18,000
March	85	4.6	32.2	1,860
April	285	2.0	40.5	2,410
May	1.5	.8	1.10	67.6
June	.8	.6	.70	41.7
July	.6	.3	.44	27.1
August	.3	0	.17	10.5
The year	1,610	0	32.4	23,400

NOTE.—No flow in months omitted.

TASSAJERO CREEK NEAR PLEASANTON, CALIF.

LOCATION.—Water-stage recorder just below Santa Rita highway bridge on Santa Rita grant, 3 miles north of Pleasanton, Alameda County.

DRAINAGE AREA.—27.9 square miles.

RECORDS AVAILABLE.—December, 1914, to May, 1919, and October, 1921, to September, 1927. Records prior to 1925 published in Water-Supply Paper 591.

EXTREMES.—1914-1919, 1921-1927: Maximum mean daily discharge, 372 second-feet January 14, 1916; stream dry during a part of each year.

REMARKS.—No information about diversions. Station maintained and daily discharge and monthly totals in million gallons furnished by Spring Valley Water Co. through G. A. M. Elliott, chief engineer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
1.....	0	0	0.2	0.8	7	4.3	1.7
2.....	0	0	.2	1.1	8	9.5	1.4
3.....	0	0	.2	19	7.5	29	1.1
4.....	0	.2	.2	13	8	8.5	.8
5.....	0	.2	.2	5	7	8	.5
6.....	0	.2	.2	2.8	7	7.5	.3
7.....	0	.2	.2	2.5	5.5	6.5	.2
8.....	0	.2	.2	1.9	5.5	6.5	.2
9.....	0	.2	.2	1.7	11	6	0
10.....	0	.2	.2	.3	8.5	6	0
11.....	0	.2	.2	.2	6.5	5.5	0
12.....	0	.2	.2	.2	6.5	5.5	0
13.....	0	.2	.2	.5	6.5	5.5	0
14.....	0	.2	.2	11	8.5	5.5	0
15.....	0	.2	.2	21	4.3	5.5	0
16.....	0	.2	.3	109	5	5.5	0
17.....	0	.2	.8	17	5.5	5	0
18.....	0	.2	1.5	178	3.7	4.6	0
19.....	0	.2	1.9	21	3.6	4.6	0
20.....	0	.2	2.3	16	3.2	4.5	0
21.....	0	.2	.9	25	3.6	4.3	0
22.....	0	.2	.2	20	2.9	4.0	0
23.....	0	.2	.2	15	3.7	3.9	0
24.....	0	.2	.2	25	4.3	3.9	0
25.....	0	.2	.2	14	4.3	3.7	0
26.....	0	.2	.2	12	6	3.4	0
27.....	1.7	.2	.2	11	5.5	3.1	0
28.....	1.7	.2	.2	8.5	4.3	2.8	0
29.....	.8	.2	.2	-----	4.3	2.5	0
30.....	0	.2	.2	-----	4.3	2.2	0
31.....	-----	.2	.2	-----	4.3	-----	0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November.....	1.7	0	0.14	8.3
December.....	.2	0	.14	8.6
January.....	2.3	.2	.38	23.4
February.....	178	.2	19.7	1,690
March.....	11	2.9	5.72	252
April.....	29	2.2	5.91	352
May.....	1.7	0	.19	11.7
The year.....	178	0	2.56	1,850

NOTE.—No flow in months omitted.

ARROYO MOCHO NEAR LIVERMORE, CALIF.

LOCATION.—Water-stage recorder in sec. 6, T. 4 S., R. 3 E., 4 miles above junction with Dry Creek and 5 miles southeast of Livermore.

DRAINAGE AREA.—38.3 square miles.

RECORDS AVAILABLE.—January, 1912, to September, 1927. Records 1912-1924 were published in Water-Supply Paper 591.

EXTREMES.—1912-1927: Maximum mean daily discharge, 700 second-feet February 20, 1914 (no record for January, 1914, flood); stream dry during a part of each year.

REMARKS.—No diversions. Station maintained and daily discharge and monthly totals in million gallons furnished by Spring Valley Water Co. through G. A. M. Elliott, chief engineer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1	0	3.1	1.2	1.9	11	10	2.5	2.2	0.6
2	0	2.5	1.2	2.2	11	21	2.5	2.0	.6
3	0	3.7	1.2	39	12	28	2.5	1.9	.6
4	0	3.1	1.2	46	13	17	2.5	1.9	.6
5	0	2.9	1.4	15	11	13	2.5	1.7	.6
6	0	2.2	1.9	7	7.5	9	2.5	1.7	.5
7	0	1.2	2.3	4.8	6.5	8.5	2.5	1.9	.5
8	0	1.1	2.2	4.2	8.5	8	2.5	1.9	.5
9	0	.9	1.9	3.4	13	7.5	2.5	1.9	.5
10	0	1.1	1.4	3.2	18	7.5	2.5	1.7	.5
11	0	1.1	1.5	2.8	13	8.5	2.5	1.7	.3
12	0	.9	1.5	2.6	11	15	2.5	1.7	.3
13	0	1.1	2.2	2.5	9.5	10	2.5	1.5	.3
14	0	1.1	2.2	45	8	9	2.5	1.5	.3
15	0	1.2	2.2	79	7.5	2.9	2.5	1.4	.3
16	0	1.2	2.2	154	8.5	5	2.5	1.2	.3
17	0	1.2	2.2	38	9.5	5	2.5	1.2	.3
18	0	1.4	2.0	98	7.5	5	2.5	1.1	.2
19	0	1.4	1.9	50	5	4.8	2.5	1.1	.2
20	0	1.4	2.8	23	4.8	4.2	2.5	.9	.2
21	0	1.4	6	18	4.2	4.2	2.5	.9	.2
22	0	1.4	4.8	14	4.5	3.9	2.5	.9	.2
23	2.5	1.4	2.6	13	4.8	3.6	2.5	.8	.2
24	11	1.4	2	29	5.5	3.4	2.5	.8	.2
25	7.5	1.4	2.2	26	5	3.2	2.5	.8	.2
26	19	1.4	2.2	16	4.8	3.1	2.5	.6	0
27	59	1.4	2.2	11	4.2	2.9	2.5	.6	0
28	17	1.4	2.5	12	3.4	2.8	2.5	.6	0
29	12	1.2	2.5	-----	3.1	2.6	2.5	.6	0
30	5.5	1.2	2.3	-----	3.6	2.5	2.5	.6	0
31	-----	1.2	1.9	-----	4.2	-----	2.3	-----	0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	59	0	4.45	265
December	3.7	.9	1.57	92.5
January	6	1.2	2.19	135
February	154	1.9	27.2	1,549
March	18	3.1	7.84	469
April	28	2.5	7.67	469
May	2.5	2.3	2.47	159
June	2.2	.6	1.29	74.8
July	.6	0	.26	16.0
The year	154	0	4.40	3,190

NOTE.—No flow in months omitted.

ARROYO LAS POSITAS NEAR LIVERMORE, CALIF.

LOCATION.—Water-stage recorder at concrete bridge on Hayward-Tracy highway, on Valle de San Jose grant, 2 miles northwest of Livermore, Alameda County.

DRAINAGE AREA.—69.5 square miles.

RECORDS AVAILABLE.—January, 1912, to September, 1919; October, 1921, to September, 1922; October, 1923, to September, 1927. Records prior to 1925 were published in Water-Supply Paper 591.

EXTREMES.—1912-1919, 1921-22, 1923-1927: Maximum mean daily discharge, 499 second-feet January 17, 1916; stream dry during a part of most years.

REMARKS.—No diversions. Station maintained and daily discharge and monthly totals in million gallons furnished by Spring Valley Water Co. through G. A. M. Elliott, chief engineer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
1.....	0	2.3	0.6	0.8	1.1	0.8	0.6
2.....	0	2.3	.6	.8	1.1	1.1	.6
3.....	0	2.2	.8	1.7	1.1	10	.6
4.....	0	1.9	.8	8.5	1.1	8.6	.6
5.....	0	1.2	.8	2.5	.9	3.1	.5
6.....	0	.8	.8	2.5	.9	2.6	.5
7.....	0	.6	.8	2.5	.8	2.2	.5
8.....	0	.6	.8	2.5	1.2	1.7	.5
9.....	0	.6	.8	2.5	.8	1.4	.3
10.....	0	.6	.8	2.5	6	1.1	.3
11.....	0	.6	.8	2.5	2.5	.9	.3
12.....	0	.6	.8	2.2	.8	.9	.3
13.....	0	.6	.8	2.5	.3	.9	.3
14.....	0	.6	.8	4.6	.9	.9	.3
15.....	0	.6	.8	22	2.5	.9	.3
16.....	0	.6	.8	30	1.5	.8	.3
17.....	0	.6	.8	18	1.5	.8	.3
18.....	0	.6	.8	32	.6	.8	.3
19.....	0	.6	.8	5.5	.5	.8	.3
20.....	0	.6	.8	3.2	.8	.3	0
21.....	0	.6	.8	2.5	.8	.8	0
22.....	0	.6	.8	.7	.6	.8	0
23.....	0	.6	.8	4.3	.3	.8	0
24.....	1.9	.6	.8	18	.8	.8	0
25.....	1.9	.6	.8	6.5	.2	.8	0
26.....	4.0	.6	.8	3.6	.2	.8	0
27.....	7	.6	.8	2.6	.2	.8	0
28.....	6.5	.6	.8	1.1	.2	.8	0
29.....	4.6	.6	.8		.2	.6	0
30.....	2.6	.6	.8		.3	.6	0
31.....		.6	.8		.3		0
Month	Maximum	Minimum	Mean	Run-off in acre-feet			
November.....	7	0	0.98	65.7			
December.....	2.3	.6	.84	51.3			
January.....	.8	.6	.70	43.7			
February.....	32	.8	6.96	87			
March.....	9	.2	1.47	57.4			
April.....	10	.3	1.43	55.1			
May.....	.6	0	.38	14.1			
The year.....	32	0	1.01	730			

NOTE.—No flow in months omitted.

ARROYO DEL VALLE NEAR LIVERMORE, CALIF.

LOCATION.—Water-stage recorder at Cresta Blanca winery, 600 feet below highway bridge on Valle de San Jose grant, $4\frac{1}{2}$ miles south of Livermore, Alameda County.

DRAINAGE AREA.—149 square miles.

RECORDS AVAILABLE.—January, 1912, to September, 1927. Records 1912-1924 were published in Water-Supply Paper 591.

EXTREMES.—1912-1927: Maximum mean daily discharge, 5,930 second-feet January 25, 1914; stream dry during a part of each year.

REMARKS.—No diversions. Station maintained and daily discharge and monthly totals in million gallons furnished by Spring Valley Water Co. through G. A. M. Elliott, chief engineer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	0	36	6.5	14	76	47	8	1.2
2	0	18	5.5	12	57	101	7	1.2
3	0	28	6	172	49	172	7.5	1.2
4	0	31	9.5	681	52	144	7	1.2
5	0	24	7	201	55	101	6.5	1.1
6	0	18	7.5	114	47	74	6.5	1.1
7	0	17	14	63	41	56	6	1.1
8	0	12	12	46	35	43	6	1.1
9	0	8.5	9.5	30	37	41	6	1.1
10	0	7.5	11	25	78	41	5.5	1.1
11	0	7	11	23	54	37	5	1.1
12	0	6	9.5	23	43	44	4.3	1.1
13	0	4.8	8.5	23	47	43	3.7	1.1
14	0	4.2	7.5	137	74	35	3.1	1.1
15	0	4.3	6	1,080	74	32	2.5	1.1
16	0	4.0	8.5	1,250	49	30	1.9	.9
17	0	3.9	18	475	37	25	1.9	.9
18	0	3.6	17	1,190	32	20	1.9	.9
19	0	3.6	15	486	26	17	1.9	.9
20	0	3.6	69	320	30	13	1.9	.9
21	0	3.6	69	224	26	12	1.9	.8
22	0	4.8	43	196	25	11	1.9	.8
23	0	6.5	31	145	25	10	1.9	.6
24	28	9.5	23	265	22	9.5	1.7	.6
25	91	12	22	251	19	9.5	1.7	.5
26	73	11	20	183	15	9.5	1.5	.3
27	704	8.5	18	138	16	5	1.5	1.2
28	585	9	17	101	15	7.5	1.4	0
29	507	8	22	—	17	8.5	1.4	0
30	88	7	19	—	18	9	1.2	0
31	—	6.5	15	—	19	—	1.2	—
Month	Maximum	Minimum	Mean	Run-off in acre-feet				
November	704	0	69.2	4,120				
December	36	3.6	10.6	652				
January	69	5.5	17.9	1,100				
February	1,250	12	281	15,600				
March	78	15	39.0	2,400				
April	172	5	40.3	2,400				
May	8	1.2	3.61	222				
June	1.2	0	.84	50.0				
The year	1,250	0	36.7	26,500				

NOTE.—No flow in months omitted.

SPRING VALLEY WATER CO.'S AQUEDUCT AT NILES,¹ CALIF.

LOCATION.—At the Venturi meter half a mile northeast of Niles, Alameda County.
 RECORDS AVAILABLE.—April, 1903, to September, 1927.

EXTREMES.—1903-1927: Maximum mean daily discharge, 87 second-feet June 29, 1926; no flow November 23, 1924.

REMARKS.—Records good. Water is occasionally wasted a short distance above the Venturi meter, but this waste is included in the published discharge. This aqueduct diverts water from Alameda Creek at Sunol for storage in San Mateo County reservoirs which supply San Francisco and vicinity with water for domestic use. Records showing million gallons per day furnished by Spring Valley Water Co. through G. A. M. Elliott, chief engineer. Daily discharge converted into second-feet and monthly discharge computed by United States Geological Survey.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	78	76	76	63	75	76	76	75	78	78	67	75
2.....	78	77	77	63	76	76	75	75	77	77	61	76
3.....	77	76	76	63	58	76	75	66	77	77	78	75
4.....	78	76	76	72	69	76	75	75	77	77	78	76
5.....	78	77	75	72	75	75	75	70	78	77	78	75
6.....	78	77	70	73	75	72	75	78	78	77	78	75
7.....	77	77	63	59	76	75	76	78	75	78	78	75
8.....	78	77	75	70	70	75	76	77	38	77	78	75
9.....	77	77	76	71	71	76	75	78	79	78	78	75
10.....	78	77	77	69	67	76	76	77	72	77	78	74
11.....	77	77	74	73	58	75	76	77	68	78	77	74
12.....	76	76	75	64	46	75	76	77	68	76	78	74
13.....	77	76	75	70	49	75	75	77	68	67	77	74
14.....	76	77	74	68	59	75	75	76	68	82	77	74
15.....	76	77	75	59	55	76	74	77	68	66	77	74
16.....	76	76	75	63	70	75	75	76	68	74	77	74
17.....	76	76	74	70	79	78	75	76	68	76	77	74
18.....	76	77	75	63	76	75	67	76	72	77	77	74
19.....	76	76	75	41	76	76	71	77	79	78	77	74
20.....	76	75	75	45	76	75	75	76	79	77	77	73
21.....	76	77	75	49	76	76	76	77	78	77	77	73
22.....	78	76	74	73	76	75	75	76	76	77	77	73
23.....	77	76	75	63	76	75	76	77	76	73	77	74
24.....	77	78	75	61	76	76	75	76	76	77	77	74
25.....	77	76	75	66	76	59	75	77	79	79	77	74
26.....	77	77	75	70	76	54	75	77	78	78	77	74
27.....	77	70	66	65	76	63	75	76	77	77	77	71
28.....	77	66	55	68	77	71	75	30	78	68	78	74
29.....	77	75	52	75	-----	76	75	81	77	68	74	74
30.....	77	76	64	75	-----	74	75	77	78	68	77	74
31.....	76	-----	64	76	-----	76	-----	77	-----	66	77	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	78	76	76.9	4,730
November.....	77	66	75.8	4,510
December.....	77	52	72.2	4,440
January.....	76	41	65.6	4,080
February.....	79	46	69.8	3,880
March.....	76	54	73.6	4,580
April.....	76	67	74.8	4,460
May.....	81	30	74.7	4,590
June.....	79	38	73.5	4,370
July.....	82	66	75.2	4,620
August.....	78	61	76.3	4,690
September.....	76	71	74.1	4,410
The year.....	82	30	73.6	53,200

¹ Previously called "near Sunol."

KERN RIVER BASIN

KERN RIVER NEAR KERNVILLE, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 14, T. 23 S., R. 32 E., 3 miles above Salmon Creek and 15 miles north of Kernville.

RECORDS AVAILABLE.—January, 1912, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,420 second-feet November 26 (gage height, 10.35 feet); minimum, 1.2 second-feet November 20 (gage height, 2.59 feet).

1912-1927: Maximum discharge, 9,690 second-feet January 17, 1916 (gage height, 8.8 feet, old datum); no flow at intervals July 31, 1924, to February 7, 1925.

REMARKS.—Records excellent except those for February 16-22, which were estimated. Kern River No. 3 Canal diverts about 1 mile above station. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1.5	1.5	6	3.4	2.2	325	188	1,650	1,350	810	9	6.5
2.....	1.5	1.5	5.5	3.6	2.2	284	400	1,650	1,350	910	6.5	6
3.....	1.5	1.5	5.5	3.6	2.3	237	650	1,810	1,330	910	6.5	6
4.....	1.4	1.5	5.5	3.7	2.6	169	590	2,020	1,690	760	6.5	6.5
5.....	1.5	1.4	5.5	3.7	2.6	119	492	2,240	2,100	670	6	6
6.....	1.5	1.4	5	3.6	2.6	98	460	2,150	2,100	630	6.5	6
7.....	1.4	1.4	5	3.6	2.5	100	445	1,810	2,380	610	6	6.5
8.....	1.4	1.4	5	3.4	2.5	151	460	1,460	2,200	610	6	6
9.....	1.4	1.4	4.9	3.4	2.5	172	430	1,290	1,970	692	6	6.5
10.....	1.5	1.4	4.7	3.4	2.5	102	343	1,240	1,810	760	5.5	6.5
11.....	1.5	1.4	4.4	3.0	2.5	68	301	1,280	1,810	760	5.5	6.5
12.....	1.6	1.7	4.4	3.0	2.6	56	250	1,420	1,890	738	5.5	6.5
13.....	1.6	1.6	4.1	3.0	2.6	38	214	1,850	2,200	715	6	6
14.....	1.6	1.5	4.4	2.9	3.4	138	195	2,330	2,470	670	6.5	6
15.....	1.7	1.5	4.2	2.7	3.7	100	197	2,280	2,380	590	6	6
16.....	1.6	1.4	4.2	2.6	1,070	67	208	2,720	2,380	530	6	6.5
17.....	1.6	1.4	4.1	2.7	1,250	61	170	3,140	2,330	460	6.5	6.5
18.....	1.5	1.3	4.1	2.7	2,000	66	185	2,920	2,240	415	6	6.5
19.....	1.5	1.3	4.2	2.6	1,800	46	237	2,620	2,200	355	6	6.5
20.....	1.6	1.3	4.1	2.9	840	35	237	2,420	2,100	325	6	6.5
21.....	1.6	1.4	3.7	2.3	600	54	325	1,980	1,970	296	6.5	6.5
22.....	1.7	1.5	3.7	2.2	700	106	460	1,570	1,890	276	6.5	6.5
23.....	1.6	1.5	3.7	2.1	430	194	630	1,420	1,650	355	6.5	6.5
24.....	1.6	445	3.7	2.1	570	298	835	1,380	1,460	301	6	6.5
25.....	1.6	72	5.5	2.3	630	367	1,050	1,650	1,460	241	6.5	6.5
26.....	1.6	1,430	4.7	2.3	610	400	1,280	1,810	1,690	208	6.5	6.5
27.....	1.5	944	4.7	2.6	827	385	1,320	1,770	1,490	185	6.5	6.5
28.....	1.5	47	4.4	2.3	400	340	1,380	1,610	1,050	139	6	6.5
29.....	1.6	8	4.1	2.2	-----	320	1,490	1,380	785	96	6.5	6.5
30.....	1.6	7	4.4	2.3	-----	267	1,650	1,320	692	54	6.5	6.5
31.....	1.5	-----	3.9	2.2	-----	218	-----	1,320	-----	20	6.5	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	1.7	1.4	1.54	94.7
November.....	1,430	1.3	99.5	5,920
December.....	6	3.7	4.56	280
January.....	3.7	2.1	2.85	175
February.....	2,000	2.2	420	23,300
March.....	400	35	175	10,800
April.....	1,650	170	569	33,900
May.....	3,140	1,240	1,860	114,000
June.....	2,470	692	1,820	108,000
July.....	910	20	487	29,900
August.....	9	5.5	6.29	387
September.....	6.5	6	6.37	379
The year.....	3,140	1.3	452	327,000

Combined daily and monthly discharge, in second-feet, of Kern River and Kern River No. 3 Canal near Kernville, Calif., 1926-27

Day	Oct.	Nov.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	124	142	227	226	909	772	2,210	1,900	-----	579	250
2	128	138	228	226	848	984	2,210	1,900	-----	548	256
3	132	138	236	226	821	1,230	2,370	1,930	-----	520	251
4	131	138	244	251	753	1,180	2,500	2,190	-----	500	256
5	128	137	244	235	703	1,090	2,810	2,460	-----	491	256
6	124	137	252	227	682	1,050	2,720	2,690	-----	520	251
7	123	137	236	226	684	1,040	2,350	2,980	-----	519	246
8	123	137	243	226	735	1,040	2,030	2,800	-----	491	242
9	123	134	251	210	756	1,010	1,850	2,570	-----	463	238
10	128	134	251	210	686	927	1,810	2,410	-----	435	242
11	132	137	259	226	652	885	1,850	2,400	-----	424	234
12	132	156	243	227	640	834	1,990	2,490	-----	408	230
13	128	170	243	219	672	798	2,420	2,790	-----	386	234
14	128	148	243	235	722	779	2,890	3,070	-----	378	234
15	124	152	235	212	684	781	2,850	2,970	-----	359	234
16	124	165	235	1,530	651	792	3,280	2,980	-----	350	246
17	124	165	219	1,810	645	754	3,700	2,930	-----	360	296
18	124	162	219	2,570	650	769	3,490	2,840	-----	425	278
19	128	159	227	2,370	630	821	3,190	2,800	-----	397	270
20	132	159	259	1,420	619	821	2,980	2,700	-----	369	256
21	149	155	242	1,180	638	909	2,490	2,570	-----	350	252
22	152	160	226	1,280	690	1,040	2,130	2,490	-----	342	246
23	152	194	210	1,010	778	1,210	1,980	2,250	965	332	242
24	149	823	218	1,150	882	1,420	1,940	2,060	911	323	242
25	146	504	234	1,210	951	1,630	2,210	2,060	851	306	238
26	146	-----	242	1,190	964	1,850	2,370	2,290	818	296	242
27	146	-----	227	1,120	969	1,890	2,330	2,090	795	288	238
28	142	-----	226	973	924	1,950	2,170	1,650	749	296	234
29	142	-----	226	-----	904	2,060	1,930	1,380	706	296	234
30	146	-----	218	-----	851	2,220	1,870	1,290	664	288	230
31	142	-----	226	-----	802	-----	1,870	-----	620	278	-----
Month	Maximum					Minimum		Mean		Run-off in acre-feet	
October	152					123		134		8,240	
November	-----					134		324		19,300	
December	-----					-----		275		16,900	
January	259					210		235		14,400	
February	2,570					210		793		44,000	
March	984					619		759		46,700	
April	2,220					754		1,150		68,400	
May	3,700					1,810		2,420		149,000	
June	3,070					1,390		2,400		143,000	
July	-----					-----		1,090		67,000	
August	579					278		397		24,400	
September	296					230		247		14,700	
The year	3,700					123		850		616,000	

• Partly estimated.

• Estimated.

KERN RIVER AT ISABELLA, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 17, T. 26 S., R. 33 E., half a mile above South Fork of Kern River and half a mile north of Isabella.

DRAINAGE AREA.—1,220 square miles.

RECORDS AVAILABLE.—October, 1910, to September, 1912 (fragmentary), and October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,500 second-feet November 27 (gauge height, 12.73 feet); minimum, 1.8 second-feet November 1–11 and 14–23.

1925–1927: Maximum discharge, that of November 27, 1926; minimum, 0.9 second-foot August 14, 1926 (gauge height, 6.50 feet).

REMARKS.—Records good except those for October 9–23 and March 16–26, which were estimated. Irrigation and power diversions and regulation above station. Gauge-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2.2	1.8	17	2.9	2.9	592	335	2,490	1,390	792	52	2.6
2.....	2.2	1.8	10	2.9	2.9	515	460	2,420	1,350	930	30	2.6
3.....	2.6	1.8	8.5	2.9	3.2	485	760	2,500	1,360	962	18	2.6
4.....	2.6	1.8	7.5	2.9	3.6	430	910	2,770	1,560	852	13	2.4
5.....	2.6	1.8	7	2.9	4.0	353	731	3,000	1,910	719	13	2.4
6.....	2.2	1.8	6	2.9	4.0	312	672	3,000	2,230	657	12	2.4
7.....	2.2	1.8	6	3.2	3.6	299	717	2,700	2,490	631	12	2.4
8.....	2.2	1.8	5.5	3.2	3.6	312	1,250	2,360	2,420	618	11	2.4
9.....	2.3	1.8	5.5	3.2	3.6	384	1,180	2,040	2,160	677	10	2.4
10.....	2.3	1.8	5	3.2	3.2	317	1,120	1,970	1,970	785	10	2.4
11.....	2.4	1.8	5	3.2	3.2	268	1,040	1,970	1,910	778	9	2.4
12.....	2.4	2.2	5	3.2	3.2	229*	980	2,100	2,040	762	8.5	2.4
13.....	2.5	2.2	5	2.9	3.6	253	938	2,490	2,360	726	8.5	2.4
14.....	2.5	1.8	4.6	2.9	25	281	896	3,000	2,700	698	7.5	2.4
15.....	2.6	1.8	4.6	2.9	65	294	896	3,070	2,560	631	7	2.4
16.....	2.6	1.8	4.6	2.9	1,580	255	903	3,480	2,560	551	6	2.4
17.....	2.6	1.8	4.6	2.6	1,840	250	875	3,930	2,560	490	5	2.2
18.....	2.7	1.8	5	2.6	2,680	255	868	3,820	2,420	424	4.6	2.2
19.....	2.7	1.8	4.6	2.6	2,460	235	917	3,480	2,360	382	4.6	2.4
20.....	2.8	1.8	4.6	3.2	1,360	225	931	3,070	2,300	326	4.6	2.4
21.....	3.2	1.8	5	4.0	1,050	245	996	2,420	2,160	318	3.8	2.4
22.....	3.6	1.8	5	3.2	1,270	280	1,140	2,160	2,040	274	3.4	2.2
23.....	4.0	1.8	4.6	3.2	1,030	335	1,360	1,970	1,790	322	3.4	2.2
24.....	4.0	116	4.6	3.2	980	450	1,560	1,850	1,560	331	3.2	2.2
25.....	4.0	659	4.3	3.2	1,010	530	1,850	2,040	1,510	270	3.2	2.4
26.....	4.0	882	4.3	3.2	945	565	2,160	2,230	1,730	237	2.9	2.4
27.....	4.0	2,260	4.3	3.2	903	547	2,160	2,300	1,680	215	2.7	2.4
28.....	2.9	459	4.3	3.2	731	505	2,230	2,100	1,200	173	2.7	2.4
29.....	2.6	134	3.2	3.2	-----	475	2,300	1,850	882	138	2.6	2.4
30.....	2.6	48	3.2	3.2	-----	430	2,490	1,730	733	104	2.6	2.4
31.....	2.2	-----	3.2	3.2	-----	380	-----	1,460	-----	75	2.6	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	4.0	2.2	2.78	171
November.....	2,260	1.8	153	9,100
December.....	17	3.2	5.54	341
January.....	4.0	2.6	3.07	189
February.....	2,680	2.9	642	35,790
March.....	592	225	363	22,300
April.....	2,490	335	1,190	70,800
May.....	3,900	1,460	2,610	154,000
June.....	2,700	733	1,930	115,000
July.....	962	75	511	31,400
August.....	52	2.6	9.01	554
September.....	2.6	2.2	2.39	142
The year.....	3,900	1.8	607	440,000

Combined daily and monthly discharge, in second-feet, of Kern River and Borel Canal at Isabella, Calif., 1928-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	116	134	528	248	239	1,170	909	2,490	1,940	1,390	605	257
2.....	120	134	490	248	248	1,100	1,030	2,420	1,940	1,520	572	248
3.....	124	134	458	257	248	1,060	1,330	2,560	1,960	1,560	539	248
4.....	128	134	428	257	268	1,000	1,480	2,770	2,160	1,450	503	247
5.....	121	134	397	267	268	927	1,300	3,000	2,520	1,310	483	247
6.....	116	134	376	267	249	896	1,250	3,000	2,820	1,250	502	247
7.....	120	134	376	267	249	862	1,230	2,700	3,080	1,280	512	238
8.....	120	134	346	257	249	836	1,250	2,360	3,020	1,210	481	238
9.....	120	134	326	267	236	958	1,180	2,040	2,760	1,270	460	234
10.....	120	131	326	267	225	880	1,120	1,970	2,660	1,380	430	234
11.....	127	134	317	276	239	842	1,040	1,970	2,600	1,370	400	234
12.....	127	146	326	257	239	803	980	2,100	2,440	1,360	398	229
13.....	124	178	307	248	240	807	938	2,490	2,960	1,320	378	234
14.....	124	162	269	257	298	855	896	3,000	3,300	1,290	338	229
15.....	121	150	269	257	357	868	896	3,070	3,160	1,230	358	224
16.....	121	170	278	248	1,980	818	903	3,480	3,160	1,150	337	229
17.....	121	174	278	235	2,340	824	875	3,900	3,160	1,080	336	266
18.....	124	170	278	230	3,180	829	868	3,820	3,020	1,020	395	266
19.....	124	166	278	239	3,000	809	917	3,480	2,960	977	375	256
20.....	124	162	259	276	1,920	799	931	3,220	2,900	921	346	247
21.....	139	162	269	277	1,610	819	996	2,720	2,760	913	345	234
22.....	156	158	269	257	1,840	854	1,140	2,360	2,440	858	324	229
23.....	152	190	250	230	1,600	909	1,360	2,170	2,380	917	324	224
24.....	148	389	237	239	1,660	1,020	1,560	2,050	2,160	915	305	224
25.....	144	1,050	226	248	1,580	1,100	1,860	2,240	2,100	854	295	224
26.....	140	1,340	249	257	1,520	1,140	2,160	2,430	2,320	821	286	224
27.....	140	2,720	222	257	1,490	1,120	2,160	2,490	2,280	799	286	220
28.....	139	991	231	248	1,300	1,080	2,230	2,300	1,800	787	276	220
29.....	139	966	248	257	-----	1,050	2,300	2,050	1,490	722	286	220
30.....	139	590	257	239	-----	1,000	2,490	1,880	1,530	688	276	216
31.....	138	-----	257	239	-----	954	-----	1,880	-----	659	267	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	156	116	130	7,990
November.....	2,720	131	374	22,800
December.....	528	222	310	19,100
January.....	277	230	254	15,600
February.....	3,180	225	1,030	57,200
March.....	1,170	799	936	57,600
April.....	2,490	868	1,320	78,600
May.....	3,900	1,880	2,600	160,000
June.....	3,300	1,330	2,630	151,000
July.....	1,560	659	1,100	67,600
August.....	605	267	389	23,900
September.....	266	216	236	14,000
The year.....	3,900	116	931	675,000

KERN RIVER NEAR BAKERSFIELD, CALIF.

LOCATION.—Water-stage recorder in sec. 2, T. 29 S., R. 28 E., at mouth of lower canyon, 5 miles northeast of Bakersfield.

DRAINAGE AREA.—2,345 square miles.

RECORDS AVAILABLE.—January, 1894, to June, 1907, and March, 1908, to September, 1927.

EXTREMES.—1896-1927; Maximum discharge, 18,287 second-feet January 26, 1914; minimum, 57 second-feet in November, 1924.

REMARKS.—Several small diversions on main river and South Fork for irrigation. There are four hydroelectric plants on Kern River above station. Complete record, except run-off in acre-feet, furnished by Kern County Land Co., through A. K. Warren, engineer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	120	148	889	353	303	1,583	1,162	3,059	2,196	1,528	708	283
2	123	145	784	360	306	1,455	1,092	3,037	2,219	1,605	666	278
3	125	143	709	345	310	1,425	1,819	3,020	2,218	1,704	613	274
4	125	141	658	334	345	1,382	1,850	3,219	2,305	1,703	580	268
5	129	144	596	338	361	1,274	1,792	3,449	2,553	1,570	545	264
6	123	140	570	343	362	1,164	1,674	3,605	2,941	1,453	529	262
7	121	150	559	338	332	1,083	1,614	3,479	3,152	1,394	525	259
8	121	159	567	328	320	1,078	1,638	3,122	3,363	1,358	532	247
9	126	157	547	314	323	1,137	1,570	2,766	3,109	1,367	523	250
10	121	154	510	337	311	1,188	1,533	2,503	2,926	1,443	513	245
11	123	158	489	360	297	1,100	1,438	2,398	2,738	1,527	495	246
12	133	164	455	368	315	1,066	1,320	2,390	2,729	1,547	474	244
13	139	184	463	344	316	1,053	1,189	2,552	2,854	1,494	459	238
14	138	198	438	337	330	1,107	1,090	2,994	3,146	1,468	434	230
15	136	191	407	334	383	1,139	1,064	3,378	3,295	1,392	424	235
16	130	184	394	334	1,166	1,094	1,081	3,542	3,178	1,293	403	238
17	128	191	399	344	4,410	1,040	1,121	4,032	3,218	1,228	378	236
18	125	200	387	325	3,159	1,035	1,138	4,212	3,147	1,153	366	271
19	130	199	386	295	5,172	1,086	1,138	3,919	3,077	1,105	389	265
20	131	185	371	318	2,945	991	1,239	3,672	3,054	1,040	391	258
21	134	187	364	351	2,115	947	1,281	3,380	2,950	993	375	245
22	139	188	370	354	2,167	906	1,425	2,999	2,795	975	359	239
23	164	207	359	336	2,166	978	1,699	2,652	2,674	938	348	239
24	155	273	324	296	1,816	1,075	2,025	2,437	2,457	990	340	244
25	162	609	295	301	2,014	1,242	2,409	2,378	2,313	966	319	245
26	157	977	284	325	2,071	1,357	2,729	2,637	2,315	886	312	250
27	159	3,672	301	348	1,992	1,439	2,996	2,674	2,531	848	305	242
28	157	2,566	297	332	1,846	1,474	3,037	2,650	2,277	823	310	231
29	152	1,348	315	319	-----	1,415	2,949	2,488	1,888	787	312	227
30	150	1,003	336	314	-----	1,335	2,990	2,363	1,630	760	306	229
31	141	-----	342	302	-----	1,249	-----	2,243	-----	728	294	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	165	104	136	8,360
November	6,511	136	479	28,500
December	943	263	457	28,100
January	394	267	333	20,500
February	6,571	277	1,855	75,300
March	1,698	816	1,189	73,100
April	3,122	1,052	1,687	100,000
May	4,415	2,147	3,004	185,000
June	3,594	1,526	2,708	161,000
July	1,786	710	1,228	75,500
August	710	289	436	26,800
September	289	223	249	14,800
The year	6,571	104	1,100	797,000

NOTE.—Maximum and minimum are absolute values determined from water-stage recorder graph. Run-off in acre-feet computed by U. S. Geol. Survey.

SURFACE WATER SUPPLY, 1927, PART XI

KERN RIVER NO. 3 CANAL NEAR KERNVILLE, CALIF.

LOCATION.—Water-stage recorder in sec. 14, T. 23 S., R. 32 E., opposite gaging station on Kern River, 1 mile below intake, and 16 miles north of Kernville.

RECORDS AVAILABLE.—March, 1921, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 610 second-feet July 23-30; no flow part of February 27 and June 5.

1921-1927: Maximum mean daily discharge, 648 second-feet July 16, 1921.

REMARKS.—Records excellent except those for estimated periods. This canal diverts from left bank of Kern River in sec. 12, T. 23 S., R. 32 E. The water is used for power and returned to the river 8 miles below. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	122	140	224	224	584	584	563	552		570	263
2	126	136	224	224	584	594	563	552		541	260
3	130	136	232	224	584	584	563	552		513	245
4	130	136	240	248	584	594	573	500		494	260
5	126	136	240	232	584	594	573	364		485	260
6	122	136	248	224	584	594	573	590		513	245
7	122	136	232	224	584	594	573	600		513	240
8	122	136	240	224	584	584	573	600		485	235
9	122	133	248	208	584	584	573	600		457	232
10	126	133	248	208	584	584	573	600		429	236
11	130	136	256	224	584	584	573	590	600	419	228
12	130	154	240	224	584	584	573	600		400	224
13	126	168	240	216	584	584	573	590		381	228
14	126	147	240	232	584	584	563	600		372	228
15	122	150	232	208	584	584	573	590		353	228
16	122	164	232	458	584	584	563	600		344	240
17	122	164	216	563	584	584	563	600		353	290
18	122	161	216	573	584	584	573	600		419	272
19	126	158	224	573	584	584	573	600		391	263
20	130	158	256	584	584	584	563	600		363	260
21	147	154	240	584	584	584	563	600		344	245
22	150	158	224	584	584	584	563	600		335	240
23	150	192	208	584	584	584	563	600	610	326	236
24	147	378	216	584	584	584	563	600	610	317	236
25	144	432	232	584	584	584	563	600	610	299	232
26	144		240	584	584	573	563	600	610	290	236
27	144		224	292	584	573	563	600	610	281	232
28	140	500	224	573	584	573	563	600	610	290	228
29	140		224		584	573	552	600	610	290	228
30	144		216		584	573	552	600	610	281	224
31	140		224		584		552		600	272	
Month	Maximum		Minimum		Mean		Run-off in acre-feet				
October	150		122		132		8,120				
November			133		224		13,300				
December					270		16,600				
January	256		208		232		14,300				
February	584		208		374		20,800				
March	584		584		584		35,900				
April	594		573		584		24,600				
May	573		552		566		34,800				
June	600		364		583		34,700				
July	610				603		37,100				
August	570		272		391		24,000				
September	290		224		241		14,300				
The year	610		122		399		289,000				

NOTE.—No gage-height record for December, mean discharge estimated from Venturi meter records at power house.

BOREL CANAL AT TILLEY CREEK, CALIF.¹

LOCATION.—Water-stage recorder in sec. 4, T. 26 S., R. 33 E., where canal crosses Tilley Creek, three-fourths mile south of Kernville.

RECORDS AVAILABLE.—January, 1910, to September, 1914, and October, 1925, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 605 second-feet June 3-5; canal practically dry April 8 to May 19.

1925-1927: Maximum mean daily discharge, that of June 3-5, 1927; canal practically dry April 8 to May 19, 1927.

REMARKS.—Records excellent. This canal diverts water from Kern River half a mile below Kernville. It supplies the Borel hydroelectric plant of the Southern California Edison Co. 10 miles below, and the water then returns to Kern River. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	114	132	511	245	236	574	574	0	553	595	553	254
2.....	118	132	480	245	245	584	574	0	595	595	542	245
3.....	121	132	450	254	245	574	574	0	605	595	521	245
4.....	125	132	420	254	264	574	574	0	605	595	490	245
5.....	118	132	390	264	264	574	574	0	605	595	470	245
6.....	114	132	370	264	245	574	574	0	595	595	490	245
7.....	118	132	370	264	245	563	512	0	595	595	500	236
8.....	118	132	341	254	245	574	0	0	595	595	470	236
9.....	118	132	321	264	232	574	0	0	595	595	450	232
10.....	118	129	321	264	222	563	0	0	595	595	420	232
11.....	125	132	312	273	236	574	0	0	595	595	400	232
12.....	125	144	321	254	236	574	0	0	595	595	390	227
13.....	121	176	302	245	236	574	0	0	595	595	370	232
14.....	121	160	264	254	273	574	0	0	595	595	360	227
15.....	118	148	264	254	292	574	0	0	595	595	351	222
16.....	118	168	273	245	400	563	0	0	595	595	331	227
17.....	118	172	273	232	500	574	0	0	595	595	331	264
18.....	121	168	273	227	500	574	0	0	595	595	390	264
19.....	121	164	273	236	542	574	0	0	595	595	370	254
20.....	121	160	254	273	563	574	0	145	595	595	341	245
21.....	136	160	264	273	563	574	0	301	595	595	341	232
22.....	152	156	264	254	574	574	0	197	595	584	321	227
23.....	148	188	245	227	574	574	0	197	595	595	321	222
24.....	144	273	232	236	584	574	0	197	595	584	302	222
25.....	140	390	222	245	574	574	0	201	595	584	292	222
26.....	136	460	245	254	574	574	0	197	595	584	283	222
27.....	136	460	218	254	574	574	0	193	595	584	283	218
28.....	136	532	227	245	574	574	0	197	595	584	273	218
29.....	136	532	245	254	-----	574	0	197	595	584	283	218
30.....	136	542	254	236	-----	574	0	246	595	584	273	214
31.....	136	-----	264	236	-----	574	-----	424	-----	584	264	-----
Month					Maximum	Minimum	Mean	Run-off in acre-feet				
October.....					152	114	127	7,810				
November.....					542	129	220	13,100				
December.....					511	218	305	18,860				
January.....					273	227	251	15,400				
February.....					584	222	386	21,400				
March.....					584	563	573	35,200				
April.....					574	0	132	7,860				
May.....					424	0	86.8	5,340				
June.....					605	553	595	35,400				
July.....					595	584	592	36,400				
August.....					553	264	380	23,400				
September.....					264	214	234	13,900				
The year.....					605	0	323	234,000				

¹ Published 1910-1914 as Kern River Power Co.'s canal near Kernville, Calif.

SURFACE WATER SUPPLY, 1927, PART XI

SOUTH FORK OF KERN RIVER NEAR ONYX, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 24, T. 25 S., R. 35 E., on Rankin ranch, three-fourths mile north of Kernville-Walker Pass road and 5 miles northeast of Onyx.

RECORDS AVAILABLE.—September, 1911, to August, 1914, and January, 1919, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 1,120 second-feet April 26; minimum, 10 second-feet November 15–18 and 20–22.

1911–1914, 1919–1927: Maximum discharge, 2,360 second-feet January 25, 1914 (gage height, 7.1 feet); minimum mean daily discharge, about 1 second-foot May 28 to October 1, 1924.

REMARKS.—Records good. Three small irrigation ditches head above station. Mean daily discharge record and results of discharge measurements furnished by city of Los Angeles.

Daily and monthly discharge, in second-feet, 1926–27

Day	Nov.	Dec.	Feb.	Mar.	Apr.	May	June
1.....		47		205	277	979	232
2.....		43	35	193	365	910	227
3.....		38	33	203	503	900	223
4.....		34	35	185	528	874	218
5.....		31	32	191	518	858	
6.....		31	31	175	536	807	
7.....		31	35	174	543	723	
8.....		28	35	183	579	646	
9.....		23	32	183	562	574	
10.....	12	26	32	164	486	525	
11.....	12	22	35	157	437	507	
12.....	11	25	35	159	381	489	
13.....	11	22	33	168	350	489	
14.....	11	19	37	181	331	510	
15.....	10	20	35	170	343	507	
16.....	10	21	214	170	375	503	
17.....	10	22	262	174	358	500	
18.....	10	25	532	177	388	492	
19.....	11	23	414	168	492	475	
20.....	10	20	296	164	514	447	
21.....	10	20	343	179	614	410	
22.....	10	20	447	189	777	397	
23.....	11	18	293	205	921	368	
24.....	63	16	319	244	1,010	337	
25.....	92	16	365	293	1,070	313	
26.....	350	16	837	325	1,120	298	
27.....	575	16	285	356	1,100	282	
28.....	132	16	227	356	1,040	260	
29.....	65	16		359	1,040	259	
30.....	54	16		334	1,040	252	
31.....		16		304		242	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November.....			• 53.0	3,150
December.....		47	23.8	1,460
February.....			• 178	9,890
March.....	359	157	216	13,300
April.....	1,120	277	620	36,900
May.....	979	242	521	32,000
June.....			• 147	8,750
July.....			• 46.2	2,840
August.....			• 29.2	1,800
September.....			• 28.7	1,710

• Partly estimated.

• Estimated.

NOTE.—Discharge not determined for October and January.

TULARE LAKE BASIN

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.

RECORDS AVAILABLE.—October, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 255 second-feet February 18 (gage height, 2.40 feet); minimum, 1.0 second-foot August 1.

1910-1927: Maximum discharge, about 420 second-feet, revised, January 24, 1914 (gage height, 2.9 feet); minimum, 0.6 second-foot August 5-12, 1920.

REMARKS.—Records fair. Flow is regulated to some extent by swimming tank at Hot Springs. Gage-height record furnished by United States Forest Service.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	1.5	2.4	5.5	*4.6	3.4	15	15	*16	9.5	2.2	1.0	1.4
2.	1.5	2.4	5	*4.4	3.4	15	15	16	9.5	2.4	1.4	1.2
3.	1.5	2.4	4.7	4.2	3.4	15	58	*16	9	2.6	1.5	1.4
4.	1.5	2.4	4.2	5.5	11	18	23	*16	8	2.4	1.4	1.5
5.	1.5	2.4	3.8	6	6.5	17	21	*17	8	2.4	1.4	1.5
6.	1.6	2.4	3.4	6	*4.9	*16	20	*18	7.5	2.9	1.5	1.4
7.	1.7	2.1	4.7	5.5	*4.8	*16	19	22	7.5	2.7	1.4	1.4
8.	1.7	2.1	4.2	5	4.7	15	19	17	7.5	2.7	1.1	1.5
9.	1.7	2.1	4.2	5	4.2	22	17	16	*7.5	2.9	1.2	1.6
10.	1.7	2.1	4.2	5.5	4.2	19	17	16	*7.5	2.7	1.2	1.7
11.	1.7	2.1	4.2	5.5	3.8	17	17	16	*7.5	2.6	1.4	1.7
12.	1.9	2.1	5	4.2	3.8	18	16	16	*7	2.2	1.1	1.6
13.	1.7	2.6	4.2	4.2	3.8	17	18	16	*7	2.4	1.2	1.7
14.	1.7	3.0	4.2	4.2	6	24	16	15	*7	2.4	1.4	1.6
15.	1.7	2.8	4.2	4.2	10	18	17	14	*7	2.1	1.2	1.6
16.	1.9	2.8	4.2	4.2	132	16	17	13	7	1.8	1.5	1.7
17.	1.9	*2.7	4.2	3.1	36	15	16	13	*7	1.7	1.5	1.7
18.	1.9	*2.7	5	3.1	205	15	18	12	*6.5	1.5	1.5	1.8
19.	2.1	2.6	5	3.1	36	13	18	12	*6	1.7	1.4	1.8
20.	2.0	2.6	3.8	7.5	22	*13	16	12	*6	1.7	1.5	2.0
21.	2.1	*2.6	4.2	4.7	19	*13	16	12	*6.5	1.5	1.5	2.0
22.	2.4	*2.7	4.7	4.2	26	14	16	12	*6	1.4	1.5	2.0
23.	2.4	*3.6	*4.7	3.4	22	15	17	11	*4.5	1.4	1.5	2.0
24.	2.1	4.4	*4.7	3.4	26	*15	17	11	*4.0	1.5	1.4	1.8
25.	2.1	6.5	*4.7	3.4	22	*15	17	11	3.6	1.5	1.5	1.7
26.	2.1	22	*4.7	3.4	20	15	16	11	*3.3	1.2	1.5	2.0
27.	2.4	28	*4.7	3.8	19	*15	*16	10	*3.0	1.4	1.5	2.0
28.	2.4	12	4.7	3.4	16	14	*16	10	*2.8	1.4	1.5	2.0
29.	2.4	3.5	4.7	3.8	-----	13	*16	10	*2.6	1.4	1.5	1.8
30.	2.4	6.5	4.7	3.4	-----	14	*16	10	*2.4	1.5	1.4	2.0
31.	2.4	-----	4.7	3.4	-----	15	-----	10	-----	1.4	1.5	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.4	1.5	1.92	118
November	28	2.1	4.85	269
December	5.5	3.4	4.49	276
January	7.5	3.1	4.36	288
February	205	3.4	24.2	1,340
March	24	13	15.8	972
April	58	15	18.3	1,090
May	22	10	13.8	848
June	9.5	2.4	6.21	870
July	2.9	1.2	1.99	122
August	1.5	1.0	1.39	85.5
September	2.0	1.2	1.70	101
The year	205	1.0	8.13	5,880

* Estimated.

TULE RIVER NEAR PORTERVILLE, CALIF.

LOCATION.—Staff gage in NW. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 25, T. 21 S., R. 28 E., below highway bridge 1 mile above mouth of South Fork and 6 miles east of Porterville.

DRAINAGE AREA.—266 square miles.

RECORDS AVAILABLE.—May, 1901, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,260 second-feet February 18 (gage height, 10.0 feet); no flow October 1 and 5.

1901-1927: Maximum discharge, about 6,780 second-feet January 17, 1916 (gage height, 11.0 feet); no flow September 27-30, October 1 and 5, 1926.

REMARKS.—Records good. Several small irrigation ditches divert water above station. Power is developed on Middle Fork and on North and South Forks of Middle Fork.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1.2	120	49	59	404	219	357	164	39	2.4	0.6
2	.1	1.4	107	48	57	357	249	357	164	35	2.0	.6
3	.1	1.4	100	49	55	334	502	357	164	33	1.6	.6
4	.1	1.4	84	48	172	428	452	380	172	32	1.0	.6
5	0	1.6	76	50	118	334	404	404	164	31	.6	.7
6	.1	1.8	73	58	89	312	357	404	172	29	.8	.7
7	.3	1.6	70	71	85	290	334	452	172	29	1.1	.9
8	.4	1.6	70	63	81	280	334	404	164	28	.8	1.4
9	.6	1.5	64	60	75	452	312	312	164	26	.6	1.6
10	.5	1.4	62	59	71	334	301	301	156	25	1.2	1.9
11	.6	1.5	61	62	66	280	280	280	148	23	1.1	1.0
12	.6	1.6	60	60	64	269	259	280	156	17	1.2	.9
13	.6	1.8	57	56	67	259	239	290	148	14	1.1	1.4
14	.7	6.5	54	54	301	334	229	334	140	11	1.1	.6
15	.6	5.5	51	51	675	312	219	334	132	10	.9	2.7
16	.6	4.6	44	57	1,190	269	239	357	124	12	.8	3.0
17	.6	4.6	44	60	1,080	249	239	357	117	10	.8	3.0
18	.6	4.8	43	48	2,270	239	229	357	110	9.5	.7	3.2
19	.6	5.5	44	48	1,370	229	249	812	102	9	.6	2.9
20	.7	5	45	53	780	219	239	269	97	7.5	.5	2.6
21	.7	5.5	76	105	585	209	249	259	90	7	.6	1.7
22	.8	5	62	77	528	219	280	229	85	5.5	.6	1.7
23	.8	13	54	65	502	229	312	209	78	4.8	.6	1.5
24	.8	24	52	61	502	249	357	200	76	4.6	.6	1.6
25	.8	472	49	61	502	259	357	200	66	4.4	.7	1.6
26	1.0	975	48	59	502	259	404	200	62	4.0	.6	1.7
27	1.0	1,210	46	117	476	249	357	200	52	3.8	.6	1.9
28	1.0	334	46	87	452	239	357	190	51	3.6	.6	1.7
29	1.0	249	48	70	-----	229	357	181	49	3.6	.5	1.6
30	1.2	140	48	62	-----	269	357	172	45	3.2	5	1.6
31	1.2	-----	49	60	-----	249	-----	172	-----	2.7	.6	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.2	0	0.60	36.9
November	1,210	1.2	116	6,906
December	120	43	61.5	3,780
January	117	48	62.2	3,820
February	2,270	55	456	25,306
March	452	209	285	17,500
April	502	219	309	18,400
May	452	172	294	18,100
June	172	45	119	7,080
July	39	2.7	15.4	947
August	2.4	.5	.88	54.1
September	3.2	.6	1.58	94.0
The year	2,270	0	141	102,000

SOUTH FORK OF TULE RIVER NEAR PORTERVILLE, CALIF.

LOCATION.—Staff gage opposite Indian School in Tule Indian Reservation, 2 miles below mouth of Rocky Creek, 8 miles above junction with Tule River, and 14 miles southeast of Porterville, Tulare County.

RECORDS AVAILABLE.—October, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,540 second-feet February 18 (gage height, 6.00 feet); no record at minimum stage.

1910-1927: Maximum discharge, about 2,750 second-feet January 26, 1914 (gage height, 8.0 feet); no flow about June 27 to October 6, 1924.

REMARKS.—Records fair. Diversions for irrigation above station. Gage-height record furnished by United States Indian Service.

Daily and monthly discharge, in second-feet, 1927

Day	Jan.	Feb.	Mar.	Apr.	May	June	Aug.
1.		18	107	68	73		
2.		19	102	72	69		
3.		18	112	160	69		
4.		58	121	112	67		
5.		41	108	96	65		
6.		36	98	91	64		
7.		35	88	87	135		
8.		28	86	83	88		
9.		24	88	94	78		
10.		21	94	86	74		
11.		19	102	76	72		
12.		17	102	74	68		
13.		18	98	72	61		
14.		71	121	72	58		
15.		151	112	72	57		
16.		855	103	71	55	22	
17.	12	258	87	70	55		
18.		1,140	81	69	55		2.2
19.		288	77	67	53		
20.		244	74	67	51		
21.		169	70	64	51		
22.		136	67	64	49		
23.		136	64	65	45		
24.		136	62	67	44		
25.		133	61	68	42		
26.	18	132	59	72	42		
27.	20	125	57	73	42		
28.	19	116	56	77	42		
29.	18		56	77	42		
30.	18		56	76	40		
31.	16		62				

Month	Maximum	Minimum	Mean	Run-off in acre-feet
January 26-31	20	16	18.2	217
February	1,140	17	159	8,830
March	121	55	84.8	5,210
April	160	64	78.7	4,680
May 1-30	135	40	60.2	3,580

NOTE.—No record on days for which no discharge is given.

KAWEAH RIVER NEAR THREE RIVERS, CALIF.

LOCATION.—Staff gage in SE. $\frac{1}{4}$ sec. 27, T. 17 S., R. 28 N., $1\frac{1}{4}$ miles southwest of Three Rivers. South Fork enters three-fourths mile and North Fork 3 miles above station.

DRAINAGE AREA.—520 square miles.

RECORDS AVAILABLE.—April, 1903, to September, 1927.

EXTREMES.—Maximum discharge during year, 10,100 second-feet February 18 (gage height, 11.8 feet); minimum, 23 second-feet several days in October and November.

1903-1927: Maximum discharge, about 14,700 second-feet January 17, 1916 (gage height, 13.5 feet); minimum, 9.5 second-feet August 29 to September 1, 1924.

REMARKS.—Records good. Several small ditches divert water for local irrigation and domestic use above station. Power is developed on Middle and East Forks but effect is probably small.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	23	23	450	153	193	940	1,030	2,100	1,570	755	169	62
2.....	26	23	296	138	215	900	1,380	2,210	1,380	755	151	62
3.....	30	23	370	153	215	900	2,100	2,430	1,380	720	151	68
4.....	23	23	300	170	710	860	1,570	2,430	1,570	685	151	62
5.....	23	23	259	186	322	745	1,290	2,660	1,770	650	140	62
6.....	26	23	259	193	259	745	1,200	2,540	1,880	590	125	62
7.....	30	23	300	204	252	745	1,200	2,100	1,990	590	125	62
8.....	30	23	252	215	229	820	1,160	1,770	1,770	590	125	62
9.....	26	23	229	215	222	940	1,160	1,470	1,770	590	120	56
10.....	30	23	215	222	229	940	1,030	1,290	1,570	590	90	52
11.....	30	23	215	204	215	710	990	1,380	1,570	590	100	52
12.....	30	26	204	204	204	675	950	1,570	1,670	530	100	52
13.....	26	77	179	204	204	675	950	2,210	1,770	530	90	62
14.....	23	62	153	186	570	820	870	2,430	1,990	530	84	52
15.....	23	52	153	186	1,110	720	870	2,320	1,770	470	84	52
16.....	23	52	153	186	2,730	685	870	2,660	1,880	445	84	52
17.....	23	52	153	186	1,940	650	790	2,900	1,770	420	84	52
18.....	23	44	170	186	5,950	650	790	2,660	1,670	370	95	52
19.....	23	44	179	170	2,190	650	870	2,430	1,570	370	90	52
20.....	30	44	170	280	1,500	590	950	2,210	1,470	348	84	52
21.....	26	44	186	259	1,300	650	1,030	1,880	1,380	325	77	52
22.....	26	44	179	229	1,400	650	1,200	1,570	1,380	305	72	52
23.....	26	62	170	229	1,250	870	1,470	1,380	1,160	305	72	52
24.....	23	2,430	153	229	1,300	950	1,770	1,470	1,070	285	72	52
25.....	23	530	153	222	1,300	910	1,990	1,770	1,030	245	68	52
26.....	23	2,780	153	240	1,250	1,030	2,210	1,770	1,200	245	62	52
27.....	23	3,380	153	222	1,160	1,030	2,100	1,570	1,160	228	62	49
28.....	23	710	153	222	1,020	950	2,100	1,570	910	203	68	46
29.....	23	540	153	204	-----	950	1,990	1,570	720	192	62	39
30.....	23	480	153	193	-----	950	2,100	1,390	755	182	62	36
31.....	23	-----	153	186	-----	990	-----	1,380	-----	169	62	-----
Month	Maximum					Minimum			Mean		Run-off in acre-feet	
October.....	30					23			25.3		1,560	
November.....	3,380					23			390		23,200	
December.....	450					153			210		12,900	
January.....	280					138			202		12,400	
February.....	5,950					193			1,050		58,300	
March.....	1,030					590			816		50,200	
April.....	2,210					790			1,330		79,100	
May.....	2,900					1,290			1,970		121,000	
June.....	1,990					720			1,480		88,100	
July.....	755					169			444		27,300	
August.....	169					62			96.2		5,920	
September.....	68					36			53.7		3,200	
The year.....	5,950					23			668		483,000	

TULARE LAKE BASIN

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NORTH FORK OF KAWEAH RIVER AT KAWEAH, CALIF.

LOCATION.—Staff gage in SW. $\frac{1}{4}$ sec. 2, T. 17 S., R. 28 E., at highway bridge in Sequoia National Forest, one-fourth mile above Manikin Creek, half a mile north of Kaweah, and 2 miles above junction with Kaweah River.

RECORDS AVAILABLE.—October, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,650 second-feet February 16 (gage height, 7.6 feet); minimum, 1.0 second-foot October 1 (gage height, 0.19 foot).

1910-1927: Maximum discharge, about 7,400 second-feet January 25, 1914 (gage height, 10.2 feet); no flow many days during July to October, 1924.

REMARKS.—Records good. Several small irrigation diversions above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	3.3	108	39	54	330	300	420	141	36	8	3.1
2	1.0	3.5	94	38	56	330	540	420	141	34	8	3.3
3	1.0	3.7	81	40	58	300	1,160	420	124	24	8	3.3
4	1.0	3.7	68	41	540	250	570	420	124	31	8	3.5
5	1.1	3.8	68	48	132	275	480	450	124	28	8	3.5
6	1.3	4.0	56	45	81	232	420	450	124	27	7.5	3.5
7	1.3	4.2	68	54	81	250	450	450	141	25	7.5	3.5
8	1.4	4.4	68	54	81	250	420	300	124	24	4.8	3.5
9	1.3	4.2	62	47	81	275	420	300	124	22	3.9	3.5
10	1.3	4.4	56	52	74	300	275	250	116	21	3.9	3.9
11	1.4	4.6	56	66	74	250	275	250	94	21	3.5	3.9
12	1.4	5.5	68	68	68	215	250	300	101	20	3.5	3.9
13	1.4	8	56	56	56	250	300	250	116	20	4.2	3.9
14	1.6	8.5	56	54	300	300	332	480	101	20	4.4	3.9
15	1.8	9.5	56	48	174	215	250	1,090	97	17	4.6	2.6
16	1.8	8.5	56	45	1,970	187	250	600	94	18	4.6	2.6
17	1.8	8	45	52	845	187	250	480	89	16	4.6	3.5
18	2.0	8	42	50	2,330	187	275	420	81	15	4.6	3.5
19	2.1	8.5	39	47	880	187	250	300	78	15	4.6	3.3
20	2.3	8.5	36	132	540	187	250	250	74	15	2.8	3.1
21	2.4	9	48	101	480	187	250	250	74	14	2.8	2.8
22	2.4	10	48	68	540	215	300	187	68	12	2.8	2.8
23	2.6	11	41	66	480	250	420	187	58	11	2.5	2.8
24	2.9	2,370	38	66	480	300	540	187	45	11	2.8	2.8
25	2.9	138	36	63	540	300	480	187	45	11	2.6	2.1
26	2.8	1,540	36	58	480	300	480	174	45	11	2.6	2.1
27	2.9	1,230	34	66	420	300	480	174	45	9.5	2.8	2.5
28	2.9	810	33	66	420	250	480	162	43	8.5	2.9	2.1
29	3.1	250	34	58	-----	300	480	162	40	9.6	2.9	2.1
30	3.1	124	36	56	-----	300	480	162	39	9	2.9	2.5
31	3.1	-----	38	56	-----	300	-----	141	-----	8.5	2.9	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.1	1.0	1.95	120
November	2,370	3.3	220	13,100
December	108	33	53.6	3,200
January	132	38	57.7	3,550
February	2,330	54	440	24,400
March	330	187	257	15,800
April	1,160	232	400	23,800
May	1,090	141	331	20,400
June	141	39	90.3	5,370
July	36	8.5	18.5	1,140
August	8	2.5	4.45	275
September	3.9	2.1	3.11	185
The year	2,370	1.0	154	111,000

KINGS RIVER NEAR HUME, CALIF.

LOCATION.—Water-stage recorder near west line of sec. 35, T.412 S., R. 28 E., 1½ miles below junction of South and Middle Forks of Kings River, and 3¾ miles north of Hume.

RECORDS AVAILABLE.—August, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 10,300 second-feet May 16 (gage height, 8.08 feet); minimum, 100 second-feet October 17.

1921-1927: Maximum discharge, 11,700 second-feet June 4, 1922 (gage height, 8.67 feet); minimum, 63 second-feet September 29 to October 4, 1924.

REMARKS.—Records good except those for December 13 to January 12 and April 23 to May 9, which were estimated. No diversions. Gage-height record and results of discharge measurements furnished by city of Los Angeles.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	110	130	823	305	332	1,310	1,440	4,680	4,010	3,500	1,270	355
2.....	125	128	795	305	300	1,230	1,540	4,520	3,740	3,830	1,230	343
3.....	128	125	730	310	364	1,190	2,230	5,100	4,010	3,830	1,190	335
4.....	120	122	670	315	485	1,110	1,840	5,450	4,900	3,500	1,110	355
5.....	112	120	628	320	425	1,040	1,740	6,100	6,080	3,260	1,110	343
6.....	108	120	616	340	410	1,010	1,680	5,450	7,040	3,260	1,150	328
7.....	108	120	570	370	390	993	1,600	4,600	7,760	3,120	1,150	321
8.....	108	120	535	360	364	1,110	1,640	3,650	7,040	3,260	1,090	314
9.....	108	120	525	325	356	1,070	1,540	3,220	6,320	3,500	953	307
10.....	108	120	510	360	348	990	1,440	3,190	6,080	3,580	896	300
11.....	110	132	595	400	340	958	1,360	3,580	6,320	3,740	854	286
12.....	108	206	465	380	352	958	1,270	4,200	7,040	3,580	895	276
13.....	108	192	430	372	332	1,010	1,230	5,860	7,760	3,420	749	272
14.....	105	178	410	368	430	1,110	1,230	7,040	8,240	3,260	721	268
15.....	105	196	395	364	555	1,010	1,230	6,800	7,520	2,890	682	262
16.....	102	206	395	360	1,260	958	1,190	8,480	7,760	2,750	658	276
17.....	102	203	390	336	970	926	1,190	8,960	7,760	2,610	670	371
18.....	102	189	385	364	2,440	903	1,230	7,520	7,520	2,480	721	375
19.....	105	189	385	385	1,890	854	1,310	6,800	7,280	2,350	682	355
20.....	130	186	380	430	1,640	854	1,400	5,860	7,040	2,350	664	328
21.....	192	182	375	425	1,790	882	1,640	4,400	6,560	2,350	646	318
22.....	166	294	355	385	1,640	1,010	1,940	3,580	6,560	2,540	628	307
23.....	160	731	330	368	1,440	1,190	2,200	3,340	5,640	2,480	586	296
24.....	154	1,490	305	390	1,690	1,400	2,800	3,740	5,420	2,290	550	286
25.....	151	734	290	385	1,690	1,490	3,650	4,800	5,640	2,110	504	279
26.....	145	2,840	295	385	1,590	1,540	4,220	5,420	6,560	1,940	476	272
27.....	145	1,390	290	368	1,490	1,540	4,100	5,000	5,200	1,840	455	259
28.....	142	1,080	280	372	1,400	1,440	4,100	4,200	3,740	1,740	435	233
29.....	140	1,000	295	348	-----	1,400	4,500	3,660	2,960	1,590	420	247
30.....	140	893	300	340	-----	1,310	4,800	3,660	2,890	1,840	387	244
31.....	132	-----	300	336	-----	1,230	-----	3,740	-----	1,400	371	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	192	102	125	7,690
November.....	2,840	120	457	27,200
December.....	823	290	451	27,700
January.....	430	305	360	22,100
February.....	2,440	332	956	53,190
March.....	1,540	854	1,130	69,500
April.....	4,800	1,190	2,110	126,000
May.....	8,960	3,190	5,050	311,000
June.....	8,240	2,890	6,080	362,000
July.....	3,830	1,400	2,770	170,000
August.....	1,270	371	767	47,200
September.....	375	244	304	18,100
The year.....	8,960	102	1,710	1,240,000

TULARE LAKE BASIN

103

KINGS RIVER ABOVE NORTH FORK, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 22, T. 12 S., R. 26 E., 1,500 feet above mouth of North Fork of Kings River.

RECORDS AVAILABLE.—March to September, 1927.

EXTREMES.—Maximum discharge during period, 11,200 second-feet May 17 (gage height, 10.30 feet); minimum, 220 second-feet September 29 and 30.

REMARKS.—Records excellent except those for September 14–19, which were estimated. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Daily and monthly discharge, in second-feet, 1927

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....		1,800	4,780	4,280	3,430	1,200	335
2.....		1,680	4,580	3,990	3,990	1,120	315
3.....		2,300	5,210	3,990	3,990	1,060	315
4.....		1,990	5,550	4,890	3,570	1,060	335
5.....		1,800	6,260	6,260	3,300	1,060	315
6.....		1,720	5,550	7,030	3,240	1,060	315
7.....		1,720	4,580	8,290	3,100	1,060	295
8.....		1,680	3,710	7,030	3,300	985	295
9.....		1,600	8,240	6,450	3,500	880	295
10.....		1,480	8,170	6,260	3,570	820	275
11.....		1,370	8,710	6,260	3,710	790	255
12.....		1,340	4,280	6,530	3,710	760	255
13.....		1,260	5,900	7,850	3,500	700	255
14.....		1,230	7,030	8,520	3,300	670	250
15.....		1,230	6,640	7,640	2,920	640	250
16.....	985	1,230	8,750	7,850	2,740	610	270
17.....	950	1,200	9,220	8,070	2,570	610	360
18.....	950	1,230	7,850	7,640	2,460	670	350
19.....	880	1,300	6,830	7,430	2,300	640	320
20.....	850	1,370	6,260	7,030	2,300	610	295
21.....	880	1,520	4,430	6,640	2,240	580	295
22.....	985	1,850	8,710	6,640	2,460	580	295
23.....	1,120	2,190	3,430	5,900	2,460	552	275
24.....	1,200	2,860	8,850	5,550	2,300	500	275
25.....	1,440	3,710	4,890	5,550	2,040	475	255
26.....	1,520	4,280	5,550	6,640	1,900	450	255
27.....	1,520	4,130	5,210	6,550	1,760	425	255
28.....	1,440	4,130	4,430	3,990	1,680	402	238
29.....	1,400	4,580	3,850	3,040	1,520	402	290
30.....	1,340	4,890	3,850	2,860	1,400	380	220
31.....	1,230		3,990		1,300	358	
Month	Maximum	Minimum	Mean	Run-off in acre-feet			
March 16-31.....	1,520	850	1,170	37,100			
April.....	4,890	1,200	2,140	127,000			
May.....	9,220	3,170	5,170	318,000			
June.....	8,520	2,860	6,200	369,000			
July.....	3,990	1,300	2,760	170,000			
August.....	1,200	358	713	43,800			
September.....	360	220	284	16,900			
The period.....				1,080,000			

KINGS RIVER AT PIEDRA, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ sec. 8, T. 13 S., R. 24 E., half a mile below highway bridge at Piedra and 12 miles northeast of Sanger.

DRAINAGE AREA.—1,740 square miles.

RECORDS AVAILABLE.—September, 1895, to September, 1927.

EXTREMES.—Maximum discharge during year, 19,200 second-feet February 18 (gauge height, 14.28 feet); minimum, 106 second-feet October 20 and 21.

1895-1927: Maximum discharge, about 59,700 second-feet January 25, 1914 (gauge height, 21.8 feet); minimum, 67 second-feet October 3, 1924.

REMARKS.—Records excellent except those for October 1-19, which were estimated on basis of two staff gage readings. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	114	135	1,440	485	584	2,560	2,150	8,440	6,940	4,260	1,440	377
2.....	115	132	1,360	485	564	2,440	3,820	8,240	6,300	4,700	1,220	385
3.....	116	126	1,380	491	647	2,300	5,080	9,190	6,540	4,720	1,140	369
4.....	118	126	1,220	503	3,820	2,200	4,490	9,940	7,740	4,420	1,100	353
5.....	119	126	1,070	521	1,290	2,000	3,650	10,800	9,280	3,990	1,040	353
6.....	120	123	1,000	564	1,000	1,900	3,410	10,200	10,300	3,930	1,070	347
7.....	120	123	1,040	636	870	1,850	3,290	7,950	11,600	3,650	1,070	341
8.....	119	126	902	584	838	2,000	3,170	6,240	10,700	3,650	1,040	335
9.....	118	120	805	533	727	2,300	3,000	5,430	9,580	3,930	985	329
10.....	117	120	779	610	694	2,000	2,720	5,460	9,300	4,070	902	317
11.....	116	120	760	838	668	1,800	2,610	6,440	9,320	4,210	888	311
12.....	115	120	740	668	623	1,750	2,400	7,800	9,820	3,930	796	287
13.....	115	190	694	636	675	1,800	2,300	9,820	10,700	3,930	740	287
14.....	114	251	597	636	1,770	2,150	2,200	11,900	11,600	3,650	688	287
15.....	113	206	545	623	5,660	1,950	2,250	11,000	10,700	3,410	675	281
16.....	111	201	564	623	6,440	1,800	2,300	13,100	10,500	3,170	649	275
17.....	110	212	545	616	4,300	1,700	2,150	14,000	10,500	2,940	636	269
18.....	108	212	545	558	9,290	1,699	2,250	12,500	10,000	2,530	662	289
19.....	107	206	558	573	6,510	1,520	2,450	11,300	9,800	2,690	632	295
20.....	106	201	539	1,040	4,350	1,480	2,680	10,400	9,160	2,560	642	265
21.....	106	201	539	1,070	3,850	1,520	3,050	7,750	8,700	2,500	623	329
22.....	144	201	545	870	4,360	1,660	3,650	6,120	8,650	2,660	610	311
23.....	150	341	521	734	3,290	2,100	4,320	5,690	7,680	2,720	590	299
24.....	150	4,270	491	688	3,790	2,500	5,360	6,300	7,120	2,660	564	287
25.....	147	2,530	455	668	3,790	2,830	6,560	8,220	6,960	2,300	527	281
26.....	144	5,610	485	656	3,410	2,940	7,880	9,190	7,880	2,100	491	269
27.....	141	7,630	461	688	3,290	2,940	7,620	8,640	7,190	2,000	461	269
28.....	141	2,680	467	623	2,830	2,610	7,520	7,460	5,180	1,850	437	268
29.....	141	2,000	479	636	-----	2,560	7,110	6,340	4,810	1,780	419	263
30.....	141	1,800	485	584	-----	2,500	8,700	6,290	3,730	1,660	407	257
31.....	138	-----	485	564	-----	2,300	-----	6,400	-----	1,560	389	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	150	106	124	7,620
November.....	7,630	120	1,010	60,100
December.....	1,440	455	724	44,500
January.....	1,070	483	645	39,700
February.....	9,280	564	2,860	159,000
March.....	2,940	1,480	2,120	130,000
April.....	8,700	2,150	4,040	240,000
May.....	14,000	5,430	8,650	532,000
June.....	11,600	3,730	8,560	611,000
July.....	4,720	1,560	3,170	195,000
August.....	1,440	389	757	46,500
September.....	395	257	316	18,500
The year.....	14,000	106	2,740	1,980,000

NORTH FORK OF KINGS RIVER BELOW MEADOW BROOK, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ 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 square miles.

RECORDS AVAILABLE.—October, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 970 second-feet May 16 (gage height 4.82 feet); minimum, 1.1 second-feet October 19.

1921-1927: Maximum discharge, 970 second-feet May 16, 1927; maximum gage height, 5.02 feet, June 4, 1922. Minimum discharge, 0.3 second-foot part of September 12-14, 1924.

REMARKS.—Records excellent except those for November 10-17, which were estimated. Observations discontinued during winter. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	1.5	26	-----	-----	-----	16	283	298	252	25	3.5
2	1.9	1.5	26	-----	-----	-----	41	312	297	256	22	3.3
3	1.8	1.5	23	-----	-----	-----	41	355	286	238	20	3.8
4	1.5	1.4	21	-----	-----	-----	42	403	362	214	19	5.5
5	1.3	1.4	21	16	-----	-----	42	423	452	199	18	4.4
6	1.2	1.4	21	14	-----	-----	46	336	546	184	19	3.8
7	1.2	1.4	20	15	-----	-----	48	239	572	171	20	3.5
8	1.2	1.4	18	14	-----	20	42	189	480	174	20	3.3
9	1.2	1.4	18	12	-----	21	35	184	472	182	17	3.3
10	1.4	1.4	17	-----	-----	20	30	214	477	193	14	3.8
11	1.5	1.5	16	-----	-----	20	27	266	491	184	14	3.1
12	1.5	3	17	-----	-----	23	26	343	520	164	12	3.0
13	1.4	4	16	-----	10	29	23	485	610	151	11	3.0
14	1.4	4	15	-----	-----	28	23	486	614	133	10	3.0
15	1.4	5	15	-----	-----	26	28	544	534	116	10	2.6
16	1.3	5	15	-----	11	22	25	679	568	100	9	3.5
17	1.2	6	14	-----	18	21	24	657	563	90	8.5	4.4
18	1.2	7	14	-----	-----	20	28	530	526	83	10	3.1
19	1.2	4.4	-----	-----	-----	18	44	478	506	75	10	2.6
20	2.3	4.1	-----	-----	-----	17	58	388	478	73	10	2.4
21	4.4	4.4	-----	-----	-----	19	86	261	488	66	9	2.1
22	3.2	9	-----	-----	-----	31	109	209	454	69	8	1.9
23	2.2	11	-----	-----	-----	54	137	216	404	76	8	1.9
24	1.8	8.5	-----	-----	-----	67	187	304	384	66	7	1.9
25	1.7	10	-----	-----	-----	70	233	410	388	55	6.5	2.0
26	1.7	14	-----	-----	-----	70	244	420	440	49	5.5	2.0
27	1.6	19	-----	-----	-----	61	234	361	305	46	5.5	1.9
28	1.6	73	-----	-----	-----	45	250	284	226	40	4.8	1.9
29	1.6	55	-----	-----	-----	41	286	252	190	35	4.8	1.8
30	1.6	35	-----	-----	-----	35	294	262	207	31	4.4	1.8
31	1.5	-----	-----	-----	-----	27	-----	287	-----	28	3.8	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4.4	1.2	1.66	102
November	73	1.4	9.91	590
December	26	-----	* 17	1,050
January	-----	-----	* 10	615
February	-----	-----	* 27	1,500
March	70	-----	* 31.6	1,940
April	294	16	91.6	5,450
May	679	184	357	22,000
June	614	190	438	26,100
July	256	28	122	7,500
August	25	8.8	11.8	728
September	5.5	1.8	2.92	174
The year	679	1.2	93.5	67,700

* Estimated.

NORTH FORK OF KINGS RIVER NEAR CLIFF CAMP, CALIF.

LOCATION.—Water-stage recorder in N. $\frac{1}{2}$ sec. 12, T. 11 S., R. 27 E., at Cliff Camp Bridge, 1 mile west of Cliff Camp. Altitude, about 6,150 feet.

DRAINAGE AREA.—174 square miles.

RECORDS AVAILABLE.—November, 1922, to September, 1927. August, 1921, to November, 1922, at a site 1 mile upstream.

EXTREMES.—Maximum discharge during year, 5,080 second-feet May 16 (gage height, 12.20 feet); minimum, 3.8 second-feet October 1.

1921-1927: Maximum discharge, 6,030 second-feet June 4, 1922 (gage height, 10.6 feet); minimum, 1.3 second-feet September 9 and 10, 1924.

REMARKS.—Records excellent except those for November 24-28 and September 14-30, which were estimated. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.2	6.5	139	58	62	198	295	2,040	1,770	669	51	11
2	7	6.5	146	60	68	183	381	2,210	1,720	640	47	10
3	7.5	6.5	152	62	68	175	620	2,520	1,880	580	43	10
4	7	6.5	123	70	62	154	410	2,680	2,260	505	41	14
5	6	6.5	116	80	74	144	381	2,800	2,520	440	38	14
6	5.5	6.5	109	80	80	152	410	2,250	2,760	396	38	12
7	5	6.5	98	76	78	183	396	1,610	2,720	368	37	11
8	5	6.5	84	78	76	200	364	1,160	2,340	368	42	11
9	4.8	6	81	82	76	170	300	1,150	2,260	354	36	10
10	5	6.5	76	84	75	152	254	1,470	2,260	354	31	11
11	6	8	76	82	74	144	230	1,900	2,240	354	29	11
12	6	20	80	76	72	166	212	2,490	2,340	302	27	10
13	6	20	66	80	71	208	206	3,170	2,560	278	26	10
14	5.5	13	63	78	65	226	223	3,100	2,500	249	25	10
15	5.5	15	62	77	70	179	249	3,260	2,280	212	23	10
16	5.5	16	59	71	142	157	230	3,720	2,160	184	22	11
17	5	18	60	65	142	152	223	3,600	2,100	166	21	13
18	5	15	63	66	657	152	285	3,060	1,960	149	24	18
19	5	15	60	66	396	141	410	2,810	1,770	136	27	11
20	7	12	58	66	288	147	540	2,320	1,620	130	24	10
21	17	13	58	70	307	179	700	1,500	1,590	120	22	10
22	13	44	57	66	242	271	892	1,180	1,440	120	20	8
23	11	92	56	66	210	381	1,160	1,370	1,240	133	19	8
24	9	1,150	54	66	396	488	1,390	1,960	1,180	117	18	8
25	8	200	56	65	328	540	1,750	2,520	1,160	102	16	8
26	7.5	1,200	56	63	295	560	1,860	2,460	1,220	92	14	8
27	7	450	56	62	261	470	1,820	2,180	855	89	13	8
28	6.5	250	56	64	210	396	1,860	1,780	700	80	12	8
29	6.5	212	56	62	-----	368	2,080	1,580	580	70	12	8
30	6.5	165	56	59	-----	325	2,170	1,680	580	64	12	8
31	6.5	-----	58	60	-----	268	-----	1,790	-----	57	11	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	17	4.2	6.84	421
November	1,200	6	133	7,910
December	152	54	77.1	4,740
January	84	58	69.7	4,290
February	657	62	177	9,830
March	560	141	246	15,100
April	2,170	206	742	44,200
May	3,720	1,150	2,240	138,000
June	2,760	1,820	2,280	108,000
July	660	57	254	15,600
August	51	11	26.5	1,630
September	14	8	10.2	607
The year	3,720	4.2	484	350,000

TULARE LAKE BASIN

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NORTH FORK OF KINGS RIVER BELOW RANCHERIA CREEK, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ SE. $\frac{1}{4}$ 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 to September, 1927.

EXTREMES.—Maximum discharge during period, 5,910 second-feet May 16 (gage height, 12.6 feet); minimum, 21 second-feet September 23.

REMARKS.—Records good except those for August 22–25, which were interpolated. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Daily and monthly discharge, in second-feet, 1927

	Mar.	Apr.	May	June	July	Aug.	Sept.
1		455	2,220	1,900	690	66	26
2		630	2,380	1,820	690	63	26
3		975	2,720	2,060	630	60	26
4		650	2,990	2,380	570	56	30
5		600	3,170	2,720	495	54	31
6		600	2,540	2,900	455	52	30
7		585	1,740	2,900	420	52	26
8	350	540	1,310	2,540	410	54	27
9	301	455	1,250	2,380	400	52	27
10	256	390	1,530	2,380	410	48	27
11	240	380	2,060	2,380	400	46	27
12	274	340	2,540	2,540	350	44	26
13	320	330	3,440	2,720	330	42	26
14	380	340	3,440	2,720	292	42	26
15	292	360	3,620	2,460	256	38	26
16	265	350	4,120	2,380	224	37	28
17	248	330	4,020	2,220	201	37	30
18	240	390	3,440	2,140	180	37	30
19	224	525	3,170	1,900	159	40	27
20	224	630	2,540	1,740	152	38	25
21	265	800	1,740	1,670	146	37	24
22	360	1,000	1,400	1,560	135	36	22
23	495	1,220	1,530	1,340	152	35	22
24	600	1,560	2,140	1,280	135	34	22
25	670	1,900	2,720	1,250	121	33	22
26	690	2,060	2,720	1,310	108	32	22
27	630	2,060	2,380	1,020	103	31	22
28	525	2,060	1,900	825	95	31	22
29	510	2,220	1,740	670	80	30	22
30	455	2,380	1,820	630	77	30	22
31	390	-----	1,900	-----	71	28	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
March 8-31	690	224	384	18,300
April	2,380	330	904	53,800
May	4,120	1,250	2,460	151,000
June	2,900	630	1,660	117,000
July	690	71	288	17,700
August	66	28	42.4	2,610
September	31	22	25.6	1,520
The period				362,000

NORTH FORK OF KINGS RIVER ABOVE DINKEY CREEK, CALIF.

LOCATION.—Water-stage recorder in sec. 10, T. 12 S., R. 26 E., 200 feet above mouth of Dinkey Creek. Altitude, about 1,240 feet.

DRAINAGE AREA.—246 square miles.

RECORDS AVAILABLE.—December, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,900 second-feet May 16 (gage height, 12.00 feet); minimum, 6.5 second-feet September 11.

1919-1927: Maximum discharge, 6,080 second-feet June 4, 1922 (gage height, 12.18 feet); minimum, about 4 second-feet August 29 to September 1, 1924.

REMARKS.—Records good except those for January 2-5, 8, and 9, which were estimated. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	10	12	232	81	102	415	510	2,430	2,016	730	89	26
2.....	12	12	232	86	89	376	790	2,530	1,880	755	81	20
3.....	13	12	235	91	120	345	1,140	2,910	2,060	660	70	20
4.....	14	12	198	97	159	304	780	3,140	2,480	592	53	20
5.....	14	12	175	103	127	289	682	3,390	2,800	530	36	19
6.....	13	12	170	108	134	253	600	2,890	3,020	474	43	21
7.....	12	12	157	129	125	320	660	2,010	3,140	432	55	24
8.....	11	12	136	140	136	390	615	1,500	2,090	415	54	24
9.....	11	12	123	140	116	342	530	1,420	2,450	401	59	21
10.....	11	12	115	159	116	283	446	1,690	2,480	401	54	20
11.....	11	12	115	122	100	262	428	2,140	2,480	404	53	14
12.....	11	18	116	118	113	286	376	2,740	2,580	342	47	20
13.....	12	48	98	122	138	331	356	3,650	2,800	814	26	24
14.....	12	30	89	110	190	415	362	3,790	2,910	263	38	21
15.....	11	23	92	110	345	317	390	3,790	2,590	250	46	13
16.....	11	23	89	113	638	283	394	4,650	2,430	226	36	21
17.....	11	25	86	84	530	265	369	4,070	2,890	206	80	24
18.....	11	25	94	74	1,440	271	432	3,790	2,190	185	86	26
19.....	11	22	84	108	965	202	592	3,390	1,960	170	29	22
20.....	11	21	85	134	638	247	705	2,800	1,800	161	27	20
21.....	12	20	94	111	705	301	882	1,840	1,760	159	35	17
22.....	18	29	85	111	638	362	1,140	1,600	1,640	152	31	17
23.....	17	136	84	106	490	530	1,320	1,560	1,420	180	30	17
24.....	16	1,590	72	103	705	660	1,690	2,140	1,360	190	25	17
25.....	14	415	84	100	660	730	2,010	2,860	1,320	51	25	17
26.....	13	1,820	76	102	592	755	2,240	2,860	1,890	122	27	17
27.....	13	1,040	76	86	550	705	2,190	2,480	1,060	115	26	17
28.....	12	373	76	94	450	670	2,190	2,010	805	108	18	17
29.....	12	345	75	98	-----	550	2,390	1,800	705	98	26	17
30.....	12	317	76	84	-----	610	2,590	1,880	638	115	23	17
31.....	12	-----	78	89	-----	435	-----	1,960	-----	98	20	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	18	10	12.4	762
November.....	1,820	12	215	12,800
December.....	235	72	118	7,130
January.....	159	74	107	6,580
February.....	1,440	89	367	22,000
March.....	755	202	367	24,400
April.....	2,580	356	964	59,100
May.....	4,650	1,420	2,630	162,000
June.....	3,140	638	2,040	121,000
July.....	755	51	300	18,400
August.....	59	18	40.1	2,470
September.....	26	17	19.8	1,180
The year.....	4,650	10	605	438,000

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 trail crossing, Deer Meadow to Long Meadow. Altitude, about 8,000 feet.

DRAINAGE AREA.—34 square miles.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,140 second-feet May 16 (gage height, 5.58 feet); minimum, 1.2 second-feet part of day October 1 and November 1-7.

1922-1927: Maximum discharge, that of May 16, 1927; minimum, 1.1 second-feet August 1 and 27, 1924.

REMARKS.—Records good except those for November 29 to December 9, which were estimated because of ice. Observations discontinued during winter. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Apr.	May	June	July	Aug.	Sept.
1.....	2.8	2.8	14				453	367	61	5	3.2
2.....	3.6	2.8	14				486	360	55	5	3.2
3.....	3.4	2.8	14				536	428	50	4.7	3.4
4.....	3.0	2.8	12	6			660	460	44	4.7	4.2
5.....	3.0	2.8	10				602	469	41	4.4	3.6
6.....	3.0	2.8	8.5			25	496	490	37	4.4	3.2
7.....	3.0	3.0	8			35	355	460	33	4.2	3.2
8.....	3.0	3.0	7				274	402	31	4.0	3.0
9.....	3.0	3.0	7				284	386	30	3.8	3.0
10.....	3.2	3.2					377	373	28	3.8	3.2
11.....	3.2	3.4			13		482	368	24	3.6	3.2
12.....	3.2	3.4		7.5			602	373	22	3.6	3.2
13.....	3.0	4.2				17	741	400	19	3.6	3.2
14.....	3.0	3.6				14	689	368	18	3.6	3.2
15.....	2.8	3.6					752	340	17	3.6	3.2
16.....	2.8	4.0					910	305	15	3.4	3.6
17.....	2.8	4.2					742	262	14	3.4	4.0
18.....	2.8	4.2				50	650	237	12	4.2	3.6
19.....	2.8	3.8				54	592	203	12	4.0	3.4
20.....	4.4	3.8				72	472	180	11	3.8	3.2
21.....	4.7	4.2				102	318	167	10	3.6	3.2
22.....	3.4	8.5				135	272	144	10	3.4	3.2
23.....	3.2	7.5				182	346	122	10	3.4	3.2
24.....	3.0	12				261	480	112	9	3.4	3.2
25.....	3.0	17				332	558	108	8	3.4	3.2
26.....	3.0	14				366	510	102	7.5	3.4	3.2
27.....	3.0	15				372	444	78	8	3.2	3.2
28.....	3.0	14				388	376	72	7.5	3.2	3.2
29.....	3.0	14				434	356	62	6	3.2	3.2
30.....	3.0	14				473	373	62	5.5	3.2	3.2
31.....	2.8						390		5.5	3.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	4.7	2.8	3.13	192
November.....	17	2.8	6.25	372
December.....			* 10	615
January.....			* 6	369
February.....			* 22	1,220
March.....			* 25	1,540
April.....	473		* 121	7,200
May.....	910	272	503	30,900
June.....	490	62	275	16,400
July.....	61	5.5	21.3	1,310
August.....	5	3.2	3.79	233
September.....	4.2	3.0	3.30	196
The year.....	910	2.8	83.6	60,500

* Estimated.

RANCHERIA CREEK NEAR SMITH MEADOW, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 19, T. 11 S., R. 28 E., at trail crossing (Cliff Camp to Smith Meadow), half a mile below North Fork of Rancheria Creek, and half a mile north of Smith Meadow. Altitude, about 6,400 feet.

DRAINAGE AREA.—22 square miles.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 426 second-feet May 16 (gage height, 5.45 feet); minimum, 3.6 second-feet October 10–13 (gage height, 2.21 feet).

1924–1927: Maximum discharge, that of May 16, 1927; practically no flow part of November 25–27, 1924.

REMARKS.—Records fair. Observations discontinued during winter. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	4.2	6	14	-----	7	24	44	214	224	49	20	7.5
2.....	4.0	6.5	13	-----	8.5	22	53	224	224	45	19	7
3.....	4.0	7	14	-----	8	21	78	240	231	39	18	7.5
4.....	3.9	6	14	-----	8	20	57	262	268	34	17	8
5.....	3.9	4.4	11	-----	9	15	53	270	270	31	16	7.5
6.....	3.8	4.2	11	-----	8	15	52	234	292	29	16	7
7.....	3.8	3.9	10	-----	8	16	50	188	285	26	16	7
8.....	3.8	3.8	11	-----	9	18	44	145	263	33	13	7
9.....	3.8	3.6	11	-----	10	17	38	121	245	37	12	7
10.....	3.6	3.5	11	-----	9	17	38	147	238	33	11	7
11.....	3.6	3.6	11	-----	10	18	29	190	246	30	11	7
12.....	3.6	3.3	-----	-----	9	18	36	236	250	28	11	7
13.....	3.6	2.5	-----	-----	8.5	20	34	269	262	27	10	7
14.....	3.9	7	-----	-----	8	21	33	299	256	26	10	7
15.....	4.2	6	-----	-----	8	21	31	316	251	26	10	7
16.....	4.4	5.5	-----	-----	21	20	29	357	240	26	10	8
17.....	4.7	4.5	-----	-----	27	20	29	352	224	24	10	7.5
18.....	5	5	-----	-----	78	21	32	324	206	26	10	7
19.....	5.5	5	-----	-----	110	24	43	309	188	26	9.5	6.5
20.....	6	4.8	-----	-----	88	24	57	272	168	24	9.5	6
21.....	6	4.8	-----	-----	47	28	72	216	147	24	9.5	6
22.....	5.5	6	9.5	9	29	33	73	197	129	23	9	6
23.....	5.5	12	-----	-----	25	42	82	212	104	21	9	6
24.....	5.5	117	-----	-----	33	53	106	253	102	20	9	6
25.....	5.5	30	-----	-----	29	60	142	285	91	20	8.5	6
26.....	5.5	55	-----	-----	28	64	149	284	82	19	8	6
27.....	5.5	73	-----	-----	29	60	150	265	70	19	8	6
28.....	5.5	47	-----	-----	24	50	161	233	73	20	7.5	6
29.....	5	30	-----	-----	-----	48	195	219	69	21	7.5	6
30.....	5	20	9	-----	-----	41	211	229	53	20	7.5	6
31.....	5.5	-----	-----	-----	-----	39	-----	234	-----	21	7.5	-----
Month	Maximum		Minimum		Mean		Run-off in acre-feet					
October.....	6		3.6		4.62		284					
November.....	117		2.5		16.4		976					
December.....	14		-----		* 10		615					
January.....	-----		-----		* 9		553					
February.....	110		7		24.9		1,380					
March.....	64		15		29.4		1,810					
April.....	211		29		273.4		4,370					
May.....	357		121		46		15,100					
June.....	292		53		192		11,400					
July.....	49		19		27.3		1,680					
August.....	20		7.5		11.3		695					
September.....	8		6		6.75		402					
The year.....	357		2.5		54.2		39,800					

* Estimated.

TULARE LAKE BASIN

111

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. Altitude, about 5,440 feet.

DRAINAGE AREA.—51 square miles.

RECORDS AVAILABLE.—October, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,660 second-feet November 26 (gage height, 7.62 feet); minimum, 1.4 second-feet October 31.

1921-1927: Maximum discharge, that of November 26, 1926; minimum, 0.4 second-foot August 30, 1924.

REMARKS.—Records good except those for October 3-6 and March 10-17, which were interpolated or estimated. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1.5	1.5	105	47	38	166	224	535	334	90	10	3.1
2.....	2.0	1.6	99	44	40	155	309	633	314	86	9.5	2.8
3.....	2.0	1.6	103	44	41	141	599	685	378	81	9	3.1
4.....	1.9	1.6	82	45	49	124	348	714	438	73	8	3.9
5.....	1.8	1.6	77	46	61	114	294	709	468	66	8	3.5
6.....	1.7	1.5	77	45	44	124	274	556	507	61	7	2.9
7.....	1.7	1.5	72	53	45	145	259	408	478	56	7	2.8
8.....	1.7	1.5	59	53	43	151	231	330	421	53	6	2.8
9.....	1.7	1.5	53	48	42	127	195	291	370	50	5.5	2.8
10.....	1.7	1.6	48	48	40	115	175	338	376	47	5.5	2.9
11.....	1.8	2.2	50	48	44	110	158	432	389	44	5	2.9
12.....	1.9	10	49	42	48	130	146	550	423	40	4.7	2.9
13.....	1.9	7.5	40	43	40	160	143	708	455	36	4.7	2.9
14.....	1.8	4.2	37	42	40	170	140	688	413	33	4.7	3.1
15.....	1.7	3.2	40	42	67	140	142	728	390	30	4.7	2.9
16.....	1.7	3.6	36	42	175	120	138	797	376	28	4.6	3.6
17.....	1.7	3.4	36	38	134	115	141	742	334	25	4.2	4.1
18.....	1.6	3.1	36	38	701	110	170	630	306	23	4.1	3.2
19.....	1.6	2.8	36	37	340	100	210	564	274	22	4.2	2.9
20.....	1.7	2.8	34	50	228	105	269	458	244	20	3.9	2.7
21.....	2.0	2.7	33	51	264	130	326	338	230	19	3.8	2.6
22.....	2.2	7.5	35	39	224	180	376	292	206	17	3.5	2.5
23.....	2.0	43	34	40	185	236	465	319	180	17	3.4	2.4
24.....	1.7	1,040	33	40	308	272	568	414	165	16	3.2	2.4
25.....	1.7	96	38	40	270	286	644	478	156	15	3.2	2.5
26.....	1.6	969	36	39	249	286	640	470	150	14	3.2	2.5
27.....	1.5	300	39	39	215	252	601	414	132	14	3.2	2.5
28.....	1.5	137	40	39	180	216	615	345	114	12	3.2	2.4
29.....	1.6	169	38	36	-----	216	624	316	99	12	3.2	2.5
30.....	1.5	119	46	36	-----	190	618	332	91	11	3.2	2.5
31.....	1.5	-----	48	38	-----	163	-----	354	-----	11	3.2	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	2.2	1.5	1.74	107
November.....	1,040	1.5	98.0	5,880
December.....	105	33	51.3	3,150
January.....	53	36	43.0	2,640
February.....	701	38	148	8,220
March.....	286	100	163	10,000
April.....	644	138	334	19,900
May.....	797	291	504	31,000
June.....	507	91	307	18,300
July.....	90	11	36.2	2,230
August.....	10	3.2	5.05	311
September.....	4.1	2.4	2.89	172
The year.....	1,040	1.5	141	102,000

DINKEY CREEK AT MOUTH, CALIF.

LOCATION.—Water-stage recorder in sec. 3, T. 12 S., R. 26 E., half a mile above mouth. Altitude, about 1,310 feet.

DRAINAGE AREA.—136 square miles.

RECORDS AVAILABLE.—January, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,150 second-feet November 26 (gage height, 10.41 feet); minimum, 3.6 second-feet part of October 1.

1920-1927: Maximum discharge, 3,360 second-feet November 9, 1924 (gage height, 10.57 feet); minimum, 1.6 second-feet August 31, 1924.

REMARKS.—Records good except those for December 8-23, which were estimated. No diversions. Gage-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3.7	4.6	181	62	75	370	415	1,120	650	154	23	9.5
2.....	4.6	4.6	178	64	81	340	650	1,180	570	146	22	9.5
3.....	7	4.6	170	67	98	310	1,120	1,300	650	136	22	9.5
4.....	7	4.6	142	72	224	288	730	1,340	755	126	20	11
5.....	6	4.3	132	84	129	258	610	1,340	805	118	20	12
6.....	4.9	4.3	130	88	107	263	552	1,120	855	108	19	11
7.....	4.3	4.3	123	74	97	293	535	830	830	100	18	9.5
8.....	4.0	4.3	102	86	92	340	500	690	755	95	18	9.5
9.....	4.0	4.3	92	83	88	305	430	610	670	90	17	9.5
10.....	4.0	4.3	86	102	86	253	385	630	630	85	15	9.5
11.....	4.6	4.6	86	95	82	246	370	805	620	80	15	9.5
12.....	4.0	12	87	78	83	253	340	980	690	75	15	9.5
13.....	4.9	34	73	84	83	288	325	1,240	755	68	15	9.5
14.....	4.6	17	67	82	156	310	310	1,300	710	64	15	9.5
15.....	4.0	12	69	79	310	268	325	1,270	650	60	15	9.5
16.....	4.0	11	67	83	570	242	325	1,410	630	57	14	10
17.....	3.9	11	65	65	370	235	310	1,380	570	53	13	12
18.....	3.9	11	70	74	1,550	244	355	1,180	518	50	13	12
19.....	3.9	10	63	73	855	212	415	1,060	465	45	12	10
20.....	4.0	9.5	64	106	518	221	482	905	415	42	12	9
21.....	4.3	9.5	70	102	552	246	590	690	385	40	12	8.5
22.....	6	14	64	85	518	325	690	590	355	38	12	8
23.....	6	46	63	76	415	415	830	610	310	36	11	7.5
24.....	5.5	1,600	51	79	590	482	1,000	730	280	35	11	7.5
25.....	4.9	256	60	74	552	482	1,150	880	260	33	11	8
26.....	4.6	1,660	57	78	518	518	1,240	855	251	31	10	8
27.....	4.3	868	53	74	465	482	1,180	780	226	29	10	8
28.....	4.0	288	57	76	385	400	1,150	670	196	28	10	8
29.....	4.0	288	59	71	-----	415	1,180	610	183	26	10	8
30.....	4.3	226	60	71	-----	385	1,180	630	180	25	10	8
31.....	4.3	-----	63	72	-----	340	-----	650	-----	24	10	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	7	3.7	4.66	287
November.....	1,660	4.3	181	10,800
December.....	181	51	87.2	5,360
January.....	106	62	79.3	4,880
February.....	1,550	75	345	19,200
March.....	518	212	323	19,900
April.....	1,240	310	656	39,000
May.....	1,410	590	948	58,300
June.....	855	160	529	31,500
July.....	154	24	67.6	4,160
August.....	23	10	14.5	392
September.....	12	7.5	9.35	556
The year.....	1,660	3.7	269	195,000

DREE CREEK BELOW EAST FORK, CALIF.

LOCATION.—Water-stage recorder in sec. 6, T. 11 S., R. 27 E., 100 feet above proposed dam and 200 feet below mouth of East Fork. Altitude, about 6,700 feet.

DRAINAGE AREA.—21 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 494 second-feet May 15 (gauge height, 6.21 feet); minimum 0.4 second-foot part of October 13 and 20-27. 1923-1927: Maximum discharge, 650 second-feet November 9, 1924 (gauge height, 6.54 feet); minimum, 0.2 second-foot October 3, 1924.

REMARKS.—Records good. Observations discontinued during winter. No diversions. Gauge-height record and results of discharge measurements furnished by San Joaquin Light & Power Corporation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1	0.6	0.6	33				53	250	140	25	4.0	1.5	
2	.6	.6	32				70	274	138	23	3.5	1.5	
3	.6	.6	32				138	304	161	21	3.5	1.5	
4	.5	.5	28				94	313	180	19	3.0	1.7	
5	.6	.5	28		16		83	310	186	17	2.5	1.5	
6	.5	.5	27				80	235	196	16	2.5	1.5	
7	.5	.5	23				78	173	176	14	2.5	1.5	
8	.5	.5	21		11		70	140	154	13	2.5	1.3	
9	.6	.5	20				61	131	143	13	2.0	1.3	
10	.6	.5	20				59	156	150	12	1.7	1.3	
11	.6	.6	22				49	201	147	11	1.7	1.3	
12	.6	1.3	20				48	256	143	10	2.0	1.3	
13	.7	1.3	20				45	310	156	9.5	2.0	1.3	
14	.6	.9					43	298	140	9	2.0	1.3	
15	.6	.9					43	316	136	9	2.0	1.3	
16	.6	.9					41	322	122	9	2.0	1.3	
17	.6	.9				36	48	304	110	8.5	2.0	1.3	
18	.6	.7		13		34	50	268	98	8	1.7	1.1	
19	.6	.9				34	67	241	87	8	1.7	.9	
20	.7	.9	13			34	80	186	73	8	1.7	.9	
21	.7	.9				38	110	150	69	7	1.7	.9	
22	.7	8.5				53	131	134	59	7	1.5	.7	
23	.7	13		11	52	75	163	154	62	7	1.5	.7	
24	.7	215				87	206	196	48	6.5	1.5	.7	
25	.7	36				92	250	217	44	6.5	1.5	.7	
26	.7	162				92	256	193	43	6.5	1.5	.7	
27	.7	71				83	238	170	37	6	1.5	.7	
28	.6	41				70	250	147	34	6	1.5	.7	
29	.6	45				67	265	140	31	5	1.5	.9	
30	.6	37				60	265	156	27	4.5	1.5	.9	
31	.6					50		161		4.5	1.5		
Month							Maximum	Minimum	Mean	Run-off in acre-feet			
October							0.7	0.5	0.62	38.1			
November							215	.5	21.5	1,280			
December							33		21	1,290			
January									17	1,050			
February									30	1,670			
March							92		40	2,460			
April							265	41	114	6,780			
May							322	131	220	13,500			
June							196	27	109	6,490			
July							25	4.5	10.6	652			
August							4.0	1.5	2.04	125			
September							1.7	.7	1.14	67.8			
The year							322		.5	49.0	35,400		

• Estimated.

SAN JOAQUIN RIVER BASIN

SAN JOAQUIN RIVER AND TRIBUTARIES ABOVE FRESNO RIVER

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 Lake Florence Dam and 6 miles above mouth of Bear Creek. Altitude, about 7,200 feet.

RECORDS AVAILABLE.—December, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,700 second-feet June 14 (gage height, 13.37 feet); minimum, 0.4 second-foot November 12.

1921-1927: Maximum discharge, 3,460 second-feet June 4, 1922 (gage height, 13.75 feet); stream practically dry August 30, September 2-7, 1924 and December 16 and 17, 1925.

REMARKS.—Most of the flow was diverted above gage by Florence Lake Tunnel (see p. 120) to Huntington Lake on Big Creek. Storage in Florence Lake was 79 acre-feet on September 30, 1926, and 29,500 acre-feet on September 30, 1927. Record of daily discharge furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	0.7	2.6	1.6	2.0	1.8	30	447	541	13	24	7
2	64	.7	2.6	1.8	2.0	1.8	120	352	573	13	13	7
3	20	.7	2.6	1.8	2.0	1.8	135	539	592	12	13	6.5
4	2.4	.7	2.4	2.0	1.8	1.7	26	541	858	12	13	6.5
5	2.4	.7	2.4	2.0	1.6	1.5	2.2	516	1,190	13	13	7
6	1.5	.7	2.6	2.0	1.6	1.6	2.0	448	1,750	13	12	7
7	1.5	.7	2.4	2.0	1.6	1.9	1.8	270	1,940	11	12	7
8	1.5	.7	2.1	2.0	1.6	1.6	1.8	196	1,720	10	12	7
9	1.2	.7	2.0	2.0	1.6	1.6	1.8	165	1,510	10	10	7
10	1.2	.7	1.8	2.0	1.6	1.4	47	190	1,580	11	10	7
11	1.5	1.0	2.1	2.0	1.6	1.6	1.7	224	1,690	12	10	7
12	1.5	1.0	1.8	2.0	1.3	2.0	1.3	312	1,890	11	9.5	7
13	1.2	1.0	1.5	2.0	1.3	2.1	1.3	702	2,140	11	9	7
14	1.5	1.0	1.8	2.0	1.2	2.0	1.5	1,100	2,180	10	9	7
15	1.5	1.0	1.8	2.3	1.1	1.7	1.6	1,110	2,070	11	9	7
16	1.5	1.1	1.8	2.0	1.0	48	1.4	1,300	2,050	117	9	7
17	1.5	1.1	1.8	2.0	.9	1.5	2.1	1,480	1,950	348	9	6.5
18	1.5	1.2	1.8	2.0	3.8	1.4	1.4	1,130	1,500	388	9	6.5
19	1.5	1.2	1.8	2.0	17	1.3	1.4	833	63	285	9	6.5
20	2.0	1.2	1.8	2.0	23	1.4	1.3	702	67	249	8.5	6.5
21	1.6	1.8	1.8	2.0	26	1.7	2.1	414	56	230	8.5	7
22	24	2.4	1.8	2.0	78	1.8	.56	304	38	289	8.5	7
23	28	3.6	1.8	2.0	107	2.1	169	240	25	314	8.5	7
24	26	8.5	1.5	2.0	39	1.8	2.1	319	12	126	8	7
25	15	2.5	1.5	2.0	13	6.5	307	566	11	116	8	7
26	24	5.5	1.5	1.9	3.8	160	408	670	11	104	8	7
27	29	2.6	1.5	1.9	2.6	206	220	764	11	51	8	7
28	25	3.1	1.5	1.9	2.6	86	278	841	11	46	8	7
29	14	3.2	1.6	1.8	-----	52	353	690	11	24	8	7
30	1.0	2.1	1.5	2.0	-----	21	373	680	11	25	7.5	7
31	.7	-----	1.5	2.0	-----	8	-----	587	-----	32	7	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	64	0.7	9.73	598
November	8.5	.7	1.77	105
December	2.6	1.5	1.90	117
January	2.3	1.6	1.97	121
February	107	.9	12.2	678
March	206	1.3	20.2	1,240
April	408	1.3	94.0	5,590
May	1,480	165	601	37,000
June	2,180	11	935	55,600
July	388	10	94.1	5,790
August	24	7	10.0	615
September	7	6.5	6.90	411
The year	2,180	.7	149	108,000

SOUTH FORK OF SAN JOAQUIN RIVER NEAR HOFFMAN MEADOW, CALIF.

LOCATION.—Water-stage recorder in sec. 8, T. 6 S., R. 26 E., unsurveyed, 2 miles above Hoffman Creek and 3 miles east of Hoffman Meadow. Altitude, about 5,100 feet.

RECORDS AVAILABLE.—November, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,870 second-feet June 14 (gauge height, 14.54 feet); minimum, 25 second-feet October 1.

1921-1927: Maximum discharge, 5,930 second-feet June 5, 1922 (gauge height, 15.21 feet); minimum, 21 second-feet December 14, 1925.

REMARKS.—Records excellent except those for December 13 to January 6, which were estimated because of ice. A large part of the flow was stored in Florence Lake and diverted by Florence Lake Tunnel (see p. 120) into Huntington Lake on Big Creek. Gauge-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	32	204	70	81	311	350	1,480	1,490	975	358	91
2	28	31	197	70	84	298	770	1,440	1,540	1,050	320	88
3	86	30	234	70	88	275	1,000	1,740	1,550	1,020	311	87
4	50	30	197	75	100	242	670	1,860	1,980	975	293	104
5	32	29	163	80	95	226	488	1,970	2,420	900	293	99
6	29	29	153	75	113	234	458	1,760	3,220	875	302	92
7	28	29	145	72	108	266	430	1,300	3,820	830	284	87
8	27	29	123	91	104	293	380	1,040	3,470	850	266	84
9	27	29	121	91	99	266	348	890	3,150	875	242	82
10	27	29	118	95	99	234	329	960	3,250	950	226	81
11	27	32	119	93	96	234	321	1,040	3,350	975	211	79
12	27	40	117	93	92	250	275	1,280	3,710	950	197	76
13	27	38	86	101	89	293	266	1,960	4,190	925	189	75
14	26	38	75	96	91	329	266	2,880	4,310	850	182	74
15	27	43	85	96	89	258	293	2,680	4,190	750	175	72
16	27	50	85	93	123	258	284	3,320	4,310	730	169	72
17	27	48	85	78	124	266	258	3,620	4,190	950	168	107
18	27	45	85	86	386	242	293	3,170	3,900	1,050	180	92
19	27	43	80	89	338	211	348	2,540	2,090	925	175	88
20	28	46	80	87	338	218	380	2,220	1,890	875	166	85
21	51	46	80	89	417	242	444	1,600	1,820	850	162	81
22	49	54	75	81	417	302	565	1,240	1,820	925	156	78
23	64	80	70	92	458	380	765	1,100	1,640	1,000	145	76
24	67	348	65	96	580	444	1,010	1,180	1,640	730	130	74
25	62	139	70	87	533	444	1,200	1,720	1,610	650	121	72
26	49	424	70	84	473	533	1,400	2,030	1,820	615	116	71
27	60	301	70	82	417	632	1,220	1,920	1,370	580	114	69
28	63	214	70	84	329	488	1,240	1,960	1,020	533	111	68
29	58	320	70	80	-----	417	1,410	1,660	822	444	105	67
30	47	258	70	81	-----	380	1,500	1,600	830	417	99	65
31	33	-----	70	82	-----	338	-----	1,580	-----	380	95	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	86	26	39.8	2,450
November	424	29	96.6	5,750
December	234	65	107	6,580
January	101	70	85.1	6,230
February	580	81	227	12,600
March	632	211	316	19,400
April	1,500	253	632	37,600
May	3,620	890	1,830	118,000
June	4,310	822	2,650	152,000
July	1,050	380	819	50,400
August	358	95	196	12,100
September	107	65	81.2	4,830
The year	4,310	26	581	422,000

SAN JOAQUIN RIVER ABOVE BIG CREEK, CALIF.

LOCATION.—Water-stage recorder in sec. 11, T. 8 S., R. 24 E., 3 miles above mouth of Big Creek. Altitude, about 2,500 feet.

RECORDS AVAILABLE.—March, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,400 second-feet May 17 (gage height, 16.35 feet); minimum, 84 second-feet October 1.

1922-1927: Maximum discharge, 18,000 second-feet June 5, 1922 (gage height, 17.34 feet); minimum, 82 second-feet September 23, 1926.

REMARKS.—Records excellent. A large part of the flow of South Fork of San Joaquin River was diverted by Florence Lake Tunnel (see p. 120) to Huntington Lake on Big Creek. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	86	102	970	345	387	1,680	1,720	6,320	4,900	3,280	945	281
2	92	96	945	345	436	1,560	2,530	6,110	4,510	3,560	870	272
3	101	94	970	352	576	1,460	5,040	6,770	5,170	3,280	845	269
4	142	93	920	366	977	1,320	3,630	7,480	6,220	3,010	820	311
5	121	93	795	394	670	1,230	2,760	8,240	7,380	2,760	770	350
6		102	93	720	458	645	1,200	2,380	7,480	8,760	2,700	770
7		93	93	670	432	596	1,200	2,300	5,350	10,200	2,530	770
8		98	93	575	429	557	1,460	2,120	4,240	9,620	2,530	720
9		98	93	518	462	526	1,460	1,920	3,770	7,980	2,530	696
10		98	93	502	544	510	1,260	1,760	4,290	8,500	2,760	630
11		92	96	502	548	482	1,170	1,680	4,970	8,500	2,880	598
12		98	145	502	458	494	1,170	1,500	6,890	9,320	2,700	572
13		98	212	446	454	478	1,290	1,460	8,080	10,600	2,680	532
14		98	152	380	443	598	1,560	1,500	9,980	10,900	2,340	504
15		92	137	380	440	1,170	1,320	1,640	9,210	10,200	2,120	488
16		90	144	404	443	1,900	1,200	1,600	11,300	10,600	1,920	472
17		90	158	394	415	1,230	1,200	1,420	11,800	10,200	2,000	468
18		88	154	404	380	4,660	1,140	1,560	9,880	9,320	2,160	480
19		88	147	387	412	2,580	1,050	2,000	8,190	7,100	2,080	484
20		90	160	359	502	1,960	1,050	2,250	6,860	6,320	1,960	476
21		99	169	390	478	2,580	1,110	2,640	5,070	6,110	1,840	468
22		139	189	370	446	2,430	1,360	3,350	4,160	6,110	1,840	448
23		142	394	370	404	2,040	1,760	4,150	3,990	5,530	1,960	424
24		141	4,370	324	412	2,820	2,060	5,170	4,850	5,350	1,840	392
25		139	1,360	345	415	2,700	2,250	6,110	6,320	5,170	1,530	368
26		134	3,550	366	412	2,430	2,340	6,540	6,980	5,350	1,420	344
27		125	3,480	324	404	2,250	2,430	6,540	5,990	4,640	1,390	329
28		123	1,290	352	404	1,880	2,040	6,110	5,400	3,420	1,320	323
29		129	1,360	352	404	1,880	6,540	4,640	4,640	2,640	1,200	314
30		123	1,290	348	384	1,720	6,770	4,660	2,700	1,080	305	188
31		117	345	387	387	1,600	-----	4,740	-----	1,020	293	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	142	86	107	6,580
November	4,370	93	663	39,500
December	970	324	504	31,000
January	548	345	425	26,100
February	4,660	387	1,450	80,500
March	2,430	1,050	1,500	92,200
April	6,770	1,420	3,220	192,000
May	11,800	3,770	6,550	408,000
June	10,900	2,640	7,110	423,000
July	3,560	1,020	2,200	135,000
August	945	293	545	33,600
September	350	188	244	14,500
The year	11,800	86	2,040	1,480,000

SAN JOAQUIN RIVER NEAR FRIANT, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 5, T. 11 S., R. 21 E., $1\frac{1}{2}$ miles northeast of Friant.

DRAINAGE AREA.—1,640 square miles at old location 2 miles upstream.

RECORDS AVAILABLE.—October, 1907, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,300 second-feet May 17 (gage height, 12.77 feet); minimum, 94 second-feet October 5.

1907-1927: Maximum discharge, about 46,200 second-feet January 25, 1914 (gage height, 21.72 feet); minimum, 44 second-feet September 15, 1924.

REMARKS.—Records excellent except those for March 4-6, 10, and 11, which were estimated. Water is stored at Lake Florence, Huntington Lake, Shaver Lake, and Crane Valley Reservoir. Operation of power plant at Kerekhoff causes considerable diurnal fluctuation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	617	414	1,710	595	975	3,080	2,420	7,310	5,470	3,240	1,460	885
2.....	390	476	1,430	850	1,020	2,640	4,350	7,170	4,990	3,860	1,620	895
3.....	249	446	1,340	835	1,100	2,500	6,290	7,790	5,800	3,580	1,660	875
4.....	486	440	1,620	855	3,580	2,650	6,080	8,320	6,340	3,420	1,600	640
5.....	300	354	1,190	935	1,940	2,750	4,220	9,150	7,550	3,200	1,280	605
6.....		464	1,080	1,140	1,800	1,680	3,710	8,900	8,900	3,120	1,180	990
7.....	564	567	1,220	1,180	1,420	2,040	3,460	6,640	10,400	3,000	1,450	975
8.....	612	354	1,150	1,060	1,200	2,020	3,280	5,170	10,700	2,970	1,130	840
9.....	558	404	1,070	850	1,160	2,640	2,920	4,660	8,900	2,920	1,610	810
10.....	340	455	925	1,230	1,380	1,840	2,660	4,920	9,150	2,920	1,240	850
11.....	580	420	1,080	1,510	1,320	1,680	2,640	5,590	9,150	3,380	1,500	785
12.....	446	545	700	1,280	1,070	1,580	2,340	6,170	8,900	3,040	1,010	660
13.....	486	440	1,080	1,120	940	1,760	2,400	7,910	10,700	3,170	1,210	865
14.....	632	420	1,050	1,120	1,530	2,410	2,270	10,400	11,200	3,020	910	765
15.....	638	475	880	1,110	3,640	2,340	2,240	9,650	10,400	2,600	1,140	725
16.....	567	480	805	900	3,900	2,230	2,440	11,200	10,700	2,700	1,210	805
17.....	432	585	905	1,120	3,200	1,760	2,280	12,000	10,700	2,460	1,200	750
18.....	468	460	985	1,180	3,860	2,060	2,290	10,900	9,900	2,560	1,200	705
19.....	432	480	675	1,100	5,350	1,990	2,600	9,150	8,180	2,840	950	760
20.....	468	585	970	1,460	3,200	1,360	2,950	7,940	7,010	2,740	1,100	740
21.....	492	725	800	1,630	3,560	1,680	3,380	6,320	6,470	2,620	615	905
22.....	492	560	800	1,340	4,860	1,880	4,080	5,120	6,740	2,620	1,200	810
23.....	481	440	835	935	3,530	2,360	4,620	4,520	5,930	2,720	1,060	785
24.....	492	3,100	820	1,160	4,270	2,800	5,600	5,260	5,820	2,960	1,080	770
25.....	558	3,460	500	1,120	4,370	2,920	6,820	6,500	5,440	2,520	1,090	685
26.....	478	1,890	590	1,040	3,970	2,980	7,470	7,910	5,270	2,380	1,050	750
27.....	356	5,140	965	1,170	3,400	3,260	8,240	6,980	5,290	2,300	965	830
28.....	425	2,620	825	1,060	3,300	3,000	7,090	6,580	4,160	2,260	690	810
29.....	454	1,780	695	1,020	-----	2,800	7,650	5,300	3,280	2,180	535	755
30.....	434	1,700	825	805	-----	2,770	8,020	5,100	3,070	2,000	960	770
31.....	308	-----	750	1,000	-----	2,600	-----	5,380	-----	1,540	900	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	638	249	468	28,800
November.....	5,140	354	1,020	60,700
December.....	1,710	560	981	60,300
January.....	1,630	595	1,070	65,800
February.....	5,350	940	2,650	147,000
March.....	3,280	1,360	2,320	142,000
April.....	8,240	2,280	4,280	252,000
May.....	12,000	4,520	7,290	448,000
June.....	11,200	3,070	7,550	449,000
July.....	3,860	1,540	2,800	172,000
August.....	1,600	535	1,160	71,300
September.....	990	605	792	47,100
The year.....	12,000	249	2,690	1,940,000

SAN JOAQUIN RIVER NEAR NEWMAN, CALIF.

LOCATION.—Staff gage in SW. $\frac{1}{4}$ sec. 3, T. 7 S., R. 9 E., at drawbridge on Hill's Ferry road, 300 feet below mouth of Merced River and $3\frac{1}{2}$ miles northeast of Newman.

RECORDS AVAILABLE.—April, 1912, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,150 second-feet May 18 and 19 (gage height, 13.0 feet); minimum, 89 second-feet October 7.

1912-1927: Maximum discharge, 20,700 second-feet January 27, 1914 (gage height, 13.0 feet); minimum, 15 second-feet August 9 and 10, 1924.

REMARKS.—Records good. Practically the entire low-water flow of main river and tributaries is diverted for irrigation, hence the low-water records show mainly the amount of return water.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	90	116	1,560	960	1,060	6,120	2,820	6,000	6,480	4,000	685	320
2.....	95	119	2,180	960	1,060	5,880	3,700	6,480	6,120	3,100	640	306
3.....	96	122	2,500	960	1,060	5,880	3,600	6,720	5,330	2,820	640	306
4.....	101	125	2,340	915	1,110	5,770	3,600	6,840	5,000	2,660	640	306
5.....	100	125	2,260	915	1,900	5,440	3,600	7,080	4,800	2,500	595	335
6.....	94	122	1,960	870	1,960	5,110	3,700	7,460	5,000	2,340	555	335
7.....	89	122	1,780	870	2,030	4,800	3,900	7,720	5,330	2,180	515	352
8.....	90	125	1,660	870	2,420	4,400	4,200	7,590	5,770	1,900	515	370
9.....	96	125	1,560	915	2,420	4,100	4,200	7,080	6,360	1,780	495	352
10.....	102	130	1,460	960	2,180	3,800	4,000	6,600	6,720	1,670	495	352
11.....	110	134	1,410	1,060	1,900	3,600	3,600	6,360	6,960	1,560	555	335
12.....	112	138	1,410	1,060	1,780	3,500	3,400	6,360	7,330	1,450	515	352
13.....	108	137	1,360	1,060	1,610	3,600	3,000	6,600	7,560	1,340	475	335
14.....	116	137	1,160	1,110	1,660	3,600	2,820	6,840	7,850	1,230	458	352
15.....	114	140	1,160	1,160	1,900	3,400	2,660	7,200	8,370	1,120	495	352
16.....	120	144	1,160	1,310	3,000	3,300	2,420	7,460	8,630	1,080	458	370
17.....	113	150	1,160	1,260	3,800	3,200	2,100	8,240	8,860	1,020	440	406
18.....	112	156	1,160	1,210	4,200	3,100	1,900	9,020	8,500	1,020	405	423
19.....	101	154	1,160	1,160	5,110	3,200	1,840	9,150	7,720	1,020	388	440
20.....	102	148	1,160	1,160	5,220	2,910	1,780	8,630	7,330	1,020	370	440
21.....	110	146	1,060	1,110	5,330	2,660	1,720	7,720	7,330	975	352	422
22.....	113	160	1,010	1,060	5,880	2,500	1,660	7,460	7,330	925	370	440
23.....	113	180	1,010	1,160	5,770	2,420	1,560	7,200	7,560	875	370	475
24.....	110	190	1,010	1,160	6,120	2,260	1,560	7,080	7,980	875	352	515
25.....	113	210	1,060	1,260	7,080	2,030	1,410	7,080	8,240	825	370	555
26.....	112	232	1,060	1,260	6,840	1,900	1,840	7,330	8,370	825	352	595
27.....	118	270	1,060	1,260	6,840	2,030	2,660	8,110	8,370	825	335	640
28.....	116	320	1,010	1,160	6,480	2,420	4,400	8,500	7,850	825	352	640
29.....	113	570	960	1,160	-----	2,580	4,800	8,370	7,200	730	352	685
30.....	112	960	915	1,110	-----	2,660	5,330	7,850	5,660	730	335	685
31.....	113	-----	915	1,060	-----	2,660	-----	7,080	-----	730	320	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	120	89	107	6,580
November.....	960	116	197	11,700
December.....	2,500	915	1,380	84,800
January.....	1,310	870	1,060	66,400
February.....	7,080	1,060	3,490	194,000
March.....	6,120	1,900	3,580	220,000
April.....	5,330	1,410	2,990	178,000
May.....	9,150	6,000	7,390	454,000
June.....	8,860	4,800	7,070	421,000
July.....	4,000	730	1,480	91,000
August.....	685	320	458	28,200
September.....	685	305	426	25,300
The year.....	9,150	89	2,460	1,780,000

SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.

LOCATION.—Water-stage recorder in El Pescadero grant at Durham Ferry highway bridge, $3\frac{1}{4}$ miles northeast of Vernalis, San Joaquin County.

RECORDS AVAILABLE.—July, 1922, to September, 1927 (low-water records only).

REMARKS.—Records good except those for December 29, 30, July 3-5, 14, 15, and September 15, which were estimated. Discharge was not ascertained for high-water period February 1 to June 23, as this station is maintained for low-water records only. Practically all water is diverted from tributaries and main river above station during irrigation season; flow at station is largely return water.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	June	July	Aug.	Sept.
1	612	1,280	2,190	2,820	-----	8,620	1,660	1,660
2	632	1,320	2,680	2,820	-----	8,960	1,720	1,600
3	718	1,320	3,030	2,750	-----	8,480	1,900	1,490
4	718	1,280	3,310	2,750	-----	8,100	1,540	1,490
5	752	1,280	3,380	3,100	-----	5,720	1,540	1,440
6	-----	900	1,320	3,380	3,240	5,340	1,490	1,440
7	1,020	1,320	3,310	3,310	-----	5,260	1,440	1,440
8	1,020	1,320	3,170	3,520	-----	4,460	1,440	1,440
9	1,050	1,320	3,030	3,590	-----	3,740	1,440	1,440
10	1,080	1,350	2,890	3,060	-----	3,390	1,390	1,440
11	1,070	1,350	2,820	3,590	-----	3,110	1,390	1,440
12	1,080	1,350	2,750	3,060	-----	2,970	1,340	1,540
13	1,080	1,380	2,680	3,730	-----	2,760	1,340	1,540
14	1,080	1,350	2,610	3,590	-----	2,590	1,390	1,490
15	1,110	1,350	2,470	3,030	-----	2,480	1,390	1,490
16	1,110	1,350	2,400	2,750	-----	2,270	1,440	1,490
17	1,140	1,320	2,400	2,820	-----	2,200	1,390	1,490
18	1,140	1,280	2,400	2,890	-----	2,200	1,340	1,600
19	1,110	1,320	2,400	2,890	-----	2,080	1,290	1,600
20	1,080	1,350	2,400	2,960	-----	2,020	1,290	1,490
21	1,110	1,320	2,330	3,170	-----	1,960	1,290	1,540
22	1,110	1,320	2,400	4,080	-----	1,960	1,290	1,540
23	1,140	1,320	2,400	4,150	-----	1,960	1,290	1,540
24	1,180	1,140	2,820	3,940	10,900	1,900	1,290	1,540
25	1,210	1,140	2,890	3,520	11,000	1,840	1,290	1,540
26	1,210	1,210	2,890	3,030	11,100	1,840	1,290	1,600
27	1,210	1,380	2,890	2,820	11,400	1,780	1,290	1,600
28	1,210	1,820	2,890	2,680	11,100	1,720	1,340	1,540
29	1,210	1,770	2,890	2,680	10,500	1,720	1,390	1,600
30	1,210	1,940	2,820	2,619	9,920	1,660	1,390	1,600
31	1,240	-----	2,820	2,540	-----	1,660	1,540	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,240	612	1,050	64,600
November	1,940	1,140	1,350	83,300
December	3,380	2,190	2,770	170,000
January	4,150	2,540	3,180	166,600
June 24-30	11,400	9,920	10,500	163,000
July	8,620	1,660	3,250	203,000
August	1,720	1,290	1,400	85,100
September	1,660	1,440	1,520	93,400

FLORENCE LAKE TUNNEL AT INTAKE, CALIF.

LOCATION.—Water-stage recorders and Venturi meter in NW. $\frac{1}{4}$ sec. 1, T. 8 S., R. 27 E., at entrance of tunnel. Altitude, about 7,250 feet.

RECORDS AVAILABLE.—April, 1925, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 1,450 second-feet July 13; no flow October 3–28.

1925–1927: Maximum mean daily discharge, 1,990 second-feet April 30, 1926; no flow at times.

REMARKS.—Records good. 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. On September 30, 1926, the storage in Florence Lake was 79 acre-feet; on September 30, 1927, it was 29,500 acre-feet. Daily-discharge record October 1 to February 28 and July 1 to September 30, gage-height record March, 1 to June 30, and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	16	28	136	51	42	149	114	251	255	0.8	482	496
2.	9	20	151	51	49	152	137	390	254	.9	403	497
3.	0	17	146	50	53	127	134	326	253	1.0	340	496
4.	0	15	117	65	58	113	244	422	254	1.0	330	498
5.	0	14	108	62	57	102	233	532	205	1.0	342	399
6.	0	14	107	62	87	106	216	470	.3	1.0	343	371
7.	0	14	108	52	65	130	211	400	.3	1.1	347	450
8.	0	8	80	69	66	131	185	336	.3	1.2	348	451
9.	0	.1	90	65	64	118	151	302	.3	1.3	404	450
10.	0	9	73	65	57	116	89	348	.3	1.14	491	450
11.	0	.2	100	67	56	108	132	397	.3	1,240	491	449
12.	0	.2	89	59	64	122	128	512	.3	1,440	492	449
13.	0	.3	46	66	52	147	117	493	.3	1,450	495	463
14.	0	.2	43	65	64	152	124	283	.3	1,250	495	474
15.	0	.2	71	61	52	100	170	278	.3	527	497	474
16.	0	.2	70	60	55	73	94	577	146	548	496	472
17.	0	.2	61	49	72	114	118	426	248	361	495	350
18.	0	.2	68	45	71	103	142	448	207	548	499	1.5
19.	0	.2	44	58	96	99	190	516	.5	595	376	1.5
20.	0	.2	64	56	201	97	230	470	.5	596	269	1.4
21.	0	.2	68	58	93	120	240	423	.5	592	544	1.4
22.	0	.2	53	60	1.2	165	270	349	.6	638	544	1.4
23.	0	.2	52	51	246	213	251	364	.7	907	545	1.5
24.	0	203	47	54	489	240	251	439	.7	782	548	131
25.	0	95	56	60	320	194	356	520	.7	686	545	604
26.	0	220	66	56	234	47	308	536	.8	657	529	606
27.	0	140	41	51	196	20	427	254	.8	660	500	604
28.	0	170	51	51	174	106	359	.4	.9	592	602	603
29.	70	237	56	44	-----	129	356	.4	.9	535	499	603
30.	108	172	47	43	-----	154	377	.3	.9	463	499	604
31.	50	-----	56	58	-----	153	-----	147	-----	372	498	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	108	0	8.16	502
November	237	.1	46.0	2,740
December	151	41	76.3	4,690
January	69	43	56.9	3,500
February	489	1.2	112	6,220
March	240	20	126	7,750
April	427	89	212	12,600
May	577	.3	362	22,300
June	255	.3	61.1	3,640
July	1,450	.8	502	30,900
August	548	269	458	28,200
September	606	1.4	382	22,700
The year	1,450	0	201	146,000

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.

RECORDS AVAILABLE.—November, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 821 second-feet June 16 (gage height, 5.91 feet); minimum, 3.5 second-feet October 1 and 9-11.

1921-1927: Maximum discharge, 857 second-feet June 4, 1922 (gage height, 5.97 feet); minimum, 1.2 second-feet September 29 to October 5, 1924.

REMARKS.—Records good except those for December 7-12 and February 25, which were estimated because of ice. Observations discontinued during winter. No diversions. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.5	6	43			37	42	223	202	347	104	23
2	4.0	6	42			36	54	242	226	385	97	22
3	4.6	5.5	37			33	64	290	234	360	94	23
4	4.6	5.5	35			31	57	320	301	329	91	30
5	4.0	5	35			29	57	342	370	309	90	27
6	4.0	5.5	33			31	57	265	476	297	87	24
7	3.8	5.5	33			34	57	181	553	286	83	25
8	3.8	5.5	32		25	36	52	142	492	309	78	21
9	3.5	5	30			34	48	130	455	338	73	20
10	3.5	5	29			33	42	144	455	380	67	19
11	3.5	5	28			30	35	176	498	385	62	18
12	3.8	5.5	30			31	33	248	570	365	56	17
13	4.0	6.5				38	34	385	678	360	52	17
14	4.0	11				36	33	420	660	316	50	16
15	4.0	12				34	35	455	654	268	48	16
16	4.0	11				33	33	570	690	228	45	20
17	4.3	10				31	33	575	702	226	46	28
18	4.3	8.5		23		30	37	465	684	228	50	23
19	4.3	9.5				31	50	410	630	215	49	23
20	6	9.5				31	63	342	597	215	48	23
21	11	10				34	85	220	602	217	45	22
22	10	14				49	110	170	592	248	42	21
23	9.5	16				64	130	159	531	242	40	20
24	8.5	24			50	76	170	204	526	207	35	20
25	8	18			55	73	204	320	542	179	32	18
26	8	42			51	74	217	338	614	176	30	18
27	8	35			43	66	202	290	420	163	29	17
28	8	71			38	54	212	226	297	148	28	16
29	7.5	67				48	240	183	223	134	26	16
30	6.5	54				44	237	176	251	127	25	15
31	6					42		185		112	23	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	11	3.5	5.56	342
November	71	5	16.5	982
December			* 25	1,540
January			* 23	1,410
February			* 35	1,940
March	76	29	41.4	2,550
April	240	33	90.8	5,400
May	575	130	284	17,500
June	702	202	491	29,200
July	385	112	261	16,000
August	104	23	55.6	3,420
September	30	15	20.5	1,220
The year	702	3.5	113	81,500

* Estimated.

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.

RECORDS AVAILABLE.—November, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,420 second-feet June 16 (gage height, 8.09 feet); minimum, 11 second-feet October 9.

1921-1927: Maximum discharge, that of June 16, 1927; maximum gage height, 8.18 feet June 6, 1922; minimum discharge, 8 second-feet September 29 to October 4, 1924.

REMARKS.—Records excellent except those for March 1, 2, 5-7, and 15, which were estimated. Observations discontinued during winter. No diversions. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	13	15	81			58	90	460	470	565	189	47
2.	15	14	67			58	110	465	474	585	181	44
3.	15	14	56			59	124	520	483	575	175	45
4.	13	13				54	124	570	565	540	172	57
5.	13	14				50	119	620	645	510	167	48
6.	12	13				52	114	550	748	510	181	43
7.	12	13				54	112	442	875	483	164	41
8.	12	13				62	105	376	820	488	154	41
9.	12	13			38	59	92	348	792	496	138	38
10.	13	13				79	90	360	792	535	128	37
11.	12	16				68	88	408	848	540	121	36
12.	12	15	40			54	71	492	930	535	112	34
13.	12	15				60	71	645	1,056	520	105	34
14.	12	23				65	75	726	1,080	470	101	32
15.	12	25				64	84	765	1,110	412	96	32
16.	12	23				63	81	960	1,170	380	94	38
17.	12	24				50	77	1,020	1,170	380	96	53
18.	12	22				44	92	875	1,110	372	99	43
19.	12	23				40	110	760	1,020	360	92	41
20.	17	23		31		41	128	660	960	352	90	37
21.	23	23				43	156	520	960	356	88	35
22.	23	30				67	195	458	960	364	84	34
23.	20	34				92	242	416	902	356	77	33
24.	19	34				110	292	460	875	828	70	32
25.	18	35				116	352	580	875	804	63	32
26.	18	32				124	400	620	960	304	62	32
27.	17	67				124	416	570	726	300	59	30
28.	17	121				114	420	496	555	268	56	30
29.	16	126				110	465	442	470	242	58	28
30.	15	106				107	488	420	498	224	52	26
31.	15					96		447		205	49	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	28	12	14.9	916
November.....	126	13	32.0	1,900
December.....			• 25	2,150
January.....			• 3.0	1,840
February.....			• 50	2,780
March.....	124	40	72.2	2,440
April.....	483	71	179	10,700
May.....	1,020	348	562	34,600
June.....	1,170	470	820	49,800
July.....	685	205	415	25,000
August.....	189	49	109	8,700
September.....	57	28	37.8	2,250
The year.....	1,170	12	198	143,000

• Estimated.

MIDDLE FORK OF SAN JOAQUIN RIVER AT MILLER BRIDGE, CALIF.

LOCATION.—Water-stage recorder in sec. 11, T. 5 S., R. 25 E., one-fourth mile above site of the old Miller Bridge and 2 miles below mouth of North Fork of San Joaquin River. Altitude, about 4,600 feet.

RECORDS AVAILABLE.—October, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,160 second-feet May 16 (gage height, 17.10 feet); minimum, 35 second-feet November 5.

1921-1927: Maximum discharge, 6,200 second-feet June 4, 1922 (gage height, 17.68 feet); minimum, 27 second-feet December 3, 1921.

REMARKS.—Records excellent. No diversions. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	42	40	305	138	148	375	388	1,900	1,640	1,770	462	150
2.....	46	39	315	143	175	360	505	1,900	1,560	1,780	438	147
3.....	46	38	350	147	190	315	1,050	2,140	1,940	1,650	438	155
4.....	42	38	295	157	176	285	610	2,420	2,420	1,500	425	218
5.....	40	38	266	172	203	276	552	2,780	2,900	1,410	388	189
6.....	40	38	257	176	210	276	505	2,240	2,340	1,360	412	182
7.....	39	38	227	166	205	305	490	1,500	3,540	1,310	400	153
8.....	38	38	213	178	200	362	462	1,200	3,100	1,340	388	141
9.....	38	37	198	184	192	325	412	1,190	2,940	1,270	362	183
10.....	40	37	197	190	178	296	388	1,400	2,960	1,500	325	127
11.....	44	49	198	180	175	276	350	1,690	3,090	1,490	815	120
12.....	42	71	194	174	172	295	325	2,190	3,560	1,440	296	115
13.....	41	58	158	175	163	338	325	3,090	3,920	1,370	276	112
14.....	40	61	147	175	169	388	350	3,100	3,780	1,280	296	108
15.....	39	70	162	175	187	315	412	3,260	3,660	1,080	257	108
16.....	38	77	158	170	265	285	375	3,850	3,820	995	257	118
17.....	38	72	156	154	276	276	350	3,740	3,660	955	266	139
18.....	38	67	157	151	813	266	436	3,090	3,350	960	266	123
19.....	38	83	151	158	462	248	570	2,600	3,040	900	257	121
20.....	44	89	148	164	425	257	675	2,060	2,900	875	266	121
21.....	71	88	146	170	552	285	865	1,510	3,010	875	257	123
22.....	65	133	148	153	438	388	1,110	1,280	2,910	825	246	120
23.....	56	227	144	153	410	505	1,390	1,400	2,700	860	229	112
24.....	50	902	140	162	610	590	1,640	1,860	2,580	825	216	106
25.....	48	276	156	154	520	650	1,950	2,400	2,470	780	197	102
26.....	46	665	148	153	505	675	2,100	2,480	2,560	675	186	97
27.....	45	416	148	151	475	610	1,930	2,090	2,020	650	182	94
28.....	44	338	147	153	400	505	1,890	1,620	1,500	630	176	92
29.....	42	438	140	151	-----	450	2,100	1,440	1,280	570	168	90
30.....	39	362	136	140	-----	438	2,080	1,480	1,470	552	160	88
31.....	40	-----	138	147	-----	388	-----	1,680	-----	505	153	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	71	38	43.8	2,690
November.....	902	37	166	9,880
December.....	350	136	188	11,600
January.....	190	133	162	9,960
February.....	813	148	313	17,700
March.....	675	248	374	23,000
April.....	2,100	325	886	52,700
May.....	3,850	1,190	2,150	132,000
June.....	3,920	1,280	2,790	166,000
July.....	1,780	505	1,100	67,800
August.....	462	153	288	17,700
September.....	218	88	127	7,560
The year.....	3,920	37	716	518,000

NORTH FORK OF SAN JOAQUIN RIVER BELOW IRON CREEK, CALIF.

LOCATION.—Water-stage recorder in sec. 4, T. 4 S., R. 25 E., unsurveyed, three-fourths mile below mouth of Iron Creek. Altitude, about 6,800 feet.

RECORDS AVAILABLE.—October, 1920, to September, 1927. Record fragmentary prior to June, 1921.

EXTREMES.—Maximum discharge during year, 1,180 second-feet June 12 (gage height, 6.80 feet); minimum, 3.4 second-feet November 8–10.

1920–1927: Maximum discharge, 2,000 second-feet June 27, 1922 (gage height, 7.24 feet); minimum, 1.4 second-feet November 18, 1921.

REMARKS.—Records excellent except those for December 23–25, February 3–9, 15, and 16, which were estimated because of ice. No diversions. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.3	4.3	55	23	22	39	51	340	234	446	116	30
2	5.5	4.1	61	25	22	38	58	338	255	410	113	30
3	6	4.0	51	28	20	34	53	386	379	372	114	42
4	4.5	4.0	47	33	30	30	50	466	502	356	104	52
5	4.1	3.8	47	34	30	28	55	516	611	340	95	41
6	4.0	3.6	46	33	28	30	56	364	704	320	108	34
7	4.0	3.6	36	29	26	40	60	210	671	322	102	29
8	4.0	3.4	35	28	24	44	55	174	516	332	98	25
9	3.6	3.4	34	26	22	36	46	198	544	363	90	21
10	4.1	3.4	35	29	24	33	41	254	578	422	84	18
11	6	4.1	38	28	23	31	38	314	600	385	79	16
12	6	6	36	26	22	38	36	442	771	398	71	16
13	5.5	12	30	26	21	50	37	650	841	357	62	14
14	4.8	14	28	28	25	43	50	613	739	309	61	13
15	4.3	18	27	28	35	35	61	616	756	262	61	12
16	4.1	21	26	25	70	32	48	763	770	248	63	20
17	4.1	20	26	23	65	31	49	678	728	252	69	21
18	4.0	17	26	24	58	31	78	528	668	246	62	21
19	3.8	30	25	23	43	31	113	410	612	240	61	23
20	7	30	24	24	33	33	134	272	586	233	69	26
21	18	29	24	24	33	44	172	186	661	220	67	25
22	15	65	24	23	33	73	223	176	604	208	60	22
23	13	54	23	23	31	97	278	231	542	234	54	19
24	10	92	22	23	44	113	344	356	512	224	49	23
25	9	64	21	23	51	116	410	501	488	192	41	15
26	8	70	21	21	51	116	433	444	475	166	38	14
27	7	104	20	21	46	97	368	319	342	190	38	14
28	6.5	64	20	21	39	72	336	214	230	167	37	13
29	6	69	20	21	-----	61	394	197	224	148	33	12
30	5	59	21	21	-----	58	394	200	340	140	31	12
31	4.8	-----	23	21	-----	51	-----	231	-----	125	29	-----
Month							Maximum	Minimum	Mean	Run-off in acre-feet		
October							18	3.6	6.32	389		
November							104	3.4	29.3	1,740		
December							61	20	31.4	1,980		
January							34	21	25.3	1,560		
February							70	20	34.7	1,980		
March							116	28	51.8	3,190		
April							433	36	151	8,980		
May							763	174	373	22,900		
June							941	224	549	32,700		
July							446	125	278	17,100		
August							116	29	69.6	4,280		
September							52	12	22.4	1,330		
The year							841	3.4	135	98,000		

GRANITE CREEK NEAR CATTLE MOUNTAIN, CALIF.

LOCATION.—Water-stage recorder in sec. 8, T. 5 S., R. 25 E., $1\frac{1}{2}$ miles below junction of East Fork and West Fork of Granite Creek, and 2 miles west of Cattle Mountain. Altitude, about 6,700 feet.

RECORDS AVAILABLE.—December, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,560 second-feet May 16 (gauge height, 8.50 feet); minimum, less than 0.05 second-foot October 1 and 6-8. 1921-1927: Maximum discharge, 2,210 second-feet June 27, 1922 (gauge height, 8.83 feet); stream practically dry July 24 to October 5, 1924.

REMARKS.—Records excellent. Observations discontinued during winter. No diversions. Gauge-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	0	0.2	54				76	558	413	263	13	0.4
2.	.1	.2	54				84	594	406	228	12	.4
3.	.1	.2	46				110	652	622	193	10	.5
4.	.1	.2	38	29			100	734	730	169	9	1.1
5.	.1	.2	38				93	784	804	158	8	1.2
6.	0	.2	38				90	570	894	144	6.5	.9
7.	0	.2			30		90	347	806	129	6.5	.7
8.	0	.2					86	285	640	128	6	.7
9.	.1	.2					75	345	666	131	5.5	.6
10.	.1	.2					68	460	696	147	4.8	.7
11.	.1	.3					58	558	704	134	4.0	.7
12.	.1	.7			23	48	55	724	800	118	3.5	.6
13.	.1	1.2				64	56	976	886	107	3.2	.5
14.	.1	1.0		29		59	69	930	751	87	2.9	.5
15.	.1	1.0					90	1,010	722	74	2.6	.5
16.	.1	1.2	32				74	1,110	710	63	2.2	.5
17.	.1	1.7					69	964	638	58	2.2	.6
18.	.1	1.6					102	766	572	55	2.9	.6
19.	.1	2.6			30		154	632	522	50	3.6	.5
20.	.2	4.0					194	456	504	46	3.6	.4
21.	.4	4.0					253	298	550	43	2.9	.3
22.	.6	21				105	322	272	470	41	2.3	.2
23.	.4	24				141	410	388	406	40	1.9	.2
24.	.4	77				170	514	592	388	38	1.6	.2
25.	.3	31				176	602	761	342	31	1.2	.2
26.	.2	20				182	638	614	324	29	1.1	.2
27.	.2	18				156	560	456	236	31	.9	.2
28.	.2	30				118	561	334	182	26	.7	.2
29.	.2	50				100	628	339	160	21	.7	.2
30.	.2	61				93	591	386	220	18	.6	.2
31.	.2					81		449		15	.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.6	(*)	0.16	9.8
November	77	0.2	11.8	702
December	54		33	2,030
January			27	1,660
February			40	2,220
March	182		80	4,920
April	638	55	229	13,600
May	1,110	272	592	36,400
June	894	160	559	33,300
July	263	15	90.8	5,580
August	13	.5	4.08	251
September	1.2	.2	.49	29.2
The year	1,110	(*)	139	101,000

* Less than 0.05.

° Estimated.

JACKASS CREEK NEAR JACKASS MEADOW, CALIF.

LOCATION.—Water-stage recorder in sec. 23, T. 5 S., R. 24 E., half a mile below lower end of Jackass Meadow and 10 miles above mouth of West Fork. Altitude, about 7,000 feet.

RECORDS AVAILABLE.—December, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 277 second-feet May 13 (gage height, 8.95 feet); no flow October, parts of November, and September.

1921-1927: Maximum discharge, 418 second-feet May 24, 1922 (gage height, 9.58 feet); stream dry during a portion of the summer in 1924, 1926, and 1927.

REMARKS.—Records excellent except those for December 3-11 and July 7-10, which were estimated. Observations discontinued during winter. No diversions. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	16				26	151	63	18	0.3	0
2	0	18				33	157	64	16	.2	0
3	0	15				62	168	78	13	.2	0
4	0	13			24	66	180	83	12	.2	.1
5	0	11				56	190	88	10	.2	.0
6	0	10	4.6	3.4		51	147	93	9	.1	0
7	0	9				51	108	95	9	.1	0
8	0	8				45	90	88	8.5	.1	0
9	0	7				40	98	80	8	.1	0
10	0	6.5				42	120	78	7.5	.1	0
11	0	6.5			24	34	135	76	7	.1	0
12	0				24	34	157	79	6	.1	0
13	0				28	31	190	79	5	.1	0
14	0	4.4			30	34	180	73	4.9	.1	0
15	0				28	37	185	66	4.3	.1	0
16	.1					31	196	62	3.8	.1	0
17	.1					38	174	56	3.3	.1	0
18	.1					46	161	50	3.0	.1	0
19	.1					60	129	46	2.6	.1	0
20	.1			5	24	70	106	44	2.2	.1	0
21	.1				30	87	81	44	1.9	0	0
22	.8				42	105	73	39	1.8	0	0
23	2.8		6		57	126	83	34	1.7	0	0
24	72				66	149	100	32	1.4	0	0
25	22					163	113	30	1.2	0	0
26	17					174	102	28	1.0	0	0
27	24				57	157	85	23	1.4	0	0
28	22				48	158	73	26	1.0	0	0
29	18				45	163	67	20	.8	0	0
30	21	3.6			41	158	68	18	.6	0	0
31					30		66		.4	0	
Month	Maximum					Minimum		Mean		Run-off in acre-feet	
November	72					0		6.37		397	
December	18							6.5		400	
January								5.0		307	
February								7.5		417	
March						66		85		2,150	
April						174		26		77.7	
May						196		66		126	
June						95		18		57.8	
July						18		.4		5.36	
August						.3		0		.08	
September						.1		0		.01	
The year	196					0		27.4		19,800	

• Estimated.

NOTE.—No flow in October.

CHQUITO CREEK NEAR ARNOLD MEADOW, CALIF.

LOCATION.—Water-stage recorder in sec. 18, T. 6 S., R. 24 E., half a mile below Beasore Creek and half a mile southwest of Arnold Meadow. Altitude, about 4,800 feet.

RECORDS AVAILABLE.—September, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 825 second-feet May 16 (gage height, 7.70 feet); minimum, 3.1 second-feet October 1.

1921-1927: Maximum discharge, 1,100 second-feet May 24, 1922 (gage height, 8.63 feet); minimum, 1.4 second-feet August 27-31, 1924.

REMARKS.—Records excellent. No diversions. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.7	4.3	67	29	33	162	176	496	232	76	15	6.5
2	5	4.3	64	30	38	153	235	508	217	70	15	6.5
3	5	4.3	67	31	37	138	448	562	235	86	16	7
4	4.6	4.3	60	33	35	128	356	606	258	82	14	7.5
5	4.3	4.3	54	36	42	117	294	630	274	60	14	8
6	3.7	4.3	52	33	41	120	264	532	291	55	13	7.5
7	3.7	4.3	48	38	40	134	255	416	298	51	12	7.5
8	3.4	4.3	42	38	37	149	237	368	277	49	12	7.5
9	3.4	4.3	38	38	38	130	219	364	258	49	11	7.5
10	3.7	4.3	37	40	37	117	196	384	246	43	11	7.5
11	4.9	5.5	40	38	37	111	183	416	249	44	11	8
12	4.9	12	40	35	36	120	174	494	249	43	11	7.5
13	4.3	11	32	35	36	134	166	585	255	42	10	7.5
14	4.0	9	32	35	33	144	171	685	246	37	11	7.5
15	3.7	8	34	36	35	126	178	585	227	36	10	8
16	3.7	8.5	32	37	56	118	169	630	214	33	10	8
17	3.7	9	33	34	57	117	162	535	206	31	9.5	8.5
18	3.7	8.5	33	34	229	117	193	496	188	30	11	8
19	3.7	9	30	35	169	113	230	432	171	28	10	7.5
20	4.3	12	30	34	146	115	258	376	160	27	9.5	7
21	6.5	10	31	35	204	124	302	298	155	26	9	6.5
22	6.5	27	33	32	183	169	360	255	142	24	8	6
23	5	37	32	33	164	214	416	267	126	23	8	6
24	4.9	488	30	33	240	237	480	305	117	22	8	6
25	4.6	84	29	33	232	246	532	344	108	21	7.5	6
26	4.6	232	29	32	227	246	536	319	102	20	7	6
27	4.6	174	29	33	206	230	504	284	93	21	7	6
28	4.4	88	29	33	178	206	496	258	86	19	7	6
29	4.3	115	28	32	-----	206	524	235	83	18	7	6
30	4.3	90	28	32	-----	186	528	227	78	17	7	6
31	4.3	-----	29	32	-----	171	-----	227	-----	16	6.5	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	6.5	3.4	4.36	268
November	488	4.3	49.4	2,940
December	67	28	35.5	2,370
January	40	29	34.2	2,100
February	240	33	102	5,660
March	246	111	155	9,530
April	536	162	303	18,300
May	630	227	421	26,900
June	298	78	195	11,600
July	76	16	37.5	2,310
August	15	6.5	10.2	627
September	8.5	6	7.07	421
The year	630	3.4	113	82,000

BIG CREEK BELOW HUNTINGTON LAKE, CALIF.

LOCATION.—Water-stage recorder in sec. 23, T. 8 S., R. 25 E., one-fourth mile above Grouse Creek and 1 mile below Huntington Lake. Altitude, about 6,600 feet.

RECORDS AVAILABLE.—June, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 338 second-feet July 24 (gage height, 5.97 feet).

1925-1927: Maximum discharge, 2,040 second-feet June 23, 1925 (gage height, 10.3 feet).

REMARKS.—Natural flow of Big Creek is completely regulated at Huntington Lake storage reservoir. Purpose of this record is to show spill from lake. Record of daily discharge furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	June	July	Aug.	Day	June	July	Aug.	Day	June	July	Aug.
1.....	0	0	44	11.....	122	0	0	21.....	14	45	0
2.....	0	0	21	12.....	0	0	0	22.....	3	57	0
3.....	0	0	0	13.....	0	0	0	23.....	0	165	0
4.....	0	0	0	14.....	0	0	0	24.....	0	290	0
5.....	0	0	0	15.....	0	13	0	25.....	0	203	0
6.....	0	0	0	16.....	27	26	0	26.....	0	115	0
7.....	136	0	0	17.....	156	34	0	27.....	0	105	0
8.....	227	0	0	18.....	172	37	0	28.....	0	68	0
9.....	225	0	0	19.....	201	41	0	29.....	0	48	0
10.....	225	0	0	20.....	132	48	0	30.....	0	30	0
								31.....		51	0
Month					Maximum		Minimum		Mean		Run-off in acre-feet
June 7-30					227		0		68.3		3,250
July.....					290		0		44.4		2,730
August 1-2.....					44		21		32.5		129
The year.....											6,110

Daily and monthly discharge, in second-feet, of Big Creek near mouth, near Big Creek, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.2	0.1	0.2	0.2	0.3	343	88	134	276	74	120	0.2
2.....	.2	.1	.2	.2	.4	74	201	348	244	32	84	.3
3.....	.2	.1	.2	.2	10	72	236	376	262	.5	1.0	.3
4.....	.1	.1	.2	.2	18	30	155	424	286	.4	1.2	.5
5.....	.1	.1	.2	.2	2.6	26	134	439	172	62	.5	.2
6.....	.1	.1	2.1	.8	2.3	288	176	342	268	76	.5	.2
7.....	.1	.1	.7	.5	1.6	892	192	228	626	.8	.3	.2
8.....	.1	.1	.4	.4	1.2	585	148	188	736	.8	.2	.2
9.....	.2	.1	.3	.4	1.0	584	46	284	730	.8	.2	.3
10.....	.2	.1	.2	2.7	.9	570	63	213	680	.7	.2	.2
11.....	.2	.2	.2	1.1	.8	460	102	256	564	.2	.8	.4
12.....	.2	.3	.2	.6	.8	26	122	324	90	.2	.3	.5
13.....	.2	.2	.2	.5	1.0	262	269	434	199	.2	.4	.3
14.....	.2	.2	.2	.4	8.5	157	166	458	257	.2	.4	.2
15.....	.1	.2	.2	.4	10	90	226	310	210	84	.3	.2
16.....	.1	.2	.2	.4	10	41	90	506	221	80	.5	.3
17.....	.1	.2	.2	.4	4.0	56	164	498	426	1.5	.2	.2
18.....	.1	.1	.2	.3	123	36	102	465	402	193	.2	.3
19.....	.1	.1	.2	.4	142	16	211	471	69	161	.2	.2
20.....	.1	.1	.2	1.6	348	49	229	410	305	166	.2	.2
21.....	.1	.1	.4	.9	238	27	257	314	105	174	.4	.2
22.....	.1	.4	.3	.6	242	70	370	126	92	172	.2	.2
23.....	.1	.3	.2	.5	266	28	308	353	86	312	.2	.2
24.....	.1	2.1	.2	.4	296	30	506	359	92	468	.3	.3
25.....	.1	.3	.2	.4	270	62	574	402	35	413	.3	.4
26.....	.1	92	.2	.5	254	102	396	384	.6	321	.3	.2
27.....	.1	80	.2	.5	268	6	342	352	70	266	.2	.3
28.....	.1	.8	.2	.4	223	130	368	316	70	208	.2	.3
29.....	.1	.4	.2	.4	-----	188	389	214	66	128	.2	.3
30.....	.1	.2	.2	.4	-----	157	264	198	79	84	.4	.3
31.....	.1	-----	.2	.3	-----	200	-----	269	-----	.7	.2	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	0.2	0.1	0.13	8.0
November.....	92	.1	5.98	356
December.....	2.1	.2	.30	18.4
January.....	2.7	.2	.55	33.5
February.....	348	.3	98.0	5,440
March.....	585	6	166	10,200
April.....	574	46	230	13,700
May.....	506	126	335	20,600
June.....	736	.6	257	15,300
July.....	468	.2	112	6,890
August.....	120	.2	6.92	425
September.....	.5	.2	.27	16.1
The year.....	736	.1	101	73,000

PITMAN CREEK AT BIG CREEK, CALIF.

LOCATION.—Water-stage recorder in sec. 28, T. 8 S., R. 25 E., one-fourth mile above mouth and half a mile southeast of Big Creek post office. Altitude, about 5,000 feet.

DRAINAGE AREA.—27 square miles.

RECORDS AVAILABLE.—January, 1910, to September, 1915; January, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 711 second-feet May 16 (gage height, 2.55 feet); minimum, 0.3 second-foot on various days in October, November, August, and September.

1922-1927: Maximum discharge, 1,110 second-feet June 1, 1922 (gage height, 3.53 feet); minimum, 0.1 second-foot August 15, 16, and September 17-30, 1926.

REMARKS.—Records excellent except those for December 13-19, 21-28, January 23-26, February 7-11, March 15, 19, 20, April 9-13, and 17, which were estimated because of ice. About 0.5 second-foot is diverted above gage for cooling at power house No. 1 and for town of Big Creek. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.3	0.3	22	6	5	48	52	314	201	35	2.2	0.3
2.....	.6	.3	20	6	6	47	62	338	183	30	1.6	.3
3.....	.6	.3	19	7	7.5	42	108	373	195	27	1.6	.3
4.....	.6	.3	18	7	7	40	100	398	226	26	1.6	.3
5.....	.3	.3	17	9.5	7.5	37	87	408	232	23	1.6	.3
6.....	.3	.3	15	10	8.5	37	84	320	239	22	1.6	.3
7.....	.3	.3	13	12	8.5	40	82	232	236	19	1.6	.3
8.....	.3	.3	11	10	8.5	42	77	192	213	19	1.6	.3
9.....	.3	.3	11	9.5	9	40	66	180	183	18	1.6	.3
10.....	.3	.3	11	9.5	9	40	60	207	169	17	1.1	.3
11.....	.3	1.1	11	8.5	9.5	38	60	266	177	15	1.1	.3
12.....	.3	1.1	10	9.5	10	35	54	345	183	13	1.1	.6
13.....	.3	.6	10	8.5	10	37	54	422	186	12	1.1	.6
14.....	.3	.3	10	8.5	11	41	52	398	169	10	1.1	.6
15.....	.3	.3	10	8.5	10	41	52	422	152	10	1.1	.6
16.....	.3	.3	10	8.5	26	40	51	469	140	8.5	1.1	.6
17.....	.3	.3	16	10	14	33	51	429	126	7.5	1.1	.6
18.....	.3	.3	11	12	48	33	56	356	113	7	1.1	.6
19.....	.3	.3	9	14	35	33	67	328	100	7	1.1	.6
20.....	.6	.3	8.5	12	54	33	82	276	91	7	1.1	.3
21.....	.6	.3	8	10	47	33	108	213	85	6	1.1	.3
22.....	1.1	.6	7.5	9.5	41	41	140	189	77	5	.6	.3
23.....	1.1	5.5	7	9	42	54	177	207	68	5	.6	.3
24.....	1.1	83	7.5	8.5	49	67	226	259	62	4.2	.6	.3
25.....	1.1	24	7.5	8	66	73	276	293	58	4.2	.3	.3
26.....	.6	60	7.5	7.5	64	78	293	279	55	4.2	.3	.3
27.....	.6	50	7	7.5	58	75	286	256	51	3.4	.3	.3
28.....	.6	30	7	7	54	67	310	220	47	3.4	.3	.3
29.....	.6	33	7	7	-----	66	324	198	44	2.8	.3	.3
30.....	.6	30	7	6	-----	58	324	198	38	2.2	.3	.3
31.....	.6	-----	6	6	-----	52	-----	207	-----	2.2	.3	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	1.1	0.3	0.51	31.4
November.....	83	.3	10.8	643
December.....	22	6	11.0	676
January.....	14	6	8.79	540
February.....	66	5	25.9	1,440
March.....	78	33	46.5	2,880
April.....	324	51	127	7,500
May.....	469	180	297	18,300
June.....	239	38	137	8,150
July.....	36	2.2	12.1	744
August.....	2.2	.3	1.04	64.0
September.....	.6	.3	.38	22.6
The year.....	469	.3	56.6	41,000

STEVENSON CREEK AT SHAVER, CALIF.

LOCATION.—Water-stage recorder in sec. 13, T. 9 S., R. 24 E., three-quarters of a mile west of Shaver. Recorder moved 100 feet downstream September 5, 1927. Altitude, about 5,000 feet.

DRAINAGE AREA.—30.2 square miles.

RECORDS AVAILABLE.—October, 1916, to September, 1920, and April, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,390 second-feet November 27 (gage height, 3.65 feet); no flow January 27 to February 1.

1916-1920, 1922-1927: Maximum discharge, that of November 27, 1926; practically no flow June 11-15, June 20 to about October 14, 1924, and January 27 to February 1, 1927.

REMARKS.—Records good except those for February 11-21, June 28 to July 20, and September 5-22, which were estimated. Discharge based on one daily staff gage reading December 16 to February 10. Most of the flow is stored in Shaver Lake above station and used at power houses 2 and 8, then spills into Big Creek at mouth. There was 1,760 acre-feet of water in Shaver Lake on September 30, 1926, and 3,450 acre-feet on September 30, 1927. Gage-height record and results of discharge measurements furnished by Southern California Edison Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	2.1	2.2	79	4.6	0	171	1.6	0.7	0.5			16
2	2.1	2.1	71	4.6	.2	1.2	1.7	.7	.5		14	16
3	2.0	2.1	68	4.8	.3	75	1.7	.7	.4		12	16
4	2.1	2.2	64	5	.5	59	1.3	.7	.3		12	16
5	2.1	1.8	54	4.6	.3	10	1.2	.8	.3		12	16
6												
7	2.0	2.2	24	5.5	.3	.8	1.1	.8	.3		12	16
8	2.1	2.4	79	5.5	.3	19	1.1	.8	.4		12	16
9	2.1	2.4	64	6	.3	23	1.1	.8	.3		12	16
10	2.1	2.4	48	.3	.3	19	1.1	.8	.3		12	16
11	2.2	2.1	38	.8	.3	1.1	1.0	.8	.3	0.2	12	16
12												
13	2.4	2.1	30	.3	.3	.9	1.0	.8	.3		10	16
14	2.4	2.5	22	.3	.3	.8	1.0	.7	.3		11	16
15	2.1	2.5	22	.3	.3	43	1.0	.7	.3		15	16
16	1.8	2.5	22	.2	.5	1.3	1.1	.7	.2		88	16
17	1.8	2.7	22	.2	2	.9	1.1	.7	.2		4.0	16
18												
19	1.8	2.7	22	.2	1.5	.8	1.2	.6	.2		.2	16
20	2.0	2.5	22	.2	1.0	.8	1.1	.5	.2		11	16
21	1.8	2.5	22	.2	38	.8	1.1	.5	.2		12	16
22	1.8	2.7	21	.2	2	13	1.1	.5	.2		11	11
23	1.7	2.7	22	.2	15	4.3	1.0	.6	.2		7	11
24												
25	2.4	2.4	21	.2	75	.8	.9	.6	.2	.2	7	11
26	2.4	2.0	21	.2	119	.8	.8	.5	.2	.2	8	
27	2.1	2.2	21	.2	119	.8	.8	.5	.2	.2	11	.2
28	1.8	6.5	21	.2	144	.9	.7	.5	.2	.2	16	.2
29	2.0	10	21	.2	144	.9	.8	.5	.2	.2	16	.2
30												
31	2.2	202	9	.2	86	.9	47	.4	.2	.2	16	.2
32	2.2	854	7.5	0	168	.9	98	.5	.2	.2	16	.2
33	1.8	114	7.5	0	222	.9	105	.5	.2	.2	16	.2
34	2.0	96	86	0		1.0	192	.5	.2	.2	16	.2
35	2.1	28	38	0		1.0	44	.5	.2	.2	16	.2
36	2.2		20	0		1.0		.5		12	16	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.4	1.7	2.05	126
November	854	1.8	45.5	2,710
December	79	7.5	33.5	2,060
January	6	0	1.46	86.8
February	222	0	40.7	2,260
March	171	.8	14.7	904
April	105	.7	14.1	839
May	.8	.4	.68	85.7
June	.5	.2	.26	15.5
July	12	.2	.58	85.7
August	38	.2	12.7	781
September	16	.2	10.9	649
The year	854	0	14.5	10,500

FRESNO RIVER BASIN

FRESNO RIVER NEAR KNOWLES, CALIF.

LOCATION.—Staff gage in N. ½ sec. 15, T. 8 S., R. 20 E., at Fresno Crossing, 6 miles northeast of Knowles.

RECORDS AVAILABLE.—September, 1911, to January, 1914, and November, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,600 second-feet February 4 and 15 (gage height, 4.0 feet); minimum, 0.1 second-foot October 1-3.

1911-1914, 1915-1927: Maximum discharge, about 4,500 second-feet February 21, 1917 (gage height, 6.0 feet); no flow part of August and September, 1919, July to October, 1924, and August 5 to September 30, 1926.

REMARKS.—Records fair. Water is diverted above station for irrigation and lumbering.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	1.0	111	23	53	187	255	144	111	43	7.5	2.9
2	.1	1.0	111	23	57	179	790	144	118	39	7	2.5
3	.1	.8	77	21	77	179	570	144	118	36	7	2.5
4	.1	.8	77	21	1,600	172	475	151	118	36	7	2.5
5	.1	.7	72	21	430	158	255	151	118	33	6	2.9
6	.2	.7	67	25	295	151	240	144	118	33	6	2.9
7	.2	.8	67	82	111	151	232	144	111	31	5.5	2.9
8	.2	.8	62	57	111	158	217	144	111	31	5.5	2.9
9	.2	.8	39	39	105	209	309	144	111	31	5.5	2.5
10	.4	1.0	57	25	105	202	194	144	111	31	4.5	2.5
11	.4	1.0	57	53	99	202	194	137	111	28	4.5	2.5
12	.5	1.3	57	82	99	194	202	137	105	28	4.5	2.5
13	.5	15	62	67	105	172	202	137	105	28	4.5	2.9
14	.4	25	62	39	295	165	194	131	99	25	4.1	2.9
15	.4	21	57	39	1,050	158	194	144	99	25	4.1	2.9
16	.4	17	57	43	702	144	187	137	94	25	4.5	3.3
17	.4	11	39	43	385	144	187	137	88	25	4.5	3.3
18	.4	11	39	43	790	151	179	137	82	23	4.1	2.9
19	.5	10	39	39	570	151	179	131	72	21	4.1	2.9
20	.5	8.5	43	67	331	144	172	131	72	15	3.7	2.9
21	.7	8.5	57	72	430	137	144	131	72	12	3.3	2.5
22	1.0	8.5	53	57	362	131	144	137	67	12	3.3	2.5
23	1.6	10	50	57	430	124	179	131	62	12	3.3	2.2
24	1.6	57	46	53	430	124	179	131	57	11	2.9	1.9
25	1.3	620	46	53	295	118	179	124	57	11	2.9	1.9
26	1.3	620	46	50	255	118	172	124	57	11	3.3	1.9
27	1.3	620	43	57	217	118	172	118	53	10	3.3	2.2
28	1.0	255	43	57	209	124	158	118	53	10	3.3	2.2
29	1.0	111	39	57	124	151	118	118	50	8.5	3.3	2.5
30	1.0	111	39	53	137	144	111	111	46	8.5	2.9	2.5
31	1.0	-----	25	53	-----	144	-----	111	-----	7.5	2.9	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.6	0.1	0.61	37.5
November	620	7	85.0	5,060
December	111	25	56.1	3,450
January	82	21	47.1	2,900
February	1,600	53	357	19,800
March	209	118	154	9,470
April	790	144	232	13,900
May	151	111	134	8,240
June	118	46	88.2	5,250
July	43	7.5	22.6	1,390
August	7.5	2.9	4.48	175
September	3.3	1.9	2.00	255
The year	1,600	.1	96.5	69,800

MERCED RIVER BASIN

MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.

LOCATION.—Water-stage recorder at Happy Isles Bridge, 1½ miles southeast of Yosemite, Mariposa County.

DRAINAGE AREA.—181 square miles.

RECORDS AVAILABLE.—August, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,820 second-feet May 16 (gage height, 6.20 feet); minimum, 1.9 second-feet October 1.

1915-1927: Maximum discharge, 3,800 second-feet May 28, 1919 (gage height, 7.10 feet); minimum, 1.5 second-feet September 30, 1926.

REMARKS.—Records good except those for December 23-28, March 5-12, and July 20-27, which were estimated. No diversions. Gage-height record furnished by officials of Yosemite National Park.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	2.0	4.0	178	55	60	200	236	1,350	998	881	174	30
2.	2.6	4.0	178	57	67	194	286	1,350	911	983	156	28
3.	3.0	4.0	160	60	69	180	417	1,610	1,140	857	150	30
4.	2.6	3.8	132	62	67	168	355	1,620	1,510	752	140	36
5.	2.2	3.6	125	66	83	156	331	1,780	1,780	680	132	40
6.	2.0	3.6	123	67	83	158	304	1,590	2,000	650	120	41
7.	2.0	3.6	113	66	80	180	304	1,170	2,190	585	123	37
8.	2.0	3.6	98	76	77	202	286	869	1,870	575	123	35
9.	2.2	3.6	88	74	76	198	256	809	1,660	576	115	34
10.	2.4	3.6	88	77	74	170	236	935	1,830	650	105	32
11.	2.8	3.8	87	75	72	164	220	1,140	1,960	724	96	30
12.	3.0	6.5	87	70	69	175	208	1,420	2,050	655	89	28
13.	3.0	12	72	75	67	205	200	1,920	2,280	655	83	27
14.	3.0	12	64	73	70	205	217	2,190	2,280	552	77	26
15.	3.0	10	68	73	75	205	247	2,190	2,140	465	74	24
16.	2.8	10	69	72	91	203	233	2,470	2,190	402	69	23
17.	3.0	11	67	61	95	200	210	2,380	1,140	374	73	23
18.	2.6	12	68	65	242	203	242	2,000	1,960	370	95	23
19.	2.6	28	64	67	239	198	313	1,700	1,830	364	95	21
20.	3.0	26	62	68	230	198	374	1,420	1,700	355	80	19
21.	3.4	21	61	68	242	200	498	998	1,700	342	73	18
22.	4.3	48	65	63	210	212	665	833	1,780	330	68	17
23.	4.9	63	59	67	189	295	809	887	1,590	322	64	18
24.	4.9	286	50	65	253	367	1,060	1,240	1,460	330	57	18
25.	4.9	118	58	63	265	391	1,310	1,620	1,380	305	53	19
26.	4.6	154	54	63	259	405	1,460	1,660	1,240	278	48	18
27.	4.6	138	48	62	242	377	1,360	1,360	1,030	306	43	17
28.	4.6	127	54	62	208	319	1,310	1,030	785	256	41	17
29.	4.6	242	57	59	-----	289	1,460	851	615	233	37	16
30.	4.3	210	54	59	-----	265	1,460	845	692	215	35	15
31.	4.3	-----	55	59	-----	242	-----	893	-----	194	32	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4.9	2.0	3.26	200
November	286	8.6	52.4	3,120
December	178	48	84.1	5,170
January	77	55	66.1	4,060
February	265	60	135	7,060
March	405	156	230	14,100
April	1,460	200	562	33,400
May	2,470	809	1,420	87,800
June	2,280	615	1,620	96,400
July	953	194	490	30,100
August	174	32	87.7	5,390
September	41	15	25.3	1,510
The year	2,470	2.0	399	288,000

MERCED RIVER AT POHONO BRIDGE, NEAR YOSEMITE, CALIF.

LOCATION.—Water-stage recorder at Pohono Bridge, 5 miles below Yosemite, Mariposa County.

RECORDS AVAILABLE.—November, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,700 second-feet May 17 (gage height, 9.48 feet); minimum, 14 second-feet October 7.

1916-1927: Maximum discharge, 6,370 second-feet June 5, 1922 (gage height, 10.00 feet); minimum 3.3 second-feet September 29 and October 1, 1924.

REMARKS.—Records good except those for December 4-8, which were estimated. No diversions. Gage-height record furnished by officials of Yosemite National Park.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	14	16	372	118	125	498	585	2,910	1,970	1,220	240	56
2.....	15	16	356	125	149	480	688	2,820	1,810	1,240	215	52
3.....	15	16	323	139	168	456	1,040	3,100	2,060	1,160	198	51
4.....	15	16	270	154	164	424	875	3,300	2,640	1,040	190	53
5.....	15	16	256	170	170	390	900	3,700	3,100	950	182	56
6.....	14	16	252	176	180	396	732	3,400	3,500	900	164	57
7.....	14	16	232	145	172	449	710	2,500	3,380	860	162	56
8.....	14	16	201	168	158	505	688	1,930	3,500	825	164	55
9.....	14	15	180	166	154	463	585	1,770	3,000	800	154	52
10.....	14	15	174	182	160	407	585	2,010	3,200	860	145	51
11.....	15	16	174	160	141	393	597	2,370	3,300	900	132	49
12.....	15	22	176	147	149	421	609	2,820	3,500	825	122	47
13.....	15	27	139	156	147	434	500	3,300	3,900	825	114	45
14.....	15	24	125	150	158	494	541	4,460	3,800	732	107	43
15.....	14	28	137	152	172	418	605	4,240	3,400	645	101	42
16.....	14	21	137	154	208	393	585	4,790	3,500	585	97	40
17.....	14	21	134	123	206	379	505	5,010	3,400	545	91	38
18.....	14	22	136	128	617	362	585	4,130	3,100	533	102	38
19.....	14	29	125	139	665	335	732	3,400	2,730	517	141	37
20.....	14	43	120	147	535	347	850	2,910	2,550	498	114	34
21.....	14	34	123	139	625	396	1,040	2,100	2,500	490	104	34
22.....	15	51	117	128	565	521	1,390	1,770	2,550	463	97	34
23.....	16	90	114	127	521	665	1,740	1,810	2,240	442	91	32
24.....	16	785	97	128	645	825	2,190	2,280	2,100	452	85	32
25.....	16	340	111	122	665	900	2,640	3,000	1,970	418	78	32
26.....	16	320	104	128	645	925	3,000	3,200	1,740	376	74	32
27.....	16	365	93	122	605	875	2,910	2,730	1,600	414	68	31
28.....	16	252	104	132	521	732	2,730	2,140	1,160	841	66	30
29.....	16	410	107	127	-----	665	3,000	1,770	925	314	63	30
30.....	16	513	114	120	-----	625	3,100	1,660	1,040	287	61	30
31.....	16	-----	117	123	-----	585	-----	1,770	-----	265	58	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	16	14	14.9	916
November.....	786	15	119	7,080
December.....	372	93	168	10,300
January.....	182	118	142	8,730
February.....	665	125	337	13,700
March.....	925	335	523	32,200
April.....	3,100	505	1,230	73,200
May.....	5,010	1,690	2,890	178,000
June.....	3,800	925	2,650	168,000
July.....	1,240	265	667	41,000
August.....	240	58	122	7,500
September.....	57	30	42.3	2,520
The year.....	5,010	14	743	538,000

MERCED RIVER AT HORSESHOE BEND, CALIF.

LOCATION.—Water-stage recorder in sec. 22, T. 3 S., R. 16 E., 600 feet above Yosemite Valley Railroad bridge No. 43 A, just above Horseshoe Bend of Merced River, and $1\frac{1}{2}$ miles below Kittredge.

RECORDS AVAILABLE.—November, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,650 second-feet May 17; maximum gage height, 16.25 feet June 24, caused by backwater from Lake McClure; minimum discharge, 22 second-feet part of nearly every day October 1 to November 11.

1922-1927: Maximum discharge, 14,000 second-feet February 6, 1925 (gage height, 15.48 feet); minimum, 13 second-feet October 5, 1925.

REMARKS.—Records good except those for December 20 to January 3 and June 5 to September 30, which were estimated. Daily discharge not determined for August and September. No diversions. Operation of power plant at Kittredge causes diurnal fluctuation at low water.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1	32	42	905	265	375	1,590	4,080	5,090	3,230	1,570
2	35	44	800		400	1,470	5,610	4,850	2,930	1,700
3	28	42	740		383	1,380	4,860	5,450	3,130	1,570
4	25	44	680		302	4,380	1,250	3,970	5,690	4,190
5	35	50	585	325	1,470	1,230	2,980	6,310	4,420	1,300
6	60	40	555	518	1,060	1,140	2,410	6,180	5,110	1,200
7	26	46	585	585	340	1,140	2,170	4,410	5,680	1,100
8	50	54	495	450	720	1,260	1,950	3,330	4,930	1,050
9	26	36	438	438	640	1,320	1,810	2,840	4,700	1,020
10	55	47	412	540	585	1,170	1,680	3,080	4,800	1,080
11	24	32	400	820	540	1,080	1,620	3,530	4,650	1,190
12	62	50	388	570	510	1,030	1,530	4,410	5,190	1,090
13	25	78	375	480	510	1,080	1,470	6,080	6,510	1,010
14	63	125	325	450	1,350	1,500	1,470	7,490	5,410	980
15	48	82	294	425	4,670	1,260	1,580	7,220	5,020	850
16	26	88	304	425	4,180	1,140	1,560	8,050	5,020	850
17	51	63	300	450	2,300	1,080	1,410	8,330	5,660	750
18	42	76	312	375	6,730	1,030	1,440	6,960	4,200	600
19	41	60	315	375	4,210	955	1,590	5,570	3,580	540
20	44	88		688	2,660	930	1,810	4,740	3,280	480
21	42	102		660	2,860	955	2,060	3,530	8,230	570
22	43	109		525	3,330	1,060	2,490	2,750	3,180	550
23	50	125		450	2,410	1,350	2,840	2,570	2,710	500
24	47	2,020		425	2,490	1,620	3,530	3,330	2,540	480
25	48	1,660	265	400	2,490	1,740	4,520	4,520	2,540	460
26	48	2,240		400	2,250	1,810	5,210	5,210	2,230	440
27	44	3,450		425	2,020	1,810	5,330	4,410	2,050	420
28	46	1,390		400	1,740	1,590	4,520	3,530	1,670	410
29	40	1,170		425		1,500	5,330	2,750	1,430	400
30	46	1,290		400		1,410	5,450	2,680	1,310	390
31	46			375		1,410		2,750		360

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	63	23	41.7	2,580
November	3,460	32	492	29,300
December	905		400	24,000
January	820		448	27,500
February	6,730	375	2,090	116,000
March	1,810	930	1,300	79,900
April	5,610	1,410	2,940	175,000
May	6,330	2,570	4,760	293,000
June	5,680	1,810	3,780	225,000
July	1,700	360	851	52,300
August			* 180	11,100
September			* 65	3,870
The year	8,330	23	1,440	1,040,000

* Estimated.

LAKE McCLURE AT EXCHEQUER, CALIF.

LOCATION.—Staff gage at Exchequer Dam and indicator in power house in SW. $\frac{1}{4}$ 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, 1927.

REMARKS.—Lake McClure, formed by the construction of Exchequer Dam on Merced River, is used as a storage reservoir by the Merced Irrigation District. Power is also developed at the dam. Small diversions above lake. Zero of gage is mean sea level, U. S. Geological Survey datum. Elevation of spillway crest is 693.0 feet and top of spillway gate, 707.0 feet. There was practically no available storage on September 30, 1926, and 90,200 acre-feet on September 30, 1927.

Daily elevation, in feet, 1925-1927

Day	Apr.	May	June	July	Aug.	Day	Apr.	May	June	July	Aug.
1925-26						1925-26					
1.....		568.5	639.7	613.6	554.6	16.....		620.2	633.9	590.3	503.0
2.....		575.6	639.9	612.3	552.1	17.....		623.3	632.7	588.5	499.0
3.....		582.4	639.9	610.9	549.2	18.....		626.1	631.4	586.6	496.0
4.....		589.7	640.3	609.1	546.8	19.....		629.0	630.0	584.6	491.8
5.....		596.6	640.0	607.5	544.0	20.....	460.0	632.0	628.6	582.7	487.1
6.....		602.0	639.4	605.9	540.6	21.....	491.5	634.4	627.6	579.9	482.8
7.....		604.7	639.0	604.3	537.2	22.....	500.2	636.4	626.3	578.1	479.0
8.....		606.6	638.3	602.7	533.2	23.....	506.0	638.0	624.9	576.2	472.8
9.....		607.6	638.3	601.3	529.2	24.....	514.0	639.2	623.5	574.0	465.0
10.....		608.2	640.0	599.8	525.5	25.....	522.4	639.5	622.3	571.5	467.5
11.....		609.2	638.8	598.0	522.2	26.....	528.7	639.4	621.1	569.0	447.5
12.....		610.8	638.2	596.1	518.0	27.....	534.4	639.2	619.7	566.5	442.5
13.....		612.6	637.4	595.0	513.0	28.....	542.9	639.1	618.1	564.0	-----
14.....		615.0	636.0	593.9	508.7	29.....	552.2	639.1	616.1	561.8	-----
15.....		617.4	634.9	592.2	505.5	30.....	561.2	639.2	615.0	560.4	-----
						31.....		639.4	-----	567.1	-----

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1926-27											
1.....			544.5	550.2	582.0	650.9	662.1	697.5	695.4	706.9	687.0
2.....			546.0	550.2	582.9	651.4	668.1	697.3	696.0	706.8	685.9
3.....			547.5	550.4	583.6	651.7	671.6	697.2	696.4	706.8	684.8
4.....			548.8	550.7	591.5	652.1	675.6	697.4	697.2	706.7	683.6
5.....			549.0	551.2	596.2	652.4	677.9	697.6	698.3	706.5	682.6
6.....			549.5	552.1	597.9	652.6	679.4	697.9	699.3	706.3	681.5
7.....			550.0	554.0	598.8	652.5	680.5	698.1	700.4	706.2	680.4
8.....			550.5	555.4	599.5	652.6	681.4	698.8	701.3	705.4	679.3
9.....			550.8	556.7	600.0	652.8	682.1	696.1	701.4	704.8	678.2
10.....			550.8	557.8	600.2	653.0	682.7	695.8	701.2	704.4	677.1
11.....			550.9	559.7	600.4	653.0	683.0	695.8	701.2	704.0	676.0
12.....			551.0	561.2	600.5	653.1	683.3	696.1	701.2	703.7	675.0
13.....			551.9	562.8	600.6	653.0	683.5	696.9	701.5	703.3	673.8
14.....			551.7	563.9	600.8	653.2	683.7	698.0	701.8	702.8	672.6
15.....			551.3	565.0	604.9	653.7	685.8	698.4	701.9	702.2	671.5
16.....			551.1	565.9	613.1	653.9	684.0	698.7	701.7	701.5	670.4
17.....			550.9	566.9	618.0	653.9	684.2	698.0	701.5	700.8	669.3
18.....			550.7	567.8	620.8	653.9	684.3	697.2	702.6	700.8	668.2
19.....			550.4	568.6	630.5	653.9	684.4	696.4	704.2	699.2	666.9
20.....			550.1	569.5	634.0	654.4	684.6	696.6	705.5	698.3	665.7
21.....			550.4	571.9	636.0	654.7	685.1	696.3	706.5	697.5	664.5
22.....			550.6	573.1	639.4	655.1	686.1	696.0	707.5	696.6	663.3
23.....			450.0	570.7	674.3	642.1	655.7	687.3	695.4	708.3	662.1
24.....			467.0	550.5	575.1	644.0	656.7	688.9	695.4	708.4	664.8
25.....			500.0	550.3	576.1	646.0	657.9	691.2	695.8	708.3	663.9
26.....			506.0	550.2	577.0	647.8	659.1	693.9	696.7	708.2	662.9
27.....			524.0	550.2	578.0	649.0	660.0	695.5	696.8	708.0	662.0
28.....			535.0	550.2	578.9	650.1	660.5	696.0	696.7	707.8	661.5
29.....			539.0	550.1	579.8	-----	661.0	696.7	696.2	707.5	660.0
30.....			542.0	550.2	580.1	-----	661.2	696.7	695.6	707.2	659.0
31.....			550.2	581.1	-----	661.4	-----	695.4	-----	688.0	652.2

NOTE.—Water level below gage August 28 to November 22, 1926.

SAN JOAQUIN RIVER BASIN

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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., half a mile below Exchequer Dam at Exchequer, and 8 miles above Merced Falls. Prior to October 25, 1922, station was maintained at remains of old dam at Exchequer, 1 mile above present site.

DRAINAGE AREA.—1,020 square miles at old site.

RECORDS AVAILABLE.—November, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year not determined; minimum, 13 second-feet November 9–11.

1915–1927: Maximum discharge, about 22,000 second-feet January 17, 1916 (gage height, 20.0 feet); minimum, that of November 9–11, 1926.

REMARKS.—Records fair except those for April 15 to May 17, which were estimated. No diversions. Flow is completely regulated in Lake McClure by Exchequer Dam. Capacity of lake is 286,000 acre-feet. There was no stored water in lake September 30, 1926, and 90,200 acre-feet on September 30, 1927.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	39	410	258	37	1,170	1,230		2,770	1,700	1,540	1,260
2	27	37	410	252	37	1,160	1,230		2,140	1,700	1,500	1,260
3	29	37	410	309	43	1,160	1,230		2,400	1,700	1,500	1,260
4	31	37	410	74	435	1,160	1,270		2,770	1,700	1,430	1,260
5	29	44	420	74	519	1,170	1,280		3,170	1,700	1,460	1,260
6	29	44	417	74	459	1,160	1,280		3,720	1,660	1,430	1,260
7	31	37	413	59	587	1,170	1,280		4,510	1,580	1,430	1,220
8	31	39	417	59	559	1,120	1,290		4,800	1,580	1,430	1,220
9	31	13	420	61	544	1,170	1,390		4,960	1,540	1,430	1,190
10	31	13	420	59	544	1,160	1,390	5,450	4,800	1,580	1,430	1,190
11	44	13	425	59	544	1,180	1,350		4,800	1,580	1,400	1,160
12	29	29	77	61	544	1,170	1,350		4,800	1,580	1,360	1,130
13	39	27	425	61	551	1,180	1,350		5,120	1,660	1,360	1,130
14	31	31	425	61	525	1,180	1,350		5,250	1,660	1,360	1,130
15	39	27	425	61	540	1,180			5,280	1,660	1,360	1,130
16	41	24	425	61	531	1,190			5,120	1,660	1,320	1,100
17	31	24	425	56	981	1,200			4,100	1,660	1,360	1,130
18	37	27	420	51	1,030	1,210		8,120	2,140	1,660	1,320	1,070
19	35	29	425	56	1,060	630		5,600	1,860	1,660	1,360	1,070
20	35	29	216	56	1,060	622		4,650	1,980	1,580	1,360	1,130
21	33	31	277	56	1,130	630		3,970	1,980	1,700	1,320	1,290
22	35	35	317	56	1,060	630	2,100	3,380	2,140	1,700	1,320	1,220
23	35	37	354	56	1,150	630		2,670	2,580	1,660	1,320	1,220
24	37	65	367	39	1,160	630		3,070	2,670	1,660	1,290	1,220
25	37	64	367	39	1,160	627		3,490	2,670	1,660	1,290	1,220
26	39	73	264	37	1,150	1,080		4,370	2,490	1,620	1,290	1,190
27	41	60	264	37	1,160	1,200		4,650	2,310	1,580	1,260	1,190
28	39	132	271	37	1,160	1,220		4,100	2,060	1,540	1,290	1,190
29	39	392	216	37		1,230		3,490	1,820	1,540	1,260	1,190
30	37	392	258	37		1,280		2,970	1,700	1,540	1,260	1,160
31	37		252	37		1,310		2,970		1,540	1,260	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	44	27	34.5	2,120
November	392	13	63.4	3,770
December	425	77	356	21,900
January	309	37	75.2	4,620
February	1,160	37	724	40,200
March	1,310	622	1,060	65,200
April			1,730	103,000
May		2,670	4,840	298,000
June	5,280	1,700	3,300	194,000
July	1,700	1,540	1,630	100,000
August	1,540	1,260	1,360	83,600
September	1,290	1,070	1,190	70,800
The year			13	1,370
				989,000

MERCED RIVER NEAR LIVINGSTON, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 20, T. 6 S., R. 11 E., $3\frac{1}{2}$ miles west of Livingston. Gage datum raised 1.5 feet October 1, 1926.

RECORDS AVAILABLE.—March, 1922, to September, 1924, and October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 6,140 second-feet February 14 (gage height, 13.7 feet); minimum, 50 second-feet or less.

1922-1924, 1925-1927: Maximum discharge, 8,100 second-feet June 5, 1922 (gage height, 15.8 feet, present datum); minimum, 18 second-feet August 30, 1924.

REMARKS.—Records fair; discharge interpolated February 26, 27, and July 16-31. Daily discharge not determined October 1-23. Practically the entire flow is diverted above station during the irrigating season; return water enters above station. Storage at Lake McClure; capacity, 286,000 acre-feet. Gage-height record furnished by Merced Irrigation District.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		56	284	253	98	1,200	1,130	3,320	1,700	472	175	134
2		56	339	253	98	1,200	2,000	8,500	1,350	444	184	139
3		51	361	251	98	1,110	1,350	3,280	1,070	575	176	113
4		51	372	255	884	1,250	1,350	3,380	1,200	560	173	148
5		53	384	249	555	1,250	1,250	3,560	1,500	500	143	163
6		56	396	187	480	1,200	1,050	3,800	1,950	430	122	156
7		57	396	177	480	1,200	1,070	3,920	2,360	382	116	143
8		57	396	149	525	1,110	990	3,320	2,960	313	116	154
9		57	396	135	495	1,070	970	2,660	3,200	279	118	163
10		55	407	127	495	1,130	960	2,150	3,200	269	112	141
11		57	407	128	495	1,130	970	1,900	3,140	281	120	163
12		59	407	132	495	1,110	970	2,050	3,200	240	110	171
13		60	328	132	480	1,070	950	2,360	3,200	201	116	159
14		59	284	132	510	1,110	930	3,200	3,380	205	127	148
15		59	384	134	870	1,130	830	4,220	3,500	184	154	144
16		60	418	139	1,650	1,110	850	4,640	3,500	193	130	171
17		59	418	140	970	1,090	850	5,780	3,440	203	110	178
18		58	418	139	1,160	1,110	750	5,780	1,980	212	115	180
19		60	418	137	1,400	1,150	810	5,000	1,050	222	120	211
20		60	430	135	1,150	692	790	3,560	620	231	115	201
21		51	361	132	1,130	588	750	3,140	585	240	120	196
22		64	291	144	1,450	588	692	2,540	555	235	125	190
23		65	313	123	1,200	555	675	2,200	720	230	132	262
24	58	68	328	114	1,350	555	605	1,850	1,120	224	132	315
25	59	69	350	109	1,400	455	588	1,900	1,180	218	128	338
26	58	74	339	103	1,300	510	510	2,420	1,180	208	120	377
27	57	89	304	101	1,200	850	1,680	2,960	1,090	197	104	372
28	56	94	280	97	1,200	960	2,780	2,960	990	186	110	384
29	56	95	272	95		910	2,420	2,600	755	183	176	377
30	57	115	261	101		870	2,900	2,150	575	180	143	374
31	57		249	100		930		1,800		178	125	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			* 52	3,200
November	115	51	64.5	3,840
December	430	249	355	21,800
January	255	97	149	9,160
February	1,650	98	843	46,800
March	1,250	455	975	60,000
April	2,900	510	1,150	68,400
May	5,780	1,800	3,160	194,000
June	3,500	565	1,870	111,000
July	575	178	279	17,200
August	184	104	131	8,060
September	384	113	213	12,700
The year	5,780		789	556,000

* Estimated.

SAN JOAQUIN RIVER BASIN

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TENAYA CREEK NEAR YOSEMITE, CALIF.

LOCATION.—Water-stage recorder at Tenaya Bridge in Yosemite National Park, five-eighths mile above junction with Merced River, and 1½ miles east of Yosemite, Mariposa County.

DRAINAGE AREA.—47 square miles.

RECORDS AVAILABLE.—July, 1904, to June, 1909; January, 1912, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,370 second-feet May 16 (gage height, 6.25 feet); minimum, 1.7 second-feet September 1-3 (gage height, 1.02 feet).

1904-1909, 1912-1927: Maximum discharge, 1,730 second-feet May 28, 1919 (gage height, 7.05 feet); minimum, 0.5 second-foot September 12 and most of October, 1906.

REMARKS.—Records good; discharge interpolated July 26 and 27. No diversions. Gage-height record furnished by officials of Yosemite National Park.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	3.2	82	24	27	99	112	558	415	182	9.5	1.7
2	2.2	3.2	80	29	32	95	136	558	372	180	8	1.7
3	2.2	3.2	72	43	35	92	182	610	445	166	7.5	1.7
4	2.3	3.4	58	53	35	89	145	662	558	152	7	1.8
5	2.3	3.4	51	49	43	88	131	715	645	140	5	1.8
6	2.3	3.4	49	45	44	92	118	610	732	130	4.5	1.8
7	2.4	3.4	44	41	43	101	117	460	785	120	4.5	1.8
8	2.4	3.4	37	38	41	120	108	355	698	109	4.0	1.8
9	2.4	3.4	33	37	40	115	95	338	662	104	3.8	1.8
10	2.4	3.4	30	39	38	108	94	400	662	98	3.6	1.8
11	2.4	3.4	29	36	36	102	87	475	680	94	3.1	1.8
12	2.4	3.6	30	34	35	98	85	562	750	88	2.8	1.8
13	2.4	3.6	26	34	35	105	84	785	768	82	2.6	2.0
14	2.4	3.4	22	33	35	102	90	880	698	72	2.6	2.0
15	2.4	3.4	22	33	35	92	101	900	645	66	2.4	2.0
16	2.6	3.4	21	32	38	85	93	1,000	645	58	2.2	2.0
17	2.6	3.4	21	29	40	81	88	960	610	48	2.2	2.2
18	2.7	3.4	21	28	122	75	107	802	540	41	4.7	2.2
19	2.7	3.4	19	29	163	68	138	662	475	37	4.7	2.2
20	2.7	3.4	18	29	132	70	163	522	430	32	2.9	2.0
21	2.7	3.4	18	29	133	75	198	372	430	30	2.3	2.2
22	2.7	3.6	18	29	124	98	267	340	400	28	2.2	2.2
23	2.9	22	17	27	112	130	333	372	360	26	2.2	2.3
24	2.9	211	15	28	135	170	442	505	348	24	1.8	2.3
25	2.9	78	15	27	140	190	558	628	315	22	1.8	2.4
26	2.9	82	16	27	129	198	610	645	288	20	1.8	2.4
27	2.9	71	16	27	121	188	575	522	253	18	1.8	2.4
28	3.2	64	16	28	106	143	540	415	220	17	1.8	2.4
29	3.2	124	18	28	-----	135	610	350	192	15	1.8	2.6
30	3.2	102	19	26	-----	122	610	360	180	12	1.8	2.6
31	3.2	-----	21	27	-----	112	-----	385	-----	11	1.8	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.2	2.2	2.62	161
November	211	3.2	27.6	1,640
December	82	15	30.8	1,860
January	53	24	32.8	2,020
February	163	27	73.2	4,070
March	198	69	111	6,820
April	610	84	234	13,900
May	1,000	338	572	35,200
June	785	180	507	80,200
July	182	11	71.6	4,400
August	9.5	1.8	3.51	216
September	2.6	1.7	2.06	128
The year	1,000	1.7	139	101,000

TUOLUMNE RIVER BASIN

HETCH HETCHY RESERVOIR AT HETCH HETCHY, CALIF.

LOCATION.—Staff gage at O'Shaughnessy Dam at Hetch Hetchy, Tuolumne County. Zero of gage at sea-level elevation.

RECORDS AVAILABLE.—May, 1923, to September, 1927.

EXTREMES.—Maximum elevation during year, 3,721.1 feet May 13-22 and May 29 to June 2; minimum, 3,530.5 feet February 15-16.

1923-1927: Maximum elevation, 3,721.3 feet June 8-11, 1923; minimum that of February 15-16, 1927.

REMARKS.—Record furnished by city of San Francisco.

Daily elevation, in feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	648.7	609.0	588.4	566.8	540.5	556.3	552.2	605.6	720.8	720.5	719.2	702.6
2-----	647.7	608.1	588.2	566.0	539.5	556.3	552.8	610.5	720.8	720.7	718.9	701.8
3-----	647.0	606.6	588.1	566.8	538.8	556.1	554.5	615.6	720.8	720.7	718.6	701.1
4-----	646.1	605.0	588.5	566.0	538.2	555.5	557.4	621.7	720.9	720.5	718.2	700.3
5-----	645.1	603.4	588.4	565.2	538.7	555.3	558.4	627.1	721.0	720.4	717.9	699.7
6-----	643.9	602.1	588.2	564.6	538.4	554.8	558.9	632.0	721.1	720.4	717.5	699.1
7-----	642.7	600.7	588.0	564.0	537.5	554.2	559.3	638.2	721.1	720.4	717.1	698.4
8-----	641.5	599.0	587.8	563.2	536.7	554.0	559.6	641.0	720.7	720.3	716.7	697.8
9-----	640.2	597.5	586.0	562.4	536.0	554.0	559.8	643.1	720.6	720.3	716.2	697.1
10-----	638.9	596.1	585.5	561.8	535.0	553.7	559.5	645.3	720.7	720.3	715.7	696.3
11-----	637.7	594.4	585.2	561.8	533.9	553.4	559.0	648.2	720.7	720.4	715.2	695.7
12-----	636.5	593.0	584.9	561.2	532.8	552.8	558.8	652.1	720.8	720.4	714.7	694.9
13-----	635.3	591.8	584.2	560.3	531.4	552.4	558.5	657.7	721.0	720.4	714.1	694.2
14-----	634.0	590.0	583.5	559.3	530.9	552.3	558.0	665.8	721.1	720.3	713.5	693.5
15-----	632.8	588.5	582.9	558.5	530.5	552.3	557.5	674.0	720.8	720.2	713.0	692.7
16-----	631.6	587.4	581.9	557.5	530.5	552.0	557.2	682.2	720.9	720.2	712.4	691.9
17-----	630.2	586.0	581.0	556.5	530.8	551.3	557.2	692.2	721.0	720.4	711.8	691.1
18-----	629.0	584.7	580.0	555.8	531.3	550.6	556.5	699.6	720.8	720.2	711.3	690.3
19-----	627.8	583.0	579.2	555.0	530.5	550.2	556.6	705.4	720.6	720.2	710.7	689.6
20-----	626.4	582.0	578.3	554.0	541.0	549.5	558.1	709.4	720.5	720.3	710.2	688.8
21-----	625.1	581.2	577.3	553.2	543.4	548.6	558.8	712.3	720.5	720.3	709.6	688.1
22-----	623.8	580.3	576.4	552.0	547.7	547.8	560.0	714.2	720.6	720.3	709.0	687.2
23-----	622.5	579.4	575.6	551.0	550.3	548.0	562.5	715.8	720.6	720.3	708.5	686.4
24-----	621.1	578.6	575.0	549.7	551.6	548.8	566.2	718.0	720.6	720.3	707.9	685.5
25-----	619.6	582.0	573.3	548.6	553.3	549.7	571.0	720.8	720.5	720.2	707.3	684.6
26-----	618.2	582.3	572.0	547.4	554.5	550.7	577.0	720.8	720.5	720.0	706.7	683.8
27-----	616.8	584.4	571.2	546.0	555.5	551.8	583.5	720.2	720.4	720.0	706.0	683.1
28-----	615.3	585.3	570.2	545.0	556.4	552.5	589.0	720.2	720.2	720.0	705.3	682.3
29-----	613.8	586.1	569.3	544.0	-----	552.8	594.1	720.7	720.1	719.9	704.7	681.5
30-----	612.0	587.8	568.6	542.8	-----	552.8	600.0	720.7	720.4	719.7	703.9	680.7
31-----	610.5	-----	567.8	541.5	-----	552.6	-----	720.7	-----	719.4	703.2	-----

NOTE.—Add 3,000 feet to the above figures to obtain elevation above mean sea level.

TUOLUMNE RIVER NEAR HETCH HETCHY, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 17, T. 1 N., R. 20 E., in Yosemite National Park, three-fourths of a mile below O'Shaughnessy Dam at Hetch Hetchy.

RECORDS AVAILABLE.—December, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,450 second-feet June 7 (gage height, 12.70 feet); minimum, 2.9 second-feet at 5 p. m. November 1, caused by regulation.

1914-1927: Maximum discharge, 11,400 second-feet May 29, 1919 (gage height, 13.4 feet); minimum, 1.3 second-feet November 2-3, 1923.

REMARKS.—Records excellent. No diversions. Flow regulated by gates in O'Shaughnessy Dam. There was 107,560 acre-feet of water in Hetch Hetchy Reservoir September 30, 1926, and 147,000 acre-feet September 30, 1927.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	602	523	602	312	602	670	745	895	2,830	3,050	655	602
2.....	450	715	578	54	565	655	640	825	2,630	3,170	655	640
3.....	470	730	578	530	520	655	628	895	3,050	3,050	640	685
4.....	615	745	578	436	420	670	670	950	4,530	2,730	640	628
5.....	628	715	565	590	530	685	700	990	5,690	2,350	670	565
6.....	685	745	565	530	578	685	715	1,050	6,590	2,350	655	552
7.....	730	745	565	578	530	670	715	1,090	7,830	2,130	628	578
8.....	730	730	578	578	578	655	730	825	6,130	2,050	615	590
9.....	760	730	615	565	565	655	730	730	5,290	2,050	640	590
10.....	715	730	615	520	578	655	730	730	5,910	2,130	640	602
11.....	685	730	615	510	590	670	715	745	6,350	2,260	640	590
12.....	685	730	615	590	590	685	715	760	7,070	2,090	655	565
13.....	730	715	602	628	565	700	715	790	7,830	1,970	640	590
14.....	670	700	602	628	450	590	715	842	7,830	1,710	615	602
15.....	700	670	602	640	420	640	730	745	7,070	1,890	615	615
16.....	715	640	602	578	410	700	730	715	7,310	1,110	590	640
17.....	700	607	615	565	420	685	730	808	7,570	1,130	602	640
18.....	655	700	602	615	227	670	730	842	6,590	1,130	615	615
19.....	670	640	590	615	450	685	730	790	5,910	950	640	578
20.....	685	628	590	602	510	670	730	775	5,290	970	628	602
21.....	715	602	590	530	288	685	730	775	5,090	970	615	640
22.....	715	590	590	655	215	685	745	790	5,690	950	565	655
23.....	730	590	628	628	337	685	760	790	5,290	930	590	685
24.....	775	640	640	655	578	685	790	825	5,090	980	578	685
25.....	760	520	640	655	628	670	825	3,870	4,890	878	590	628
26.....	760	578	578	640	655	700	860	5,290	4,530	825	602	602
27.....	775	410	615	640	655	730	895	4,190	3,430	808	655	590
28.....	775	520	578	640	685	730	930	2,260	2,830	775	602	602
29.....	808	540	578	628	-----	730	950	2,350	2,050	760	590	615
30.....	808	565	552	602	-----	730	990	2,220	2,440	760	602	615
31.....	715	-----	540	602	-----	730	-----	2,300	-----	685	602	-----
Month												
	Maximum						Minimum		Mean		Run-off in acre-feet	
October.....	808						450		697		42,900	
November.....	745						410		644		38,300	
December.....	640						540		594		36,500	
January.....	655						54		566		34,800	
February.....	655						227		505		28,000	
March.....	730						590		681		41,900	
April.....	990						628		757		45,000	
May.....	5,290						715		1,370		84,200	
June.....	7,830						2,050		5,350		318,000	
July.....	3,170						685		1,580		97,200	
August.....	670						565		622		38,200	
September.....	685						552		613		36,500	
The year.....	7,830						54		1,160		842,000	

TUOLUMNE RIVER NEAR BUCK MEADOWS, CALIF

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 24, T. 1 S., R. 17 E., 1 mile below junction with South Fork of Tuolumne River and 2 miles north of Buck Meadows.

RECORDS AVAILABLE.—September, 1907, to September, 1927.

EXTREMES.—Maximum discharge during year, 12,600 second-feet June 7 (gage height, 10.20 feet); minimum, 13 second-feet November 4.

1907-1927: Maximum discharge, 27,200 second-feet January 14, 1909 (gage height, 14.00 feet); minimum, that of November 4, 1926.

REMARKS.—Records excellent. City of San Francisco diverts water from Tuolumne River and Cherry Creek at Early intake and uses it to develop power after which it is returned to the river through Moccasin Creek. A small amount is diverted from South Fork 7 miles above mouth and used in vicinity of Groveland. Flow partly regulated by storage in Hetch Hetchy Reservoir and Lake Eleanor.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	17	500	88	197	1,240	2,110	3,600	4,070	3,450	103	43
2	55	14	560	117	244	1,070	2,530	3,170	3,910	4,070	73	46
3	39	14	476	171	632	980	3,910	3,520	4,180	3,830	71	44
4	36	14	359	185	1,240	920	2,960	3,750	6,570	3,170	59	55
5	55	18	292	136	560	785	2,210	4,230	8,260	2,650	47	47
6	29	16	271	201	473	735	1,830	4,070	9,410	2,530	48	47
7	29	15	259	171	434	810	1,540	2,770	10,700	2,310	46	44
8	27	14	189	159	356	920	1,460	2,160	9,110	2,160	54	46
9	31	16	151	126	326	850	1,340	1,740	7,260	2,110	48	48
10	29	17	136	224	295	785	1,270	2,010	8,530	2,160	70	47
11	44	19	131	292	259	760	1,300	2,480	8,810	2,360	53	48
12	55	40	150	185	254	760	950	3,170	9,710	2,110	45	58
13	47	104	124	153	235	835	1,140	4,070	10,700	1,960	55	45
14	52	62	79	144	488	1,200	1,100	4,950	10,700	1,660	51	56
15	31	57	94	142	1,040	920	950	4,690	9,410	1,300	71	53
16	27	53	131	163	1,200	835	1,010	4,770	10,000	980	74	47
17	26	36	117	159	835	785	1,200	4,950	10,000	668	45	59
18	31	26	108	150	3,910	712	1,170	3,990	9,110	920	42	49
19	32	113	91	167	2,770	668	1,300	2,960	7,990	540	47	48
20	31	189	68	276	2,060	645	1,700	2,360	6,790	560	56	48
21	29	68	91	271	3,030	690	1,620	1,830	6,570	540	47	41
22	27	187	90	242	2,960	835	2,420	1,620	7,250	500	67	40
23	27	386	91	212	1,920	1,100	2,590	1,620	6,790	448	54	41
24	32	3,310	79	207	2,060	1,340	3,240	2,110	6,790	428	54	47
25	58	760	106	187	2,010	1,460	3,900	5,750	6,570	414	47	45
26	33	1,170	114	183	1,780	1,580	4,150	7,730	6,150	335	45	45
27	27	1,340	78	175	1,620	1,580	4,410	6,350	4,950	287	44	45
28	20	520	81	195	1,340	1,270	3,910	3,990	3,380	249	51	41
29	27	980	82	238	-----	1,200	3,830	3,170	2,360	181	42	48
30	51	760	82	210	-----	1,070	3,910	2,900	2,530	124	42	42
31	30	-----	84	201	-----	1,200	-----	3,310	-----	103	44	-----
Month						Maximum	Minimum	Mean	Run-off in acre-feet			
October						58	20	35.7	2,300			
November						3,310	14	344	20,500			
December						560	68	170	10,500			
January						292	88	185	11,400			
February						3,910	197	1,230	68,300			
March						1,580	645	986	60,600			
April						4,410	950	2,220	132,000			
May						7,730	1,620	3,540	218,000			
June						10,700	2,360	7,280	433,000			
July						4,070	103	1,460	89,800			
August						103	42	54.7	3,360			
September						58	40	46.4	2,760			
The year						10,700	14	1,450	1,050,000			

TUOLUMNE RIVER NEAR JACKSONVILLE, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 18, T. 1 S., R. 15 E., three-fourths mile east of Jacksonville and 1 mile west of highway bridge on Big Oak Flat Road.

RECORDS AVAILABLE.—July, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 16,700 second-feet February 18 (gauge height, 8.55 feet); minimum, 37 second-feet October 18.

REMARKS.—Records good except those for January 6-11 and March 16-27, 1923-1927; Maximum discharge, 26,500 second-feet February 6, 1926 (gauge height, 11.2 feet); minimum, that of October 18, 1926.

REMARKS.—Records good except those for January 6-11 and March 16-27, 1923-1927, which were estimated. For diversions and regulations see Tuolumne River near Buck Meadows.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	304	580	7,020	431	1,180	3,260	6,780	5,720	5,390	4,430	886	965
2	654	807	1,770	425	1,180	3,020	7,800	6,890	6,500	5,170	881	1,000
3	648	922	1,710	832	858	2,400	5,780	6,720	5,600	4,730	940	949
4	778	760	1,620	958	4,950	2,710	7,800	6,840	7,580	8,900	1,080	479
5	595	769	1,280	1,200	2,660	2,450	5,840	6,300	8,780	8,710	968	340
6	922	1,810	1,770	1,770	2,020	1,540	6,540	6,640	10,800	3,620	879	918
7	995	645	1,410	1,770	2,420	4,310	6,060	6,060	12,200	3,440	407	869
8	995	720	1,300	1,650	2,660	4,000	4,000	3,350	11,560	3,260	904	868
9	886	720	1,300	1,640	2,710	3,620	3,350	3,350	8,780	3,100	918	828
10	870	796	1,120	1,480	2,420	3,280	3,920	3,920	10,100	2,860	967	868
11	798	841	1,400	1,380	2,350	2,350	3,350	3,350	10,400	3,620	886	464
12	898	886	859	1,430	1,850	2,280	2,940	4,730	10,800	3,180	796	860
13	832	928	1,060	1,350	1,180	2,150	2,940	5,720	12,200	3,100	728	968
14	305	908	1,060	1,310	1,840	3,180	2,940	7,040	12,600	2,710	428	841
15	532	808	1,010	1,190	4,200	2,780	2,860	6,300	11,100	2,280	704	876
16	868	940	1,050	1,010	4,100	2,600	2,600	7,780	11,500	2,020	894	864
17	240	868	1,060	1,230	3,260	2,300	2,780	7,800	11,500	1,140	896	860
18	636	814	1,090	1,260	10,000	2,150	6,070	4,950	10,800	1,960	940	419
19	904	940	832	1,320	6,780	2,100	3,180	4,950	8,100	1,000	796	886
20	918	1,020	940	2,020	4,840	2,100	3,330	4,200	8,180	1,540	922	881
21	922	632	1,120	1,610	6,300	3,200	3,710	2,850	7,850	1,480	830	1,020
22	913	871	1,080	1,360	7,300	2,450	4,520	2,560	8,460	1,330	772	949
23	913	871	1,250	1,360	5,390	2,750	3,940	3,940	7,580	1,080	841	904
24	913	1,250	4,530	1,100	5,060	3,050	3,440	3,440	7,580	1,080	896	426
25	823	2,560	4,530	850	4,950	3,200	6,070	6,830	7,890	1,290	896	426
26	958	4,520	958	1,270	4,000	3,200	7,800	8,160	7,040	1,220	896	668
27	913	4,520	958	1,270	4,000	3,200	7,800	8,160	7,040	1,220	896	668
28	850	1,960	850	1,230	2,780	6,300	6,070	6,070	7,580	1,080	841	904
29	859	832	832	1,380	2,860	6,300	6,070	6,070	7,580	1,080	841	904
30	859	832	832	1,380	2,860	6,300	6,070	6,070	7,580	1,080	841	904
31	859	832	832	1,380	2,860	6,300	6,070	6,070	7,580	1,080	841	904

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	958	240	796	48,800
November	4,630	580	1,340	79,700
December	2,020	778	1,140	70,100
January	2,020	425	1,220	75,000
February	10,000	1,130	3,990	199,000
March	8,320	2,020	2,640	162,000
April	8,780	2,750	4,790	285,000
May	12,000	3,620	6,320	327,000
June	1,030	320	2,870	514,000
July	1,030	320	2,870	146,000
August	1,030	320	2,870	48,800
September	1,030	320	2,870	48,800
The year	958	240	796	2,010,000

SURFACE WATER SUPPLY, 1927, PART XI

DON PEDRO RESERVOIR NEAR LA GRANGE, CALIF.

LOCATION.—Staff gage in SW. $\frac{1}{4}$ sec. 35, T. 2 S., R. 14 E., at Don Pedro Dam, $5\frac{1}{2}$ miles above La Grange, Zero of gage is at mean sea level.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum elevation during year, 605.9 feet July 14; minimum, 547.7 feet November 22.

REMARKS.—Record of daily elevations furnished by Turlock Irrigation District.

Daily elevation, in feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	555.8	550.5	563.3	565.1	567.2	594.8	587.3	599.0	598.3	601.8	605.1	592.9
2.....	555.7	550.2	564.1	564.3	567.7	593.6	594.6	598.3	598.4	602.6	605.1	592.8
3.....	555.5	550.1	565.0	563.6	568.2	591.9	598.2	599.0	598.3	604.1	605.1	592.6
4.....	555.1	550.0	565.6	562.6	572.9	590.2	599.2	600.3	598.5	605.4	605.1	592.4
5.....	555.1	549.8	566.1	561.9	574.2	588.5	598.8	601.7	599.0	605.3	605.1	591.9
6.....	555.0	549.6	566.3	561.1	574.2	586.7	598.3	601.0	599.4	604.5	604.7	591.4
7.....	555.0	549.4	566.9	560.9	573.3	584.5	598.1	599.2	599.9	605.0	604.2	591.0
8.....	554.9	549.2	567.3	560.2	572.4	582.8	598.0	598.7	600.0	605.2	603.7	590.8
9.....	554.8	549.0	567.6	559.7	571.4	581.1	598.0	598.0	599.6	605.5	603.2	590.8
10.....	554.6	548.9	567.9	559.0	570.4	579.5	599.3	597.9	599.6	605.6	603.0	591.0
11.....	554.0	548.8	568.1	558.8	571.1	580.9	601.0	598.0	599.7	605.6	602.5	591.0
12.....	553.9	548.7	568.3	558.5	572.0	582.0	603.8	598.1	599.8	605.8	602.0	590.8
13.....	553.8	548.7	568.5	558.1	572.5	583.1	-----	598.2	600.0	605.8	601.4	590.5
14.....	553.7	548.5	568.7	558.9	573.2	584.5	602.7	598.8	600.6	605.9	600.9	589.8
15.....	553.5	548.1	568.9	559.5	575.3	586.3	601.3	598.8	600.3	605.8	600.0	589.7
16.....	553.3	548.1	569.1	559.9	578.5	587.7	600.6	598.8	600.6	605.6	599.5	589.4
17.....	553.1	548.0	569.3	560.4	580.3	588.8	600.2	598.9	600.7	605.3	599.0	588.9
18.....	552.6	547.9	569.4	561.1	584.5	589.9	600.9	599.2	600.7	604.8	598.5	588.5
19.....	552.5	547.9	569.5	561.9	592.2	590.9	601.1	598.4	600.2	605.0	598.1	587.8
20.....	552.3	547.9	569.6	562.9	598.9	591.9	601.5	598.2	600.1	605.3	597.8	587.3
21.....	552.1	547.9	569.8	563.5	598.2	592.8	602.0	598.0	600.4	605.6	597.4	587.0
22.....	552.0	547.7	570.1	563.3	594.4	592.0	602.3	597.7	601.5	605.7	596.8	586.7
23.....	552.0	547.9	569.6	563.0	595.2	590.2	603.0	597.6	602.9	605.7	596.5	586.3
24.....	551.9	548.2	569.2	563.0	595.1	588.6	602.5	597.8	603.2	605.7	596.0	586.0
25.....	551.8	552.8	568.9	563.5	594.9	587.3	601.5	598.0	603.6	605.6	595.8	585.5
26.....	551.7	553.5	568.3	564.1	594.6	586.1	601.5	599.2	602.7	605.7	595.5	584.8
27.....	551.7	555.9	567.8	564.8	594.0	586.2	600.5	599.3	602.2	605.6	595.1	584.2
28.....	551.6	559.9	567.1	565.2	593.0	584.9	600.4	598.9	602.5	605.6	594.7	583.7
29.....	551.5	560.6	566.7	565.9	-----	583.2	601.5	598.3	601.8	605.6	594.0	583.4
30.....	551.4	562.2	566.0	566.4	-----	583.2	602.9	598.0	601.5	605.6	593.5	583.3
31.....	551.2	-----	565.5	566.9	-----	584.5	-----	598.1	-----	605.5	593.0	-----

TUOLUMNE RIVER ABOVE LA GRANGE DAM, NEAR LA GRANGE, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 3, T. 3 S., R. 14 E., half a mile below Don Pedro Dam, $3\frac{1}{2}$ miles above La Grange Dam and 5 miles above La Grange.

RECORDS AVAILABLE.—March, 1915, to September, 1927; also 1895, to 1917, at La Grange Dam.

EXTREMES.—Maximum discharge during year, 19,400 second-feet April 30 (gage height, 20.35 feet); minimum, 224 second-feet February 19, caused by regulation.

1915-1927: Maximum discharge, 36,500 second-feet February 21, 1917 (gage height, 27.58 feet); minimum, 1.4 second-feet November 26 to December 1, 1922.

REMARKS.—Records excellent. A small amount of water is diverted for irrigation. Flow completely regulated by gates in Don Pedro Dam. There was 149,860 acre-feet of water in Don Pedro Reservoir September 30, 1926, and 222,770 acre-feet September 30, 1927. Water is also stored in Hetch Hetchy Reservoir and Lake Eleanor.

Daily and monthly discharge, in second-feet, 1926-27.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	972	972	798	1,280	601	2,810	678	7,110	4,910	3,240	1,060	1,170
2	952	972	798	1,280	601	5,370	678	4,790	5,360	2,700	1,060	1,280
3	952	993	798	1,720	616	5,300	6,320	3,700	5,170	2,130	1,060	1,280
4	952	972	780	2,060	1,320	5,190	8,760	3,800	6,540	3,060	1,060	1,240
5	952	993	762	1,980	2,290	5,240	6,820	4,550	7,860	4,440	1,330	1,240
6	952	972	816	2,060	2,720	5,170	5,560	9,210	9,060	3,560	1,540	1,330
7	952	798	798	2,060	2,990	5,100	4,910	5,980	10,400	2,790	1,540	1,040
8	952	972	780	2,060	2,870	4,960	4,330	4,790	10,600	2,790	1,540	912
9	972	993	780	1,920	2,810	4,960	2,120	3,900	8,610	2,790	1,540	912
10	932	972	798	1,980	1,630	2,860	631	3,600	8,760	2,790	1,720	912
11	952	972	780	1,980	504	536	694	3,900	9,210	2,700	1,720	892
12	952	972	744	1,980	504	572	710	4,440	9,360	2,970	1,720	1,150
13	952	972	780	932	440	601	2,880	5,300	9,960	2,880	1,720	1,540
14	952	952	780	601	517	662	5,840	6,400	11,000	2,790	1,720	1,380
15	952	993	780	558	517	662	4,440	6,400	9,810	2,610	1,720	1,660
16	952	993	762	504	478	646	3,700	6,400	9,960	2,360	1,720	1,540
17	932	993	780	572	428	631	1,980	6,820	10,300	2,200	1,720	1,480
18	952	972	780	631	416	646	2,360	5,700	9,960	1,840	1,660	1,480
19	952	993	762	572	2,010	646	2,520	5,300	8,610	1,060	1,430	1,480
20	952	972	780	1,280	4,570	586	2,790	4,330	7,560	1,060	1,380	1,480
21	972	952	780	1,920	6,470	1,640	3,150	3,700	6,260	1,150	1,380	1,480
22	972	678	1,190	1,920	5,060	4,080	3,330	2,880	5,980	1,280	1,380	1,480
23	972	744	1,540	1,330	5,230	5,110	4,790	2,790	6,680	1,280	1,380	1,480
24	932	932	1,540	912	5,260	5,040	6,260	3,240	7,110	1,240	1,380	1,540
25	972	873	1,480	616	5,320	5,050	4,910	4,790	7,860	1,190	1,380	1,480
26	972	854	1,480	616	5,330	4,130	7,860	8,160	8,310	1,240	1,480	1,480
27	972	816	1,540	616	5,250	4,110	11,200	8,160	4,740	1,190	1,540	1,480
28	972	798	1,540	572	2,920	5,040	3,600	6,680	5,980	1,170	1,540	1,430
29	972	816	1,540	572	-----	4,050	3,600	4,670	4,550	1,190	1,600	1,380
30	972	798	1,540	530	-----	2,030	10,400	4,110	3,330	1,150	1,600	1,380
31	952	-----	1,540	616	-----	662	-----	4,330	-----	1,060	1,190	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	972	932	957	58,800
November	993	678	922	54,900
December	1,540	744	1,010	62,100
January	2,060	504	1,230	75,600
February	6,470	416	2,490	139,000
March	5,370	572	3,040	187,000
April	11,200	631	4,260	253,000
May	9,210	2,790	5,160	317,000
June	11,000	3,330	7,790	404,000
July	4,440	1,060	2,130	131,000
August	1,720	1,060	1,480	91,000
September	1,660	892	1,330	79,100
The year	11,200	416	2,640	1,910,000

FALLS CREEK NEAR HETCH HETCHY, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 3, T. 1 N., R. 20 E., in Yosemite National Park, 300 feet above branch to Tueeulala Falls, one-fourth mile above Wapama Falls, and 2 miles northeast of Hetch Hetchy.

RECORDS AVAILABLE.—November, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,130 second-feet June 17 (gage height, 5.42 feet); no flow October 1 to November 12.

1915-1927: Maximum discharge, 1,240 second-feet June 10, 1917 (gage height, 5.6 feet); no flow October 4 to November 30, 1921, September 3 to October 4, 1924, and August 26 to November 12, 1926.

REMARKS.—Records excellent except those for July 9 to August 10, which were estimated. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	146	31	35	117	106	549	407	463		4.3
2	0	140	32	47	102	178	484	343	512		4.0
3	0	125	38	51	84	300	512	440	446		3.9
4	0	104	43	61	76	193	587	668	375		4.4
5	0	86	43	42	68	164	647	775	327		4.9
6	0	80	48	47	72	148	567	867	327	35	5.5
7	0	70	61	50	90	131	388	965	306		4.8
8	0	58	48	49	99	114	272	820	286		4.0
9	0	47	52	49	80	98	247	710			3.6
10	0	47	58	47	70	80	303	844			3.2
11	0	48	49	44	67	72	400	867		20	2.9
12	0	51	46	35	78	68	512	940		18	2.7
13	2.5	43	43	33	93	71	775	1,020		17	2.5
14	3.3	41	42	35	104	86	940	965		15	2.4
15	2.4	35	43	40	73	104	891	891		14	2.2
16	3.4	33	42	48	66	91	965	992		13	2.0
17	2.8	33	43	47	61	88	940	1,020		12	1.8
18	2.4	34	41	400	56	115	732	940		12	1.7
19	37	32	35	250	50	148	549	820		13	1.6
20	24	31	38	252	55	195	378	710	125	18	1.5
21	17	35	41	365	74	261	266	732		17	1.3
22	67	41	45	261	114	312	219	820		15	1.1
23	58	43	43	190	153	365	258	798		13	1.0
24	443	46	38	238	188	426	407	798		11	.9
25	193	38	36	203	206	512	626	798		9	.8
26	265	42	31	190	208	626	732	710		8	.8
27	159	43	34	166	183	626	530	626		6.5	.8
28	129	34	34	134	136	587	362	470		6	.7
29	244	31	35		119	606	272	394		5.5	.7
30	185	31	38		97	606	250	394		5	.6
31		32	36		86		315			4.6	
Month						Maximum	Minimum	Mean	Run-off in acre-feet		
November						443	0	61.3	3,650		
December						146	31	54.8	3,370		
January						61	31	41.5	2,550		
February						400	33	121	6,720		
March						208	50	101	6,210		
April						626	68	249	14,800		
May						965	219	513	31,500		
June						1,020	343	751	44,700		
July						512		191	11,700		
August							4.6	19.4	1,190		
September						5.5	.6	2.42	144		
The year						1,020	0	175	127,000		

• NOTE.—No flow in October.

CHERRY CREEK NEAR HETCH HETCHY, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 28, T. 2 N., R. 29 E., in Stanislaus National Forest, at abandoned sawmill camp, 3 miles by trail from Lake Eleanor, and $7\frac{1}{2}$ miles northwest of Hetch Hetchy.

DRAINAGE AREA.—114 square miles (above dam site in sec. 5, T. 1 N., R. 19 E.).

RECORDS AVAILABLE.—April, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,640 second-feet May 16 (gauge height, 8.52 feet); minimum, 0.3 second-foot October 8 and 9.

1910-1927: Maximum mean daily discharge, 7,000 second-feet January 30, 1911 (gauge height unknown); no flow September 6-12, 1910.

REMARKS.—Records excellent except those for November 11 to December 6, which were estimated. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.4	0.9		96	110	309	268	1,280	980	890	68	8
2.....	.6	.9		106	182	278	489	1,220	822	935	62	7
3.....	.6	.9		200	261	245	1,180	1,310	1,220	845	59	6.5
4.....	.5	.8	330	176	164	123	562	1,500	1,120	712	54	9
5.....	.4	.8		158	139	200	482	1,080	1,820	622	50	9
6.....	.4	.9		164	150	226	447	1,440	2,010	612	47	6.5
7.....	.3	.9	194	158	136	272	394	890	2,300	572	44	5.5
8.....	.3	.9	185	144	124	309	330	662	1,820	560	41	6
9.....	.3	.9	156	156	119	236	265	672	1,680	480	37	4.7
10.....	13	1.0	158	176	114	200	242	860	2,010	453	54	4.2
11.....	43		167	153	106	191	213	1,120	2,080	504	30	3.9
12.....	12		170	131	104	232	200	1,410	2,220	451	28	3.7
13.....	5		151	131	102	295	220	2,080	2,220	425	25	3.5
14.....	2.9		114	131	108	319	265	2,860	2,080	380	23	3.1
15.....	2.2		114	131	126	220	330	2,220	2,010	319	22	2.9
16.....	1.8		110	134	188	188	272	2,500	2,220	265	20	2.7
17.....	1.6		114	117	179	176	232	2,360	2,150	229	18	2.7
18.....	1.4		122	112	1,360	170	355	1,750	1,880	213	13	2.6
19.....	1.1		108	112	672	158	497	1,330	1,560	200	18	2.4
20.....	1.0		102	119	572	182	572	912	1,360	185	18	2.2
21.....	1.0	270	104	126	1,000	248	734	682	1,440	167	19	2.0
22.....	1.0		112	114	632	373	912	532	1,500	153	19	1.9
23.....	1.0		106	108	444	474	1,050	755	1,360	142	13	1.7
24.....	1.0		104	106	612	540	1,280	1,200	1,250	139	16	1.6
25.....	.9		104	96	512	592	1,440	1,620	1,410	131	16	1.5
26.....	.8		96	98	489	612	1,080	1,620	1,280	119	14	1.4
27.....	.9		102	100	409	532	1,750	1,200	1,050	108	13	1.3
28.....	.8		100	114	340	362	1,500	800	734	98	12	1.2
29.....	.9		94	112		348	1,560	612	612	87	10	1.1
30.....	.8		98	106		278	1,470	662	712	80	9.5	1.0
31.....	.8		100	110		265		822		74	8.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	43	0.3	3.19	106
November.....		.8	181	10,800
December.....		94	183	10,000
January.....	390	96	129	7,930
February.....	1,360	102	338	18,800
March.....	612	158	296	18,300
April.....	1,750	200	707	42,100
May.....	2,500	552	1,290	79,300
June.....	2,360	612	1,580	94,000
July.....	935	74	360	22,100
August.....	68	8.5	28.1	1,730
September.....	9	1.0	3.66	218
The year.....	2,500	.3	422	305,000

LAKE ELEANOR NEAR HETCH HETCHY, CALIF

LOCATION.—Staff gage in NW. $\frac{1}{4}$ sec. 3, T. 1 N., R. 19 E., at dam at Lake Eleanor, $5\frac{1}{2}$ miles northwest of Hetch Hetchy. Crest of dam is at gage height 61.00 feet. Zero of gage is 4,600 feet above mean sea level.

RECORDS AVAILABLE.—October, 1919, to September, 1927.

EXTREMES.—Maximum stage during year, 61.0 feet majority of days from April 17 to August 1; minimum, 25.0 feet October 30.

1919-1927: Maximum stage, 61.0 feet, reservoir full, part of each year 1922 to 1927; no storage November 28 to December 21, 1921.

REMARKS.—When reservoir is full, waste gates on left end of dam are left open. Storage is drawn through gates near gage and flows down natural channel of Eleanor Creek.

Daily gage height, in feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	31.0	25.5	47.3	53.7	57.5	58.1	59.2	61.0	61.0	61.0	61.0	54.2
2.....	30.5	25.5	47.5	53.8	57.5	58.1	59.4	60.9	61.0	61.0	60.9	54.0
3.....	29.9	25.5	48.3	53.8	57.5	57.9	59.5	61.0	60.7	61.0	60.8	53.8
4.....	29.5	25.5	49.1	53.9	57.7	57.9	60.2	61.0	61.0	61.0	60.7	53.5
5.....	28.3	25.5	49.5	54.1	57.7	57.9	60.1	61.0	61.0	61.0	60.6	53.2
6.....	28.5	25.4	50.3	54.3	57.7	57.9	59.9	61.0	61.0	61.0	60.4	53.0
7.....	28.3	25.4	50.5	54.7	57.5	58.0	60.0	60.8	61.0	61.0	60.2	52.7
8.....	28.1	25.4	51.1	55.0	57.5	58.3	60.3	60.8	61.0	61.0	60.1	52.4
9.....	28.0	25.4	51.5	55.2	57.5	58.6	60.5	61.0	60.8	61.0	59.9	52.2
10.....	27.9	25.4	51.6	55.5	57.5	58.8	60.6	61.0	60.8	61.0	59.7	51.9
11.....	27.8	25.4	51.8	55.8	57.5	58.9	60.5	61.0	61.0	61.0	59.5	51.6
12.....	27.9	25.4	52.1	56.1	57.5	58.9	60.2	61.0	60.9	61.0	59.2	51.3
13.....	27.8	25.5	52.3	56.3	57.5	58.9	60.6	61.0	61.0	61.0	59.0	51.0
14.....	27.6	25.5	52.5	56.5	57.5	59.0	60.3	61.0	61.0	61.0	58.8	50.7
15.....	27.5	25.6	52.7	56.7	57.5	59.2	60.3	61.0	60.9	61.0	58.6	50.5
16.....	27.5	25.6	52.7	56.8	57.6	59.2	60.8	61.0	61.0	61.0	58.4	50.2
17.....	27.4	25.7	52.7	57.0	57.7	59.1	61.0	61.0	61.0	61.0	58.1	49.9
18.....	27.2	25.7	52.8	57.2	57.7	59.0	60.8	60.8	61.0	61.0	57.9	49.6
19.....	27.0	25.8	52.9	57.3	59.0	59.0	60.8	60.8	60.9	61.0	57.6	49.3
20.....	26.9	26.1	53.0	57.4	59.0	58.9	61.0	61.0	60.7	61.0	57.4	49.0
21.....	26.9	26.6	53.1	57.5	59.0	58.9	61.0	60.4	60.9	61.0	57.1	48.7
22.....	26.8	27.0	53.2	57.5	59.0	58.9	61.0	60.7	61.0	61.0	56.9	48.5
23.....	26.7	27.5	53.3	57.5	58.8	59.0	61.0	60.5	61.0	61.0	56.6	48.1
24.....	26.5	30.5	53.4	57.5	58.4	59.3	61.0	60.8	61.0	61.0	56.4	47.8
25.....	26.3	38.0	53.4	57.5	58.4	59.4	61.0	61.0	61.0	61.0	56.1	47.5
26.....	26.1	39.0	53.5	57.5	58.4	59.5	61.0	60.9	60.9	61.0	55.9	47.2
27.....	25.8	42.3	53.5	57.5	58.3	59.6	61.0	60.9	60.9	61.0	55.6	46.9
28.....	25.4	43.5	53.5	57.5	58.3	59.6	60.9	60.8	60.9	61.0	55.4	46.6
29.....	25.2	44.7	53.6	57.5	58.4	59.4	60.9	60.5	60.9	61.0	55.1	46.3
30.....	25.0	46.3	53.7	57.5	58.4	59.3	61.0	61.0	60.9	61.0	54.8	46.0
31.....	25.5	53.7	53.7	57.5	58.4	59.2	61.0	61.0	61.0	61.0	54.5	45.7

ELEANOR CREEK NEAR HETCH HETCHY, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 3, T. 1 N., R. 19 E., in Yosemite National Park, one-third mile below Lake Eleanor Dam and $5\frac{1}{2}$ miles northwest of Hetch Hetchy.

DRAINAGE AREA.—79 square miles (above dam site in sec. 3, T. 1 N., R. 19 E.). RECORDS AVAILABLE.—November, 1909, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,840 second-feet May 14 (gauge height, 6.60 feet); minimum, 0.4 second-foot November 20, caused by regulation.

1909-1927: Maximum discharge, 5,000 second-feet January 30, 1911 (gauge height, 13.1 feet); no flow September 8-14, 1910.

REMARKS.—Records good. No diversions. Flow regulated by operation of gates in Eleanor Dam. There was 3,650 acre-feet in Lake Eleanor September 30, 1926, and 14,000 acre-feet September 30, 1927.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	145	6.5	1.9	44	91	378	360	720	517	196	34	131
2.	141	6.5	1.7	44	114	336	469	652	608	374	49	136
3.	140	6.5	1.7	27	174	306	898	675	426	388	74	136
4.	145	6.5	1.5	4.1	223	265	925	698	675	276	80	136
5.	95	6.5	1.3	4.1	185	166	675	820	770	200	89	134
6.	28	6.5	1.3	4.7	162	147	458	770	795	162	90	144
7.	29	6.5	1.7	4.7	145	145	300	505	925	174	96	133
8.	30	6.5	1.5	4.5	128	164	324	402	952	187	98	133
9.	30	6.5	1.5	4.3	114	211	351	364	770	207	123	140
10.	30	6.5	1.5	6.5	106	231	336	395	745	205	133	145
11.	16	7	1.5	11	100	228	370	505	795	203	113	143
12.	28	7.5	1.5	15	94	203	120	675	820	200	126	143
13.	44	7.5	3.1	19	91	231	367	745	898	187	123	143
14.	34	7.5	22	23	112	327	315	1,150	870	162	120	143
15.	27	7.5	68	27	150	315	73	1,090	745	140	126	141
16.	27	7	59	34	194	273	166	1,060	745	96	128	143
17.	27	7	40	44	209	244	523	1,150	770	65	126	145
18.	27	7	24	59	745	226	290	925	745	68	133	145
19.	28	7.5	20	74	1,010	200	337	608	630	70	136	145
20.	27	3.9	26	109	795	196	589	652	458	80	134	145
21.	32	1.5	33	112	898	205	430	493	416	101	136	143
22.	35	1.9	33	106	925	249	845	430	509	90	134	143
23.	39	2.1	32	101	675	360	870	306	553	59	134	143
24.	35	6.5	37	98	630	461	1,060	378	489	50	133	141
25.	34	3.3	42	92	630	545	870	820	448	44	133	141
26.	35	8.5	42	92	565	577	898	720	448	44	133	141
27.	34	8.5	42	93	513	565	925	745	388	42	131	140
28.	34	5.5	42	99	434	465	820	698	309	38	130	145
29.	19	3.1	42	101	-----	412	745	234	211	38	130	150
30.	7	2.1	43	98	-----	354	745	303	147	38	130	150
31.	7	-----	43	94	-----	321	-----	469	-----	37	128	-----
Month					Maximum	Minimum	Mean	Run-off in acre-feet				
October					145	7	45.5	2,800				
November					8.5	1.5	5.91	352				
December					68	1.3	23.0	1,410				
January					112	4.1	53.2	3,270				
February					1,010	91	365	20,300				
March					577	145	301	18,500				
April					1,060	73	548	32,600				
May					1,130	234	651	40,000				
June					952	147	619	36,800				
July					338	37	136	8,360				
August					136	34	116	7,130				
September					150	131	141	8,390				
The year					1,180	1.3	249	180,000				

SOUTH FORK OF TUOLUMNE RIVER AT ITALIAN FLAT, NEAR SEQUOIA, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 29, T. 1 S., R. 19 E., at Italian Flat, $1\frac{1}{4}$ miles northeast of highway bridge on Big Oak Flat Road and $1\frac{1}{4}$ miles northwest of Sequoia.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 675 second-feet February 18 (gage height, 4.26 feet); minimum, 2.0 second-feet November 10.

1924-1927: Maximum discharge, that of February 18, 1927; minimum, 1.5 second-feet October 1, 1924.

REMARKS.—Records good; discharge estimated February 21 and 22. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2.8	2.5	50	31	30	135	302	310	169	47	14	8.5
2.....	4.1	2.5	46	28	38	127	310	310	154	44	15	8.5
3.....	4.1	2.5	44	28	119	121	307	327	173	42	15	9
4.....	4.1	2.5	39	27	154	116	302	344	206	59	14	12
5.....	3.6	2.5	33	28	77	106	250	344	211	38	14	12
6.....	3.0	2.2	33	38	64	106	225	318	222	37	13	9
7.....	2.8	2.2	31	32	57	111	211	257	222	36	12	8.5
8.....	2.8	2.2	23	32	50	132	200	218	201	33	12	8.5
9.....	3.0	2.2	22	32	47	119	186	301	178	32	11	7.5
10.....	3.6	2.0	21	62	44	103	172	211	169	31	10	7.5
11.....	6	2.8	20	61	43	97	162	242	169	30	10	7.5
12.....	5	12	20	42	41	97	151	244	177	27	10	7.5
13.....	4.1	12	21	38	41	106	146	344	178	26	10	7
14.....	3.0	6.5	23	36	74	135	146	362	159	26	11	7.5
15.....	3.0	4.6	26	34	138	109	154	353	148	25	11	7.5
16.....	3.0	4.1	28	38	205	101	154	361	138	24	11	7.5
17.....	3.0	4.1	26	32	108	97	140	327	124	22	10	7.5
18.....	2.8	4.1	26	33	442	94	145	293	111	21	10	7
19.....	2.8	12	23	33	228	89	157	256	100	20	11	6
20.....	2.8	13	28	41	162	89	170	222	90	19	10	6
21.....	2.8	6.5	24	38	229	92	196	185	88	18	9	6
22.....	2.8	13	24	31	289	106	225	164	82	18	9	6
23.....	3.0	15	22	30	180	129	259	167	74	17	9	6
24.....	3.0	212	24	32	220	146	302	215	70	17	9	6
25.....	2.8	71	31	28	203	154	336	242	66	16	9	6
26.....	2.8	206	24	31	191	154	344	227	65	16	9	6
27.....	2.8	235	25	28	170	151	327	205	61	15	8.5	6
28.....	2.8	70	30	32	143	130	318	175	57	15	8.5	6
29.....	2.5	83	31	33	-----	138	336	153	52	15	8.5	6
30.....	2.5	74	32	31	-----	129	318	149	50	15	8.5	6
31.....	2.5	-----	32	30	-----	154	-----	161	-----	15	8.5	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	6	2.5	3.22	196
November.....	235	2.0	36.1	2,150
December.....	50	20	28.2	1,730
January.....	62	27	34.5	2,120
February.....	442	30	134	7,440
March.....	154	59	118	7,369
April.....	397	140	235	14,000
May.....	361	149	235	15,790
June.....	222	50	132	7,660
July.....	47	15	25.7	1,630
August.....	15	8.5	10.7	606
September.....	12	6	7.40	449
The year.....	442	2.0	34.5	61,190

SOUTH FORK OF TUOLUMNE RIVER NEAR OAKLAND RECREATION CAMP, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 28, T. 1 S., R. 18 E., 20 feet below highway bridge on Big Oak Flat Road and half a mile southwest of Oakland Recreation Camp.

RECORDS AVAILABLE.—March, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,340 second-feet February 18 (gage height, 6.61 feet); minimum, 5 second-feet October 1 (gage height, 0.70 foot).

1923-1927: Maximum discharge, about 1,500 second-feet, revised, April 16, 1923 (gage height, 7.03 feet); minimum, 1.9 second-feet September 6-10, 1924.

REMARKS.—Records excellent except those for November 26 to December 1, which were estimated. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	6	7	70	29	40	171	445	335	178	50	18	11
2-----	7	7.5	66	30	47	158	490	328	168	47	18	11
3-----	8	7	63	32	159	148	580	358	174	45	18	11
4-----	8	7	56	32	242	145	430	365	206	43	17	14
5-----	7	7	50	34	124	132	345	376	212	42	17	14
6-----	6.5	7	50	51	94	128	295	358	220	40	16	12
7-----	6	7	48	44	78	129	268	278	222	37	16	12
8-----	6	7	42	42	67	153	250	240	214	36	15	12
9-----	6	7	38	40	62	144	236	222	188	35	15	12
10-----	7	7	37	71	58	127	220	226	176	34	15	12
11-----	10	8	37	82	55	176	208	252	176	32	14	12
12-----	11	22	36	53	55	116	196	295	179	31	14	12
13-----	9	28	31	48	53	123	190	365	188	30	14	12
14-----	7.5	18	28	45	118	168	188	385	166	28	15	12
15-----	7.5	14	30	44	275	136	194	373	156	28	15	12
16-----	7	12	32	46	320	127	199	391	148	27	14	12
17-----	7	12	32	40	187	122	181	360	134	26	14	12
18-----	7	11	33	40	757	118	183	310	120	26	14	12
19-----	7	21	30	43	365	112	194	264	108	24	14	11
20-----	7	24	28	62	260	110	203	230	97	24	14	10
21-----	7	17	32	54	332	111	222	203	92	23	13	10
22-----	7	23	30	44	342	122	248	183	87	23	12	10
23-----	8	29	28	41	260	141	280	174	77	22	12	10
24-----	8	250	21	42	278	161	320	210	72	22	12	9.5
25-----	7.5	98	31	39	258	169	358	244	67	21	12	9.5
26-----	7	295	28	42	240	172	382	246	65	21	12	10
27-----	7	335	24	39	218	168	365	214	60	20	11	9.5
28-----	7	100	28	42	190	145	340	192	56	20	11	9.5
29-----	7	120	30	46	-----	155	365	169	53	20	11	9.5
30-----	7	105	29	40	-----	147	350	153	51	19	12	9.5
31-----	7	-----	30	42	-----	178	-----	168	-----	19	12	-----
Month						Maximum		Minimum		Mean		Run-off in acre-feet
October-----						11		6		7.32		450
November-----						335		7		53.8		3,200
December-----						70		21		37.0		2,280
January-----						82		29		44.5		2,740
February-----						757		40		197		10,000
March-----						178		110		140		8,610
April-----						580		181		291		17,200
May-----						391		158		273		16,800
June-----						222		51		137		8,150
July-----						50		19		29.5		1,810
August-----						18		11		14.1		867
September-----						14		9.5		11.2		666
The year-----						757		6		102		73,800

MIDDLE FORK OF TUOLUMNE RIVER NEAR MATHER, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 15, T. 1 S., R. 19 E., at highway bridge 3 miles south of Mather.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum stage during year, 3.40 feet May 16 (discharge not determined); minimum discharge, 0.2 second-foot October 26–30.

1924–1927: Maximum stage, that of May 16, 1927; minimum discharge, 0.1 second-foot August 17, 1926.

REMARKS.—Records good except those for May 12 to June 19, which were estimated. There is a small irrigation diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	0.4	0.3	26	16	15	68	95	345		56	6.5	1.5
2.	.6	.3	24	16	20	61	115	345		51	6.5	1.5
3.	.7	.4	23	17	34	59	168	377		46	6	2.0
4.	.6	.4	21	16	36	56	140	389		42	6	2.8
5.	.5	.4	19	11	23	50	123	429		40	5.5	3.0
6.	.5	.4	20	11	23	50	115	405		38	4.8	2.8
7.	.4	.4	18	10	21	56	113	305		35	4.0	2.0
8.	.5	.4	13	10	20	62	109	246		34	3.8	1.8
9.	.5	.4	13	10	20	57	105	226		30	3.5	1.5
10.	.5	.4	15	20	20	51	99	250	250	28	3.0	1.5
11.	.7	.5	14	16	21	48	93	301		27	2.8	1.5
12.	.8	1.5	13	14	18	50	87			25	2.8	1.5
13.	.7	2.5	9	13	18	56	87			23	2.8	1.5
14.	.6	1.4	11	13	23	66	89			22	2.5	1.8
15.	.5	1.2	12	15	32	56	97			20	2.5	1.8
16.	.4	1.1	14	18	50	52	95			19	2.5	1.8
17.	.4	1.1	15	18	31	51	89			18	2.2	2.0
18.	.4	1.0	14	18	103	50	95			18	2.0	2.0
19.	.3	6	14	17	61	46	107			16	18	1.8
20.	.3	6	18	18	77	48	117		135	15	10	1.5
21.	.3	2.8	12	18	93	51	135	350	129	13	6	1.5
22.	.3	6	13	17	105	61	160		117	12	4.8	1.5
23.	.3	8	14	17	85	75	191		103	12	3.8	1.4
24.	.3	86	12	18	95	87	232		93	11	3.0	1.4
25.	.3	31	13	18	95	95	282		85	10	2.8	1.4
26.	.2	52	15	15	89	97	325		83	9	2.5	1.4
27.	.2	45	15	16	81	97	325		75	8.5	2.2	1.3
28.	.2	23	15	17	71	85	313		71	8	2.0	1.3
29.	.2	36	15	17		83	365		64	7.5	2.0	1.3
30.	.2	34	15	16		79	357		61	7	2.0	1.3
31.	.3		16	15		81				6.5	1.8	
Month	Maximum						Minimum		Mean		Run-off in acre-feet	
October	0.8						0.2		0.42		25.8	
November	86						.3		11.7		696	
December	26						9		15.5		953	
January	20						10		15.5		953	
February	195						15		49.3		2,740	
March	97						46		64.0		3,940	
April	365						87		161		9,580	
May									343		21,100	
June							61		192		11,400	
July	56						6.5		22.8		1,400	
August	18						1.8		4.21		259	
September	3.0						1.3		1.71		102	
The year							.2		73.4		53,100	

MIDDLE FORK OF TUOLUMNE RIVER NEAR BUCK MEADOWS, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 28, T. 1 S., R. 18 E., 800 feet below Hog Ranch Road highway bridge, half a mile above junction with South Fork of Tuolumne River, and 4 miles east of Buck Meadows.

RECORDS AVAILABLE.—November, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, 766 second-feet May 17 (gauge height, 6.10 feet); minimum, 0.3 second-foot October 1.

1916-1927: Maximum discharge, 1,330 second-feet May 28, 1919 (gauge height, 8.15 feet); no flow September 4-14, 1924.

REMARKS.—Records excellent except those for November 4 to December 1, which were estimated. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.9	30	8.5	14	90	292	343	263	59	5.5	2.2
2	.4	.9	29	9	18	85	231	348	226	54	5.5	2.1
3	.6	.9	26	9	86	81	263	378	241	50	5	2.1
4	.8	.9	24	10	160	78	209	402	292	45	5	2.5
5	.6	.9	20	11	50	71	174	428	312	42	4.8	2.1
6	.6	.9	19	20	39	70	155	428	322	39	4.7	2.4
7	.6	.9	17	14	34	72	146	322	343	32	4.5	2.6
8	.5	.9	14	14	30	82	138	263	332	25	4.3	2.3
9	.5	.9	11	14	28	80	131	249	282	24	4.2	2.0
10	.5	.9	13	25	26	70	122	263	282	22	3.8	2.0
11	.6	1.0	13	30	25	67	114	302	272	21	3.7	2.1
12	.8		12	18	24	66	109	354	272	20	3.4	2.0
13	.9		8.5	16	23	70	106	467	282	18	3.2	2.0
14	.9		7.5	14	115	101	107	532	263	17	3.2	2.0
15	.8		8	14	205	80	114	532	238	16	3.4	2.0
16	.8		10	16	182	75	118	534	227	15	3.1	2.0
17	.6		10	13	90	72	107	558	205	14	3.0	2.0
18	.6	8	11	14	353	69	111	480	184	13	3.0	2.1
19	.6		9	14	131	63	121	402	163	12	5.5	2.0
20	.6		8	28	118	66	131	332	142	11	9	1.8
21	.6		10	21	163	66	152	272	132	11	6	1.7
22	.7		8.5	15	184	73	182	240	122	10	4.7	1.6
23	.7		9	14	132	85	211	240	108	9.5	4.1	1.6
24	.8		6	15	141	96	252	292	100	9	3.6	1.5
25	.8		9.5	13	132	103	292	354	92	8	3.2	1.5
26	.8		9.5	15	121	106	332	354	87	8	2.9	1.5
27	.8	75	8	13	111	107	343	312	81	7.5	2.7	1.5
28	.8		8.5	16	96	95	312	263	74	6.5	2.5	1.5
29	.8		9	17		100	366	236	69	6.5	2.5	1.6
30	.8		9	15		92	366	238	64	6	2.4	1.6
31	.8		8.5	15		142		250		6	2.2	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.9	0.3	0.68	41.8
November		.9	21.0	1,250
December	30	6	12.8	787
January	30	8.5	15.5	963
February	353	14	101	5,610
March	142	63	83.0	5,100
April	366	106	194	11,500
May	584	236	355	21,800
June	343	64	202	12,000
July	59	6	20.5	1,260
August	9	2.2	4.02	247
September	2.6	1.5	1.93	115
The year	584	.3	83.9	60,700

SURFACE WATER SUPPLY, 1927, PART XI

WOODS CREEK NEAR JACKSONVILLE, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 12, T. 1 S., R. 14 E., 500 feet below Big Oak Flat highway bridge, $\frac{1}{2}$ miles above mouth, and $\frac{1}{2}$ miles northwest of Jacksonville.

RECORDS AVAILABLE.—October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,600 second-feet February 18 (gage height, 6.5 feet); minimum, 1.5 second-feet July 28 to August 19.

1925-1927: Maximum discharge, that of February 18, 1927; minimum, 0.2 second-foot July 16-26, 1926.

REMARKS.—Records good. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.5	3.5	62	25	44	129	2,890	33	22	3.3	1.5	2.5
2	4.0	3.5	48	26	63	113	935	36	24	3.3	1.5	2.5
3	4.0	3.5	47	26	906	108	1,170	40	23	3.3	1.5	2.5
4	3.5	4.0	44	26	914	98	874	39	22	3.7	1.5	2.5
5	3.5	4.0	40	24	292	84	250	27	20	3.7	1.5	2.5
6	3.0	4.0	42	128	154	73	225	24	19	4.1	1.5	2.5
7	3.0	4.0	53	131	136	71	165	28	19	4.1	1.5	2.5
8	2.5	4.0	45	62	120	73	146	27	24	4.6	1.5	2.5
9	2.5	4.0	40	48	115	90	150	25	23	4.1	1.5	2.5
10	3.0	4.0	35	153	110	92	127	27	21	4.1	1.5	2.5
11	3.5	4.0	33	132	107	72	110	28	20	3.7	1.5	2.5
12	3.5	13	31	83	99	65	102	27	18	3.7	1.5	2.5
13	3.5	14	29	87	93	65	104	25	16	3.3	1.5	2.5
14	3.5	10	24	53	246	394	102	28	16	3.3	1.5	2.5
15	3.5	6	25	56	680	132	94	28	15	2.9	1.5	2.5
16	3.5	6	26	148	525	108	94	27	14	2.9	1.5	2.5
17	3.5	5.5	25	112	410	94	87	23	12	2.5	1.5	2.5
18	3.5	5.5	22	80	1,820	79	87	22	12	2.5	1.5	2.5
19	3.5	20	20	73	382	74	67	22	11	2.3	1.5	2.5
20	3.5	19	20	844	250	73	61	24	9	2.3	2.5	2.5
21	3.5	9.5	36	234	595	73	55	24	8.5	2.1	2.5	2.5
22	3.5	12	38	112	690	67	49	24	7	2.1	2.5	2.5
23	3.5	12	36	86	286	67	49	24	6	1.9	2.5	2.5
24	3.5	95	29	86	283	61	38	22	5.5	1.9	2.5	2.5
25	3.5	66	25	87	212	61	33	22	4.5	1.7	2.5	2.5
26	3.5	433	25	74	183	55	29	20	4.5	1.7	2.5	2.5
27	3.5	600	27	93	165	55	29	21	4.1	1.7	2.5	2.5
28	3.5	223	24	69	144	55	28	31	4.1	1.5	2.5	2.5
29	3.5	242	22	69	-----	65	27	28	3.7	1.5	2.5	2.5
30	3.5	113	28	61	-----	56	27	24	3.7	1.5	2.5	2.5
31	3.5	-----	24	56	-----	312	-----	22	-----	1.5	2.5	-----
Month							Maximum	Minimum	Mean	Run-off in acre-feet		
October							4.0	2.5	3.42	210		
November							600	3.5	64.9	3,880		
December							62	20	32.9	2,020		
January							844	24	108	5,645		
February							1,820	44	360	20,000		
March							394	55	97.4	5,060		
April							2,390	27	240	14,300		
May							40	20	26.5	1,630		
June							24	8.7	13.7	615		
July							4.5	1.5	2.60	172		
August							2.5	1.5	1.89	116		
September							2.5	2.5	2.50	149		
The year							2,390	1.5	77.2	55,000		

MODESTO CANAL NEAR LA GRANGE, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 17, T. 3 S., R. 14 E., below waste gates, 500 feet below intake at La Grange Dam on Tuolumne River, and $1\frac{1}{2}$ miles northeast of La Grange.

RECORDS AVAILABLE.—April, 1903, to September, 1927.

EXTREMES.—1903-1927: Maximum discharge, 1,630 second-feet July 7, 1927.

REMARKS.—Records good. This canal diverts from right bank of Tuolumne River at the La Grange Dam. Water is used for irrigation in the Modesto irrigation district. Gage-height records furnished by Modesto Irrigation District.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	188	66	0	33	464	1,220	878	1,040	330	518
2.....	182	310	3	41	464	1,220	878	1,300	324	518
3.....	182	389	28	47	464	1,220	878	1,330	324	518
4.....	177	390	59	44	456	1,220	1,040	1,330	324	500
5.....	172	414	53	17	456	1,220	1,110	1,410	401	500
6.....	172	389	53	0	456	1,220	1,210	1,450	482	518
7.....	172	196	56	0	464	1,220	1,330	1,400	500	518
8.....	172	423	53	0	464	1,220	1,330	1,220	500	518
9.....	172	416	56	0	464	1,220	1,330	1,220	500	518
10.....	172	424	56	0	464	1,220	1,330	1,220	674	518
11.....	172	393	53	0	464	1,220	1,330	1,190	574	518
12.....	177	391	56	0	464	1,220	1,330	1,390	758	518
13.....	177	456	53	0	464	1,220	1,330	1,250	758	518
14.....	177	350	53	0	464	1,220	1,330	1,060	758	518
15.....	177	424	44	0	464	1,220	1,250	900	758	425
16.....	177	416	41	0	397	1,220	1,220	806	758	538
17.....	177	386	38	0	377	1,220	1,220	806	710	518
18.....	177	416	38	0	377	1,140	1,220	806	664	518
19.....	177	410	38	0	377	1,110	1,220	666	664	518
20.....	177	380	41	0	377	1,110	1,220	356	642	500
21.....	177	400	41	0	377	884	1,220	350	642	500
22.....	177	489	41	0	377	782	996	370	620	500
23.....	177	620	41	0	377	782	904	408	578	500
24.....	177	538	41	0	377	782	833	408	578	518
25.....	172	620	38	0	377	854	806	384	578	518
26.....	172	664	36	63	642	878	806	384	578	518
27.....	93	274	36	361	904	878	806	392	578	518
28.....	97	33	36	456	1,100	878	806	377	578	500
29.....	97	24	-----	456	1,220	878	806	370	578	518
30.....	89	18	-----	456	1,220	878	906	370	578	518
31.....	65	-----	-----	456	-----	878	-----	350	538	-----
Month	Maximum			Minimum			Mean		Run-off in acre-feet	
October.....	188			65			162		9,960	
November.....	664			18			371		22,100	
February.....	59			0			42.2		2,340	
March.....	456			0			78.4		4,820	
April.....	1,220			377			527		31,400	
May.....	1,220			782			1,080		66,400	
June.....	1,330			806			1,100		65,500	
July.....	1,450			350			849		52,200	
August.....	758			324			575		35,400	
September.....	538			425			511		30,400	
The year.....	1,450			0			442		321,000	

NOTE.—No flow in months omitted.

TURLOCK CANAL NEAR LA GRANGE, CALIF.

LOCATION.—Water-stage recorder near north line of NW. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 21, T. 3 S., R. 14 E., 2,400 feet below intake at La Grange Dam, and $1\frac{1}{4}$ miles northeast of La Grange.

RECORDS AVAILABLE.—July, 1899, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,040 second-feet July 5 (gage height, 9.30 feet); practically no flow for several months.

1907-1927: Maximum discharge, that of July 5, 1927; no flow during periods each year.

REMARKS.—Records good; discharge interpolated October 17 and 18. This canal diverts from left bank of Tuolumne River at La Grange Dam. Water is used for irrigation in the Turlock irrigation district and to supply town of La Grange. Gage-height record furnished by Turlock Irrigation District, through R. V. Meikle, chief engineer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	770	364	---	272	1,600	1,790	1,760	634	224
2.....	781	120	169	182	1,620	1,790	1,410	634	554
3.....	762	---	442	628	1,650	1,790	756	626	564
4.....	399	---	446	699	1,740	1,790	990	640	526
5.....	364	---	454	701	1,740	1,790	1,550	764	534
6.....	368	---	446	700	1,740	1,790	1,410	962	564
7.....	364	---	460	712	1,740	1,790	1,410	900	382
8.....	368	---	477	706	1,790	1,790	1,530	924	143
9.....	375	---	474	805	1,790	1,790	1,560	924	134
10.....	364	---	449	173	1,790	1,760	1,550	972	133
11.....	382	---	365	174	1,790	1,689	1,640	1,060	120
12.....	382	---	350	214	1,790	1,790	1,690	919	331
13.....	381	---	566	287	1,790	1,760	1,710	914	508
14.....	377	---	615	695	1,790	1,790	1,790	872	635
15.....	376	---	631	700	1,790	1,740	1,790	891	930
16.....	366	---	613	714	1,790	1,790	1,740	897	802
17.....	368	---	610	566	1,790	1,740	1,710	926	769
18.....	370	---	606	298	1,740	1,680	1,440	920	785
19.....	373	---	605	282	1,790	1,760	459	604	786
20.....	230	---	574	282	1,790	1,790	623	630	794
21.....	252	---	592	298	1,790	1,740	715	592	798
22.....	252	---	720	413	1,790	1,850	859	618	790
23.....	246	---	703	605	1,790	1,790	862	640	799
24.....	217	---	732	922	1,760	1,790	734	636	799
25.....	244	---	710	1,040	1,790	1,790	740	630	780
26.....	257	---	741	1,180	1,790	1,766	734	702	789
27.....	314	---	640	1,430	1,790	1,510	762	828	787
28.....	335	---	571	1,540	1,790	1,790	740	796	713
29.....	331	---	568	1,540	1,790	1,740	762	722	665
30.....	346	---	504	1,670	1,790	1,740	696	464	661
31.....	352	---	200	---	1,790	---	614	285	---

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	781	217	376	23,100
November.....	364	---	18.1	953
March.....	741	---	517	31,800
April.....	1,570	173	672	40,000
May.....	1,790	1,000	1,760	108,000
June.....	1,850	1,510	1,760	105,000
July.....	1,790	489	1,190	73,200
August.....	1,060	285	759	46,700
September.....	980	120	606	36,100
The year.....	1,850	---	643	465,000

NOTE.—On days for which no discharge is given there was a small flow past gage to supply town of La Grange.

STANISLAUS RIVER BASIN

MIDDLE FORK OF STANISLAUS RIVER AT SAND BAR FLAT, NEAR AVERY, CALIF.

LOCATION.—Staff gages in sec. 24, T. 4 N., R. 16 E., at diversion dam of Sierra & San Francisco Power Co. at Sand Bar Flat, 11 miles above junction with North Fork of Stanislaus River and 11 miles southeast of Avery.

DRAINAGE AREA.—329 square miles.

RECORDS AVAILABLE.—September, 1905, to September, 1927.

EXTREMES.—1905-1927: Maximum mean daily discharge, 9,760 second-feet March 19, 1907; minimum, 30 second-feet August 24, 1924.

REMARKS.—Philadelphia ditch diverts water from South Fork of Stanislaus River below Strawberry and empties into Middle Fork above station. Relief Reservoir (capacity, 16,000 acre-feet) on Relief Creek, about 1 mile above mouth of creek, is used to store water. Complete record furnished by Pacific Gas & Electric Co., through A. H. Markwart, vice president.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	106	52	412	190	181	799	723	2,580	1,520	1,340	375	176
2.....	106	52	463	194	229	709	857	2,380	1,400	1,420	350	172
3.....	129	52	420	406	277	655	1,460	2,290	1,620	1,370	345	168
4.....	111	53	344	400	285	647	1,300	2,520	2,050	1,230	348	254
5.....	109	51	302	359	319	602	1,180	3,020	2,300	1,080	347	276
6.....	106	58	294	368	297	589	1,130	2,670	2,510	1,090	327	297
7.....	106	44	273	314	291	603	1,100	1,100	2,420	1,070	316	298
8.....	105	46	285	254	263	726	1,020	1,740	2,140	1,070	800	283
9.....	106	47	245	259	235	653	897	1,630	2,150	993	290	232
10.....	100	46	245	292	200	561	806	1,670	1,960	1,060	291	244
11.....	110	47	225	293	196	554	876	1,770	1,860	1,090	298	239
12.....	124	58	229	233	210	399	966	2,040	2,460	1,010	299	237
13.....	116	61	213	241	217	610	683	2,610	2,690	1,030	296	233
14.....	110	65	193	231	227	796	682	3,060	2,660	952	293	236
15.....	108	61	182	217	297	617	717	3,020	2,920	821	290	234
16.....	64	65	209	270	332	537	744	3,050	2,650	632	292	237
17.....	62	65	195	234	322	532	679	3,240	2,700	563	296	234
18.....	58	65	247	191	1,050	535	723	2,950	2,460	592	299	236
19.....	80	67	219	256	926	538	894	2,700	2,170	600	297	232
20.....	54	104	212	251	793	426	946	2,210	1,940	574	278	230
21.....	54	78	222	212	1,660	466	1,130	1,810	2,010	553	298	228
22.....	51	81	226	148	1,610	547	1,360	1,540	2,130	556	286	256
23.....	52	135	229	174	1,060	747	1,520	1,370	1,970	555	294	253
24.....	52	1,070	204	181	1,030	820	1,960	1,630	1,980	569	296	294
25.....	52	409	206	185	890	919	2,330	2,070	2,010	531	295	303
26.....	48	472	191	185	1,150	956	2,670	2,340	1,950	505	291	275
27.....	48	539	198	187	1,140	1,010	3,060	1,840	1,570	541	300	300
28.....	48	364	204	223	908	812	2,680	1,670	1,230	456	296	302
29.....	48	688	210	194	-----	778	2,850	1,500	1,060	438	264	74
30.....	48	629	207	181	-----	638	2,840	1,420	1,170	429	280	121
31.....	45	-----	176	184	-----	666	-----	1,390	-----	400	260	-----

Month	Maximum	Minimum	Mean		Run-off in acre-feet	
			Observed	Natural	Observed	Natural
October.....	129	45	89	58	5,470	3,580
November.....	1,070	44	187	192	11,100	11,400
December.....	463	176	248	232	15,200	14,800
January.....	406	148	242	228	14,900	14,000
February.....	1,660	181	593	554	32,900	30,700
March.....	1,010	399	660	536	40,600	39,100
April.....	3,060	679	1,359	1,252	80,900	74,500
May.....	3,240	1,370	2,188	1,991	134,600	122,400
June.....	2,920	1,060	2,055	2,007	122,300	119,400
July.....	1,420	400	810	764	49,500	44,700
August.....	375	260	298	303	18,300	18,600
September.....	303	74	240	288	14,300	17,100
The year.....	3,240	44	746	700	540,400	506,800

NOTE.—Natural mean discharge and run-off determined by deducting water diverted from South Fork of Stanislaus River into the Middle Fork and correcting for storage in Relief Reservoir.

STANISLAUS RIVER NEAR KNIGHTS FERRY, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 1, T. 1 S., R. 12 E., 300 feet above old Tulloch Dam, 2 miles above Goodwin Dam, and 6 miles above Knights Ferry.

RECORDS AVAILABLE.—December, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,840 second-feet May 17 (gage height, 6.75 feet); minimum, about 1 second-foot October 1–24 and November 10–19 (water being stored at Melones Dam).

1915–1927: Maximum discharge, about 25,200 second-feet February 6, 1925 (gage height, 12.63 feet); minimum, 1 second-foot part of August to November, 1926.

REMARKS.—Records good above 100 second-feet and fair below; discharge estimated October 1–24, November 10–19, and July 26–30. Numerous diversions above station. Flow is partly regulated by storage in drainage basins of Middle Fork, North Fork, South Fork, and at Melones Dam.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1	252	31	23	704	3,120	5,610	5,930	2,920	952	1,010	836
2	1	252	31	23	748	2,520	6,170	5,450	3,220	1,000	1,090	814
3	1	252	31	23	2,670	2,090	7,200	5,930	3,430	1,200	1,180	814
4	1	252	31	27	4,290	2,520	6,900	5,930	3,320	1,850	1,000	814
5	1	245	31	151	2,920	2,050	4,890	6,600	3,960	1,320	976	803
6	1	239	27	526	1,850	1,800	4,180	6,900	4,750	1,580	968	803
7	1	227	35	484	1,360	1,860	3,850	5,100	5,450	1,550	847	803
8	1	227	18	445	1,100	1,950	3,430	3,850	5,930	1,170	1,030	803
9	1	135	10	430	988	2,140	3,220	3,220	5,100	1,290	1,130	803
10	1	1	10	468	892	1,930	2,720	4,180	4,750	1,170	1,080	781
11	1	1	10	415	847	1,710	2,520	4,290	4,980	1,220	1,100	792
12	1	1	10	704	770	1,630	2,420	4,640	4,750	1,320	1,120	770
13	1	1	10	814	759	1,650	2,210	5,930	5,450	1,200	1,080	770
14	1	1	10	814	1,200	2,160	1,950	7,300	5,690	1,130	847	770
15	1	1	10	803	2,620	2,190	2,050	7,450	5,210	1,090	836	770
16	1	1	14	928	2,920	1,880	2,420	7,800	5,330	1,100	858	781
17	1	1	14	1,030	2,620	1,730	2,160	8,460	5,210	1,000	858	770
18	1	1	18	880	5,900	1,630	2,090	7,000	4,070	988	847	770
19	1	1	18	781	5,930	1,520	2,320	6,170	4,290	976	836	770
20	1	11	14	1,260	3,850	1,430	2,620	5,100	4,640	1,010	825	770
21	1	18	31	1,230	5,180	1,430	2,820	3,960	3,320	1,340	825	770
22	1	27	52	1,000	7,300	1,520	3,850	3,320	3,120	1,180	814	759
23	1	31	31	825	5,100	1,850	4,180	2,720	3,320	1,100	836	759
24	1	231	27	770	4,070	2,190	4,860	3,120	2,820	964	836	759
25	68	73	18	759	3,740	2,520	6,170	4,070	2,180	940	836	759
26	168	418	18	748	3,220	2,620	6,900	5,100	1,760	950	836	737
27	239	468	18	803	3,430	3,820	7,200	4,640	1,710	960	847	748
28	239	109	18	759	2,920	2,620	6,600	3,430	1,690	970	847	748
29	252	114	18	715	-----	2,320	6,600	2,620	1,660	980	847	737
30	239	52	18	660	-----	2,190	6,600	2,620	1,360	990	847	737
31	245	-----	23	715	-----	2,180	-----	2,820	-----	1,000	836	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	252	1	47.5	2,920
November	468	1	121	7,200
December	52	10	21.1	1,300
January	1,260	23	646	39,700
February	7,300	704	2,850	158,000
March	3,120	1,430	2,060	127,000
April	7,200	1,950	4,220	251,000
May	8,460	2,620	5,020	309,000
June	5,930	1,360	3,850	229,000
July	1,850	940	1,140	70,100
August	1,130	814	926	56,900
September	836	737	777	46,200
The year	8,460	1	1,780	1,300,000

SOUTH SAN JOAQUIN CANAL NEAR KNIGHTS FERRY, CALIF.

LOCATION.—Water-stage recorder in sec. 15, T. 1 S., R. 12 E., three-fourths mile below head gate at Goodwin Dam on Stanislaus River and 4 miles above Knights Ferry.

RECORDS AVAILABLE.—May, 1914, to September, 1927. Also miscellaneous measurements and rough estimates for 1913.

EXTREMES.—Maximum discharge during year, 1,030 second-feet May 9 (gauge height, 8.40 feet); no flow several months during winter.

1914-1927: Maximum discharge, 1,080 second-feet May 18, 1922 (gauge height, 8.43 feet); no flow several months each year.

REMARKS.—Records excellent. This canal diverts from right bank of Stanislaus River at Goodwin Dam. The water is used for irrigation in the Oakdale and South San Joaquin irrigation districts. Gauge-height record furnished by South San Joaquin Irrigation District.

Daily and monthly discharge, in second-feet, 1926-

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	319	0	265	983	983	789	856	645
2	0	284	0	220	983	983	805	872	645
3	0	278	0	284	983	983	853	938	629
4	0	175	0	326	983	966	821	823	613
5	0	57	0	319	983	983	837	754	613
6	0	0	0	403	983	983	869	785	629
7	0	0	0	462	983	983	949	645	629
8	0	0	0	462	983	983	933	763	629
9	0	0	0	462	983	983	983	914	613
10	0	0	332	447	966	983	966	890	613
11	0	0	552	403	983	983	983	866	597
12	64	0	432	432	983	983	983	895	597
13	134	0	375	447	983	983	949	877	597
14	388	0	278	447	983	983	869	652	597
15	552	0	151	417	983	983	853	597	597
16	552	0	98	354	983	1,000	853	693	613
17	613	0	80	347	983	983	805	677	613
18	693	0	80	347	983	983	757	661	613
19	677	0	40	375	983	983	757	645	629
20	677	0	0	403	983	983	752	645	629
21	693	0	0	403	966	983	983	629	645
22	693	0	0	514	983	983	966	613	645
23	693	0	168	613	966	983	917	629	645
24	645	0	522	613	983	837	709	629	645
25	661	0	552	758	983	821	709	645	645
26	661	0	582	853	983	821	741	645	629
27	661	0	629	853	983	837	850	645	613
28	661	0	537	933	983	837	848	645	613
29	582	-----	462	983	983	837	845	645	597
30	492	-----	462	983	983	837	860	645	613
31	432	-----	403	-----	983	-----	831	645	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
January	693	0	362	22,300
February	319	0	39.8	2,210
March	629	0	217	13,300
April	983	220	534	30,000
May	983	966	981	60,300
June	1,000	821	946	56,300
July	983	709	859	52,806
August	938	597	725	44,600
September	645	597	621	37,000
The year	1,000	0	440	319,000

NOTE.—No flow in months omitted.

OAKDALE CANAL NEAR KNIGHTS FERRY, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 10, T. 1 S., R. 12 E., 1,700 feet below head gate at Goodwin Dam on Stanislaus River and 4 miles above Knights Ferry.

RECORDS AVAILABLE.—May, 1914, to September, 1927. Also miscellaneous measurements and rough estimates for 1913.

EXTREMES.—1914-1927: Maximum mean daily discharge, 252 second-feet March 16, 1923; no flow during periods of each year.

REMARKS.—Records good. This canal diverts from left bank of the river at Goodwin Dam. The water is used for irrigation in the Oakdale irrigation district. Gage-height record furnished by Oakdale Irrigation District.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0	114	0	27	190	244	226	232	214
2.....	0	122	0	0	204	244	232	238	214
3.....	0	128	0	0	208	244	232	238	230
4.....	0	125	0	0	122	61	226	232	230
5.....	0	125	0	0	0	131	226	232	230
6.....	0	125	0	0	60	244	232	232	208
7.....	0	125	0	26	186	244	232	238	202
8.....	0	128	0	44	223	244	238	244	202
9.....	0	43	0	43	226	244	238	244	214
10.....	0	0	0	43	226	244	238	244	214
11.....	0	0	0	44	238	244	238	244	214
12.....	0	0	0	53	238	244	238	244	214
13.....	0	0	0	58	238	244	238	244	214
14.....	0	0	0	64	238	244	238	244	214
15.....	0	0	0	82	238	244	238	215	208
16.....	0	0	0	82	238	244	238	202	202
17.....	0	0	0	82	238	244	238	214	202
18.....	0	0	0	85	244	244	238	226	190
19.....	0	0	0	95	238	244	238	238	190
20.....	0	0	0	98	238	244	238	238	190
21.....	0	0	0	121	238	244	238	244	178
22.....	0	0	0	144	244	244	238	244	178
23.....	0	0	0	144	238	244	238	244	178
24.....	0	0	9	152	244	244	238	232	178
25.....	.1	0	36	156	244	244	229	232	172
26.....	37	0	36	173	244	244	220	226	178
27.....	70	0	36	178	244	244	232	214	190
28.....	95	0	35	187	244	244	232	214	190
29.....	109	0	35	190	244	244	232	220	190
30.....	114	0	50	190	244	238	232	226	190
31.....	114	-----	56	-----	244	-----	238	220	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	114	0	17.4	1,070
November.....	128	0	34.5	2,050
March.....	56	0	9.45	581
April.....	190	0	85.3	5,080
May.....	244	0	216	13,300
June.....	244	61	234	13,960
July.....	238	220	234	14,400
August.....	244	202	232	14,300
September.....	220	172	200	11,900
The year.....	244	0	106	76,600

NOTE.—No flow in months omitted.

CALAVERAS RIVER BASIN

CALAVERAS RIVER AT JENNY LIND, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 22, T. 3 N., R. 10 E., at highway bridge on Milton Road, a quarter of a mile southeast of Jenny Lind. North and South Forks unite 15 miles above station.

DRAINAGE AREA.—395 square miles.

RECORDS AVAILABLE.—January, 1907, to September, 1927.

EXTREMES.—Maximum discharge during year, 19,300 second-feet February 3 (gage height, 10.68 feet); no flow October 1 to November 23 and July 25 to September 30.

1907-1927: Maximum discharge, about 69,600 second-feet January 31, 1911; no flow during fall of 1913-1915, 1917-1922, and 1924-1927.

REMARKS.—Records good except those for June 12-23 and July 6-25, which were estimated. A small quantity of water is stored at Salt Springs Valley on Duck Creek for use in connection with gold dredging operations below Jenny Lind. Gage-height record furnished by city of Stockton.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1	0	215	42	150	434	2,620	126	47	9
2	0	145	42	143	374	2,710	122	45	9
3	0	131	42	3,630	423	3,910	118	47	8.5
4	0	107	47	5,980	380	2,190	114	44	8.5
5	0	82	50	1,300	342	1,270	106	41	8
6	0	88	547	852	290	904	102	37	7.5
7	0	196	595	700	252	704	100	32	7
8	0	123	250	560	244	589	108	34	6.5
9	0	88	167	476	267	554	104	40	6
10	0	72	238	410	266	484	96	40	5.5
11	0	65	445	358	230	416	90	37	5
12	0	62	242	320	206	365	86	36	4.5
13	0	54	170	295	194	333	84	34	3.6
14	0	52	136	490	926	297	79	32	2.8
15	0	50	180	3,340	530	274	72	30	2.0
16	0	47	153	3,130	392	320	69	28	1.4
17	0	46	200	2,440	336	284	65	26	1.3
18	0	46	153	5,230	295	246	62	24	1.2
19	0	46	130	1,940	248	238	62	22	1.1
20	0	45	318	1,160	222	238	62	20	1.0
21	0	43	425	1,490	206	230	62	18	.8
22	0	52	264	1,940	190	223	61	16	.6
23	0	55	193	1,120	174	209	60	15	.4
24	867	55	160	1,020	162	189	57	14	.2
25	590	52	136	789	150	180	53	14	0
26	1,470	51	170	658	136	177	49	13	0
27	3,560	51	272	574	126	160	47	11	0
28	1,160	47	193	494	118	150	53	12	0
29	874	45	272	-----	132	140	61	12	0
30	390	42	208	-----	136	134	55	11	0
31	-----	42	170	-----	136	-----	51	-----	0
Month	Maximum		Minimum		Mean		Run-off in acre-feet		
November	3,560		0		297		17,700		
December	215		42		74.0		4,550		
January	595		42		212		13,000		
February	5,980		143		1,460		81,100		
March	926		118		275		16,900		
April	3,910		134		691		41,100		
May	128		47		78.6		4,830		
June	47		11		27.7		1,650		
July	9		0		3.27		201		
The year	5,980		0		260		181,000		

NOTE.—No flow in months omitted.

BEAR CREEK BASIN

BEAR CREEK NEAR CLEMENTS, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 28, T. 4 N., R. 8 E., 1 mile south of Clements.

RECORDS AVAILABLE.—October, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 755 second-feet February 3 (gage height, 8.6 feet); no flow October 1 to November 24, December 14 to January 5, and April 29 to September 30.

REMARKS.—Records good; discharge estimated November 25. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
1-----	0	3.6	0	4.3	10	21	16-----	0	0	20	262	6	1.7
2-----	0	4.5	0	7.5	8.5	22	17-----	0	0	17	66	4.9	1.7
3-----	0	13	0	316	16	166	18-----	0	0	7.5	364	4.1	1.2
4-----	0	4.3	0	292	16	32	19-----	0	0	6	76	3.2	1.1
5-----	0	2.2	0	69	9.5	13	20-----	0	0	48	48	2.4	1.1
6-----	0	1.4	233	104	6.5	7	21-----	0	0	18	66	2.2	1.1
7-----	0	3.6	42	43	5.5	5	22-----	0	0	8.5	79	2.0	1.1
8-----	0	2.2	16	23	5	3.9	23-----	0	0	5.5	32	1.8	1.1
9-----	0	1.0	9	17	5.5	3.4	24-----	0	0	4.5	74	1.6	.6
10-----	0	.3	53	12	6.5	2.6	25-----	55	0	4.1	42	1.6	.5
11-----	0	.2	30	10	4.5	2.2	26-----	148	0	16	24	1.2	.3
12-----	0	.1	14	8.5	4.1	2.2	27-----	160	0	27	18	1.1	.2
13-----	0	.1	8	7.5	3.9	2.0	28-----	40	0	13	13	1.1	.1
14-----	0	0	4.3	89	29	1.4	29-----	19	0	12	-----	1.0	0
15-----	0	0	7.5	298	12	1.4	30-----	6.5	0	7	-----	1.4	0
							31-----	-----	0	5	-----	3.7	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November-----	160	0	14.3	851
December-----	13	0	1.18	72.6
January-----	233	0	20.5	1,260
February-----	364	4.3	88.0	4,890
March-----	29	1.0	5.86	360
April-----	166	0	9.90	589
The year-----	364	0	11.1	8,020

NOTE.—No flow during October and May to September.

BEAR CREEK NEAR LOCKEFORD, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 14, T. 3 N., R. 7 E., at highway bridge 3 miles south of Lockeford.

DRAINAGE AREA.—52 square miles.

RECORDS AVAILABLE.—October, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 916 second-feet February 4 (gage height, 10.22 feet); no flow October 1 to November 24, December 17 to January 5, and May 3 to September 30.

REMARKS.—Records good; discharge estimated November 25. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
1	0	4.3	0	4.9	10	29	0.2
2	0	2.8	0	6	9	37	1
3	0	12	0	294	13	212	9
4	0	6	0	398	20	46	0
5	0	3.0	0	57	10	15	0
6	0	1.7	234	104	7	8.5	0
7	0	1.7	79	46	6	6	0
8	0	3.3	20	26	5.5	4.8	0
9	0	1.6	11	18	6	3.9	0
10	0	.7	29	13	7	3.3	0
11	0	.4	37	10	6	2.7	0
12	0	.3	18	8.5	4.9	2.3	0
13	0	.3	10	7.5	4.0	2.8	0
14	0	.2	6.5	82	26	2.1	0
15	0	.1	6	390	14	1.9	0
16	0	.1	21	348	7	1.8	0
17	0	0	23	67	5.5	1.8	0
18	0	0	11	389	5	1.7	0
19	0	0	7	80	4.0	1.2	0
20	0	0	38	43	3.3	1.0	0
21	0	0	25	50	2.7	.9	0
22	0	0	11	80	2.4	.9	0
23	0	0	6.5	37	2.1	.8	0
24	0	0	5	78	1.9	.8	0
25	39	0	4.2	50	1.8	.5	0
26	175	0	6.5	28	1.6	.5	0
27	228	0	42	20	1.5	.4	0
28	71	0	15	14	1.6	.4	0
29	20	0	13	-----	1.6	.3	0
30	9	0	9	-----	1.5	.3	0
31	-----	0	6	-----	2.2	-----	0
Month	Maximum	Minimum	Mean	Run-off in acre-feet			
November	228	0	18.1	1,080			
December	12	0	1.24	76.2			
January	234	0	22.4	1,880			
February	398	4.9	98.2	5,450			
March	26	1.5	6.25	384			
April	212	.3	18.0	774			
May	.2	0	.01	.			
The year	398	0	12.6	9,140			

NOTE.—No flow in months omitted.

MOKELUMNE RIVER BASIN

NORTH FORK OF MOKELUMNE RIVER ABOVE MOORE CREEK, CALIF.

LOCATION.—Water-stage recorder in sec. 33, T. 8 N., R. 16 E., one-fourth mile below Salt Springs dam site and $3\frac{1}{4}$ miles above Moore Creek. Altitude, about 3,600 feet.

DRAINAGE AREA.—160 square miles.

RECORDS AVAILABLE.—September, 1926, to September, 1927.

EXTREMES.—Maximum discharge during period, about 4,500 second-feet May 16 (gage height, 10.81 feet); minimum, 6 second-feet October 29 to November 3.

REMARKS.—Records good; discharge estimated May 1-3. No record December 9 to March 2 and March 14 to April 30. A small amount of storage is maintained at Blue Lakes to increase low-water flow. Gage-height record and results of discharge measurements furnished by Pacific Gas & Electric Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Sept.	Oct.	Nov.	Dec.	Mar.	May	June	July	Aug.	Sept.
1.		16	8	520		1,700	1,490	1,060	120	146
2.		17	6	610		1,710	1,610	1,030	127	143
3.		14	6	535	430	1,820	2,080	920	127	131
4.		12	6.5	405	405	1,890	2,290	820	127	147
5.		11	6.5	340	370	2,010	2,500	780	122	145
6.		10	6.5	322	360	1,890	2,780	740	120	147
7.		9.5	7	286	392	1,270	2,780	682	117	143
8.		9	7	252	442	1,040	2,220	680	129	142
9.		8.5	7		392	1,070	2,360	578	125	53
10.		10	7		340	1,270	2,640	545	123	39
11.		22	8.5		313	1,420	2,640	530	139	38
12.		23	24		313	1,770	2,710	450	135	37
13.		17	40		392	2,390	2,850	438	135	36
14.		13	25			2,660	2,710	438	142	36
15.		12	17			2,660	2,710	375	140	35
16.		11	25			3,200	2,780	315	139	36
17.		10	29			2,920	2,570	275	146	36
18.		10	26			2,360	2,220	255	145	36
19.		9	166			2,030	2,030	237	158	36
20.		8.5	164			1,490	1,910	212	151	35
21.		8.5	87			1,180	2,030	191	151	35
22.		8.5	170			1,030	1,970	176	145	54
23.		28	277			1,000	1,850	176	148	85
24.		22	8.5	1,390		1,610	1,970	167	152	86
25.		20	8	521		2,090	1,850	153	152	86
26.		18	7.5	727		2,220	1,610	143	151	87
27.		17	7	712		1,670	1,260	137	149	87
28.		16	6.5	880		1,280	1,030	124	149	87
29.		16	6	1,040		1,100	980	134	147	87
30.		14	6	748		1,160	1,000	125	143	88
31.		6				1,330		124	148	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	23	8	10.8	664
November	1,390	6	221	13,200
May	3,200	1,000	1,750	108,000
June	2,820	980	2,110	126,000
July	1,060	124	418	25,700
August	158	117	139	8,550
September	147	35	79.8	4,720

NORTH FORK OF MOKELUMNE RIVER NEAR WEST POINT, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ sec. 17, T. 7 N., R. 15 E., $9\frac{1}{4}$ miles northeast of West Point. Blue Creek enters 1 mile below and Bear River 4 miles above station.

RECORDS AVAILABLE.—April, 1917, to September, 1918 (incomplete), and February, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 6,970 second-feet May 16 (gage height, about 12.2 feet); minimum, about 10 second-feet October 28 to November 11.

1917-1918, 1924-1927: Maximum discharge, 10,200 second-feet February 6, 1925 (gage height, 14.2 feet); minimum, 2.5 second-feet October 22 and 25-28, 1924.

REMARKS.—Records good except those for October 28 to November 11, November 24 to December 10, and April 26-30, which were estimated. No record August 24 to September 30. Storage in Blue Lakes and on Bear River is used during periods of low water to augment natural flow. Gage-height record and results of discharge measurements furnished by Pacific Gas & Electric Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1.....	47	10	700	238	302	952	898	3,080	2,220	1,190	144
2.....	49	10	740	268	378	898	1,130	3,100	2,220	1,160	144
3.....	45	10	680	1,220	565	795	1,920	3,810	2,960	1,040	144
4.....	48	10	640	925	512	770	1,320	3,430	3,500	898	142
5.....	38	10	560	620	426	680	1,190	3,720	3,750	845	137
6.....	36	10	500	582	410	680	1,190	3,360	4,280	795	136
7.....	36	10	480	478	378	748	1,160	2,090	4,280	748	134
8.....	38	10	420	443	362	845	1,100	1,680	3,380	702	144
9.....	39	10	380	426	347	748	925	1,780	3,380	640	140
10.....	50	10	360	512	329	640	820	2,200	3,880	600	147
11.....	62	10	347	478	311	600	748	2,600	3,750	600	155
12.....	64	28	378	410	317	620	702	3,800	4,010	530	153
13.....	56	68	332	394	305	795	702	4,480	4,140	512	151
14.....	48	30	302	378	347	1,010	748	4,860	4,010	495	186
15.....	44	20	297	410	410	748	898	4,980	4,010	426	160
16.....	43	30	291	443	530	660	820	5,240	4,010	369	156
17.....	42	35	302	362	478	620	725	4,660	3,750	329	166
18.....	38	30	305	362	1,780	582	845	3,720	3,260	299	166
19.....	37	217	288	362	1,190	548	1,080	3,080	2,800	275	176
20.....	36	262	275	378	2,320	530	1,260	2,140	2,620	252	168
21.....	36	136	286	347	2,860	565	1,560	1,630	2,580	231	164
22.....	26	226	278	308	1,970	748	2,100	1,420	2,580	209	162
23.....	23	443	278	317	1,260	952	2,490	1,500	2,270	207	162
24.....	22	1,750	278	317	1,190	1,160	3,080	2,600	2,420	200	-----
25.....	21	800	278	302	1,290	1,260	3,380	3,360	2,370	184	-----
26.....	20	1,000	301	308	1,400	1,320	3,800	3,810	1,970	172	-----
27.....	12	795	324	305	1,290	1,260	4,000	2,560	1,480	164	-----
28.....	10	550	347	362	1,040	980	3,300	1,760	1,190	153	-----
29.....	10	1,680	347	326	-----	898	3,600	1,620	1,070	168	-----
30.....	10	800	231	302	-----	795	3,600	1,580	1,100	155	-----
31.....	10	-----	233	311	-----	795	-----	1,870	-----	149	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	64	10	35.2	2,160
November.....	1,750	10	300	17,900
December.....	740	231	379	23,800
January.....	1,220	238	426	26,200
February.....	2,860	302	868	48,200
March.....	1,320	530	814	50,100
April.....	4,000	702	1,700	101,000
May.....	5,240	1,420	2,900	178,000
June.....	4,280	1,070	2,970	177,000
July.....	1,190	149	474	29,100
August 1-23.....	176	134	153	6,980
The period.....	-----	-----	-----	660,000

MOKELUMNE RIVER AT LANCHA PLANA, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 4, T. 4 N., R. 10 E., above the old Westmoreland Suspension Bridge, 1 mile east of Lancha Plana.

DRAINAGE AREA.—584 square miles.

RECORDS AVAILABLE.—June, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 7,540 second-feet May 17 (gage height, 10.1 feet); minimum, 21 second-feet November 2 and 7.

1926 and 1927: Maximum and minimum discharges, same as given above.

REMARKS.—Records good; discharge not determined for August and September. Several small ditches divert water for mining and irrigation above station. Power is developed on North Fork at the Electra plant and part of the water is diverted outside the drainage basin through Amador Canal. Flow is partly regulated by storage in Blue Lakes and Bear River and by the power plant at Electra.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1	50	22	1,300	299	514	1,780	2,090	3,900	2,460	1,270
2	64	21	1,190	282	577	1,670	3,040	3,530	2,250	1,290
3	82	22	1,380	1,010	1,260	1,520	4,810	3,900	3,000	1,170
4	50	22	929	1,320	2,630	1,420	3,840	3,920	3,420	948
5	42	22	736	850	1,260	1,320	2,980	4,200	3,780	888
6	41	22	738	1,000	1,130	1,180	2,620	4,390	4,280	866
7	54	21	768	920	973	1,280	2,460	2,850	4,740	790
8	59	22	629	726	849	1,330	2,300	2,260	3,970	744
9	41	22	602	589	770	1,320	2,030	2,310	3,150	699
10	54	23	456	688	698	1,170	1,780	2,520	4,130	646
11	59	24	460	897	630	1,060	1,740	2,860	4,060	616
12	65	54	420	744	633	1,030	1,540	3,360	3,950	573
13	71	98	485	577	547	1,120	1,440	4,480	4,380	517
14	64	181	446	560	736	2,000	1,420	5,580	4,530	472
15	67	82	404	558	1,510	1,500	1,570	5,110	4,020	504
16	67	56	326	639	1,680	1,290	1,590	5,690	4,240	434
17	71	62	328	734	1,920	1,180	1,350	5,890	4,020	274
18	71	32	381	578	3,930	1,120	1,460	4,390	3,640	268
19	62	52	366	560	3,340	1,020	1,640	3,700	2,930	310
20	46	366	352	660	2,630	977	1,850	2,690	2,680	293
21	41	221	380	666	4,480	1,040	2,070	2,160	2,660	330
22	37	212	370	572	4,500	1,090	2,560	1,800	2,860	220
23	38	363	356	458	3,060	1,350	2,940	1,710	2,400	290
24	38	2,060	286	578	2,490	1,600	3,500	2,420	2,480	134
25	38	1,820	330	518	2,440	1,790	4,200	3,340	2,460	117
26	28	1,330	327	520	2,460	1,920	4,910	3,900	2,280	185
27	26	2,380	294	504	2,460	1,850	5,310	3,000	1,800	186
28	25	1,260	304	456	2,020	1,660	4,040	2,130	1,380	138
29	25	1,890	332	693	-----	1,470	4,320	1,870	1,230	140
30	24	1,980	314	562	-----	1,380	4,550	1,960	1,170	172
31	22	-----	324	546	-----	1,420	-----	2,020	-----	162

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	82	22	49.1	3,020
November	2,380	21	492	29,300
December	1,380	286	526	32,300
January	1,320	282	654	40,200
February	4,500	514	1,860	108,000
March	2,000	977	1,380	64,800
April	5,310	1,350	2,730	162,000
May	5,890	1,710	3,340	205,000
June	4,740	1,170	3,140	182,000
July	1,290	102	498	30,600

MOKELUMNE RIVER NEAR CLEMENTS, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ sec. 15, T. 4 N., R. 8 E., at highway bridge 1 mile north of Clements.

DRAINAGE AREA.—631 square miles.

RECORDS AVAILABLE.—October, 1904, to September, 1927.

EXTREMES.—Maximum discharge during year, 7,870 second-feet May 17 (gage height, 14.28 feet); minimum, 16 second-feet November 2-4 and 8.

1904-1927: Maximum discharge, 25,500 second-feet March 19, 1907 (gage height, 22.0 feet); no flow July 9, August 15, and 20-23, 1924.

REMARKS.—Records good. See Mokelumne River near Lancha Plana for diversions and regulation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	43	17	1,390	313	526	1,710	1,950	3,820	2,250	1,200	70	178
2-----	54	16	1,200	273	586	1,530	2,910	3,470	2,130	1,220	132	146
3-----	89	16	1,400	714	1,220	1,440	3,750	3,750	2,840	1,120	180	183
4-----	52	16	1,020	1,320	2,840	1,370	4,200	3,820	3,280	922	152	109
5-----	51	17	798	879	1,300	1,270	3,050	4,040	3,680	878	173	88
6-----	38	17	730	1,140	1,220	1,400	2,630	4,360	4,040	855	184	118
7-----	45	17	820	963	1,040	1,200	2,430	2,980	4,680	765	106	182
8-----	66	16	649	728	855	1,220	2,250	2,250	4,040	742	85	178
9-----	43	17	596	575	810	1,270	2,010	2,190	3,190	698	126	187
10-----	46	18	644	634	720	1,150	1,710	2,370	4,040	675	186	83
11-----	64	19	460	914	675	1,040	1,590	2,700	3,960	652	173	66
12-----	64	29	424	745	630	990	1,440	3,190	3,960	550	155	54
13-----	73	52	442	575	610	1,040	1,370	4,200	4,440	502	162	58
14-----	66	167	444	522	742	1,770	1,340	5,480	4,520	472	168	61
15-----	73	92	400	538	1,530	1,420	1,400	5,160	3,960	504	88	62
16-----	60	73	374	642	1,710	1,220	1,530	5,480	4,200	464	162	67
17-----	62	49	271	765	1,890	1,120	1,820	6,160	3,960	318	168	56
18-----	77	33	360	610	3,610	1,050	1,940	4,520	3,610	278	169	60
19-----	62	32	384	573	3,750	990	1,470	3,750	2,980	338	178	54
20-----	43	193	317	675	2,630	968	1,710	2,770	2,630	318	172	56
21-----	38	245	363	698	4,120	968	1,890	2,130	2,560	312	164	60
22-----	35	158	375	630	4,840	1,010	2,370	1,770	2,770	253	84	77
23-----	33	215	346	518	3,190	1,220	2,770	1,590	2,310	248	158	105
24-----	35	1,340	320	558	2,490	1,420	3,330	2,250	2,370	210	164	134
25-----	35	2,350	283	558	2,370	1,590	4,040	3,190	2,370	120	168	78
26-----	33	1,350	326	558	2,370	1,710	4,840	3,610	2,190	217	186	54
27-----	24	2,490	252	566	2,370	1,710	5,320	2,980	1,710	214	197	100
28-----	21	1,460	287	490	1,950	1,590	4,200	2,250	1,340	200	192	110
29-----	20	1,730	292	698	-----	1,340	4,200	1,830	1,200	156	91	104
30-----	19	2,190	300	590	-----	1,270	4,520	1,710	1,120	188	202	72
31-----	18	-----	304	566	-----	1,240	-----	1,830	-----	183	240	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October-----	89	18	47.8	2,940
November-----	2,490	16	481	28,600
December-----	1,400	252	531	32,600
January-----	1,320	273	663	40,800
February-----	4,840	526	1,890	104,000
March-----	1,770	968	1,300	79,900
April-----	5,320	1,320	2,630	156,000
May-----	6,160	1,710	3,280	202,000
June-----	4,680	1,120	3,070	183,000
July-----	1,220	120	509	31,800
August-----	240	70	156	9,590
September-----	187	54	98.0	5,630
The year-----	6,160	16	1,210	877,000

SURFACE WATER SUPPLY, 1927, PART XI

MOKELUMNE RIVER NEAR VICTOR, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 34, T. 4 N., R. 7 E., 1 mile northeast of Victor.

RECORDS AVAILABLE.—July to September, 1927.

REMARKS.—Records fair. Between Victor and Clements there are diversions for irrigation. Flow is partly regulated by storage developed on headwaters of North Fork.

Daily and monthly discharge, in second-feet, 1927

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1.....		113	191	11.....		191	63	21.....	330	160	52
2.....		122	137	12.....		163	56	22.....	332	96	56
3.....		187	170	13.....		166	46	23.....	322	142	96
4.....		174	109	14.....		173	53	24.....	265	158	114
5.....		174	83	15.....		107	56	25.....	160	155	80
6.....		186	102	16.....		152	56	26.....	236	168	59
7.....		130	157	17.....		170	60	27.....	250	187	68
8.....		101	152	18.....		176	54	28.....	238	178	97
9.....		115	163	19.....		173	53	29.....	178	96	97
10.....		182	89	20.....		166	49	30.....	211	143	66
								31.....	211	223	---

Month	Maximum	Minimum	Mean	Run-off in acre-feet
July 21-31.....	380	160	253	5,520
August.....	223	96	156	9,590
September.....	191	46	89.5	5,230

MOKELUMNE RIVER AT WOODBRIDGE, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 34, T. 4 N., R. 6 E., at highway bridge a quarter of a mile northeast of Woodbridge.

DRAINAGE AREA.—648 square miles.

RECORDS AVAILABLE.—May, 1924, to September, 1927 (low-water records only, for 1924 and 1925).

EXTREMES.—Maximum discharge during year, 5,470 second-feet May 18 (gage height, 21.5 feet); minimum, 1.4 second-feet September 22 (gage height, 2.75 feet).

1924-1927: Maximum discharge, that of May 18, 1927; minimum, 0.9 second-foot September 3, 1924.

REMARKS.—Records good. Water is diverted by the Woodbridge Canal at the dam just above bridge for irrigation. There are many other diversions and several storage reservoirs.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.8	4.7	1,990	341	528	2,010	1,620	4,460	1,860	995	3.2	23
2	3.8	243	1,420	324	519	1,740	2,160	4,010	2,250	1,040	3.5	20
3	3.8	66	1,420	296	638	1,640	2,740	3,680	2,120	1,100	5	14
4	3.8	44	1,300	1,080	1,830	1,470	4,010	3,720	2,670	1,020	9	16
5	3.8	36	945	1,100	1,990	1,370	4,320	3,760	3,080	1,100	8	13
6	3.8	30	748	920	1,480	1,270	3,560	3,960	3,600	481	7.5	11
7	4.5	28	795	1,120	1,210	1,220	2,920	4,060	3,880	682	7.5	11
8	4.0	26	726	845	970	1,800	2,640	3,400	4,500	597	6	12
9	3.8	26	617	704	845	1,370	2,390	2,580	4,140	557	3.8	13
10	3.6	24	577	577	770	1,820	2,130	1,860	3,450	538	3.5	13
11	3.8	25	462	795	660	1,200	1,860	2,160	3,880	452	5.5	9.5
12	4.0	24	462	795	617	1,140	1,700	2,530	3,840	443	5.5	9
13	4.2	28	414	682	617	1,140	1,640	3,040	3,880	396	6	6
14	4.2	48	462	557	538	1,400	1,440	3,020	4,190	341	5.5	4.0
15	4.2	129	434	557	970	1,700	1,420	4,920	4,370	806	5.5	2.5
16	4.7	86	424	577	1,470	1,500	1,520	4,970	4,010	264	5.5	2.0
17	5.5	74	368	682	1,720	1,340	1,300	5,220	4,100	247	5.5	1.6
18	5.5	54	377	682	1,950	1,240	1,570	5,170	3,960	196	6	1.6
19	6	47	396	597	2,960	1,170	1,420	4,460	3,600	150	7.5	1.4
20	6	41	386	617	3,680	1,100	1,570	3,840	3,080	139	8.5	1.4
21	6	220	386	682	3,080	1,070	1,720	2,960	2,670	152	11	1.6
22	6	220	405	660	3,800	1,040	1,920	2,280	2,600	148	12	1.4
23	6	206	396	577	4,460	1,140	2,220	1,860	2,600	130	8.5	1.6
24	5.5	376	377	451	3,680	1,340	2,640	1,740	2,250	112	10	2.0
25	5	1,810	324	577	2,840	1,520	3,080	2,130	2,190	76	10	2.8
26	4.7	1,580	341	519	2,500	1,620	3,800	2,810	2,130	54	10	2.2
27	4.7	1,580	332	597	2,420	1,740	4,500	3,480	1,920	560	8.5	2.4
28	4.7	2,150	324	510	2,360	1,770	4,970	3,200	1,500	2.8	14	2.5
29	4.7	1,440	324	528	-----	1,620	4,550	2,530	1,070	2.8	16	3.2
30	4.7	2,030	350	638	-----	1,540	4,370	1,890	1,020	2.4	11	4.0
31	4.7	-----	332	538	-----	1,470	-----	1,800	-----	3.2	14	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	6	3.6	4.63	285
November	2,150	4.7	432	25,700
December	1,990	324	600	36,900
January	1,120	296	650	40,000
February	4,460	519	1,530	102,000
March	2,010	1,040	1,400	86,100
April	4,970	1,370	2,590	164,000
May	5,220	1,740	3,300	203,000
June	4,500	1,020	3,020	180,000
July	1,100	2.4	396	24,300
August	16	3.2	7.84	452
September	22	1.4	6.92	412
The year	5,220	1.4	1,180	853,000

SURFACE WATER SUPPLY, 1927, PART XI

MOKELUMNE RIVER NEAR THORNTON, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 12, T. 4 N., R. 5 E., $2\frac{1}{2}$ miles southeast of Thornton.

DRAINAGE AREA.—690 square miles.

RECORDS AVAILABLE.—July, 1926, to September, 1927 (low-water records only).

EXTREMES.—Minimum discharge during year, 8.5 second-feet October 7, 8, 31, and November 1.

1926-1927: Minimum discharge, 7.5 second-feet August 14 and September 25, 1926.

REMARKS.—Records good; discharge estimated November 2 and 3. Water is diverted by the Woodbridge Canal at Woodbridge. There are many other diversions and several storage reservoirs above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Aug.	Sept.	Day	Oct.	Nov.	Aug.	Sept.
1.....	9.5	8.5	39	25	16.....	9	104	19	15
2.....	10	100	35	30	17.....	9.5	90	18	15
3.....	9	112	31	27	18.....	9.5	77	17	13
4.....	9	61	31	24	19.....	9.5	68	17	13
5.....	9	44	30	24	20.....	9.5	54	18	13
6.....	9	37	29	22	21.....	10	106	19	12
7.....	8.5	33	27	21	22.....	10	228	20	12
8.....	8.5	31	27	21	23.....	10	191	20	12
9.....	9	30	24	21	24.....	10	238	20	12
10.....	10	28	22	22	25.....	10		21	13
11.....	10	28	22	22	26.....	10		22	13
12.....	9.5	31	21	20	27.....	10		22	13
13.....	9.5	29	21	19	28.....	9.5		24	13
14.....	9.5	33	21	18	29.....	9		25	13
15.....	9.5	87	21	16	30.....	9		25	13
					31.....	8.5		23	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	10	8.5	9.44	580
November 1-24.....	238	8.5	77	3,670
August.....	39	17	23.6	1,450
September.....	30	12	17.6	1,050

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 the Pacific Gas & Electric Co. Altitude, about 5,650 feet.

DRAINAGE AREA.—33 square miles.

RECORDS AVAILABLE.—July to September, 1927.

EXTREMES.—Maximum discharge during period, 96 second-feet July 3 (gage height, 2.25 feet); minimum, 6.5 second-feet September 22.

REMARKS.—Records good. About 6,000 acre-feet is stored each year at the reservoir above station and usually released between July and October. Gage-height record and results of discharge measurements furnished by Pacific Gas & Electric Co.

Daily and monthly discharge, in second-feet, 1927

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1.....		9	8	11.....	34	8.5	8	21.....	9.5	8.5	7
2.....		9	8	12.....	30	8.5	8	22.....	9	8.5	7
3.....	94	9	8	13.....	26	9	8	23.....	9	8.5	7
4.....	77	9	8	14.....	19	8.5	8	24.....	9.5	8.5	7
5.....	53	9	7.5	15.....	15	8.5	8	25.....	9	8.5	7
6.....	52	9	7.5	16.....	15	8.5	7.5	26.....	9	8.5	7
7.....	53	9	7.5	17.....	13	8.5	7	27.....	9	8.5	7
8.....	47	9	7.5	18.....	12	8.5	7	28.....	9	8	7
9.....	38	9	8	19.....	11	8.5	7	29.....	9	8	7
10.....	31	8.5	8	20.....	10	8.5	7	30.....	9	8	7
								31.....	9	8	
Month				Maximum		Minimum		Mean		Run-off in acre-feet	
July 3-31.....				94		9		25.2		1,450	
August.....				9		8		8.60		529	
September.....				8		7		7.45		443	

MIDDLE FORK OF MOKELUMNE RIVER AT WEST POINT, CALIF.

LOCATION.—Staff gage in sec. 10, T. 6 N., R. 13 E., below highway bridge 1 mile south of West Point and $3\frac{1}{2}$ miles above junction with South Fork. Prior to October 6, 1926, gage was 1,000 feet above bridge.

RECORDS AVAILABLE.—October, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,050 second-feet February 18 (gage height, 4.70 feet); minimum, estimated 0.5 second-foot October 1.

1911-1927: Maximum discharge, 2,550 second-feet January 23, 1914 (gage height, 10.0 feet); minimum, 0.2 second-foot August 18-23, 1924.

REMARKS.—Records good except those for October 1-5, November 27, and 28, which were estimated. Several diversions above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.5	3.5	75	22	42	176	505	166	59	16	5.5	3.5
2.....	3.0	3.5	61	24	68	157	450	157	66	16	5	3.5
3.....	2.6	3.5	55	25	218	148	950	148	53	16	5	3.5
4.....	2.3	3.5	47	24	265	140	486	140	51	16	4.7	3.5
5.....	2.0	3.5	40	24	140	140	320	140	51	16	4.7	3.2
6.....	1.7	3.5	47	27	112	125	265	140	51	15	4.7	3.2
7.....	1.7	3.5	42	53	110	122	240	140	49	15	4.3	3.2
8.....	1.7	3.5	38	40	92	140	240	140	57	14	4.3	3.2
9.....	1.7	3.9	32	34	80	132	218	119	51	14	4.3	3.2
10.....	4.7	3.9	31	82	66	119	229	118	47	13	3.9	3.2
11.....	6.5	6.5	26	61	57	113	208	107	44	13	3.9	3.5
12.....	4.7	24	27	44	54	110	186	107	42	12	3.9	3.5
13.....	2.9	12	25	37	51	119	176	110	38	11	3.9	3.5
14.....	2.0	5.5	23	32	104	197	166	116	35	11	3.9	3.5
15.....	2.6	7.5	22	40	197	157	176	119	32	11	3.5	3.5
16.....	2.6	6.5	20	49	252	140	176	119	30	11	3.5	3.5
17.....	2.3	6	20	45	306	132	166	119	28	11	3.5	3.5
18.....	2.3	6	26	42	726	125	157	107	27	10	3.5	3.5
19.....	2.3	12	22	40	350	118	157	99	26	9	3.2	3.5
20.....	2.3	8	21	80	265	110	148	99	25	9	3.2	3.5
21.....	2.9	6	20	57	524	106	157	96	25	8.5	3.2	3.2
22.....	2.9	11	19	45	416	113	157	88	24	8	3.2	3.2
23.....	3.2	13	22	40	265	118	157	75	23	7.5	3.2	3.2
24.....	3.2	116	23	35	252	119	166	66	22	6.5	3.2	3.2
25.....	3.2	197	23	34	240	120	186	63	22	6	3.2	3.2
26.....	3.2	416	22	31	218	120	208	63	20	6	3.2	3.2
27.....	3.2	450	21	32	208	122	197	85	20	5.5	3.5	3.2
28.....	3.2	150	21	70	186	122	176	80	19	5.5	3.5	3.2
29.....	3.5	125	20	61	-----	125	176	66	18	5	3.5	3.2
30.....	3.5	96	20	51	-----	122	166	59	17	5	3.5	3.2
31.....	3.5	-----	21	45	-----	197	-----	55	-----	5.5	3.5	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	6.5	0.5	2.84	175
November.....	450	3.5	57.0	3,390
December.....	75	19	30.1	1,850
January.....	82	22	42.8	2,630
February.....	726	42	209	11,600
March.....	197	106	132	8,120
April.....	950	148	246	14,600
May.....	166	55	107	6,580
June.....	66	17	35.7	2,120
July.....	16	5	10.6	652
August.....	5.5	3.2	3.84	236
September.....	3.5	3.2	3.34	199
The year.....	950	.5	72.1	52,200

SOUTH FORK OF MOKELUMNE RIVER NEAR RAIL ROAD FLAT, CALIF.

LOCATION.—Staff gage in sec. 34, T. 6 N., R. 14 E., at Laidet ranch, 5 miles above mouth of Licking Fork, and 5 miles east of Rail Road Flat.

RECORDS AVAILABLE.—October, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, 970 second-feet April 3 (gage height, 4.40 feet); minimum, 3.4 second-feet several days in October.

1911-1927: Maximum discharge, 3,330 second-feet January 25, 1914 (gage height, 6.9 feet); minimum, 1.4 second-feet several days in July, August, and September, 1924.

REMARKS.—Records good except those for July 1-18, which were interpolated. A small amount of water is used for irrigation at Laidet ranch.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.5	3.7	56	18	36	210	272	158	52	24	11	8.5
2	4.2	3.7	55	24	56	198	365	162	53	24	11	8.5
3	3.9	3.7	51	26	144	185	820	146	48	23	11	8.5
4	3.7	3.8	42	25	335	160	395	* 143	45	23	10	9
5	3.7	3.9	35	24	235	148	322	140	44	22	10	8.5
6	3.5	3.9	36	53	210	136	298	138	41	22	10	8
7	3.5	* 3.8	37	38	84	124	272	130	45	21	9	8
8	3.5	3.8	33	35	74	122	248	122	47	21	9	8.5
9	3.6	3.9	30	31	71	116	235	112	46	20	9	8.5
10	4.9	4.0	28	74	62	110	210	102	42	20	8.5	8
11	4.9	5	27	52	58	106	198	* 101	40	19	8.5	8.5
12	4.2	19	28	39	59	102	172	100	38	19	9	8.5
13	4.2	16	24	36	60	102	160	98	37	18	9	8.5
14	3.9	8	23	33	82	158	154	96	35	18	9	8.5
15	3.9	5.5	21	40	148	132	160	96	34	17	9	8
16	3.7	* 5.5	21	53	210	128	160	93	32	17	9	8
17	3.7	5.5	20	42	248	* 119	* 156	89	* 31	16	9	8.5
18	3.7	6	23	39	510	110	152	84	* 31	16	9	8.5
19	3.7	8.5	22	35	285	106	* 150	84	30	16	3.5	8
20	3.8	8	22	65	222	104	148	82	29	16	9	7.5
21	3.7	7	23	51	470	106	146	79	29	16	9	7.5
22	3.7	11	21	41	390	104	158	74	29	16	9	7
23	3.7	13	19	36	298	100	172	69	28	15	9	7.5
24	* 3.7	198	20	33	260	108	185	66	26	14	8.5	7
25	* 3.7	198	21	31	235	114	198	63	26	14	8.5	7.5
26	3.7	310	21	38	235	114	210	65	26	13	9	7
27	3.7	335	19	38	235	114	210	68	24	12	8.5	7.5
28	3.7	134	18	41	* 220	114	185	65	24	12	9	7.5
29	3.7	112	16	35	-----	116	172	60	24	12	8	7.5
30	3.8	79	18	34	-----	120	172	56	24	12	8.5	7.5
31	3.7	-----	18	35	-----	172	-----	53	-----	11	8.5	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	4.9	3.5	3.82	235
November	335	3.7	50.7	3,020
December	56	16	27.4	1,680
January	74	18	38.5	2,370
February	510	36	197	10,900
March	210	100	128	7,370
April	820	148	228	13,600
May	158	53	96.3	5,920
June	63	24	35.3	2,100
July	24	11	17.4	1,070
August	11	8	9.13	561
September	9	7	8.00	476
The year	820	3.5	68.8	49,800

* Interpolated.

WOODBIDGE CANAL AT WOODBRIDGE, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 34, T. 4 N., R. 6 E., at Woodbridge, a quarter of a mile below point of diversion.

RECORDS AVAILABLE.—April, 1926, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 220 second-feet July 7; no flow November 3 to May 4.

REMARKS.—Records fair. This canal diverts from a reservoir on Mokelumne River in sec. 34, T. 4 N., R. 6 E., in Woodbridge. The water is used for irrigation in the territory south and west of Woodbridge.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	May	June	July	Aug.	Sept.
1	36	9	0	167	215	132	138
2	38	3	0	139	135	109	126
3	40	0	0	161	143	112	117
4	50	0	0	183	182	120	120
5	51	0	54	195	25	128	110
6	46	0	64	154	185	128	97
7	39	0	78	153	220	136	97
8	34	0	27	140	210	122	105
9	33	0	0	146	187	104	120
10	32	0	57	149	187	101	128
11	29	0	122	149	180	112	96
12	35	0	150	149	195	124	73
13	39	0	148	155	190	130	64
14	45	0	185	163	178	135	60
15	48	0	170	169	178	133	48
16	50	0	160	192	208	114	48
17	48	0	185	205	174	115	50
18	46	0	164	205	160	116	51
19	48	0	147	180	154	121	52
20	46	0	147	163	173	118	52
21	42	0	147	168	175	122	52
22	39	0	155	177	166	120	51
23	34	0	132	190	156	113	52
24	30	0	140	170	137	120	64
25	28	0	148	210	121	130	68
26	26	0	143	210	115	134	57
27	24	0	139	180	20	136	52
28	20	0	135	167	8	138	57
29	16	0	126	175	68	128	57
30	13	0	127	215	90	114	57
31	11	0	153	-----	121	128	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	51	11	36.0	2,210
November	9	0	4	23.8
May	185	0	110	6,769
June	215	139	172	10,200
July	220	8	150	9,220
August	138	101	123	7,560
September	138	48	77.3	4,600
The year	220	0	56.0	40,000

NOTE.—No flow in months omitted.

DRY CREEK NEAR IONE, CALIF.

LOCATION.—Water-stage recorder near Sacramento-San Joaquin County line, at highway bridge at Forni ranch in Arroyo Seco grant, 7 miles southwest of Ione.

DRAINAGE AREA.—279 square miles.

RECORDS AVAILABLE.—October, 1911, to June, 1912, and December, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,050 second-feet April 3 (gage height, 10.90 feet); no flow October 1 to November 23 and June 17 to September 30.

1925-1927: Maximum discharge, that of April 3, 1927; no flow part of each year.

REMARKS.—Records good. Small diversions for local irrigation and mining above station: There is a small diversion from North Fork of Mokelumne River into the drainage basin of Dry Creek.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	0	126	18	129	240	823	72	17
2	0	86	16	180	214	1,220	74	13
3	0	83	26	1,060	256	2,810	67	9
4	0	54	31	2,240	222	1,870	62	5
5	0	47	23	708	195	800	57	7
6	0	49	653	613	177	635	54	7
7	0	94	418	463	168	478	62	7
8	0	62	190	353	162	380	64	7
9	0	47	133	274	198	353	58	7
10	0	34	222	281	195	310	46	8
11	0	30	238	200	156	284	44	7
12	0	27	154	168	140	267	42	6
13	0	25	126	151	146	231	35	5
14	0	22	102	204	706	201	25	3.0
15	0	20	105	1,720	871	193	26	1.8
16	0	18	206	1,480	282	245	22	1.0
17	0	17	180	1,010	240	189	18	0
18	0	18	128	2,200	214	169	22	0
19	0	19	114	1,160	177	151	20	0
20	0	18	250	830	160	134	20	0
21	0	22	206	915	150	127	22	0
22	0	31	152	988	138	120	22	0
23	0	36	129	698	130	108	19	0
24	1.0	43	114	570	123	101	12	0
25	91	31	98	463	118	97	11	0
26	412	28	151	371	109	83	4.2	0
27	914	26	206	308	105	83	6	0
28	655	24	198	265	104	83	21	0
29	382	22	240	-----	112	77	25	0
30	219	19	180	-----	109	76	20	0
31	-----	18	154	-----	121	-----	21	0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	914	0	89.1	5,800
December	126	17	38.6	2,370
January	653	16	166	10,200
February	2,280	129	716	39,800
March	706	104	192	11,800
April	2,810	76	409	24,300
May	72	4.2	34.6	2,130
June	17	0	3.69	220
The year	2,810	0	133	96,100

NOTE.—No flow in months omitted.

DRY CREEK NEAR GALT, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 34, T. 5 N., R. 6 E., 1 mile south of Galt, Sacramento County.

RECORDS AVAILABLE.—December 4, 1926, to September 30, 1927.

EXTREMES.—Maximum discharge during year, 3,370 second-feet April 4 (gage height, 9.06 feet); no flow June 15 to September 30.

REMARKS.—Records fair. Small diversions for irrigation and mining above station; also a small diversion from North Fork of Mokelumne River into the Dry Creek Basin.

Daily and monthly discharge, in second-feet, 1926-27

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1		6	146	302	194	68	12
2		6.5	138	255	896	67	8
3		6	280	246	1,650	64	5.5
4	61	24	2,130	274	2,610	58	2.7
5	35	23	1,340	218	1,310	53	.5
6	28	58	720	183	756	49	.2
7	48	688	612	167	548	50	.1
8	59	412	498	155	470	56	.2
9	36	197	416	166	426	56	1.0
10	24	152	349	192	385	48	1.6
11	18	341	284	166	345	38	.4
12	17	258	223	147	317	37	.4
13	14	154	189	140	261	35	.2
14	11	124	189	306	209	25	.1
15	6.5	106	804	540	184	21	
16	5	152	2,180	385	205	19	0
17	2.6	264	1,660	305	205	15	0
18	2.4	179	1,780	164	171	14	0
19	4.6	142	2,100	195	156	17	0
20	3.7	155	1,040	165	142	15	0
21	4.0	321	804	151	131	15	0
22	10	197	1,180	140	122	16	0
23	18	152	828	131	114	15	0
24	28	131	640	122	107	14	0
25	24	116	548	114	100	8.5	0
26	17	102	470	104	90	6.5	0
27	14	248	412	96	81	2.4	0
28	12	184	365	94	81	3.1	0
29	10	267		95	77	14	0
30	8.5	228		108	72	14	0
31	7.5	170		101		12	
Month	Maximum		Minimum	Mean		Run-off in acre-feet	
December 4-31	61		2.4	18.9		1,050	
January	688		6	179		11,000	
February	2,180		138	797		44,300	
March	540		94	191		11,700	
April	2,610		72	414		24,600	
May	68		2.4	29.9		1,840	
June	12		0	1.10		65.5	
The year						94,600	

NOTE.—No flow July, August, and September

SUTTER CREEK NEAR VOLCANO, CALIF.

LOCATION.—Water-stage recorder in sec. 22, T. 7 N., R. 12 E., 1 mile southwest of Volcano.

RECORDS AVAILABLE.—February, 1924, to September, 1927. Discontinued.

EXTREMES.—Maximum discharge during year, 810 second-feet April 3 (gage height, 4.20 feet); minimum, 1.0 second-foot August 19.

1924-1927: Maximum discharge, 1,560 second-feet February 6, 1925 (gage height, 5.3 feet); minimum, 0.1 second-foot September 11-15, 1924.

REMARKS.—Records good except those for March 17-23, May 15, 16, June 24, July 3, and 18-20, which were interpolated. There are several small diversions above station. Flow is regulated at times by storage in settling basin of water diverted for hydraulic mining.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1.2	1.7	26	7.5	26	68	283	26	14	5	1.9	1.4
2.....	1.4	1.7	21	12	32	64	294	26	14	5	1.9	1.5
3.....	1.4	1.7	19	22	214	70	452	24	14	4.8	1.9	1.5
4.....	1.4	1.7	16	14	195	66	216	23	10	4.6	1.8	1.5
5.....	1.6	1.7	14	68	87	59	147	23	9	4.3	1.6	1.5
6.....	1.5	1.7	22	45	82	55	119	23	9	3.8	1.5	1.5
7.....	1.5	1.7	21	30	79	51	97	23	10	4.0	1.5	1.4
8.....	1.6	2.1	16	24	63	55	97	21	11	3.8	1.4	1.4
9.....	1.6	2.1	13	43	56	60	91	20	9.5	3.4	1.4	1.4
10.....	4.4	3.0	12	39	47	55	85	18	8.5	3.2	1.5	1.4
11.....	3.6	3.4	11	41	43	47	79	17	9	2.9	1.4	1.4
12.....	1.9	8	11	32	40	45	74	17	8.5	3.0	1.4	1.4
13.....	1.7	8	10	29	37	56	74	15	8.5	2.9	1.4	1.4
14.....	1.7	5	10	26	56	117	68	15	8	2.9	1.3	1.4
15.....	1.7	3.4	9	29	152	79	68	15	7	2.7	1.2	1.5
16.....	1.7	3.2	9	32	189	74	68	14	6.5	2.7	1.2	1.5
17.....	1.7	3.0	9	30	159	70	57	14	5.5	2.6	1.2	1.5
18.....	1.7	3.8	9.5	26	363	65	55	13	5	2.5	1.3	1.5
19.....	1.7	6	9	48	175	61	52	14	5.5	2.4	1.1	1.5
20.....	1.7	5.5	8	63	140	56	47	14	5.5	2.2	1.2	1.5
21.....	1.7	3.6	12	43	216	52	44	14	5	2.1	1.4	1.5
22.....	1.7	6	9.5	32	189	48	39	14	6	2.0	1.4	1.5
23.....	1.7	5.5	10	29	146	44	40	12	6	2.0	1.4	1.5
24.....	1.7	74	8.5	26	120	39	38	12	6	2.4	1.4	1.5
25.....	1.7	51	9.5	21	103	38	37	11	6	2.6	1.4	1.5
26.....	1.7	97	9.5	26	89	37	37	11	6	2.5	1.4	1.5
27.....	1.7	140	9	25	81	37	36	16	6.5	2.3	1.4	1.5
28.....	1.7	73	8	45	75	37	34	14	6	2.3	1.4	1.5
29.....	1.7	72	8	41	-----	43	31	13	6	2.1	1.4	1.5
30.....	1.7	37	8	32	-----	40	26	14	5.5	2.1	1.4	1.5
31.....	1.7	-----	8	29	-----	68	-----	14	-----	1.9	1.4	-----
Month							Maximum	Minimum		Mean	Run-off in acre-feet	
October.....							4.4	1.2		1.78	109	
November.....							140	1.7		20.9	1,240	
December.....							26	8		12.1	744	
January.....							68	7.5		32.6	2,000	
February.....							363	26		116	6,440	
March.....							117	37		56.6	3,480	
April.....							452	26		96.2	5,720	
May.....							26	11		16.8	1,030	
June.....							14	5		7.90	470	
July.....							5	1.9		3.00	194	
August.....							1.9	1.1		1.44	88.5	
September.....							1.5	1.4		1.47	87.5	
The year.....							452	1.1		29.9	21,600	

SUTTER CREEK AT SUTTER CREEK, CALIF.

LOCATION.—Staff gage in northwest corner of T. 6 N., R. 11 E., three-eighths of a mile west of Sutter Creek.

RECORDS AVAILABLE.—February, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, about 2,310 second-feet April 3 (gage height, 5.41 feet); minimum, 0.5 second-foot several days in August and September.

1922-1927: Maximum stage, 7.5 feet February 6, 1925 (discharge not determined); stream practically dry, except for town waste, during summer of 1924.

REMARKS.—Records good except those for high stages, which are fair. Stream is regulated to some extent during dry season by a small dam above town of Sutter Creek and by release of mine water.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	2.6	6	44	15	38	96	475	32	19	4.0	1.0	0.6
2.	3.3	6.5	33	17	58	89	650	30	18	4.0	1.0	.6
3.	3.0	6	30	41	204	82	1,630	28	18	4.0	.9	.6
4.	2.6	6	22	26	500	75	575	26	16	3.6	1.0	.6
5.	2.0	6	19	20	190	69	248	25	16	4.0	1.3	.6
6.	2.0	6	28	218	143	64	154	24	15	3.6	1.0	.6
7.	2.0	6	20	127	137	56	131	22	16	3.6	1.0	.6
8.	2.2	6.5	18	64	106	58	127	22	16	3.2	.9	.5
9.	2.0	6	8.5	57	86	64	111	22	16	3.2	.8	.5
10.	8	6	2.6	99	78	61	106	21	15	2.8	1.0	.5
11.	8.5	6	2.0	103	64	51	99	16	15	2.4	.8	.6
12.	5	11	25	81	54	44	89	12	15	2.4	.8	.5
13.	4.9	14	20	54	45	50	83	18	14	2.4	.7	.6
14.	6	13	15	44	72	135	75	20	14	2.8	.7	.5
15.	4.6	12	15	37	320	111	68	22	14	2.0	.8	.6
16.	4.3	11	14	37	360	94	62	21	13	1.8	.7	.6
17.	4.0	10	15	33	280	78	70	21	12	1.6	.6	.6
18.	4.0	9.5	20	32	1,230	68	66	21	11	1.6	.7	.7
19.	3.7	13	18	31	300	61	63	21	9	1.4	.7	.7
20.	3.3	14	17	28	218	56	60	21	7.5	1.2	.7	.7
21.	3.0	13	20	28	280	48	55	20	7	1.4	.7	.8
22.	3.0	13	20	26	264	44	51	21	7	1.2	.7	.7
23.	3.0	13	22	26	190	41	47	19	6.5	1.0	.6	.7
24.	3.7	125	20	26	139	39	45	21	6	1.0	.6	.8
25.	6	67	23	23	125	35	43	20	6.5	1.4	.6	.8
26.	5	264	22	35	116	33	39	21	5	1.0	.5	2.4
27.	6	300	22	33	109	31	38	25	5	.9	.5	.8
28.	6	300	20	25	103	30	36	22	4.8	.9	.6	.8
29.	5	204	18	69	-----	28	35	21	4.4	.8	.6	.8
30.	5.5	72	17	49	-----	33	33	19	4.2	.9	.5	.8
31.	6	-----	15	44	-----	37	-----	19	-----	.8	.5	-----
Month												
	Maximum			Minimum			Mean			Run-off in acre-feet		
October	8.5			2.0			4.17			256		
November	300			6			51.5			3,060		
December	44			2.0			19.5			1,200		
January	218			15			49.9			3,070		
February	1,230			38			208			11,600		
March	135			28			60.2			3,700		
April	1,630			33			179			10,700		
May	32			12			21.7			1,330		
June	19			4.2			11.5			684		
July	4.0			.8			2.16			133		
August	1.3			.5			.76			46.7		
September	7			.5			.92			54.7		
The year	1,630			.5			49.3			35,800		

NORTH FORK OF COSUMES RIVER NEAR EL DORADO, CALIF.

LOCATION.—Staff gage in sec. 23, T. 9 N., R. 10 E., at Celio ranch, 5 miles south of El Dorado. Martinez Creek enters $1\frac{1}{2}$ miles above station.

DRAINAGE AREA.—197 square miles.

RECORDS AVAILABLE.—August, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,280 second-feet April 3 (gage height, 11.5 feet); minimum, 1.0 second-foot August 7–13.

1911–1927: Maximum discharge, about 6,950 second-feet February 6, 1925 (gage height, 14.5 feet); no flow July 17 to October 7, 1924, and July 23 to September 29, 1926.

REMARKS.—Records good. Irrigation diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	4.5	227	44	203	700	1,050	630	192	44	6.5	3.0
2	4.5	4.5	181	44	304	665	1,430	630	181	44	4.5	3.0
3	5.5	4.5	181	50	630	630	3,690	595	181	39	3.8	3.0
4	5.5	4.5	203	55	1,370	560	2,250	595	181	34	1.8	3.0
5	5.5	4.5	181	55	630	490	1,690	560	181	30	1.8	3.0
6	5.5	4.5	181	840	630	423	1,420	490	181	26	1.4	3.0
7	4.5	4.5	161	560	840	423	1,150	455	181	26	1.0	3.0
8	4.5	4.5	125	252	560	525	920	423	227	26	1.0	3.0
9	4.5	4.5	125	180	363	525	840	393	227	26	1.0	3.0
10	9.5	4.5	109	393	304	490	788	363	203	22	1.0	3.0
11	9.5	7	109	630	277	423	735	363	203	19	1.0	3.0
12	9.5	16	94	490	252	423	665	338	203	19	1.0	3.0
13	9.5	34	81	252	240	408	595	304	181	16	1.0	3.0
14	6.5	34	94	125	490	1,370	560	333	171	13	1.4	3.0
15	6.5	34	55	125	805	490	595	393	161	13	1.8	3.0
16	6.5	26	55	363	1,050	770	560	525	143	13	3.0	3.0
17	5.5	26	55	304	920	700	525	423	143	12	3.0	3.0
18	4.5	26	81	227	2,490	630	525	363	125	12	3.0	2.7
19	4.5	44	81	192	1,690	525	525	363	125	9.5	3.0	2.4
20	4.5	68	81	181	1,550	490	525	304	109	9.5	3.0	2.4
21	4.5	44	76	181	3,370	455	525	277	109	9.5	3.0	1.8
22	4.5	44	72	192	2,490	423	560	252	94	8	3.0	1.8
23	5.5	44	68	181	1,550	423	595	252	81	8	3.0	1.8
24	5.5	203	68	171	1,150	455	630	240	73	6.5	3.0	1.8
25	5.5	304	68	152	1,100	455	630	227	68	6.5	3.0	2.4
26	5.5	333	68	161	960	490	665	227	62	6.5	3.0	3.0
27	4.5	735	55	181	840	490	700	252	55	6.5	3.0	3.0
28	4.5	333	44	181	805	490	735	240	55	6.5	3.0	3.0
29	4.5	560	44	227	490	490	700	215	52	6.5	3.0	3.0
30	4.5	393	50	252	490	490	665	203	50	6.5	3.0	3.0
31	4.5	50	203	490	490	490	203	203	6.5	3.0	3.0	3.0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	9.5	2.4	5.56	342
November	735	4.5	112	6,660
December	227	44	101	6,210
January	840	44	240	14,800
February	3,370	203	994	55,200
March	1,370	408	554	34,100
April	3,690	525	915	54,400
May	630	203	369	22,700
June	227	50	140	8,330
July	44	6.5	17.1	1,030
August	6.5	1.0	2.52	155
September	3.0	1.8	2.77	165
The year	3,690	1.0	282	204,000

* Estimated.

COSUMNES RIVER AT MICHIGAN BAR, CALIF.

LOCATION.—Staff gage in NW. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 36, T. 8 N., R. 8 E., at highway bridge at Michigan Bar, $5\frac{1}{2}$ miles southwest of Latrobe. North and Middle Forks unite 12 miles above station.

DRAINAGE AREA.—524 square miles.

RECORDS AVAILABLE.—October, 1907, to September, 1927.

EXTREMES.—Maximum discharge during year, 11,400 second-feet April 3 (gage height, 8.4 feet); minimum, 2.2 second-feet October 1.

1907-1927: Maximum discharge, 23,800 second-feet February 6, 1925 (gage height, 11.2 feet); no flow part of 1908, 1918, 1919, and 1924-1926.

REMARKS.—Records good. Douglas, Enterprise, and Slug Gluch ditches and Michigan Bar Canal divert water from the Middle and South Forks and from the main stream above station. The water is used for power, domestic supply, and irrigation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2.4	8	560	128	490	1,580	2,950	1,120	370	101	16	8
2.....	3.0	8	430	128	560	1,370	3,850	1,010	370	85	16	8
3.....	3.0	8	546	295	1,740	1,370	8,680	1,010	370	85	16	7.5
4.....	5.5	8	460	430	3,850	1,240	5,490	1,010	370	85	16	7
5.....	5.5	8	370	370	1,740	1,060	3,850	910	370	71	16	7
6.....	5.5	8	345	1,900	1,580	1,010	2,950	910	370	68	16	8
7.....	5.5	8	400	910	1,440	910	2,640	810	400	68	14	8
8.....	3.0	8	320	576	1,060	960	2,350	810	460	68	12	8
9.....	3.0	8	270	478	910	1,120	2,170	720	400	62	12	7
10.....	5.5	8	225	640	860	1,060	1,900	720	370	54	12	7
11.....	8	10	225	810	680	960	1,660	680	370	54	11	5.5
12.....	40	16	206	576	640	810	1,440	680	370	48	11	5.5
13.....	31	31	188	504	560	860	1,240	810	370	42	9	5.5
14.....	19	95	181	430	640	3,380	1,180	720	330	42	8	7
15.....	16	48	162	430	3,160	1,900	1,120	810	320	42	8	7
16.....	12	33	155	810	3,610	1,580	1,370	765	310	42	10	7
17.....	12	26	155	600	2,950	1,370	1,180	720	270	35	10	7.5
18.....	8	22	155	490	6,090	1,240	1,120	720	234	31	8	8
19.....	8	26	142	430	3,850	1,120	1,010	640	225	31	8	8
20.....	8	48	142	640	2,950	1,010	1,010	640	206	31	8	8
21.....	8	110	155	600	6,700	910	1,010	546	195	31	8	8
22.....	8	89	172	490	5,490	910	1,060	490	188	29	8	8
23.....	8	105	188	430	3,850	910	1,120	430	188	29	8	8
24.....	8	105	142	400	2,950	910	1,180	460	162	26	7	7.5
25.....	8	860	116	360	2,440	910	1,300	460	150	22	7	7
26.....	8	960	142	400	2,170	910	1,510	460	142	22	7	5.5
27.....	8	1,740	116	460	2,170	910	1,510	460	128	19	7	5.5
28.....	8	910	105	478	1,820	910	1,370	560	128	19	8	5.5
29.....	8	1,120	128	810	-----	960	1,240	430	116	19	8	5.5
30.....	8	860	128	640	-----	910	1,120	430	105	17	8	5.5
31.....	8	-----	128	546	-----	1,010	-----	370	-----	16	8	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	40	2.4	9.42	579
November.....	1,740	8	243	14,500
December.....	560	105	231	14,200
January.....	1,900	128	554	34,100
February.....	6,700	490	2,390	138,000
March.....	3,380	810	1,160	71,300
April.....	8,630	1,010	2,050	122,000
May.....	1,120	370	687	42,260
June.....	460	105	279	16,600
July.....	101	16	46.0	2,770
August.....	16	7	10.4	640
September.....	8	5.5	7.02	418
The year.....	8,630	2.4	625	452,000

GOOSE LAKE BASIN

DREW CREEK NEAR LAKEVIEW, OREG.

LOCATION.—Staff gage in SE. $\frac{1}{4}$ 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 18 miles southwest of Lakeview.

DRAINAGE AREA.—211 square miles.

RECORDS AVAILABLE.—January, 1909, to September, 1919, February to September, 1921, and October, 1925, to September, 1927.⁴

EXTREMES.—Maximum discharge during the year ending September 30, 1926, 39 second-feet June 16–22 (gage height, 1.21 feet); minimum, estimated 1 second-foot October 1–31 and July 15 to September 30.

Maximum discharge during the year ending September 30, 1927, 518 second-feet May 4 and 6 (gage height, 3.40 feet); minimum, estimated 1 second-foot October 1 to November 30.

1909–1919, 1921, 1925–1927: Maximum discharge, estimated 3,000 second-feet March 1 and 2, 1910; stream dry at times.

REMARKS.—Records fair. Discharge October 1, 1925, to April 19, 1926, and July 15, 1926, to March 23, 1927, estimated on basis of three discharge measurements. Considerable regulation caused by operation of Drew Creek Reservoir, 1 mile above station. See page 182 for table giving contents of Drew Creek Reservoir. The North Drew Canal of the Goose Lake Valley Irrigation Co. diverts water past gage. See page 182 for table of run-off of North Drew Canal. Records furnished by State engineer of Oregon.

Daily discharge, in second-feet, 1926–27

Day	1926				1927						
	Apr.	May	June	July	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....		6	3	35		64	244	92	32	32	26
2.....		6	26	35		64	448	72	32	32	26
3.....		10	26	34		60	483	64	32	32	24
4.....		10	26	34		56	518	52	32	32	21
5.....		10	26	34		32	518	52	32	32	20
6.....		9	26	34		34	518	52	32	32	20
7.....		9	28	34		37	518	52	32	32	19
8.....		9	28	34		37	518	52	32	32	18
9.....		9	28	34		38	500	52	32	32	16
10.....	5	10	28	34		39	483	52	32	32	16
11.....		10	28	32		40	466	52	32	32	16
12.....		10	30	32	30	38	448	54	32	32	16
13.....		16	30	32		37	448	56	32	32	16
14.....		16	30	26		37	28	52	32	32	16
15.....		16	37			37	54	49	32	31	16
16.....		16	39			36	81	43	32	30	16
17.....		28	39			35	92	43	32	30	16
18.....		28	39			34	103	43	32	30	16
19.....		28	39			33	110	42	32	30	16
20.....	6	27	39			32	116	40	32	30	16
21.....	6	28	39			32	144	40	32	30	16
22.....	6	28	39			35	220	40	32	29	16
23.....	6	28	35	1		37	244	37	32	28	16
24.....	6	28	35		64	40	268	37	32	28	16
25.....	6	34	35		64	40	256	34	32	28	16
26.....	6	34	35		64	40	244	33	32	28	16
27.....	6	34	34		64	40	256	32	32	28	16
28.....	6	34	34		64	40	268	32	32	28	16
29.....	6	37	35		64	40	220	32	32	28	16
30.....	5	3	35		64	40	160	32	32	26	16
31.....		3			64		116		32	26	

⁴ Unpublished records October, 1922, to September, 1925, available in office of State engineer, Salem, Oreg.

Monthly discharge, in second-feet, of Drews Creek near Lakeview, Oreg., 1925-1927

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1925-26				
October.....			° 1	61
November.....			° 2	119
December.....			° 2	123
January.....			° 2	123
February.....			° 3	167
March.....			° 5	307
April.....	6		° 5.3	315
May.....	37	3	18.5	1,140
June.....	29	3	31.7	1,890
July.....	35	1	° 15.5	953
August.....			° 1	61
September.....			° 1	60
The year.....	39			5,320
1926-27				
October.....			° 1	61
November.....			° 1	60
December.....			° 2	123
January.....			° 3	184
February.....			° 5	278
March.....	64		° 38.8	2,390
April.....	64	32	40.1	2,390
May.....	518	28	293	18,000
June.....	92	32	47.2	2,810
July.....	32	32	32.0	1,970
August.....	32	26	30.2	1,890
September.....	26	16	17.6	1,050
The year.....	518			31,200

° Estimated.

° Partly estimated.

Monthly contents of Drew Creek Reservoir, 1925-1927

Date	Contents (acre-feet)	Date	Contents (acre-feet)
1925-26		1926-27	
Sept. 30.....	° 6,290	Sept. 30.....	600
Oct. 31.....	° 6,740	Oct. 31.....	660
Nov. 30.....	° 6,980	Nov. 30.....	3,470
Dec. 31.....	7,190	Dec. 31.....	8,660
Jan. 31.....	7,310	Jan. 31.....	12,040
Feb. 28.....	11,680	Feb. 28.....	20,230
Mar. 31.....	14,000	Mar. 31.....	39,400
Apr. 30.....	14,360	Apr. 30.....	63,430
May 31.....	10,740	May 31.....	57,230
June 30.....	3,910	June 30.....	47,370
July 31.....	590	July 31.....	36,200
Aug. 31.....	600	Aug. 31.....	25,390
Sept. 30.....	600	Sept. 30.....	23,550

° Interpolated.

Monthly run-off of North Drew Canal, 1926-27

Month	Run-off in acre-feet	Month	Run-off in acre-feet
1926		1927	
May.....	2,740	May.....	263
June.....	5,680	June.....	6,720
July.....	2,710	July.....	7,260
The year.....		August.....	6,820
	11,100	September.....	434
		The year.....	21,500

NOTE.—No flow in canal except during months given in the above table.

COTTONWOOD CREEK NEAR LAKEVIEW, OREG.

LOCATION.—Staff gage in SW. ¼ sec. 29, T. 38 S., R. 19 E., 200 feet 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, 1927.⁵

EXTREMES.—Maximum discharge during the year ending September 30, 1926, 66 second-feet May 17 (gage height, 1.80 feet); no flow August 7–14.

Maximum discharge during the year ending September 30, 1927, 500 to 1,000 second-feet during April 26 to May 1, when natural mean flow estimated at 170 second-feet was augmented by water escaping from reservoir through break in outlet conduit above control gate; no flow September 16 and 17.

1908–1919, 1925–1927: Maximum discharge, that of April 26 to May 1, 1927; no flow at times.

REMARKS.—Records good except those for November 8–14, December 1–19, 1925, March 1–20, November 7–27, 1926, and April 26–30, 1927, which were estimated. Considerable regulation caused by operation of Cottonwood Reservoir, 200 feet above gage. See table for contents of Cottonwood Reservoir, page 185. Records furnished by State engineer of Oregon.

Daily and monthly discharge, in second-feet, 1925–1927

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1925-26												
1.	4	4		0.4	0.4		13	12	4	3	0.5	1
2.	4	4		4	4		13	13	4	7	4	1
3.	4	4		4	4		13	10	26	7	4	1
4.	4	4		4	4		13	10	43	7	3	1
5.	4	4		4	4		13	13	43	7	3	.9
6.	6	4		4	4		15	13	42	7	.2	.9
7.	7	4		4	4		15	13	42	3	0	.9
8.	7			4	4		15	13	18	3	0	.8
9.	6			4	4		15	13	29	3	0	.7
10.	6			4	4		15	13	29	3	0	.7
11.	6	4	0.5	4	4	0.7	15	13	31	3	0	.7
12.	6			4	4		15	13	27	3	0	.7
13.	5			4	4		15	13	25	3	0	.7
14.	5			4	4		15	19	25	3	0	.8
15.	4	4		4	4		15	19	25	.8	.4	1
16.	4	4		4	4		15	19	19	.8	.4	.9
17.	4	4		4	4		15	66	19	.8	.4	.9
18.	4	4		4	4		15	47	19	.8	.6	1
19.	4	4		4	4		15	47	19	.8	.8	.8
20.	4	.8	.5	4	4		15	47	19	.8	.8	.9
21.	4	4	4	4	4	.9	15	38	19	.8	.7	.9
22.	4	4	4	4	4	.9	15	37	19	.8	.7	.9
23.	4	4	4	4	5	.9	15	34	18	.7	.6	.9
24.	4	4	4	4	5	.9	13	43	20	.7	.6	1
25.	4	.5	4	4	5	.9	13	43	20	.6	.4	1
26.	4	.5	4	4	5	18	13	39	20	.6	.4	.9
27.	4	.5	4	4	5	13	12	38	20	.6	.8	1
28.	4	.5	4	4	5	13	10	37	20	.6	.8	2
29.	4	.5	4	4		11	8	36	20	.5	.8	2
30.	4	.5	4	4		11	14	4	3	.5	1	3
31.	4		4	4		13		4		.5	1	

⁵ Unpublished records April, 1924, to September, 1925, available in office of State engineer, Salem, Oreg.

Daily and monthly discharge, in second-feet, of Cottonwood Creek near Lakeview, Oreg., 1925-1927—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1926-27												
1.....	2.6	3.0	4.2	5.3	27	33	88	300	55	21	6.2	3.6
2.....	2.8	3.5	8.4	5.3	20	33	100	154	54	21	6.2	3.3
3.....	2.8	3.5	8.4	5.1	25	33	100	154	55	20	5.6	3.3
4.....	2.6	3.5	8.4	5.1	25	33	100	154	58	18	5.9	3.3
5.....	2.6	3.9	7.9	5.1	25	33	100	154	59	18	5.9	3.3
6.....	2.6	4.0	7.5	4.8	25	33	100	154	70	15	5.3	3.3
7.....	2.6	5.0	7.0	4.8	25	33	66	154	78	15	5.3	3.3
8.....	2.7		7.0	4.8	23	33	48	154	118	14	5.0	3.3
9.....	4.4		7.0	4.6	21	33	48	154	88	14	4.7	3.3
10.....	4.8		6.6	4.6	19	33	37	154	88	13	4.5	3.9
11.....	4.8		6.6	4.8	18	33	37	154	74	12	4.2	4.5
12.....	4.0		6.6	4.6	12	33	37	154	70	12	4.5	4.5
13.....	4.0		6.6	4.6	6.6	91	37	139	66	11	4.5	4.5
14.....	3.7		6.2	4.6	6.6	91	37	154	62	10	4.5	4.5
15.....	3.7		6.2	4.4	6.6	91	100	204	56	10	4.5	4.5
16.....	3.7	5.0	5.9	4.4	6.6	91	100	204	55	10	4.5	0
17.....	3.7		5.9	4.4	6.6	91	100	204	55	9.4	4.5	0
18.....	3.7		5.9	4.4	6.6	91	32	186	54	8.7	4.5	6.8
19.....	3.5		5.9	4.4	6.6	24	37	170	42	8.0	4.2	6.8
20.....	3.5		5.9	4.4	4.4	12	37	139	37	7.7	4.2	6.6
21.....	3.5		5.9	4.4	77	12	49	125	34	8.0	3.9	5.0
22.....	3.5		5.7	4.4	77	12	49	106	31	7.7	3.9	5.0
23.....	3.5		5.7	4.4	77	22	170	94	30	7.7	3.6	5.0
24.....	3.5		5.7	4.4	77	107	204	78	28	7.7	3.6	3.9
25.....	3.5		5.7	4.4	33	106	222	139	26	7.7	3.6	3.6
26.....	3.3		5.5	4.4	33	106	450	78	27	7.1	3.6	3.4
27.....	3.3		5.5	4.4	33	106		74	27	7.1	3.6	3.4
28.....	3.3	3.3	5.5	4.4	33	162		74	25	7.1	3.6	5.6
29.....	3.3	3.5	5.5	5.7		28		74	23	6.8	3.6	5.0
30.....	3.3		5.3	8.8		30		62	23	6.8	3.6	3.4
31.....	3.0		5.3	14		42		61		6.8	3.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
1925-26				
October.....	7	4	4.6	263
November.....	4	.4	2.71	161
December.....	.5	.4	.46	28
January.....	.4	.4	.40	25
February.....	.5	.4	.42	23
March.....	18	.7	3.15	194
April.....	15	8	13.0	827
May.....	66	4	25.1	1,640
June.....	43	3	23.0	1,370
July.....	7	.5	2.33	142
August.....	3	0	1.43	26
September.....	3	.7	1.03	61
The year.....	66	0	6.47	4,680
1926-27				
October.....	4.8	2.6	3.45	212
November.....		3.0	4.56	271
December.....	8.4	4.2	6.30	387
January.....	14	4.4	5.10	314
February.....	77	4.4	27.0	1,500
March.....	162	12	55.2	3,990
April.....		32	143	8,610
May.....		61	141	8,070
June.....	118	23	52.2	3,110
July.....	21	6.6	11.2	689
August.....	6.2	3.6	4.48	275
September.....	6.8	0	3.99	237
The year.....		0	38.0	27,600

Monthly contents of Cottonwood Reservoir, 1925-1927

Date	Contents (acre-feet)	Date	Contents (acre-feet)
1925-26		1926-27	
Sept. 30	0	Sept. 30	4
Nov. 30	130	Oct. 31	4
Dec. 31	645	Nov. 30	925
Jan. 31	787	Dec. 31	2,295
Feb. 28	1,591	Jan. 31	3,291
Mar. 31	2,364	Feb. 28	3,183
Apr. 30	2,870	Mar. 31	3,210
May 31	1,663	Apr. 30	1,053
June	178	May 31	54
July	0	June 30	4
Aug. 31	4	July 31	0
Sept. 30	4	Aug. 31	0
		Sept. 30	0

SACRAMENTO RIVER BASIN

MAIN STREAM

SACRAMENTO RIVER AT ANTLER, CALIF.

LOCATION.—Staff gage in SE. $\frac{1}{4}$ sec. 13, T. 35 N., R. 5 W., at highway bridge at Antler. Gregory Creek enters 200 feet below gage and Pit River 14 miles below.

DRAINAGE AREA.—461 square miles.

RECORDS AVAILABLE.—November, 1910, to December, 1911; April, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, about 28,200 second-feet November 30 (gage height, 17.0 feet); minimum, 195 second-feet October 26 to November 10.

1910-11, 1919-1927: Maximum discharge, that of November 30, 1926; minimum, 110 second-feet July 3 to September 23, except August 19, 1924.

REMARKS.—Records good below 12,000 second-feet and fair above. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	212	195	12,400	690	2,640	3,940	8,100	2,180	1,020	390	220	220
2.....	240	195	14,500	1,980	3,150	3,410	12,000	2,080	1,100	390	220	220
3.....	225	195	12,400	1,780	9,100	3,020	9,100	1,980	1,170	390	220	208
4.....	225	195	6,560	1,420	5,140	2,640	5,300	1,780	1,170	390	220	220
5.....	225	195	4,660	1,600	3,800	2,400	4,220	1,690	1,170	390	220	220
6.....	225	195	3,940	2,890	3,670	2,400	3,280	2,400	1,170	350	220	220
7.....	225	195	2,890	2,180	3,410	2,400	2,890	1,780	1,250	350	220	220
8.....	225	195	2,290	1,780	3,410	2,290	2,640	1,690	1,490	350	220	220
9.....	272	195	1,980	1,780	3,150	2,290	2,290	1,780	1,420	350	220	220
10.....	452	195	1,600	1,780	2,400	2,180	2,180	1,980	1,250	315	208	220
11.....	280	350	1,420	1,690	1,980	2,180	2,080	1,980	1,100	315	195	220
12.....	250	1,880	1,330	1,690	1,780	2,080	1,980	2,180	955	315	195	220
13.....	250	602	1,250	1,690	1,600	2,080	1,880	2,400	885	298	195	220
14.....	235	370	1,250	1,780	1,600	2,080	1,780	2,520	885	280	195	220
15.....	235	390	1,250	2,520	2,400	2,080	1,780	2,520	815	280	195	220
16.....	235	475	1,170	2,890	4,360	2,080	1,690	2,400	720	280	195	220
17.....	220	815	1,170	2,640	3,410	2,080	1,780	2,180	660	280	195	220
18.....	220	1,020	1,170	2,400	9,760	1,980	1,780	1,980	630	280	195	220
19.....	220	1,250	1,100	2,180	5,840	1,980	1,980	1,780	630	280	195	208
20.....	208	3,020	1,020	1,980	8,900	1,880	2,180	1,600	602	265	195	195
21.....	208	2,400	955	1,780	12,900	1,780	2,180	1,420	575	250	195	195
22.....	195	3,150	885	1,600	6,560	1,880	2,290	1,250	650	250	195	195
23.....	195	7,700	815	1,600	6,200	1,980	2,400	1,250	525	250	220	195
24.....	195	10,200	750	1,600	5,840	2,080	2,400	1,100	525	280	220	195
25.....	195	12,400	750	1,600	5,480	2,080	2,640	1,100	525	250	220	195
26.....	195	12,400	690	1,780	5,140	2,080	3,410	1,100	525	250	220	195
27.....	195	15,300	690	1,780	4,820	2,080	3,800	1,020	500	250	220	195
28.....	195	12,400	690	4,080	4,500	2,080	3,150	1,020	452	220	220	195
29.....	195	12,400	690	2,640	2,080	2,760	1,020	430	220	220	220	195
30.....	195	21,100	690	2,400	2,080	2,400	1,020	430	220	220	220	195
31.....	195	-----	690	2,520	2,080	2,080	1,020	-----	220	220	220	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	452	195	227	14,000
November.....	21,100	195	4,050	241,000
December.....	14,800	690	2,710	167,000
January.....	4,080	690	2,020	124,000
February.....	12,900	1,600	4,750	264,000
March.....	3,940	1,780	2,250	138,000
April.....	12,000	1,690	3,280	195,000
May.....	2,520	1,020	1,720	106,000
June.....	1,420	430	835	49,700
July.....	390	220	296	18,200
August.....	220	195	210	12,900
September.....	220	195	210	12,500
The year.....	21,100	195	1,850	1,340,000

SACRAMENTO RIVER AT KENNETT, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 2, T. 33 N., R. 5 W., at highway bridge at Kennett.

DRAINAGE AREA.—6,600 square miles (not including area of Goose Lake).

RECORDS AVAILABLE.—November, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 92,800 second-feet February 21 (gage height, 24.66 feet); minimum, 2,600 second-feet November 10.

1925-1927: Maximum discharge, that of February 21, 1927; minimum, 2,430 second-feet August 11, 1926.

REMARKS.—Records excellent; discharge interpolated September 5-8. Storage and many diversions above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	2,820	3,180	34,700	5,150	11,200	18,200	25,900	11,500	6,590	4,490	3,480	3,480
2-----	2,920	3,020	33,400	6,030	16,500	17,600	53,600	11,000	6,590	4,330	3,610	3,610
3-----	2,920	3,130	40,200	7,160	33,000	17,000	48,300	10,500	6,590	4,330	3,480	3,480
4-----	2,920	3,020	28,500	6,970	31,000	16,500	30,600	10,300	6,590	4,330	3,360	3,360
5-----	2,920	3,020	18,500	7,160	24,000	15,400	24,400	10,000	6,780	4,330	3,360	3,360
6-----	2,920	2,920	14,300	14,300	24,000	14,300	20,700	11,000	6,780	4,330	3,480	3,360
7-----	2,870	3,020	12,200	13,800	23,000	13,800	18,500	10,500	6,590	4,330	3,360	3,360
8-----	2,870	3,020	10,800	11,500	18,500	13,200	16,800	9,820	7,160	4,330	3,360	3,360
9-----	3,130	2,920	9,170	9,500	15,900	13,200	15,900	9,380	7,160	4,180	3,480	3,360
10-----	4,980	2,920	8,550	8,750	13,800	12,700	14,800	9,380	6,590	4,030	3,360	3,360
11-----	3,890	3,480	7,950	9,500	12,000	12,200	15,100	9,170	6,590	4,180	3,360	3,360
12-----	3,360	5,320	7,550	9,820	11,700	11,700	14,300	9,170	6,590	4,030	3,360	3,360
13-----	3,240	3,610	6,970	9,170	10,800	15,200	15,200	9,380	6,030	4,030	3,360	3,360
14-----	3,130	3,480	6,970	8,750	10,300	20,100	13,200	9,820	6,030	4,030	3,360	3,360
15-----	3,130	3,360	6,590	11,200	15,400	17,600	12,700	10,000	6,030	4,030	3,360	3,360
16-----	3,130	3,360	6,400	15,900	23,700	17,000	12,500	10,000	5,350	3,890	3,240	3,360
17-----	3,240	3,360	6,400	13,500	21,300	15,600	11,700	9,820	5,670	3,890	3,240	3,360
18-----	3,130	3,360	6,210	11,500	40,200	14,300	11,700	9,170	5,490	3,610	3,240	3,360
19-----	3,160	5,540	5,850	14,500	30,600	13,000	11,200	8,550	5,150	3,750	3,240	3,240
20-----	3,160	3,350	5,490	16,800	41,400	12,200	10,800	8,160	4,810	3,750	3,240	3,240
21-----	3,080	5,490	5,670	13,200	60,400	11,700	10,300	7,750	4,810	3,750	3,240	3,360
22-----	3,130	5,490	5,670	11,000	37,200	11,500	10,800	7,550	4,810	3,750	3,240	3,240
23-----	3,130	11,300	5,490	9,820	30,300	11,200	10,000	7,350	4,980	3,890	3,240	3,360
24-----	3,130	23,700	5,320	8,960	26,200	11,500	10,800	7,350	5,150	3,610	3,240	3,240
25-----	3,130	23,300	5,150	8,750	23,700	11,500	12,000	7,350	4,810	3,360	3,360	3,360
26-----	3,130	33,800	5,150	8,350	24,700	11,200	13,200	7,350	4,490	3,610	3,360	3,130
27-----	3,130	29,000	4,980	11,200	22,000	11,200	13,500	7,350	4,810	3,610	3,360	3,240
28-----	3,130	20,400	5,150	22,600	20,100	11,000	12,700	7,350	4,810	3,610	3,360	3,360
29-----	3,130	33,100	5,150	15,400	-----	10,500	12,200	6,970	4,650	3,610	3,360	3,360
30-----	3,130	56,000	4,980	12,000	-----	10,500	12,000	6,590	4,810	3,750	3,360	3,240
31-----	3,130	-----	4,980	11,000	-----	12,200	-----	6,400	-----	3,750	3,360	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October-----	4,980	2,820	3,170	195,000
November-----	56,000	2,920	10,500	625,000
December-----	40,200	4,980	10,700	658,000
January-----	22,600	5,150	11,100	682,000
February-----	60,400	10,300	24,000	1,330,000
March-----	20,100	10,500	13,700	842,000
April-----	53,600	10,300	17,100	1,020,000
May-----	11,500	6,400	8,900	547,000
June-----	7,160	4,490	5,790	345,000
July-----	4,490	3,360	3,950	243,000
August-----	3,610	3,240	3,350	206,000
September-----	3,610	3,130	3,360	193,000
The year-----	60,400	2,820	9,530	6,890,000

SACRAMENTO RIVER NEAR RED BLUFF, CALIF.

LOCATION.—Water-stage recorder in lot 4, sec. 34, T. 28 N., R. 3 W., at lower end of Iron Canyon and 4 miles northeast of Red Bluff.

DRAINAGE AREA.—9,300 square miles (not including area of Goose Lake).

RECORDS AVAILABLE.—January, 1902, to September, 1927. Also April, 1895, to June, 1902, at Jellys Ferry, 12 miles above Red Bluff.

EXTREMES.—Maximum discharge during year, 164,000 second-feet February 21 (gage height, 26.0 feet); minimum, 2,980 second-feet October 1.

1902-1927: Maximum discharge, 278,000 second-feet February 3, 1909 (gage height, 35.2 feet); minimum, 2,640 second-feet July 22, 1926.

REMARKS.—Records excellent; discharge interpolated June 23 to July 1. Storage and many diversions above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	3,240	3,490	66,900	6,370	18,600	31,300	24,500	15,500	8,000	5,210	4,100	3,740
2-----	3,490	3,490	63,000	7,600	24,000	29,900	71,200	15,500	7,850	5,100	4,100	3,830
3-----	3,490	3,490	86,600	12,600	50,800	30,300	75,100	14,400	7,710	5,100	4,100	3,830
4-----	3,400	3,490	58,800	10,500	61,700	29,400	54,800	14,000	7,710	5,000	3,920	3,740
5-----	3,400	3,490	37,000	10,200	44,200	27,600	40,300	13,700	7,710	5,000	3,830	3,740
6-----	3,400	3,490	28,000	21,900	40,000	24,500	33,600	14,000	7,710	5,000	3,830	3,660
7-----	3,320	3,490	22,700	23,200	40,600	22,700	29,400	15,500	8,000	5,000	3,830	3,580
8-----	3,320	3,490	18,600	18,200	33,200	21,400	25,800	14,000	8,000	4,900	3,830	3,660
9-----	3,400	3,400	15,900	15,100	27,600	22,300	24,500	12,900	9,540	4,900	3,740	3,660
10-----	5,650	3,400	13,700	12,900	24,000	21,900	22,700	12,600	7,160	4,690	3,830	3,660
11-----	5,320	3,830	12,600	17,200	21,000	19,800	21,900	12,200	8,000	4,590	3,830	3,740
12-----	4,200	5,100	11,500	20,200	19,000	19,000	21,000	12,200	8,300	4,590	3,830	3,740
13-----	3,830	5,880	10,900	16,600	17,400	20,000	19,800	12,200	7,710	4,490	3,830	3,660
14-----	3,740	4,490	10,200	14,400	18,200	33,600	19,400	12,200	7,160	4,590	3,830	3,740
15-----	3,830	4,100	9,540	16,900	26,700	28,000	18,600	12,900	7,160	4,890	3,740	3,830
16-----	3,830	3,830	8,910	28,500	53,200	25,800	17,800	12,900	6,890	4,490	3,740	3,830
17-----	3,740	3,740	8,600	24,900	46,400	24,000	17,400	12,900	6,630	4,390	3,660	3,830
18-----	3,660	3,740	8,910	20,200	84,000	22,300	16,600	12,600	6,300	4,200	3,740	3,830
19-----	3,660	4,100	8,300	20,000	68,900	20,200	16,200	11,900	6,120	4,100	3,660	3,830
20-----	3,660	8,300	7,710	32,200	76,500	18,600	15,500	11,200	5,880	4,200	3,660	3,740
21-----	3,660	8,600	8,000	24,900	137,000	17,400	14,800	10,500	5,650	4,200	3,740	3,740
22-----	3,660	7,160	8,000	19,800	91,300	17,000	14,800	9,860	5,650	4,200	3,660	3,830
23-----	3,660	9,860	7,710	16,600	58,600	16,600	14,400	9,540	5,650	4,200	3,660	3,830
24-----	3,660	33,200	7,160	14,800	49,700	16,600	14,400	9,220	5,650	4,200	3,660	3,830
25-----	3,580	31,300	6,890	13,700	43,200	16,600	15,500	8,910	5,430	4,010	3,660	3,830
26-----	3,660	45,300	7,160	12,900	43,700	16,200	16,600	8,910	5,430	3,920	3,740	3,830
27-----	3,660	56,800	6,890	20,200	39,500	15,900	17,800	9,220	5,430	3,920	3,660	3,740
28-----	3,660	38,000	6,630	44,200	34,600	16,200	17,800	9,220	5,320	4,010	3,660	3,830
29-----	3,580	49,700	6,630	35,100	-----	15,500	16,600	8,910	5,320	4,100	3,740	3,920
30-----	3,580	68,200	6,370	24,900	-----	14,800	16,200	8,300	5,210	4,200	3,740	3,920
31-----	3,490	-----	6,120	20,200	-----	16,200	-----	8,150	-----	4,200	3,740	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October-----	5,650	3,240	3,720	229,000
November-----	68,200	3,400	14,300	851,000
December-----	86,600	6,120	18,900	1,160,000
January-----	44,200	6,370	19,300	1,190,000
February-----	137,000	17,400	46,200	2,570,000
March-----	33,600	14,800	21,700	1,330,000
April-----	75,100	14,400	24,800	1,480,000
May-----	15,500	8,150	11,800	726,000
June-----	9,540	5,210	6,890	410,000
July-----	5,210	3,920	4,490	275,000
August-----	4,100	3,660	3,780	232,000
September-----	3,920	3,580	3,770	224,000
The year-----	137,000	3,240	14,700	10,700,000

SACRAMENTO RIVER AT BUTTE CITY, CALIF.

LOCATION.—Water-stage recorder in sec. 32, T. 19 N., R. 1 W., at highway bridge at Butte City.

RECORDS AVAILABLE.—April, 1921, to September, 1927, low-water records only.

REMARKS.—Records good; discharge interpolated June 23-27. Considerable diversion from main stream and tributaries above station for irrigation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	June	July	Aug.	Sept.
1.....	2,940	3,510	-----	7,780	-----	4,440	2,800	2,660
2.....	3,100	3,600	-----	8,000	-----	4,340	2,730	2,730
3.....	3,260	3,600	-----	9,760	-----	4,160	2,660	2,800
4.....	3,340	3,510	-----	13,600	-----	4,060	2,730	2,880
5.....	3,340	3,600	-----	12,600	-----	4,060	2,690	2,800
6.....	3,260	3,600	-----	14,400	-----	3,960	2,520	2,800
7.....	3,340	3,600	-----	23,700	-----	3,870	2,520	2,730
8.....	3,260	3,600	-----	22,300	-----	3,870	2,520	2,730
9.....	3,340	3,600	-----	18,600	-----	3,870	2,460	2,730
10.....	3,340	3,510	-----	16,500	-----	3,780	2,460	2,800
11.....	4,780	3,600	-----	16,500	-----	3,690	2,460	2,800
12.....	5,280	3,880	-----	-----	-----	3,600	2,400	2,880
13.....	4,480	4,980	-----	-----	-----	3,600	2,400	2,880
14.....	3,980	6,020	12,600	-----	-----	3,440	2,400	2,880
15.....	3,790	4,880	11,600	-----	-----	3,440	2,400	2,960
16.....	3,980	4,380	11,200	-----	6,560	3,350	2,340	3,030
17.....	3,880	4,080	10,400	-----	6,340	3,350	2,340	3,110
18.....	3,880	3,880	10,000	-----	6,120	3,270	2,340	3,190
19.....	3,790	3,980	10,000	-----	5,900	3,190	2,340	3,190
20.....	3,700	4,380	9,540	-----	5,580	3,030	2,340	3,190
21.....	3,700	7,780	9,100	-----	5,260	3,030	2,340	3,030
22.....	3,700	8,440	9,100	-----	4,940	3,030	2,340	3,110
23.....	3,700	8,220	9,100	-----	4,900	3,030	2,280	3,190
24.....	3,600	12,900	8,660	-----	4,850	3,030	2,340	3,190
25.....	3,600	-----	8,440	-----	4,880	3,030	2,340	3,270
26.....	3,600	-----	8,220	-----	4,800	2,890	2,400	3,270
27.....	3,700	-----	8,220	-----	4,750	2,800	2,400	3,350
28.....	3,700	-----	8,000	-----	4,740	2,730	2,460	3,270
29.....	3,600	-----	7,780	-----	4,640	2,730	2,520	3,350
30.....	3,600	-----	7,780	-----	4,440	2,730	2,690	3,350
31.....	3,600	-----	7,780	-----	-----	2,800	2,590	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	5,280	2,940	3,660	226,000
November 1-24.....	12,900	3,510	4,880	232,000
December 14-31.....	12,600	7,780	9,310	332,000
January 1-11.....	23,700	7,780	14,900	325,000
June 16-30.....	6,560	4,440	5,240	156,000
July.....	4,440	2,730	3,430	211,000
August.....	2,800	2,280	2,460	151,000
September.....	3,350	2,660	3,000	179,000

SACRAMENTO RIVER AT COLUSA, CALIF.

LOCATION.—Water-stage recorder in sec. 29, T. 16 N., R. 1 W., at highway bridge at Colusa.

RECORDS AVAILABLE.—April, 1921, to September, 1927, low-water records only.

REMARKS.—Records good. Considerable water is diverted above station from main stream and tributaries for irrigation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	June	July	Aug.	Sept.
1.....	3,050	3,570	-----	7,850	-----	4,220	2,420	2,420
2.....	3,050	3,570	-----	7,740	-----	4,220	2,420	2,420
3.....	3,250	3,570	-----	8,070	-----	4,080	2,340	2,420
4.....	3,460	3,680	-----	13,400	-----	4,080	2,340	2,500
5.....	3,460	3,570	-----	13,600	-----	3,850	2,340	2,500
6.....	3,350	3,680	-----	13,500	-----	3,850	2,180	2,500
7.....	3,350	3,680	-----	-----	-----	3,670	2,180	2,420
8.....	3,350	3,680	-----	-----	-----	3,580	2,180	2,420
9.....	3,250	3,680	-----	-----	-----	3,490	2,180	2,420
10.....	3,350	3,570	-----	-----	-----	3,580	2,100	2,500
11.....	4,020	3,680	-----	-----	-----	3,400	2,100	2,500
12.....	4,220	3,680	-----	-----	-----	3,310	2,100	2,500
13.....	4,740	4,820	-----	-----	-----	3,220	2,080	2,680
14.....	4,020	5,000	-----	-----	-----	3,120	2,030	2,680
15.....	3,680	5,240	-----	-----	-----	3,040	2,030	2,770
16.....	2,790	4,820	-----	-----	6,420	3,040	2,030	2,900
17.....	3,600	4,260	-----	-----	6,220	3,040	2,030	2,800
18.....	3,900	3,800	-----	-----	6,120	3,040	2,000	2,950
19.....	3,900	3,790	-----	-----	5,920	2,950	2,000	3,040
20.....	3,790	3,790	-----	-----	5,520	2,860	1,960	2,850
21.....	2,790	5,820	9,980	-----	5,320	2,680	2,000	2,950
22.....	3,680	5,520	9,740	-----	4,920	2,680	2,000	2,850
23.....	3,680	7,740	9,740	-----	4,820	2,680	1,960	2,850
24.....	3,680	-----	9,380	-----	4,820	2,680	1,960	3,040
25.....	3,570	-----	9,060	-----	4,820	2,680	2,000	3,180
26.....	3,680	-----	8,840	-----	4,720	2,500	2,030	3,120
27.....	3,680	-----	8,620	-----	4,420	2,340	2,100	3,120
28.....	3,680	-----	8,400	-----	4,420	2,340	2,180	3,120
29.....	3,680	-----	8,180	-----	4,420	2,340	2,180	3,220
30.....	3,570	-----	8,070	-----	4,220	2,420	2,260	3,310
31.....	3,570	-----	7,900	-----	-----	2,340	2,340	-----
Month	Maximum		Minimum		Mean		Run-off in acre-feet	
October.....	5,220		3,050		3,680		226,000	
November 1-23.....	8,520		3,570		4,446		208,000	
December 21-31.....	9,980		7,960		8,910		194,000	
January 1-8.....	13,600		7,740		10,700		127,000	
June 16-30.....	6,420		4,220		5,140		153,000	
July.....	4,220		2,340		3,140		193,000	
August.....	2,420		1,960		2,180		121,000	
September.....	3,310		2,420		2,780		155,000	

SACRAMENTO RIVER BASIN

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SACRAMENTO RIVER AT KNIGHTS LANDING, CALIF.

LOCATION.—Water-stage recorder in sec. 14, T. 11 N., R. 2 E., at Southern Pacific Railroad bridge at Knights Landing.

RECORDS AVAILABLE.—April, 1921, to September, 1927, low-water records only.

REMARKS.—Records good; discharge interpolated October 6 and 22-25. Considerable water is diverted for irrigation from main stream and tributaries above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	June	July	Aug.	Sept.	Day	Oct.	Nov.	June	July	Aug.	Sept.
1.....	3,670	3,990	-----	4,140	2,620	2,740	16.....	4,070	5,430	6,900	2,960	2,300	3,280
2.....	3,670	3,910	-----	4,020	2,570	2,740	17.....	4,070	5,110	6,720	2,950	2,240	3,400
3.....	3,750	3,910	6,720	4,020	2,520	2,790	18.....	4,150	4,870	6,360	2,900	2,240	3,500
4.....	3,750	3,990	6,720	3,900	2,460	2,840	19.....	4,150	4,710	6,060	2,840	2,240	3,620
5.....	3,830	3,990	6,780	3,900	2,520	2,960	20.....	4,150	4,760	5,700	2,840	2,240	3,670
6.....	3,870	3,910	6,840	3,780	2,460	3,010	21.....	4,150	5,190	5,400	2,840	2,240	3,670
7.....	3,910	3,910	7,080	3,620	2,350	3,060	22.....	4,110	6,740	5,220	2,790	2,240	3,670
8.....	3,830	3,910	7,320	3,510	2,350	3,060	23.....	4,060	5,270	5,040	2,790	2,130	3,720
9.....	3,670	3,830	7,300	3,430	2,350	2,960	24.....	4,010	-----	4,920	2,790	2,130	3,840
10.....	3,670	3,830	7,680	3,400	2,300	2,960	25.....	3,960	-----	4,860	2,790	2,240	3,840
11.....	3,670	3,910	7,800	3,400	2,300	2,960	26.....	3,910	-----	4,860	2,740	2,300	3,780
12.....	4,230	3,990	7,080	3,230	2,240	3,060	27.....	3,990	-----	4,680	2,680	2,300	3,670
13.....	4,950	4,150	7,560	3,130	2,240	3,060	28.....	4,070	-----	4,500	2,670	2,400	3,670
14.....	4,710	4,870	7,440	3,120	2,240	3,120	29.....	4,070	-----	4,380	2,570	2,460	3,780
15.....	4,310	5,670	7,200	3,010	2,300	3,130	30.....	3,990	-----	4,260	2,520	2,460	3,840
							31.....	3,990	-----	-----	2,570	2,570	-----
Month							Maximum	Minimum	Mean	Run-off in acre-feet			
October.....							4,950	3,670	4,010	247,000			
November 1-31.....							8,270	3,830	4,650	212,000			
June 1-30.....							7,800	4,260	6,220	345,000			
July.....							4,140	2,520	3,160	194,000			
August.....							2,620	2,130	2,340	144,000			
September.....							3,840	2,740	3,320	198,000			

SACRAMENTO RIVER AT VERONA, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 23, T. 11 N., R. 3 E., 1 mile below mouth of Feather River and three-fourths mile southeast of Verona.

RECORDS AVAILABLE.—May, 1926, to September, 1927, low-water records only.

REMARKS.—Records good. There are large diversions for irrigation above station. Storage and power regulation on tributaries.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	June	July	Aug.	Sept.	Day	Oct.	June	July	Aug.	Sept.
1-----	5,630	17,200	7,500	3,760	4,000	16-----	6,170	18,900	4,760	3,410	4,760
2-----	5,720	16,800	7,150	3,760	4,120	17-----	6,080	17,800	4,760	3,410	4,860
3-----	5,900	16,600	6,980	3,640	4,120	18-----	6,080	16,800	4,630	3,410	5,020
4-----	6,020	17,000	6,810	3,640	4,240	19-----	6,080	15,600	4,500	3,520	5,150
5-----	6,000	17,400	6,490	3,640	4,370	20-----	6,170	14,200	4,500	3,520	5,020
6-----	6,040	18,200	6,170	3,520	4,240	21-----	6,040	13,000	4,500	3,520	5,290
7-----	5,990	19,300	5,850	3,520	4,370	22-----	5,960	12,200	4,500	3,520	5,430
8-----	5,900	20,400	5,710	3,410	4,370	23-----	5,930	11,600	4,500	3,300	5,570
9-----	5,780	21,100	5,430	3,410	4,240	24-----	5,900	11,000	4,370	3,300	5,710
10-----	5,840	21,100	5,430	3,410	4,240	25-----	5,820	10,800	4,370	3,410	5,850
11-----	5,960	21,300	5,430	3,410	4,240	26-----	5,660	10,600	4,240	3,520	5,710
12-----	6,800	21,300	5,290	3,410	4,500	27-----	5,720	9,840	4,240	3,520	5,430
13-----	7,400	20,800	5,150	3,410	4,240	28-----	5,810	9,120	4,000	3,640	5,570
14-----	7,080	20,600	4,890	3,410	4,370	29-----	5,800	8,580	4,000	3,640	5,850
15-----	6,530	20,000	4,760	3,520	4,630	30-----	5,640	8,040	3,760	3,640	5,850
						31-----	5,600		3,880	3,880	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October-----	7,400	5,600	6,034	371,000
June-----	21,300	8,040	15,900	946,000
July-----	7,500	3,760	5,110	314,000
August-----	3,880	3,300	3,520	216,000
September-----	5,850	4,000	4,850	289,000

PIT RIVER BASIN

PIT RIVER AT FALL RIVER MILLS, CALIF.

LOCATION.—Water-stage recorder in sec. 6, T. 36 N., R. 5 E., three-fourths mile below mouth of Fall River and town of Fall River Mills.

RECORDS AVAILABLE.—March, 1921, to September, 1927; not complete for 1923.

EXTREMES.—Maximum discharge during year, 4,700 second-feet March 15 (gage height, 5.01 feet); minimum, 62 second-feet August 22.

1921-1927: Maximum discharge, 7,330 second-feet April 4, 1922 (gage height, 5.96 feet); minimum, 12 second-feet August 5, 1926.

REMARKS.—Records good; discharge estimated April 3-8. There are many irrigation diversions above gage. Some Fall River water from the McArthur and Knoch irrigation diversions enters above station. Gage-height record and results of discharge measurements furnished by Mount Shasta Power Corporation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71	77	460	147	344	2,260	1,430	866	485	188	168	102
2	77	77	536	192	435	1,920	1,980	857	566	182	165	104
3	68	77	515	405	1,160	1,790	2,870	839	515	185	165	105
4	68	77	460	515	2,050	1,670	3,260	794	495	196	171	102
5	76	77	460	732	2,190	1,550	3,040	668	495	230	157	89
6	71	77	420	1,130	1,610	1,420	2,330	590	470	227	95	89
7	71	77	380	785	1,460	1,260	1,790	639	425	202	105	104
8	75	77	371	646	1,230	1,150	1,670	611	430	188	92	112
9	79	77	327	584	893	1,190	1,920	554	425	174	84	116
10	83	79	291	536	676	1,290	2,480	554	410	174	83	116
11	89	88	241	475	560	1,310	2,950	566	385	177	98	118
12	80	94	224	430	505	1,420	2,950	505	340	165	98	120
13	77	94	199	390	435	1,790	2,710	470	299	154	89	116
14	77	90	160	385	415	3,290	2,330	465	295	140	77	114
15	79	88	147	353	390	4,520	1,980	430	255	114	80	114
16	77	90	199	340	460	3,890	1,860	371	192	128	84	116
17	76	92	185	311	708	3,200	1,670	315	213	227	83	118
18	76	94	188	295	1,670	2,560	1,530	279	259	213	88	126
19	75	97	196	287	2,330	2,190	1,370	255	271	206	94	126
20	74	100	199	291	2,050	1,920	1,210	244	255	202	97	128
21	72	100	202	267	2,630	1,670	1,120	220	202	124	97	128
22	74	116	179	177	3,980	1,540	1,040	252	206	105	83	126
23	74	132	185	206	3,720	1,450	960	267	206	114	89	120
24	75	230	157	213	2,950	1,300	893	307	206	150	109	107
25	75	295	179	206	2,480	1,150	821	315	168	171	102	128
26	75	319	174	199	2,330	1,060	767	241	157	171	92	140
27	75	495	163	210	2,630	1,060	776	230	202	174	116	114
28	75	480	171	255	2,790	1,060	785	311	192	171	118	122
29	75	475	163	291	-----	1,090	794	311	196	174	104	132
30	76	430	157	283	-----	1,020	866	376	202	114	104	122
31	77	-----	150	344	-----	990	-----	495	-----	163	98	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	89	68	75.5	4,640
November	495	77	159	9,460
December	536	147	259	15,900
January	1,130	147	383	23,600
February	3,980	344	1,610	89,400
March	4,520	990	1,770	109,000
April	3,290	767	1,740	104,000
May	866	220	458	28,200
June	566	157	314	18,700
July	230	105	171	10,500
August	171	77	106	6,520
September	140	89	116	6,900
The year	4,520	68	589	427,000

PIT RIVER AT LINDSAY FLAT, CALIF.

LOCATION.—Water-stage recorder in sec. 9, T. 36 N., R. 2 E., half a mile above Lindsay Flat and 3 miles below mouth of Rock Creek.

DRAINAGE AREA.—4,860 square miles (not including area of Goose Lake).

RECORDS AVAILABLE.—November, 1922, to June, 1927. Discontinued.

EXTREMES.—Maximum discharge during year, 4,050 second-feet April 13 (gage height, 7.0 feet); minimum, 44 second-feet October 1.

1922-1927: Maximum discharge, 6,460 second-feet February 6, 1925 (gage height, 8.64 feet); minimum, 42 second-feet September 1-25, 1926.

REMARKS.—Records excellent. There are numerous irrigation diversions from Pit River and tributaries above gage, and varying amounts were stored and diverted for Pit No. 3 development. Flow through Pit No. 3 power house should be added to give total flow of Pit River. The flow is completely regulated at Pit No. 3 Dam during low and medium stages. Gage-height record and results of discharge measurements furnished by Mount Shasta Power Corporation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1.....	46	47	92	90	91	1,720	513	1,440	119
2.....	46	47	93	93	92	1,360	631	1,440	116
3.....	46	48	90	96	190	1,040	1,560	1,400	102
4.....	47	49	78	96	850	790	2,580	1,280	128
5.....	47	49	63	97	1,180	655	2,260	1,180	127
6.....	48	50	57	144	975	484	1,880	1,220	90
7.....	49	50	52	113	616	333	1,320	1,280	111
8.....	49	50	51	89	320	191	1,040	1,280	81
9.....	50	52	52	89	105	164	1,110	1,040	67
10.....	52	52	53	89	81	220	1,680	762	108
11.....	52	55	55	89	81	245	2,050	630	187
12.....	49	57	56	89	80	228	2,640	532	61
13.....	49	54	58	89	80	490	3,750	318	75
14.....	49	53	59	89	81	1,940	3,390	245	98
15.....	50	54	62	89	84	3,320	3,110	243	73
16.....	50	54	64	88	91	3,390	2,970	349	61
17.....	50	54	68	87	97	2,580	3,180	236	47
18.....	50	55	70	87	171	1,840	2,700	194	47
19.....	50	57	71	91	1,160	1,480	2,200	204	45
20.....	49	56	73	94	1,480	1,180	1,960	183	76
21.....	49	54	76	89	1,930	850	2,370	165	-----
22.....	49	56	78	88	3,160	616	1,650	153	-----
23.....	48	57	79	86	8,600	484	1,810	155	-----
24.....	47	62	81	86	2,580	336	2,150	158	-----
25.....	47	64	82	86	1,960	220	1,920	158	-----
26.....	47	75	83	87	1,760	131	1,360	156	-----
27.....	47	64	85	91	1,880	116	1,280	149	-----
28.....	47	62	86	98	1,960	110	1,320	137	-----
29.....	47	80	86	96	-----	168	1,360	132	-----
30.....	47	125	87	94	-----	228	1,440	128	-----
31.....	47	-----	89	92	-----	120	-----	161	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	52	46	48.4	2,980
November.....	125	47	58.1	3,460
December.....	93	51	71.9	4,420
January.....	144	86	92.9	5,710
February.....	3,600	80	955	58,000
March.....	3,390	110	872	58,600
April.....	3,760	513	1,970	117,000
May.....	1,440	128	552	33,900
June 1-20.....	137	45	88.2	3,500
The period.....	-----	-----	-----	278,000

Daily and monthly discharge, in second-feet, through Pit No. 3 power house at
Lindsay Flat, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1,737	1,701	2,471	1,737	2,154	3,155	3,409	2,294	2,734	2,111	1,849	1,701
2.....	1,774	1,701	2,632	1,811	2,190	3,232	3,170	2,373	2,524	1,512	1,837	1,811
3.....	1,774	1,701	2,996	1,830	2,448	3,179	3,009	2,391	2,466	1,849	1,683	1,579
4.....	1,774	1,701	2,807	1,896	2,925	3,257	2,974	2,373	2,949	2,065	1,719	1,701
5.....	1,774	1,701	2,491	2,074	3,171	3,107	3,225	2,391	2,775	2,118	1,701	1,632
6.....	1,774	1,701	2,384	2,583	3,093	3,057	3,174	2,373	2,524	2,086	1,907	1,673
7.....	1,755	1,701	2,340	3,247	2,944	3,066	3,248	2,378	2,713	2,582	1,529	1,632
8.....	1,792	1,666	2,839	2,921	3,205	3,231	3,242	2,354	2,354	2,065	1,774	1,737
9.....	1,774	1,666	2,159	2,374	3,133	3,267	3,227	2,524	2,386	2,004	1,856	1,701
10.....	1,774	1,666	2,135	2,217	2,606	3,415	2,951	2,582	2,775	1,947	1,774	1,792
11.....	1,755	1,648	2,051	2,144	2,478	3,250	3,064	2,754	2,734	1,588	1,719	1,701
12.....	1,774	1,648	2,096	2,236	2,521	3,192	2,208	2,796	2,021	2,191	1,792	1,774
13.....	1,755	1,683	1,967	2,283	2,249	3,240	1,579	2,582	2,622	1,849	1,811	1,762
14.....	1,792	1,737	2,336	2,373	2,153	3,240	1,683	3,063	2,464	2,239	1,686	1,792
15.....	1,792	1,719	1,967	2,210	2,303	3,224	1,447	2,714	2,391	2,021	1,683	1,830
16.....	1,774	1,755	1,967	1,941	2,462	3,228	1,463	2,662	2,294	1,907	1,708	1,811
17.....	1,755	1,737	1,888	1,966	3,061	3,259	1,260	2,832	1,849	1,774	1,666	1,792
18.....	1,792	1,774	1,792	1,984	3,125	3,223	1,512	2,971	2,185	1,431	1,683	1,719
19.....	1,811	1,888	1,737	2,071	3,226	3,217	1,530	2,428	1,719	2,466	1,648	1,755
20.....	1,755	1,988	1,811	1,872	3,253	3,281	1,701	2,111	1,757	1,537	1,755	1,914
21.....	1,792	1,811	1,988	1,983	3,250	3,161	1,665	2,582	1,926	1,774	1,648	1,562
22.....	1,774	1,755	1,907	1,864	3,061	3,104	1,701	2,504	1,927	1,888	1,719	1,701
23.....	1,774	1,762	1,830	1,802	3,235	3,136	1,568	2,804	2,088	1,907	1,690	1,792
24.....	1,774	2,389	1,873	2,082	3,235	3,164	1,200	2,582	1,868	1,431	1,683	1,755
25.....	1,755	2,209	1,858	2,064	3,278	3,125	1,792	2,582	1,579	1,737	1,719	1,701
26.....	1,774	2,429	1,775	1,921	3,220	3,265	2,373	2,485	2,373	1,596	1,666	1,701
27.....	1,774	2,445	1,850	1,860	3,274	3,259	2,373	2,410	1,947	1,781	1,719	1,690
28.....	1,737	2,474	2,021	1,915	3,253	3,278	2,391	2,428	2,075	1,774	1,719	1,719
29.....	1,755	2,664	1,888	1,872	-----	2,431	2,391	1,907	1,988	2,094	1,719	1,648
30.....	1,701	2,354	1,927	1,917	-----	3,150	2,354	2,294	2,065	1,888	1,792	1,947
31.....	1,666	-----	1,868	2,129	-----	3,279	-----	2,865	-----	1,737	1,914	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	1,811	1,666	1,770	109,000
November.....	2,684	1,648	1,900	113,000
December.....	2,895	1,737	2,100	128,000
January.....	3,247	1,737	2,100	129,000
February.....	3,274	2,154	2,680	160,000
March.....	3,415	2,431	3,180	166,000
April.....	3,409	1,200	2,300	137,000
May.....	3,063	1,907	2,530	156,000
June.....	2,949	1,579	2,270	135,000
July.....	2,582	1,431	1,920	118,000
August.....	1,914	1,529	1,730	106,000
September.....	1,947	1,562	1,730	103,000
The year.....	3,415	1,200	2,200	1,590,000

PIT RIVER BELOW PIT NO. 4 DAM, CALIF.

LOCATION.—Water-stage recorder in 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.

RECORDS AVAILABLE.—July to September, 1927. This station replaces station at Lindsay Flat, and records are comparable with those at that point plus flow through Pit No. 3 power house.

EXTREMES.—Maximum discharge during period, 3,580 second-feet September 23 (gage height, 8.97 feet); minimum, 938 second-feet July 22, caused by regulation.

REMARKS.—Records excellent. There are numerous irrigation diversions from Pit River and tributaries above station. Considerable regulation is caused by operations at various power plants and dams above station. Gage-height record and results of discharge measurements furnished by Mount Shasta Power Corporation.

Daily and monthly discharge, in second-feet, 1927

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1		1,850	1,950	11		1,850	1,800	21	1,950	1,760	1,760
2		1,850	1,800	12		1,900	1,800	22	1,900	1,710	1,710
3		1,660	1,800	13		1,900	1,850	23	1,850	1,760	1,780
4		1,660	1,760	14		1,760	1,950	24	1,620	1,800	1,850
5		1,760	1,660	15		1,710	1,900	25	1,660	1,800	1,710
6		1,800	1,660	16		1,760	1,900	26	1,760	1,800	1,760
7		1,800	1,760	17		1,800	1,900	27	1,800	1,800	1,800
8		1,900	1,760	18		1,760	1,800	28	1,800	1,800	1,850
9		1,900	1,800	19		1,760	1,660	29	1,850	1,760	1,800
10		1,850	1,800	20	1,950	1,760	1,710	30	1,900	1,800	1,850
								31	1,760	1,800	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
July 20-31	1,950	1,620	1,820	43,300
August	1,900	1,660	1,790	110,000
September	1,950	1,660	1,800	107,000
The period				260,000

PIT RIVER AT BIG BEND, CALIF.

LOCATION.—Water-stage recorder in sec. 36, T. 37 N., R. 1 W., one-fourth mile above Big Bend. Nelson Creek enters half a mile above and Kosk Creek 1 mile below station.

DRAINAGE AREA.—4,920 square miles (not including area of Goose Lake).

RECORDS AVAILABLE.—September, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 8,600 second-feet February 23 (gage height, 11.23 feet); minimum, 1,220 second-feet December 15, caused by regulation.

1910-1927: Maximum discharge, 13,600 second-feet April 25, 1917 (gage height, 5.39 feet, old datum); minimum, 664 second-feet July 9 and 10, 1925, caused by storage at Lake Britton.

REMARKS.—Records excellent. Considerable water is diverted for irrigation in Fall River and Hat Creek Valleys and upper Pit River Basin. Operations at Mount Shasta Power Corporation's plants affect flow considerably.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1	1,820	1,800	2,950	1,880	2,710	6,340	4,840	4,520	3,530	2,300	2,120	2,150	
2	1,860	1,820	3,180	2,040	2,770	5,860	5,390	4,520	3,260	2,370	2,100	2,010	
3	1,830	1,840	3,560	2,040	4,050	5,500	6,100	4,520	3,170	2,370	1,870	2,010	
4	1,800	1,820	3,320	2,130	5,500	5,280	7,840	4,310	3,350	2,370	1,830	1,930	
5	1,820	1,820	3,080	2,360	5,500	4,940	7,090	4,110	3,440	2,370	1,930	1,880	
6	1,820	1,790	2,780	3,120	5,050	4,730	6,590	4,420	3,170	2,370	2,010	1,890	
7	1,810	1,720	2,800	3,940	4,940	4,620	6,100	4,210	3,350	2,590	1,880	1,940	
8	1,820	1,760	2,640	3,440	4,620	4,420	5,620	4,210	3,000	2,380	1,920	1,880	
9	1,840	1,740	2,320	2,760	4,310	4,420	5,620	4,210	2,920	2,240	2,000	1,940	
10	1,840	1,740	2,340	2,600	3,380	4,420	5,860	4,010	3,080	2,340	1,920	2,010	
11	1,840	1,710	2,250	2,430	3,010	4,420	6,590	4,010	3,480	2,280	1,900	2,010	
12	1,800	1,740	2,240	2,540	3,240	4,420	6,100	3,910	2,870	2,280	1,970	1,940	
13	1,840	1,700	2,220	2,580	2,920	5,050	6,340	3,530	2,660	2,230	1,960	2,010	
14	1,860	1,760	2,450	2,700	2,710	6,590	6,100	4,010	2,980	2,250	1,880	2,150	
15	1,860	1,790	2,220	2,630	2,870	7,840	5,500	3,440	2,920	2,320	1,810	2,080	
16	1,900	1,760	2,190	2,460	3,080	8,090	5,390	3,440	2,820	2,160	1,890	2,080	
17	1,840	1,790	2,080	2,420	3,720	7,340	5,160	3,720	2,720	2,160	1,880	2,080	
18	1,860	1,800	1,940	2,380	4,620	6,590	5,160	3,620	2,540	1,960	1,880	1,980	
19	1,900	2,140	1,920	2,500	5,500	5,860	4,940	3,260	2,070	2,190	1,880	1,930	
20	1,870	2,180	2,040	2,500	6,340	5,500	4,520	3,060	2,140	2,060	1,880	1,940	
21	1,880	1,860	2,170	2,440	7,340	5,280	4,730	3,000	2,140	2,240	1,880	1,920	
22	1,870	1,860	2,090	2,250	7,840	4,940	4,110	3,170	2,580	2,220	1,880	1,970	
23	1,840	1,870	2,030	2,200	8,340	4,840	3,720	3,170	2,840	2,140	1,880	1,960	
24	1,820	2,310	2,020	2,500	7,340	4,730	4,110	3,260	2,430	1,800	1,940	1,980	
25	1,860	2,620	2,060	2,500	6,840	4,520	4,520	3,170	2,080	1,920	1,940	1,940	
26	1,860	2,720	1,920	2,280	6,590	4,420	4,620	3,170	2,280	1,910	1,880	1,940	
27	1,860	2,850	2,020	2,320	6,590	4,210	4,520	3,170	2,400	2,060	1,940	1,940	
28	1,900	2,840	2,200	2,460	6,590	4,420	4,420	3,080	2,360	2,070	1,940	2,010	
29	1,880	3,540	2,100	2,430	-----	3,910	4,520	2,920	2,540	2,150	1,940	2,010	
30	1,840	3,080	2,140	2,600	-----	4,310	4,520	2,920	2,580	2,180	2,010	2,080	
31	1,780	-----	2,120	2,590	-----	4,310	-----	3,060	-----	2,000	2,010	-----	
Month	Maximum				Minimum				Mean				Run-off in acre-feet
October	1,900				1,780				1,850				114,000
November	3,540				1,700				2,060				123,000
December	3,560				1,920				2,370				146,000
January	3,940				1,880				2,520				155,000
February	8,340				2,710				4,940				274,000
March	8,090				3,910				5,230				322,000
April	7,340				3,720				5,340				318,000
May	4,520				2,920				3,650				224,000
June	3,530				2,070				2,790				166,000
July	2,590				1,800				2,200				135,000
August	2,120				1,810				1,930				119,000
September	2,150				1,880				1,990				118,000
The year	8,340				1,700				3,060				2,210,000

PIT RIVER NEAR YDALPOM, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ sec. 32, T. 34 N., R. 3 W., at Silverthorne Ferry, $1\frac{1}{2}$ miles southwest of Ydalpom. Squaw Creek enters half a mile above and McCloud River 4 miles below station.

DRAINAGE AREA.—5,260 square miles (not including area of Goose Lake).

RECORDS AVAILABLE.—November, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 45,700 second-feet February 21 (gage height, 20.78 feet); minimum, 1,420 second-feet November 1.

1910-1927: Maximum discharge, about 47,000 second-feet December 31, 1913 (gage height, about 20.7 feet, present datum); minimum, 1,000 second-feet July 10, 1925, caused by storage at Lake Britton.

REMARKS.—Records excellent; discharge interpolated August 21 and 22. Storage, regulation, and diversions above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1,880	1,880	8,700	2,750	5,660	10,600	14,200	6,280	4,260	2,640	2,250	2,190
2.....	1,960	1,880	8,700	3,210	7,620	9,950	18,200	6,100	3,860	2,640	2,370	2,310
3.....	1,820	1,920	11,600	3,600	15,600	9,280	19,000	6,100	3,860	2,570	2,130	2,130
4.....	1,900	1,880	8,300	3,300	14,900	9,060	14,500	5,920	3,780	2,640	2,070	2,130
5.....	1,910	1,880	6,240	3,710	12,100	8,440	12,500	5,740	4,180	2,640	2,130	2,070
6.....	1,900	1,880	5,260	7,320	12,800	8,020	11,100	6,280	3,940	2,710	2,190	2,010
7.....	1,900	1,880	4,700	7,130	12,100	7,820	9,950	5,920	3,860	2,780	2,130	2,070
8.....	1,910	1,860	4,280	5,900	9,580	7,420	9,060	5,740	4,020	2,710	2,130	2,010
9.....	1,980	1,860	3,760	4,880	8,300	7,620	8,850	5,560	3,700	2,670	2,250	2,070
10.....	2,280	1,860	3,600	4,400	6,870	7,420	8,560	5,560	3,540	2,800	2,250	2,070
11.....	2,200	1,980	3,460	4,420	5,820	7,030	9,280	5,380	4,180	2,870	2,190	2,130
12.....	2,000	2,180	3,380	4,420	5,800	7,030	8,700	5,200	3,700	2,440	2,250	2,070
13.....	1,960	1,980	3,120	4,360	6,360	11,800	8,470	5,200	3,220	2,600	2,250	2,130
14.....	1,970	1,980	3,210	4,230	5,080	13,800	8,380	5,140	3,280	2,500	2,190	2,230
15.....	1,980	1,980	3,080	5,890	7,950	12,300	7,790	4,830	3,460	2,570	2,130	2,230
16.....	1,980	1,910	2,980	7,480	11,100	12,100	7,620	4,680	3,380	2,440	2,130	2,190
17.....	1,980	1,940	2,980	8,870	10,800	10,900	7,220	5,020	3,220	2,870	2,130	2,130
18.....	1,970	2,010	2,640	5,080	19,300	9,720	7,220	4,850	3,000	2,190	2,130	2,130
19.....	1,980	3,280	2,720	7,310	14,700	8,640	6,840	4,800	2,710	2,310	2,130	2,010
20.....	2,010	3,420	2,660	8,190	22,700	8,020	6,460	4,340	2,810	2,310	2,130	2,010
21.....	1,980	2,470	2,920	6,320	31,700	7,620	6,280	4,100	2,570	2,440	2,130	2,130
22.....	1,980	2,680	2,860	5,320	19,300	7,220	6,280	4,260	2,860	2,440	2,130	2,070
23.....	1,980	3,540	2,740	4,740	16,800	7,030	5,660	4,100	3,000	2,440	2,130	2,190
24.....	1,940	7,320	2,700	4,430	14,400	7,030	5,920	4,180	3,000	2,130	2,130	2,190
25.....	1,980	7,700	2,670	4,460	13,300	6,840	6,460	4,260	2,500	2,010	2,130	2,070
26.....	1,980	9,580	2,620	4,280	13,000	6,650	6,650	4,100	2,640	2,130	2,130	2,010
27.....	1,980	7,900	2,460	6,080	12,100	6,650	6,060	4,100	2,710	2,250	2,130	2,070
28.....	1,960	6,770	2,670	11,600	11,300	6,460	5,460	4,020	2,710	2,310	2,130	2,130
29.....	1,980	11,400	2,720	7,210	-----	6,040	6,280	3,860	2,860	2,370	2,130	2,130
30.....	1,940	12,900	2,640	5,750	-----	6,460	6,280	3,700	2,930	2,370	2,130	2,130
31.....	1,800	-----	2,620	5,420	-----	6,840	-----	3,620	-----	2,310	2,190	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	2,280	1,860	1,970	121,000
November.....	12,600	1,860	3,780	225,000
December.....	11,600	2,460	4,030	248,000
January.....	11,600	2,750	5,460	384,000
February.....	21,700	5,030	12,300	688,000
March.....	13,600	6,040	8,450	420,000
April.....	19,000	5,560	8,890	539,000
May.....	6,280	3,620	4,930	303,000
June.....	4,260	3,310	3,310	197,000
July.....	2,780	2,010	2,450	151,000
August.....	2,870	2,070	2,160	133,000
September.....	2,310	2,010	2,120	126,000
The year.....	31,700	1,850	4,930	3,870,000

SACRAMENTO RIVER BASIN

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PINE CREEK NEAR ALTURAS, CALIF.

LOCATION.—Staff gage in SE. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 35, T. 42 N., R. 13 E., at Alturas Electric Light & Power Co.'s power house, 6 miles above mouth of creek and 9 miles southeast of Alturas.

DRAINAGE AREA.—31 square miles.

RECORDS AVAILABLE.—May, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, 82 second-feet June 18 (gage height, 2.46 feet); minimum, 7 second-feet January 9.

1918-1927: Maximum discharge, 147 second-feet March 29, 1919, and December 30, 1920 (gage height, 3.20 feet); minimum, 2.3 second-feet January 5 and 26, 1919.

REMARKS.—Records good. The Alturas Electric Light & Power Co.'s canal diverts water above gage and returns it to the creek 30 feet above gage. Diurnal fluctuation caused by operation of power plant. Gage-height record furnished by Peoples California Hydroelectric Corporation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	12	14	14	12	16	15	25	38	48	48	23	17
2.....	12	13	12	21	33	14	22	38	48	44	23	17
3.....	9	14	15	16	40	14	24	38	52	40	21	16
4.....	14	12	14	15	24	15	22	38	48	40	21	16
5.....	13	12	10	14	17	12	17	43	44	40	20	16
6.....	14	13	15	15	12	10	18	44	52	42	21	15
7.....	14	9.5	13	12	13	12	18	44	52	35	17	15
8.....	14	12	14	13	14	12	22	41	64	35	18	16
9.....	12	10	12	7.5	14	14	32	44	69	35	21	16
10.....	11	14	11	12	12	13	33	43	64	35	20	16
11.....	13	12	11	11	13	22	31	38	60	32	21	14
12.....	13	12	8.5	12	14	18	16	48	64	30	19	17
13.....	14	12	10	12	9.5	36	17	48	69	36	17	16
14.....	12	7.5	9.5	12	12	36	16	48	69	30	16	16
15.....	13	9.5	10	12	13	37	16	48	69	30	16	16
16.....	11	9.5	12	9.5	12	18	17	56	69	28	18	15
17.....	9.5	10	12	10	15	19	15	64	74	28	19	14
18.....	14	12	13	10	38	18	19	74	74	32	19	14
19.....	14	12	9.5	11	19	20	20	78	64	28	19	16
20.....	12	11	13	10	40	21	20	69	64	27	17	14
21.....	15	9	13	10	48	23	17	60	60	28	16	14
22.....	13	11	13	9	19	16	20	69	60	27	20	14
23.....	14	11	10	9.5	19	16	28	60	60	28	17	14
24.....	3.5	16	12	10	16	17	30	52	60	24	18	15
25.....	15	9.5	9	14	16	17	35	52	56	26	16	12
26.....	13	12	9	12	52	18	41	52	56	24	16	15
27.....	15	15	11	13	18	16	44	52	56	24	17	14
28.....	13	12	12	11	15	16	41	52	52	23	14	15
29.....	13	13	14	14	-----	15	44	48	52	20	17	16
30.....	13	14	13	10	-----	15	42	52	48	20	17	14
31.....	11	-----	12	13	-----	16	-----	52	-----	23	16	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	15	8.5	12.7	781
November.....	16	7.5	11.8	702
December.....	15	8.5	11.8	726
January.....	21	7.5	12.0	738
February.....	52	9.5	20.8	1,160
March.....	37	10	18.1	1,119
April.....	44	15	25.4	1,510
May.....	78	38	51.1	3,140
June.....	74	44	59.2	3,520
July.....	48	20	31.0	1,910
August.....	23	14	18.4	1,130
September.....	17	12	15.1	899
The year.....	78	7.5	23.9	17,300

SURFACE WATER SUPPLY, 1927, PART XI

McARTHUR DRAINAGE CANAL AT McARTHUR, CALIF.

LOCATION.—Staff gage in sec. 4, T. 37 N., R. 5 E., $1\frac{1}{4}$ miles north of McArthur.
 RECORDS AVAILABLE.—December, 1923, to September, 1927.

REMARKS.—Records fair. Daily discharge is result of daily current meter measurement and may not be mean for day. This canal diverts from headwaters of Fall River, and its lower end spills into Pit River. It is used for power development and for irrigation and drainage of lands on north side of Pit River and for irrigation on south side. Records furnished by Mount Shasta Power Corporation.

Daily discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	42	40	50	-----	226	-----	43	77	142	83
2.....	42	41	49	-----	236	-----	64	41	78	83
3.....	42	42	25	-----	-----	62	40	-----	150	89
4.....	41	43	10	-----	-----	62	43	78	156	82
5.....	40	44	9	-----	-----	58	-----	77	158	82
6.....	41	42	10	-----	-----	64	40	77	82	81
7.....	41	42	10	-----	-----	66	41	79	80	82
8.....	40	43	-----	-----	-----	-----	43	80	79	82
9.....	40	43	44	-----	-----	72	41	80	80	82
10.....	40	44	-----	-----	-----	75	41	78	81	80
11.....	40	45	10	-----	-----	72	60	78	81	-----
12.....	41	45	9	-----	-----	71	55	79	80	84
13.....	41	45	7	-----	-----	71	49	79	81	83
14.....	41	46	6	-----	-----	71	45	79	80	83
15.....	41	44	43	-----	-----	-----	45	79	81	82
16.....	41	45	47	-----	-----	67	43	79	81	83
17.....	41	44	42	-----	-----	59	42	153	81	84
18.....	41	43	-----	-----	-----	48	65	152	81	84
19.....	41	46	42	-----	-----	43	76	156	79	84
20.....	39	45	41	-----	-----	41	77	157	81	82
21.....	40	43	42	-----	-----	43	77	82	80	83
22.....	39	46	43	-----	74	39	76	83	80	83
23.....	41	45	42	-----	-----	39	76	83	79	84
24.....	42	51	43	-----	-----	39	77	157	78	84
25.....	41	53	43	-----	-----	40	76	159	82	83
26.....	41	48	42	-----	74	41	74	153	79	84
27.....	41	50	43	-----	-----	40	76	152	80	84
28.....	42	50	41	-----	-----	43	78	146	-----	82
29.....	42	48	41	-----	70	39	78	142	81	82
30.....	41	48	41	-----	68	39	75	143	83	82
31.....	40	-----	43	214	-----	41	-----	143	82	-----

NOTE.—No measurements made on days for which no discharge is given.

HAT CREEK NEAR HAT CREEK, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 28, T. 33 N., R. 5 E., 5 miles below the Big Springs and 11 miles southeast of Hat Creek.

RECORDS AVAILABLE.—July, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 335 second-feet November 24; minimum, 91 second-feet October 20–23 and October 29 to November 11.

1926–1927: Maximum discharge, that of November 24, 1926; minimum, 79 second-feet September 4–6, 1926.

REMARKS.—Records fair. Five ranches divert water above gage for irrigation and domestic use.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	94	91	162	* 103	* 110	127	119	159	168	172	113	* 101
2.....	94	91	175	127	* 115	121	111	162	178	168	113	* 99
3.....	94	91	159	137	111	121	114	165	188	164	111	* 98
4.....	94	91	137	124	105	119	114	168	* 194	165	110	* 98
5.....	94	91	132	124	107	116	114	176	* 200	151	110	* 98
6.....	94	91	129	116	* 106	116	114	175	* 207	151	110	98
7.....	94	91	121	107	* 106	116	114	162	* 213	146	111	105
8.....	94	91	119	107	105	119	114	159	220	146	111	* 106
9.....	95	91	111	116	100	116	114	159	* 210	146	107	* 107
10.....	97	91	114	116	100	114	116	165	200	151	105	* 108
11.....	97	91	114	111	100	111	116	168	195	151	104	109
12.....	96	92	111	* 110	100	111	116	175	195	155	104	109
13.....	96	93	109	* 109	103	127	116	185	200	155	104	109
14.....	96	94	100	* 108	103	124	116	210	210	151	102	109
15.....	96	95	103	107	100	114	116	* 222	220	142	100	109
16.....	95	95	* 104	105	103	111	116	233	220	136	100	109
17.....	94	95	* 104	100	100	109	116	229	215	134	100	109
18.....	94	94	* 105	103	105	107	116	206	200	132	100	109
19.....	93	102	105	* 103	105	109	116	* 198	190	132	107	* 109
20.....	91	109	105	* 103	111	114	119	* 190	205	129	* 109	* 108
21.....	91	106	* 105	103	137	114	119	182	210	123	111	* 108
22.....	91	113	* 104	98	129	114	121	* 180	210	119	109	* 108
23.....	91	132	* 102	98	124	114	124	* 178	205	118	* 109	* 108
24.....	* 92	263	* 100	103	121	116	132	175	195	116	* 109	* 107
25.....	* 93	225	103	* 103	127	116	140	188	195	115	* 109	107
26.....	94	146	* 103	* 103	137	116	149	199	190	115	* 109	107
27.....	94	116	* 103	* 103	129	116	162	195	181	113	* 109	107
28.....	* 92	119	* 103	* 103	127	116	156	171	172	111	109	107
29.....	91	129	* 103	* 103	-----	116	156	162	168	111	* 107	109
30.....	91	195	* 103	103	-----	116	162	159	168	113	* 105	109
31.....	91	-----	* 103	105	-----	119	-----	162	-----	113	* 103	-----
Month	Maximum		Minimum		Mean		Run-off in acre-feet					
October.....	97		91		93.6		5,760					
November.....	263		91		114		6,780					
December.....	175		100		115		7,070					
January.....	137		98		108		6,640					
February.....	137		100		112		6,220					
March.....	127		107		116		7,130					
April.....	162		111		124		7,380					
May.....	233		159		181		11,100					
June.....	220		168		197		11,700					
July.....	172		111		137		8,420					
August.....	113		100		107		6,580					
September.....	109		98		106		6,310					
The year.....	263		91		126		91,100					

* Estimated because of ice or missing gage height.

MCCLOUD RIVER AT BAIRD, CALIF.

LOCATION.—Staff gage in NW. ¼ sec. 23, T. 34 N., R. 4 W., at United States fishery at Baird, 2 miles above junction with Pit River.

DRAINAGE AREA.—665 square miles.

RECORDS AVAILABLE.—December, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 18,000 second-feet April 2 (gage height, 11.4 feet); minimum 765 second-feet several days in October and November.

1910-1927: Maximum discharge, 27,600 second-feet February 2, 1917 (gage height, 14.3 feet); minimum, 740 second-feet August 29 to September 11, 1924.

REMARKS.—Records good. No diversions. Gage-height record furnished by W. K. Hancock, superintendent of the United States fishery.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	890	765	9,660	1,210	2,510	4,120	6,110	3,600	1,780	1,350	1,140	1,030
2	890	765	7,950	1,590	4,120	4,380	18,000	3,350	1,780	1,430	1,140	1,030
3	890	765	11,300	1,590	9,220	3,860	16,800	3,110	1,780	1,430	1,140	1,030
4	865	765	14,800	1,590	8,160	3,740	9,480	2,990	1,780	1,350	1,140	1,030
5	865	765	5,070	1,590	5,650	3,500	6,600	2,990	1,780	1,350	1,140	1,030
6	915	765	3,990	1,760	5,500	3,380	5,500	3,350	1,780	1,280	1,080	1,030
7	915	765	3,270	2,940	5,210	3,160	4,930	3,110	2,190	1,280	1,080	1,030
8	890	765	2,830	2,510	4,250	3,050	4,380	3,110	2,190	1,280	1,080	1,030
9	985	765	2,510	2,210	3,620	3,160	3,350	2,680	1,980	1,280	1,080	1,030
10	1,170	765	2,410	2,210	3,160	2,940	3,600	2,520	1,780	1,280	1,080	1,030
11	968	890	2,120	2,310	2,830	2,720	3,350	2,520	1,780	1,280	1,080	980
12	940	940	1,940	2,310	2,720	2,610	3,230	2,520	1,690	1,280	1,080	980
13	790	895	1,940	2,210	2,510	2,830	2,990	2,520	1,600	1,280	1,080	1,030
14	765	840	1,760	2,080	2,410	3,380	2,870	2,630	1,660	1,280	1,080	1,030
15	790	840	1,670	2,720	3,160	3,160	2,870	2,630	1,600	1,280	1,080	980
16	790	840	1,590	4,120	5,650	2,940	2,870	2,990	1,980	1,280	1,080	980
17	735	790	1,590	3,620	4,660	2,830	2,630	3,110	1,880	1,280	1,080	980
18	765	790	1,590	2,410	10,600	2,720	2,630	2,760	1,780	1,210	1,080	980
19	765	1,230	1,510	3,380	6,970	2,510	2,630	2,630	1,600	1,210	1,080	980
20	765	1,490	1,430	3,990	7,550	2,410	2,520	2,520	1,600	1,210	1,030	980
21	765	1,420	1,430	3,160	15,600	2,310	2,520	2,300	1,510	1,210	1,030	980
22	765	1,350	1,430	2,720	9,660	2,310	2,520	2,190	1,510	1,140	1,030	1,030
23	790	1,420	1,350	2,510	6,790	2,310	2,630	2,080	1,510	1,140	1,030	1,030
24	790	7,750	1,280	2,210	5,650	2,410	2,870	2,080	1,510	1,140	1,030	980
25	790	5,950	1,280	2,120	5,360	2,510	3,110	2,080	1,430	1,140	1,030	980
26	765	9,880	1,280	1,940	5,800	2,510	3,470	2,190	1,430	1,140	1,030	980
27	765	6,440	1,280	2,510	5,210	2,610	3,860	2,190	1,510	1,140	1,030	980
28	765	5,210	1,210	5,070	4,510	2,510	3,600	1,980	1,510	1,140	1,030	980
29	765	8,370	1,210	3,380	-----	2,410	3,470	1,980	1,550	1,140	1,030	980
30	765	16,400	1,210	2,890	-----	2,410	3,470	1,880	1,430	1,140	1,030	980
31	790	-----	1,210	2,510	-----	3,270	-----	1,780	-----	1,140	1,030	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,170	765	836	51,400
November	16,400	765	2,710	161,000
December	14,800	1,210	3,070	189,000
January	5,070	1,210	2,560	157,000
February	15,600	2,410	5,680	314,000
March	4,380	2,310	2,930	180,000
April	18,000	2,520	4,630	276,000
May	3,600	1,780	2,590	159,000
June	2,190	1,350	1,690	101,000
July	1,430	1,140	1,240	76,200
August	1,140	1,030	1,070	65,800
September	1,030	980	1,000	52,500
The year	18,000	765	2,480	1,700,000

ELK CREEK NEAR McCLOUD, CALIF.

LOCATION.—In sec. 3, T. 39 N., R. 2 W., half a mile upstream from McCloud-Bartel road crossing and 4 miles east of McCloud.

RECORDS AVAILABLE.—March to September, 1927.

EXTREMES.—Maximum mean daily discharge during the year, 37 second-feet May 15, 1927.

REMARKS.—Mud Creek, which is notable for its large load of glacial silt from Mount Shasta, is diverted into Elk Creek above the station, and the record is practically the flow of Mud Creek. Tributary springs add about 10 second-feet to Elk Creek below the gaging station. Record of daily discharge furnished by H. L. Haehl.

Daily and monthly discharge, in second-feet, 1926-27

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....			* 13	17	* 26	* 21	12
2.....			* 12	19	27	20	16
3.....			* 11	20	* 26	* 21	16
4.....			* 10	26	* 25	* 22	12
5.....		5.0	* 9.5	32	24	23	13
6.....			* 9	* 33	* 24	* 23	11
7.....			8.5	34	* 24	* 22	11
8.....			8	34	* 23	22	10
9.....			* 9	33	23	* 22	9.5
10.....			* 10	33	* 25	* 23	9
11.....			* 12	34	27	23	9
12.....			* 14	29	* 29	* 22	9
13.....			15	32	31	* 22	9.5
14.....			25	32	* 28	* 21	9.5
15.....			37	34	* 26	20	8.5
16.....			36	29	* 24	* 20	9.5
17.....			22	36	22	* 20	16
18.....			19	34	* 28	20	18
19.....			17	34	33	* 20	17
20.....			12	34	* 32	* 19	18
21.....		10	11	35	30	19	16
22.....		7.5	* 11	35	* 31	* 13	18
23.....		8	* 12	26	* 32	17	12
24.....		8.5	12	23	33	17	11
25.....		11	16	24	* 38	15	10
26.....		12	30	18	23	13	12
27.....		20	30	18	* 24	13	11
28.....		15	14	14	26	13	11
29.....		16	13	25	* 24	12	10
30.....	10	13	11	25	23	10	9.5
31.....			11		* 22	11	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May.....	37	8	15.5	953
June.....	36	14	23.4	1,690
July.....	33	22	26.5	1,830
August.....	23	10	18.9	1,160
September.....	18	8.5	12.0	714
The period.....				6,150

* Estimated.

THOMAS CREEK BASIN

THOMAS CREEK AT PASKENTA, CALIF.

LOCATION.—Staff gage in NE. $\frac{1}{4}$ sec. 4, T. 23 N., R. 6 W., at highway bridge at Paskenta.

RECORDS AVAILABLE.—January, 1921, to September, 1927. Also gage heights October, 1920, to January, 1921.

EXTREMES.—Maximum discharge during year, about 11,500 second-feet February 20 (gage height, 9.1 feet); minimum, 0.2 second-foot August 30 and 31.

1921-1927: Maximum discharge, that of February 20, 1927; no flow September 9 and 10, 1921, September 7 to October 3, 1922, June 25 to October 21, 1924, and August 20 to September 15, 1926.

REMARKS.—Records good. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.8	4.5	1,480	54	632	1,090	1,360	790	194	66	12	0.5
2.....	1.2	4.5	5,920	505	1,350	1,470	1,600	790	178	66	12	1.2
3.....	4.0	4.5	3,020	1,160	2,110	1,140	1,410	690	150	62	12	2.0
4.....	4.5	4.5	2,020	632	990	990	990	642	135	50	12	4.0
5.....	6	5	830	443	880	990	890	523	120	46	12	3.6
6.....	5	6	680	417	1,160	1,090	790	614	157	46	12	4.0
7.....	4.5	6	632	367	880	990	690	577	221	46	12	6
8.....	6	6	585	462	680	890	614	823	290	46	12	5
9.....	7.5	6	569	521	492	740	595	441	303	46	14	4.0
10.....	8	8	505	585	417	690	595	355	242	46	16	4.0
11.....	8	8	462	880	367	577	577	489	242	39	12	4.0
12.....	10	10	430	880	367	614	550	505	221	39	12	4.0
13.....	12	10	380	830	417	1,470	505	577	221	39	12	4.4
14.....	13	10	320	880	569	1,880	465	614	194	32	12	4.8
15.....	13	10	268	730	632	1,300	523	595	178	32	11	5.5
16.....	13	13	214	521	1,220	1,300	577	642	157	26	11	6
17.....	10	18	182	443	632	1,090	550	614	150	20	10	6
18.....	9	25	167	417	5,920	740	505	523	150	20	9.5	6
19.....	8	78	132	398	3,020	614	523	505	135	20	9.5	9
20.....	8	106	112	367	6,360	614	523	441	120	20	9	7
21.....	10	106	156	367	7,680	690	595	390	106	16	7	6
22.....	10	112	174	367	2,690	740	690	342	92	16	5	6
23.....	10	174	156	367	1,730	940	790	290	87	12	4.0	5
24.....	10	990	138	890	1,360	1,140	990	290	71	12	2.0	6
25.....	9	730	132	443	1,360	990	1,190	322	66	12	1.7	6
26.....	8	880	106	338	1,300	990	1,300	290	71	12	1.2	6
27.....	7.5	968	84	367	1,140	940	1,190	303	92	12	.5	6
28.....	6	1,770	78	632	1,090	840	1,140	290	87	12	.5	6
29.....	5	3,020	78	430	-----	790	1,140	260	79	12	.4	5.5
30.....	4.5	1,930	66	367	-----	690	1,090	230	66	12	.2	6
31.....	4.5	-----	54	367	-----	790	-----	194	-----	12	.2	-----
Month						Maximum	Minimum	Mean	Run-off in acre-feet			
October.....						13	0.8	7.61	468			
November.....						3,020	4.5	367	21,800			
December.....						5,920	54	649	39,900			
January.....						1,160	54	513	31,500			
February.....						7,680	367	1,690	99,900			
March.....						1,880	577	962	59,200			
April.....						1,600	465	832	49,500			
May.....						790	194	473	29,100			
June.....						303	66	152	9,040			
July.....						66	12	30.5	1,880			
August.....						16	.2	8.28	509			
September.....						9	.6	4.93	296			
The year.....						7,680	.2	466	337,000			

DEER CREEK BASIN

DEER CREEK NEAR VINA, CALIF.

LOCATION.—Staff gage in NW. $\frac{1}{4}$ sec. 23, T. 25 N., R. 1 W., $2\frac{1}{2}$ miles northeast of Roberts ranch house and $9\frac{1}{2}$ miles northeast of Vina.

RECORDS AVAILABLE.—October, 1911, to December, 1915, and March, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,400 second-feet February 3 (gage height, 7.60 feet); minimum, 66 second-feet October 1 and 19-22.

1911-1915, 1920-1927: Maximum discharge, 6,920 second-feet December 31, 1913 (gage height, 11.0 feet); minimum, 60 second-feet June 29 to July 1, 1924 (gage height, 1.62 feet).

REMARKS.—Records fair. No diversions. Gage-height record furnished by Stanford-Vina Ranch Irrigation Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	66	70	600	114	356	710	800	580	245	124	92	85
2-----	80	70	1,550	114	496	665	1,480	538	231	121	92	86
3-----	78	70	700	390	3,400	601	1,140	518	217	120	92	86
4-----	77	70	500	390	1,550	559	950	508	204	118	91	86
5-----	74	70	424	568	1,550	478	850	498	204	115	90	81
6-----	70	70	390	1,020	1,010	478	800	498	204	112	90	76
7-----	67	70	356	642	900	458	710	458	204	110	89	78
8-----	68	70	300	604	710	478	710	418	204	109	88	78
9-----	68	70	244	532	559	478	665	418	204	108	86	78
10-----	152	70	188	496	498	458	644	399	191	106	86	85
11-----	152	96	188	532	418	418	622	380	191	106	86	84
12-----	152	123	188	460	362	399	538	380	191	106	86	84
13-----	111	132	170	460	326	665	518	380	191	105	87	84
14-----	70	107	152	442	850	1,200	518	418	180	104	86	83
15-----	69	82	147	424	1,270	850	518	438	168	104	86	82
16-----	68	82	142	460	2,620	665	488	458	168	103	86	83
17-----	67	82	142	460	1,690	665	458	418	161	102	85	84
18-----	67	82	142	424	2,620	580	458	428	154	101	84	85
19-----	66	82	152	460	1,480	538	458	438	146	101	84	86
20-----	66	142	182	532	1,340	478	458	380	144	100	84	83
21-----	66	165	132	424	3,100	458	458	343	141	98	84	80
22-----	66	188	132	356	2,170	458	478	343	140	97	84	78
23-----	67	291	132	307	1,480	478	518	343	138	96	84	78
24-----	68	2,260	129	244	1,070	478	580	326	136	94	84	79
25-----	70	1,340	126	259	1,010	478	622	308	134	94	84	79
26-----	72	2,620	123	259	1,070	478	665	275	131	93	84	78
27-----	72	2,900	123	307	900	478	665	280	134	93	84	78
28-----	72	765	123	478	755	458	665	292	138	92	89	78
29-----	71	1,000	118	424	-----	438	665	280	133	94	88	78
30-----	71	720	114	373	-----	418	622	262	128	97	86	78
31-----	70	-----	114	291	-----	538	-----	245	-----	94	85	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October-----	152	66	79.1	4,860
November-----	2,900	70	465	27,700
December-----	1,550	114	264	16,200
January-----	1,020	114	427	26,300
February-----	3,400	326	1,270	70,500
March-----	1,200	399	548	33,700
April-----	1,480	458	657	39,100
May-----	580	245	393	24,200
June-----	245	128	173	10,200
July-----	124	92	104	6,400
August-----	92	84	86.6	5,320
September-----	86	76	81.4	4,840
The year-----	3,400	66	372	269,000

NOTE.—Gage read daily January to May and every other day during rest of year. Discharge estimated or interpolated for days of missing gage height.

STONY CREEK BASIN

STONY CREEK NEAR STONYFORD, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 35, T. 18 N., R. 7 W., at East Park feed canal diversion dam, $3\frac{1}{2}$ miles west of Stonyford.

DRAINAGE AREA.—97 square miles.

RECORDS AVAILABLE.—April, 1913, to December, 1914; November, 1918, to September, 1927.

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 United States Bureau of Reclamation through R. C. E. Weber, project manager.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	28	500	108	375	565	1,230	235	124	80	48	46
2	24	28	2,400	375	555	545	1,270	225	124	76	48	46
3	24	28	2,200	317	1,230	495	555	225	124	72	48	46
4	27	26	1,030	309	945	465	690	220	128	72	48	46
5	29	26	590	248	690	410	595	225	128	72	48	46
6	29	26	400	266	650	380	565	230	128	68	48	46
7	29	26	400	244	610	365	420	220	133	68	48	46
8	29	26	265	207	585	360	395	200	137	64	48	46
9	37	26	240	197	450	360	365	190	133	64	48	46
10	76	26	196	250	375	350	325	185	128	61	48	46
11	37	27	191	990	325	325	300	190	124	61	48	43
12	32	44	167	590	285	310	290	185	120	61	48	43
13	32	58	157	357	275	570	270	195	115	58	48	43
14	32	36	149	320	595	625	265	220	112	53	48	43
15	32	32	133	350	725	535	255	245	104	55	48	43
16	32	31	185	345	1,580	465	240	255	96	51	48	40
17	32	31	185	294	1,200	365	235	250	92	51	48	40
18	32	32	133	275	3,700	350	230	225	92	51	48	40
19	28	32	122	264	1,020	325	250	208	92	51	48	40
20	28	45	118	378	2,440	315	280	190	92	51	48	40
21	28	39	122	298	4,850	300	230	185	92	51	48	40
22	28	231	117	263	1,640	300	230	180	85	51	48	40
23	28	89	114	242	1,280	300	235	160	81	51	48	40
24	28	1,010	106	242	640	305	245	150	81	51	48	40
25	28	520	108	236	880	305	290	155	85	51	48	40
26	28	700	104	242	860	305	320	160	92	48	48	40
27	28	1,600	100	320	710	300	325	165	92	51	48	40
28	28	590	100	580	610	270	320	160	89	48	46	40
29	28	1,240	97	540	-----	265	300	150	85	48	46	40
30	28	800	95	380	-----	255	265	135	85	48	46	40
31	28	-----	94	340	-----	275	-----	130	-----	48	46	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	76	22	30.7	1,890
November	1,600	26	252	15,000
December	2,400	94	349	21,500
January	990	108	332	20,400
February	4,850	265	1,130	62,200
March	625	255	377	28,200
April	1,270	230	400	23,300
May	255	130	195	12,080
June	137	81	106	6,310
July	80	48	57.8	3,590
August	48	46	47.7	2,030
September	48	40	42.4	2,520
The year	4,850	22	270	108,000

STONY CREEK NEAR ELK CREEK, CALIF.

LOCATION.—Staff gage in NW. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 27, T. 20 N., R. 6 W., at county road bridge, $2\frac{1}{4}$ miles south of Elk Creek.

DRAINAGE AREA.—298 square miles.

RECORDS AVAILABLE.—May, 1919, to September, 1927.

EXTREMES.—1919-1927: Maximum discharge, about 10,200 second-feet January 31, 1921 (gage height, 7.80 feet); no flow parts of July to October, 1924.

REMARKS.—Water is stored in East Park Reservoir on Little Stony Creek and released during irrigating season. Daily-discharge record furnished by United States Bureau of Reclamation through R. C. E. Weber, project manager.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	25	1,470	26	510	880	520	280	117	214	311	231
2	19	25	7,006	315	550	830	2,000	260	201	241	308	231
3	19	28	4,500	260	2,200	800	1,360	242	201	261	305	231
4	14	21	1,189	92	1,250	700	1,049	242	201	261	295	281
5	12	21	675	51	1,170	620	950	236	201	261	289	231
6	12	21	850	55	1,050	550	800	229	201	258	283	231
7	12	22	279	46	1,000	550	625	223	201	254	283	231
8	12	25	145	31	750	620	439	216	144	247	289	214
9	14	27	198	31	650	520	400	210	139	276	254	211
10	19	28	96	200	600	500	400	210	133	288	254	211
11	19	25	81	1,000	580	500	380	207	126	263	251	204
12	19	21	70	650	525	600	369	207	125	263	265	204
13	19	20	51	350	500	530	345	205	107	276	265	201
14	19	19	48	300	2,280	800	320	205	171	276	265	201
15	19	19	40	290	2,700	550	310	202	201	276	265	201
16	19	19	37	260	6,650	520	310	205	214	276	254	198
17	19	19	37	260	4,800	520	285	205	214	289	254	198
18	19	19	37	220	8,800	510	280	210	214	289	254	198
19	29	19	37	875	6,000	500	280	210	235	289	244	177
20	29	19	38	575	7,900	475	260	229	241	289	244	171
21	29	34	34	250	7,400	430	255	223	260	292	244	168
22	29	46	34	185	3,550	400	250	173	260	292	224	171
23	31	850	32	163	2,000	350	255	155	241	295	224	174
24	31	650	31	282	1,750	325	275	144	241	295	214	168
25	31	675	30	267	1,420	300	310	135	235	295	214	151
26	29	650	26	430	1,220	280	310	123	214	295	214	181
27	29	700	28	830	1,130	290	290	116	214	299	214	181
28	29	1,430	28	730	950	250	275	116	214	302	238	181
29	28	1,500	25	575	-----	250	275	116	201	305	235	181
30	28	800	26	430	-----	240	260	116	201	308	235	181
31	25	-----	26	465	-----	290	-----	116	-----	311	261	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	31	12	21.9	1,350
November	1,500	19	242	14,400
December	7,000	25	532	82,700
January	1,000	26	340	20,900
February	8,800	500	2,430	128,000
March	8,880	240	492	80,300
April	2,000	250	481	26,600
May	280	116	192	11,800
June	260	107	196	11,700
July	311	214	280	17,300
August	311	214	255	15,700
September	231	168	199	11,600
The year	8,800	12	461	334,000

STONY CREEK NEAR ORLAND, CALIF.

LOCATION.—Staff gage in NW. $\frac{1}{4}$ 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, 1927.

EXTREMES.—1920-1927: Maximum discharge, 19,500 second-feet January 30, 1921 (gage height, 10.3 feet); no flow November 11, 1920, and August 24 to September 30, 1924.

REMARKS.—Water is stored in East Park Reservoir on Little Stony Creek and released during irrigating season. Daily-discharge record furnished by United States Bureau of Reclamation through R. C. E. Weber, project manager.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.				
1.....	16	12	1,700	132	640	1,770	820	565	230	215	252	183				
2.....	16	12	6,700	130	730	1,770	850	530	215	212	230	181				
3.....	15	12	12,300	160	2,780	1,600	2,780	530	255	215	215	179				
4.....	14	12	1,660	142	2,600	1,530	1,770	505	255	223	215	179				
5.....	12	12	980	135	4,400	1,530	1,120	499	252	230	211	177				
6.....	12	12	635	132	1,600	1,470	1,050	490	249	230	206	177				
7.....	11	12	500	130	1,400	1,470	980	480	255	230	202	177				
8.....	9	12	450	130	1,400	1,470	490	462	230	230	200	177				
9.....	8	12	310	185	1,300	1,250	810	442	240	230	200	165				
10.....	8	12	206	2,200	1,100	1,200	870	442	230	230	202	162				
11.....	8	12	185	1,170	995	1,100	870	418	223	230	204	160				
12.....	8	16	205	750	995	1,100	810	404	200	230	200	157				
13.....	8	14	185	420	940	950	760	430	190	230	199	160				
14.....	8	13	175	550	1,300	900	710	430	178	230	197	160				
15.....	8	13	167	640	2,650	900	710	442	183	230	193	156				
16.....	7	13	167	730	3,650	930	575	480	223	223	192	157				
17.....	7	12	167	600	8,000	930	575	490	230	223	192	157				
18.....	7	11	167	500	14,800	930	490	450	230	223	189	156				
19.....	8	13	165	600	5,800	900	490	442	230	230	186	156				
20.....	8	16	165	600	8,800	950	575	430	230	230	186	156				
21.....	9	18	159	500	14,600	1,200	660	410	230	223	185	153				
22.....	9	21	150	480	8,100	1,140	620	418	230	219	181	153				
23.....	9	21	150	460	7,500	1,100	575	380	230	215	177	151				
24.....	10	30	148	310	7,800	1,000	660	310	223	215	177	150				
25.....	12	1,300	147	450	6,500	1,000	660	310	219	227	175	150				
26.....	12	1,650	146	450	3,500	950	710	304	219	234	175	148				
27.....	12	2,300	140	730	3,100	930	660	304	212	238	170	148				
28.....	13	2,300	138	1,450	2,200	930	575	304	210	230	179	144				
29.....	13	4,000	135	1,170	-----	900	575	298	210	232	183	146				
30.....	12	1,650	134	730	-----	880	575	295	215	240	186	150				
31.....	12	-----	132	680	-----	820	-----	255	-----	249	186	-----				
Month													Maximum	Minimum	Mean	Run-off in acre-feet
October.....													16	7	10.4	640
November.....													4,000	11	451	26,800
December.....													12,300	132	928	57,100
January.....													2,200	130	563	34,600
February.....													14,800	640	4,250	236,000
March.....													1,770	820	1,150	70,700
April.....													2,750	490	826	49,200
May.....													565	255	418	28,700
June.....													255	178	224	13,800
July.....													249	212	227	14,000
August.....													252	170	195	12,000
September.....													183	144	161	9,580
The year.....													14,800	7	759	550,000

LITTLE STONY CREEK NEAR LODOGA, CALIF.

LOCATION.—Staff gage at East Park Reservoir Dam, 4 miles above junction with Stony Creek and $3\frac{1}{4}$ 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, 1927.

EXTREMES.—1908–1927: Maximum discharge, 7,060 second-feet February 2, 1909 (gage height, 11.8 feet); no flow during parts of nearly every year.

REMARKS.—East Park Reservoir is used for storage for the Orland project of the United States Bureau of Reclamation. Water from Stony Creek is diverted to the reservoir by the East Park feed canal. Daily-discharge record furnished by United States Bureau of Reclamation through R. C. E. Weber, project manager.

Daily and monthly discharge, in second-feet, 1926–27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1	0	148	20	150	165	350	35	15	3
2	0	630	20	155	180	475	30	15	2
3	0	2,700	155	700	175	150	30	15	2
4	0	670	90	500	165	125	28	14	2
5	0	250	70	320	150	115	35	14	1
6	0	200	65	250	125	100	40	14	1
7	0	150	60	210	110	95	45	13	1
8	0	95	55	205	105	90	42	13	1
9	0	85	50	190	105	85	38	13	1
10	0	62	40	145	100	80	35	13	1
11	0	58	260	120	100	80	30	12	1
12	0	52	200	110	100	75	30	12	1
13	0	48	140	125	105	75	32	12	1
14	0	46	75	720	110	75	40	11	1
15	0	45	175	1,000	115	75	40	11	1
16	0	43	210	2,220	115	75	35	10	1
17	0	42	130	750	110	70	34	10	1
18	0	41	100	2,200	110	70	32	9	1
19	1	40	80	750	105	70	30	9	1
20	1	40	275	500	105	70	27	8	1
21	1	39	180	2,050	100	70	26	8	1
22	7	39	150	525	100	65	25	7	1
23	5	38	140	400	95	60	25	7	1
24	191	35	125	300	90	60	23	6	1
25	224	33	90	250	85	55	19	5	1
26	336	30	150	230	83	55	17	5	1
27	530	27	225	210	95	55	17	4	1
28	223	25	265	180	100	50	17	4	0
29	704	23	220	-----	100	50	16	3	0
30	283	22	190	-----	100	47	16	3	0
31	-----	20	150	-----	105	-----	15	-----	0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	704	0	83.5	4,970
December	2,700	20	186	11,400
January	275	20	136	8,360
February	2,220	110	552	30,700
March	180	83	113	6,960
April	475	47	98.9	5,880
May	45	15	29.2	1,800
June	15	3	9.83	585
July	3	0	1.03	63.3
The year	2,700	0	97.7	70,700

NOTE.—No flow in months omitted.

FEATHER RIVER BASIN

NORTH FORK OF FEATHER RIVER NEAR PRATTVILLE, CALIF.

LOCATION.—In sec. 28, T. 27 N., R. 8 E., at Great Western Power Co.'s dam at Lake Almanor, 4 miles above mouth of Butt Creek and 5 miles southeast of Prattville.

DRAINAGE AREA.—506 square miles (above dam).

RECORDS AVAILABLE.—June, 1905, to September, 1927.

EXTREMES.—1905-1927: Maximum discharge, 10,000 second-feet March 19, 1907 (gage height, 16.2 feet); no flow April 15 and 16, 1914, parts of January to April, 1919, and April 21, 1923.

REMARKS.—Records of daily and monthly discharge include flow through diversion tunnel. Water is diverted by a tunnel into Butt Creek and then diverted by another tunnel from Butt Creek to the Caribou plant of the Great Western Power Co. on North Fork of Feather River. Water is stored in Lake Almanor for use at Caribou and Big Bend power plants. There was 87,301 acre-feet of water in reservoir on September 30, 1926, and 483,741 acre-feet on September 30, 1927. Record of daily discharge furnished by Great Western Power Co.

Daily and monthly discharge, in second-feet, 1906-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1,180	932	50	235	42	20	33	35	47	47	1,220	540
2.....	1,260	913	83	235	42	21	33	35	47	47	989	468
3.....	1,230	913	55	241	42	21	33	35	47	56	1,020	669
4.....	1,160	913	61	249	42	21	33	35	47	245	1,120	808
5.....	1,120	816	79	252	42	21	34	35	47	52	1,040	997
6.....	1,050	816	71	251	42	21	34	35	47	262	1,180	798
7.....	1,280	917	114	255	42	21	34	35	48	350	1,410	804
8.....	788	915	147	251	42	21	34	35	48	400	1,160	742
9.....	713	978	151	251	42	21	34	45	48	563	1,010	584
10.....	799	810	209	258	42	21	34	45	48	970	1,010	526
11.....	912	906	233	284	42	21	34	45	48	783	1,350	645
12.....	889	805	238	323	43	33	34	45	48	954	949	644
13.....	903	804	215	220	43	33	34	45	48	855	1,070	774
14.....	903	893	209	382	43	33	34	45	48	951	1,280	1,260
15.....	812	899	214	626	31	33	34	45	49	600	1,280	1,270
16.....	889	935	217	100	31	33	34	45	49	1,080	1,280	1,160
17.....	1,310	937	225	94	31	33	34	46	49	1,240	1,160	907
18.....	773	936	225	45	81	33	34	46	49	1,120	1,420	1,310
19.....	916	795	229	45	81	33	34	46	49	1,010	1,090	1,310
20.....	948	795	238	45	31	33	34	47	49	1,120	1,000	1,300
21.....	1,000	519	237	45	31	33	34	47	49	1,050	1,370	1,300
22.....	900	443	242	45	81	33	34	48	49	956	1,310	1,300
23.....	798	437	242	45	31	33	34	48	49	1,010	1,340	1,140
24.....	819	258	290	45	31	33	34	48	42	1,610	1,340	1,000
25.....	975	37	255	45	20	33	34	48	49	1,080	1,200	1,250
26.....	979	35	250	45	20	33	34	47	49	976	521	1,280
27.....	932	31	245	45	20	33	34	47	49	1,060	509	1,280
28.....	954	31	240	45	20	33	34	47	148	1,240	1,000	1,270
29.....	815	31	240	45	-----	33	34	47	526	1,000	744	1,270
30.....	859	31	240	45	-----	33	34	47	407	1,430	537	1,180
31.....	900	-----	235	41	-----	33	-----	47	-----	1,500	434	-----

Month	Maximum	Minimum	Observed mean	Gain or loss in storage	Corrected for storage	Run-off in acre-feet		
						Observed	Gain or loss in storage	Corrected for storage
October.....	1,310	713	959	-476	483	59,000	-29,300	29,700
November.....	978	31	649	+381	1,030	38,600	+22,700	61,300
December.....	255	50	191	+611	802	11,700	+37,600	49,400
January.....	626	41	168	+609	774	10,200	+37,400	47,600
February.....	43	20	35.0	+1,420	1,450	1,940	+78,700	80,600
March.....	38	20	28.7	+1,380	1,410	1,780	+45,100	86,900
April.....	34	33	33.9	+1,450	1,480	2,020	+86,300	88,400
May.....	48	35	43.4	+1,740	1,780	2,670	+107,000	110,000
June.....	526	42	79.2	-1,030	1,110	4,710	-61,300	66,000
July.....	1,610	47	827	-318	513	50,800	-19,600	31,500
August.....	1,420	434	1,080	-576	403	66,400	-41,600	24,700
September.....	1,310	326	986	-567	418	58,700	-33,800	24,900
The year.....	1,610	20	426	-----	968	308,000	+392,000	701,000

NORTH FORK OF FEATHER RIVER AT BIG BAR, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ sec. 32, T. 23 N., R. 5 E., one-fourth mile above Big Bar and 7 miles above intake of Great Western Power Co.'s power plant at Big Bend. Zero of gage is 1,348.96 feet above mean sea level.

RECORDS AVAILABLE.—February, 1911, to September, 1927.

EXTREMES.—1911-1927: Maximum mean daily discharge, 35,000 second-feet January 1, 1914; minimum, 423 second-feet June 8, 1924.

REMARKS.—See North Fork of Feather River near Prattville for diversions and regulation. Daily discharge record furnished by Great Western Power Co.

Daily and monthly discharge, in second-feet, 1920-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1,670	1,020	5,580	1,520	2,100	7,480	5,500	5,660	3,490	1,760	2,020	2,390
2.....	1,580	1,240	4,940	2,270	2,600	5,990	9,110	5,180	3,480	1,670	1,850	2,350
3.....	1,540	1,250	5,270	3,200	5,900	5,920	8,330	5,290	3,580	1,630	1,860	2,200
4.....	1,420	1,280	4,220	3,240	10,600	5,680	7,960	5,070	3,410	1,530	1,750	2,040
5.....	1,560	1,280	3,480	3,000	6,460	5,190	7,190	6,060	3,340	1,690	1,880	2,090
6.....	1,540	1,170	2,040	3,440	4,580	4,860	6,740	4,900	3,390	1,570	1,790	2,180
7.....	1,470	1,060	3,880	3,240	4,560	4,800	6,400	4,390	3,440	1,660	1,670	2,150
8.....	1,570	1,010	2,620	2,810	4,370	4,860	6,020	4,140	3,820	1,730	1,970	2,050
9.....	1,250	1,280	2,380	2,400	3,980	4,970	5,510	4,040	3,410	1,750	1,860	1,960
10.....	1,550	1,360	2,290	2,110	3,260	4,640	5,210	4,050	3,430	1,680	1,880	2,180
11.....	1,380	1,260	2,200	2,420	3,230	4,260	4,940	3,990	3,410	1,920	1,760	1,560
12.....	1,430	1,610	1,990	2,380	2,980	4,020	5,300	4,020	3,350	1,830	1,970	2,030
13.....	1,280	1,560	1,930	2,160	2,740	4,800	4,420	4,210	3,240	1,910	1,810	2,170
14.....	1,250	1,270	1,960	2,110	2,410	3,820	4,270	4,530	3,140	2,160	1,710	2,090
15.....	1,290	1,190	1,990	2,030	2,880	3,200	4,150	4,800	3,020	2,020	1,770	2,080
16.....	1,150	1,360	1,970	2,120	3,410	6,790	4,110	4,940	2,850	1,890	1,940	2,060
17.....	1,310	1,440	1,890	2,060	6,200	5,760	4,090	4,950	2,730	1,950	1,960	1,790
18.....	1,560	1,370	1,970	2,000	11,800	5,120	4,050	4,460	2,540	2,060	1,860	1,440
19.....	1,300	1,730	1,730	1,970	12,400	4,740	4,080	4,080	2,130	1,990	2,220	1,910
20.....	1,280	1,770	1,580	2,200	9,890	4,340	4,210	3,700	2,150	2,040	1,850	2,060
21.....	1,300	1,310	1,340	2,060	24,400	4,130	4,330	3,360	2,170	2,130	1,750	2,000
22.....	1,370	2,390	1,860	1,860	21,800	4,150	4,370	3,230	2,100	2,040	1,880	2,030
23.....	1,240	5,600	1,830	1,480	15,700	4,360	4,650	3,130	2,040	2,000	2,000	2,010
24.....	1,290	17,000	1,770	1,780	11,100	4,670	5,310	3,900	2,020	2,060	2,060	1,860
25.....	1,110	8,890	1,510	1,790	9,620	4,700	6,220	4,360	1,880	2,340	1,890	1,620
26.....	1,310	8,730	1,190	1,870	9,810	4,810	7,040	3,460	1,760	1,930	1,890	1,790
27.....	1,340	12,800	1,400	1,840	10,000	4,850	7,420	3,110	1,690	2,160	1,660	2,120
28.....	1,280	9,610	1,650	2,480	8,860	4,780	7,050	2,880	1,940	1,960	1,660	2,120
29.....	1,330	8,120	1,640	2,690	-----	4,490	6,600	3,090	1,890	1,960	1,960	1,860
30.....	1,150	6,830	1,680	2,180	-----	4,410	6,300	3,020	1,860	1,670	2,020	2,100
31.....	1,160	-----	1,620	1,840	-----	4,560	-----	3,100	-----	1,590	2,540	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	1,670	1,110	1,360	83,600
November.....	17,000	1,010	3,590	214,000
December.....	5,580	1,190	2,420	149,000
January.....	3,440	1,480	2,280	140,000
February.....	24,400	2,100	7,790	433,000
March.....	8,920	4,020	5,200	320,000
April.....	9,110	4,050	5,700	359,000
May.....	5,660	2,890	4,130	254,000
June.....	5,820	1,860	2,760	164,000
July.....	2,340	1,530	1,890	116,000
August.....	2,540	1,660	1,890	116,000
September.....	2,390	1,440	2,010	120,000
The year.....	24,400	1,010	3,380	2,450,000

FEATHER RIVER AT OROVILLE, CALIF.

LOCATION.—Water-stage recorder in sec. 8, T. 19 N., R. 4 E., at highway bridge at Oroville, 6 miles below junction of North and Middle Forks.

DRAINAGE AREA.—3,640 square miles.

RECORDS AVAILABLE.—January, 1902, to September, 1927.

EXTREMES.—Maximum discharge during year, 134,000 second-feet February 21 (gage height, 18.34 feet); minimum, 770 second-feet October 25.

1902-1927: Maximum discharge, 187,000 second-feet March 19, 1907; minimum, 402 second-feet June 30, 1924.

REMARKS.—Records good. Minor diversions from tributaries above station. The operation of the Big Bend plant of the Great Western Power Co. causes diurnal fluctuations in stage, especially during extremely low water. Also see North Fork of Feather River near Prattville. Attendant for water-stage recorder furnished by Sutter Butte Canal Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,930	1,480	12,300	2,200	4,640	15,400	17,300	14,000	5,780	2,380	1,900	1,860
2	1,880	1,580	10,600	4,680	6,580	13,500	27,600	12,400	5,960	2,280	1,870	1,880
3	1,850	1,560	12,000	8,640	24,700	12,800	26,400	12,800	5,960	2,160	1,840	1,760
4	1,680	1,610	8,900	7,000	23,800	11,700	24,600	12,400	5,960	2,140	1,740	1,620
5	1,820	1,590	7,080	6,580	16,500	10,800	19,900	12,400	5,960	2,170	1,940	1,820
6	1,800	1,490	6,120	10,000	13,900	10,200	16,400	12,800	5,960	2,180	1,810	1,930
7	1,680	1,440	5,500	7,860	12,700	9,900	15,200	11,200	6,160	2,060	1,680	1,900
8	1,810	1,500	4,790	6,340	10,300	9,900	14,800	10,000	7,220	2,170	1,990	1,860
9	1,560	1,630	4,370	5,300	8,900	10,500	14,000	9,400	6,560	2,100	1,800	1,750
10	2,560	1,660	3,880	4,950	7,600	9,620	12,400	9,100	6,160	2,060	1,890	1,930
11	2,200	1,640	3,640	5,500	6,820	8,780	11,600	9,100	5,960	2,200	1,780	1,460
12	1,960	2,390	3,500	5,500	6,120	8,240	10,400	9,400	5,780	2,160	1,950	1,660
13	1,640	2,580	3,180	4,790	5,500	12,800	9,700	10,800	5,580	2,160	1,830	1,880
14	1,620	2,110	3,240	4,370	5,900	21,600	9,400	12,000	5,400	2,100	1,750	1,930
15	1,610	1,740	3,120	4,500	9,440	17,000	9,400	12,400	5,220	2,260	1,860	1,570
16	1,470	1,900	3,000	5,120	25,400	14,600	9,400	12,800	4,900	2,090	1,920	1,870
17	1,580	1,860	2,980	4,370	30,700	12,800	8,800	12,800	4,600	1,960	1,940	1,710
18	1,880	1,860	3,180	4,370	49,800	11,100	8,800	10,800	4,140	2,230	1,920	1,360
19	1,730	2,210	2,800	4,640	37,000	9,900	9,100	10,000	3,600	2,180	2,060	1,830
20	1,620	3,470	2,620	6,340	35,100	9,060	9,100	9,700	3,510	2,140	1,860	1,460
21	1,600	2,380	2,920	5,300	114,000	8,500	9,100	8,220	3,430	2,150	1,720	1,850
22	1,690	4,520	2,810	4,240	75,000	8,240	10,000	7,220	3,260	2,110	1,870	1,830
23	1,560	11,700	2,740	3,750	45,400	8,500	10,800	7,000	3,080	2,020	1,920	1,830
24	1,500	39,500	2,480	3,630	26,300	9,060	12,800	7,220	3,080	2,080	1,940	1,720
25	1,540	19,700	2,350	3,630	22,400	9,620	14,800	7,460	2,880	2,260	1,900	1,460
26	1,650	19,500	2,160	3,630	23,000	9,620	16,900	7,700	2,620	2,040	1,860	1,820
27	1,650	27,200	2,120	3,870	20,700	9,620	17,900	7,460	2,740	2,100	1,780	1,840
28	1,620	19,000	2,400	5,900	17,800	9,240	16,900	7,220	2,580	1,940	1,620	1,840
29	1,620	20,100	2,360	6,340	-----	8,780	16,400	6,360	2,580	1,980	2,060	1,880
30	1,500	16,500	2,270	5,120	-----	8,780	15,600	5,960	2,540	1,740	1,910	1,840
31	1,440	-----	2,320	4,500	-----	9,620	-----	5,580	-----	1,750	1,860	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,560	1,440	1,720	106,000
November	39,500	1,440	7,250	431,000
December	12,300	2,120	4,310	265,000
January	10,000	2,200	5,280	325,000
February	114,000	4,640	24,700	1,370,000
March	21,600	8,240	10,900	670,000
April	27,600	8,800	14,200	845,000
May	14,000	5,580	9,800	608,000
June	7,220	2,540	4,690	276,000
July	2,850	1,740	2,110	130,000
August	2,060	1,620	1,860	114,000
September	1,930	1,360	1,790	107,000
The year	114,000	1,360	7,240	5,240,000

FEATHER RIVER AT NICOLAUS, CALIF.

LOCATION.—Water-stage recorder at highway bridge at Nicolaus, Sutter County.
 RECORDS AVAILABLE.—June, 1921, to September, 1927, low-water records only.
 REMARKS.—Records good. Considerable water is diverted for irrigation above station. Flow is partly regulated by diversions above and by operation of power plants of Great Western Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	June	July	Aug.	Sept.	Day	Oct.	Nov.	June	July	Aug.	Sept.
1.---	1,740	1,460	-----	2,800	794	896	16.---	1,620	2,070	-----	1,460	670	990
2.---	1,860	1,200	-----	2,540	680	878	17.---	1,560	2,140	-----	1,510	728	1,060
3.---	2,000	1,490	-----	2,540	770	842	18.---	1,560	2,000	-----	1,310	710	1,020
4.---	2,000	1,490	-----	2,540	734	884	19.---	1,560	2,000	8,010	1,310	788	908
5.---	1,620	1,510	-----	2,380	722	800	20.---	1,800	2,460	6,830	1,310	776	665
6.---	1,800	1,510	-----	2,000	675	686	21.---	1,680	-----	6,140	1,410	866	934
7.---	1,800	1,460	-----	1,930	746	794	22.---	1,620	-----	6,140	1,510	686	1,180
8.---	1,800	1,410	-----	1,800	680	866	23.---	1,680	-----	6,140	1,410	565	1,310
9.---	1,800	1,220	-----	1,740	595	902	24.---	1,680	-----	5,700	1,310	630	1,410
10.---	1,800	1,410	-----	1,740	716	902	25.---	1,620	-----	5,700	1,220	728	1,410
11.---	2,620	1,510	-----	1,620	692	908	26.---	1,360	-----	5,370	1,260	740	1,220
12.---	2,800	1,680	-----	1,560	696	948	27.---	1,680	-----	4,590	1,220	670	1,140
13.---	2,300	2,220	-----	1,510	645	635	28.---	1,620	-----	3,890	1,180	686	1,510
14.---	1,860	2,260	-----	1,410	830	848	29.---	1,560	-----	3,460	1,060	650	1,740
15.---	1,630	2,390	-----	1,360	782	955	30.---	1,560	-----	3,070	914	565	1,740
							31.---	1,560	-----		955	788	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.-----	2,800	1,360	1,780	109,000
November 1-20.-----	3,260	1,220	1,820	72,200
June 19-30.-----	8,010	3,070	5,420	129,000
July.-----	2,800	614	1,610	99,000
August.-----	866	565	709	48,600
September.-----	1,740	635	1,090	61,300

SPANISH CREEK AT KEDDIE, CALIF.

LOCATION.—Staff gage in SW. $\frac{1}{4}$ sec. 22, T. 25 N., R. 9 E., at highway bridge at Keddle, 2 miles above junction with Indian Creek.

RECORDS AVAILABLE.—October, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, about 4,690 second-feet February 21 (gage height, 11.28 feet); minimum, 24 second-feet August 20.

1911-1927: Maximum discharge, about 9,450 second-feet December 31, 1913, and January 2, 1914; minimum, estimated 9 second-feet parts of June to September, 1924.

REMARKS.—Records good except those for high stages, which are fair. Water is diverted above station for irrigation in American Valley.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	42	565	84	211	780	1,100	662	366	146	29	28
2	33	42	538	175	372	720	1,880	579	366	146	29	28
3	42	43	462	394	1,900	634	1,650	552	362	130	28	29
4	48	44	352	352	2,060	606	1,300	552	342	118	28	29
5	57	44	294	287	1,610	552	965	579	326	111	28	30
6	59	45	244	394	980	527	870	579	307	94	28	31
7	62	44	211	352	648	502	780	579	303	86	28	31
8	66	44	192	294	487	478	750	502	284	77	29	31
9	66	44	172	258	394	454	750	502	262	68	29	32
10	172	44	148	234	332	454	691	502	299	68	30	32
11	85	51	146	248	294	431	666	527	288	68	28	34
12	74	142	138	258	287	408	579	527	288	61	28	36
13	58	188	133	227	272	454	552	552	270	57	27	38
14	48	118	117	211	251	1,880	502	552	266	54	27	38
15	42	85	115	231	512	1,160	478	552	252	52	26	38
16	37	69	115	244	1,120	965	478	552	235	48	26	39
17	37	62	122	244	2,220	810	478	527	225	47	25	39
18	43	60	133	224	3,430	691	454	527	199	44	25	42
19	46	71	122	218	1,750	606	454	527	186	42	24	44
20	44	128	107	248	1,470	502	454	527	186	42	24	44
21	43	89	107	244	4,060	431	478	527	180	41	24	47
22	42	239	107	202	2,520	408	502	527	171	39	24	47
23	40	370	102	181	1,370	431	552	478	171	38	24	44
24	41	1,540	91	167	1,030	478	691	454	156	36	24	42
25	42	915	86	159	965	502	870	431	156	35	24	41
26	41	1,540	86	154	965	502	965	408	156	36	25	41
27	41	2,300	82	159	1,100	502	965	387	151	32	25	40
28	41	1,190	82	394	965	478	900	408	151	32	26	40
29	41	915	77	332	-----	454	840	408	151	31	26	40
30	41	730	68	244	-----	408	780	408	146	31	27	39
31	42	-----	73	221	-----	527	-----	387	-----	31	28	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	172	31	51.8	3,190
November	2,300	42	375	22,300
December	565	68	174	16,700
January	394	84	246	15,100
February	4,060	211	1,200	66,600
March	1,880	408	604	37,100
April	1,880	454	777	46,200
May	662	387	509	31,300
June	366	146	241	14,300
July	146	31	62.6	3,850
August	30	24	26.5	1,630
September	47	28	37.1	2,210
The year	4,060	24	352	255,000

MIDDLE FORK OF FEATHER RIVER NEAR CHIO, CALIF.

LOCATION.—Water-stage recorder in center of sec. 23, T. 22 N., R. 12 E., half a mile above Frazier Creek and $1\frac{1}{4}$ miles northwest of Chio.

RECORDS AVAILABLE.—October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 10,600 second-feet February 21 (gage height, 11.80 feet); minimum, 18 second-feet October 18-30.

1925-1927: Maximum discharge, that of February 21, 1927: minimum, 6 second-feet August 8, 1926.

REMARKS.—Records excellent. There are numerous small diversions for irrigation above station. No regulation.

Daily and monthly discharge, in second-feet, 1925-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	20	20	610	47	423	1,370	825	1,000	261	88	31	25
2.....	21	21	549	189	463	1,170	2,190	975	274	85	31	26
3.....	21	21	448	302	850	1,000	2,300	950	299	88	29	27
4.....	21	21	308	351	730	975	3,010	876	304	81	27	32
5.....	20	21	253	490	950	875	2,410	825	238	74	28	31
6.....		21	21	230	538	950	825	1,800	780	260	66	27
7.....		22	21	200	332	712	825	1,530	712	358	63	27
8.....		22	21	174	253	590	850	1,370	679	305	67	26
9.....		23	32	132	217	437	825	1,250	650	266	54	22
10.....		61	26	110	198	354	758	1,170	610	238	31	31
11.....		26	32	116	188	274	690	1,069	568	288	50	22
12.....		23	58	120	154	264	650	975	614	290	51	21
13.....		21	50	110	163	258	1,090	875	498	225	80	21
14.....		20	34	92	148	238	1,480	850	560	215	50	22
15.....		20	28	90	191	248	2,050	850	496	212	47	23
16.....		19	27	88	208	490	1,600	850	458	210	48	23
17.....		19	26	99	203	535	1,170	758	468	200	43	22
18.....		18	25	93	196	1,710	950	802	498	184	43	21
19.....		18	34	94	222	1,740	758	825	396	166	43	20
20.....		18	37	90	248	3,530	690	780	416	150	42	20
21.....		18	29	92	205	8,020	620	780	390	187	40	21
22.....		18	55	79	152	8,610	690	850	267	128	38	21
23.....		18	112	78	132	4,830	650	900	267	120	37	21
24.....		18	520	66	128	2,850	690	925	267	113	37	22
25.....		18	374	68	112	2,190	758	1,000	367	105	34	22
26.....		18	323	58	106	2,120	780	1,110	358	101	33	23
27.....		18	510	57	110	1,910	758	1,170	358	97	33	21
28.....		18	294	55	251	1,630	735	1,140	348	98	31	22
29.....		18	690	51	185	-----	758	1,290	328	95	31	24
30.....		18	850	48	222	-----	780	1,170	290	81	32	23
31.....		19	-----	47	329	-----	825	-----	261	-----	32	25

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	61	18	21.1	1,800
November.....	860	20	143	3,638
December.....	610	47	152	3,200
January.....	538	47	218	12,400
February.....	8,610	248	1,710	95,000
March.....	2,050	690	922	55,300
April.....	4,390	758	1,310	75,050
May.....	1,080	261	534	33,000
June.....	305	81	191	11,400
July.....	83	31	50.1	3,000
August.....	81	20	23.6	1,450
September.....	40	25	32.2	1,920
The year.....	8,610	18	438	312,000

MIDDLE FORK OF FEATHER RIVER AT SLOAT, CALIF.

LOCATION.—Water-stage recorder half a mile above Sloat, Plumas County, three-fourths mile above mouth of Poplar Creek and 1½ miles below Cromberg.

RECORDS AVAILABLE.—November, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 11,700 second-feet February 22 (gage height, 10.1 feet); minimum, 42 second-feet October 6.

1910-1927: Maximum discharge, that of February 22, 1927; minimum, 22 second-feet August 8-13, 1924.

REMARKS.—Records good except those for estimated periods, which are fair. There are small diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	48	1,170	97	567	2,280	1,270	1,720	781	330	71	58
2	49	43	1,110	413	667	1,910	2,770	*1,500	745	327	72	62
3	49	43	980	860	1,560	1,720	5,610	*1,490	796	330	72	67
4	*46	43	667	860	1,440	1,600	*4,300	*1,440	900	314	72	65
5	43	43	555	900	1,320	1,430	*3,100	*1,470	1,120	304	69	52
6	43	43	475	654	1,390	1,320	*2,500	*1,400	788	*277	71	62
7	45	43	422	500	1,070	1,260	*2,200	*1,230	860	*249	67	62
8	48	48	368	480	932	1,360	1,980	1,030	1,010	*221	62	62
9	53	48	306	*448	694	1,320	1,720	*910	820	*193	60	62
10	132	49	244	445	555	1,200	1,680	*900	796	165	58	62
11	65	51	248	409	470	1,080	*1,460	*950	820	*160	58	65
12	49	86	240	367	422	994	1,270	*1,010	820	*156	58	66
13	47	*88	214	349	*450	1,480	*1,230	*1,160	820	*151	58	65
14	45	*65	133	323	475	2,430	*1,250	*1,350	796	*146	58	65
15	44	58	174	368	522	2,850	*1,320	1,480	796	*141	55	45
16	43	53	170	413	940	2,510	*1,280	*1,530	745	*137	58	65
17	43	54	170	381	1,280	1,840	1,220	*1,440	710	132	53	73
18	43	55	180	354	3,270	1,540	*1,270	*1,250	622	*126	53	69
19	43	110	*165	381	*2,600	1,220	*1,300	*1,110	550	*121	53	69
20	43	138	*168	409	*4,100	1,080	*1,800	*960	*527	*115	58	67
21	43	79	*160	349	10,200	1,030	*1,320	820	495	*109	52	65
22	43	190	183	276	10,500	1,006	*1,380	724	460	*104	48	62
23	43	673	144	252	6,740	1,010	*1,450	731	470	98	50	62
24	43	2,420	124	268	*4,200	1,080	1,600	788	466	*97	52	*62
25	*43	980	126	282	*3,500	1,200	*1,800	876	446	*97	58	*62
26	43	628	119	218	*3,800	1,260	*2,150	924	413	96	58	63
27	43	1,060	112	218	3,230	1,220	*2,300	890	394	94	55	63
28	43	764	112	422	2,680	*1,170	*2,200	745	350	89	58	62
29	43	1,360	112	876	-----	1,120	*2,150	661	362	83	58	62
30	43	1,700	122	358	-----	1,170	*2,000	710	348	80	58	62
31	43	-----	114	450	-----	1,270	-----	710	-----	78	58	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	132	43	48.2	2,000
November	2,420	43	369	22,000
December	1,170	112	310	19,100
January	900	97	412	25,400
February	10,500	422	2,480	238,000
March	2,860	994	1,450	89,200
April	5,610	1,220	1,950	116,000
May	1,720	661	1,090	67,000
June	1,120	348	667	30,700
July	330	78	165	10,700
August	72	48	58.7	3,610
September	72	58	64.0	6,310
The year	10,500	43	741	537,000

* Estimated.

MIDDLE FORK OF SEATHER RIVER NEAR NELSON POINT, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 16, T. 28 N., R. 10 E., at Rocky Bar, three-fourths mile below mouth of Nelson Creek and 2 miles below Nelson Point.

RECORDS AVAILABLE.—December, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, about 12,300 second-feet February 22 (gauge height, 10.98 feet); minimum, 71 second-feet October 7.

1923-1927: Maximum discharge, that of February 22, 1927; minimum, 36 second-feet August 12-14, 1924.

REMARKS.—Records excellent except those for extremely high stages. Discharge estimated March 27-29, September 16-24, and 28-30. There are numerous small diversions for irrigation above station. No regulation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	72	75	1,530	198	672	2,640	1,750	2,420	970	443	161	117
2.	76	76	1,410	555	940	2,300	3,550	2,250	1,030	431	159	114
3.	76	76	1,370	1,260	1,810	2,080	5,940	2,250	1,090	414	159	117
4.	75	76	980	1,190	1,660	1,960	5,310	2,200	1,150	392	157	126
5.	72	76	810	1,120	1,570	1,700	3,830	2,250	1,220	363	132	123
6.	72	77	684	1,190	1,610	1,620	3,040	2,200	1,280	342	150	121
7.	72	77	600	945	1,300	1,570	2,060	1,850	1,350	315	148	117
8.	74	77	520	744	1,120	1,660	2,420	1,700	1,520	308	146	119
9.	75	76	446	686	910	1,570	3,200	1,820	1,280	282	142	126
10.	173	86	360	585	756	1,440	2,000	1,570	1,250	270	128	126
11.	182	98	365	555	648	1,320	1,850	1,620	1,250	255	126	125
12.	106	162	357	510	590	1,250	1,660	1,460	1,250	255	122	126
13.	92	171	335	475	550	1,660	1,480	1,900	1,250	240	120	126
14.	86	128	299	455	555	3,040	1,480	3,200	1,220	261	120	122
15.	83	106	286	480	612	3,040	1,320	2,250	1,150	230	126	120
16.	80	101	276	570	1,200	2,920	1,480	2,300	1,120	228	126	126
17.	79	100	279	510	1,630	2,250	1,390	2,250	1,060	212	125	126
18.	79	100	292	485	3,920	1,850	1,400	1,900	940	206	123	124
19.	77	169	270	500	3,100	1,590	1,480	1,700	882	198	121	126
20.	77	243	257	540	4,820	1,320	1,480	1,570	824	194	117	120
21.	77	154	266	480	11,000	1,250	1,520	1,320	768	184	114	115
22.	76	320	257	380	11,300	1,220	1,750	1,180	740	179	114	114
23.	76	980	246	335	7,540	1,250	1,950	1,180	707	174	116	114
24.	76	3,070	225	361	4,860	1,360	2,200	1,220	703	170	114	113
25.	75	1,570	230	327	3,970	1,480	2,520	1,320	668	165	116	112
26.	75	1,260	222	320	4,260	1,570	3,040	1,440	616	168	117	112
27.	75	1,690	210	312	3,690	1,630	3,040	1,860	559	163	116	112
28.	75	1,260	218	545	3,040	1,450	2,920	1,180	501	163	116	113
29.	75	1,610	203	525	-----	1,400	2,920	1,060	469	163	119	112
30.	75	1,990	196	475	-----	1,480	2,800	1,000	439	161	121	112
31.	75	-----	196	590	-----	1,570	-----	940	-----	161	119	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.	182	72	84.1	5,179
November.	3,070	75	535	21,600
December.	1,530	196	458	20,200
January.	1,260	198	685	20,000
February.	11,800	550	2,830	127,000
March.	3,040	1,220	1,750	105,000
April.	5,940	1,860	2,430	124,000
May.	2,420	940	1,710	105,000
June.	1,520	452	972	57,000
July.	443	161	248	15,200
August.	161	114	121	5,000
September.	123	112	120	2,100
The year.	11,300	72	971	763,000

MIDDLE FORK OF KATHEE RIVER AT BOWELL BAR, CALIF.

LOCATION.—Stiff gage in NW $\frac{1}{4}$ sec. 32, T. 20 N., R. 5 E., at highway bridge at Bowell Bar, 2 miles above junction with North Fork, and 1 mile north-east of Oroville.

RECORDS AVAILABLE.—October, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, about 80,000 second-foot February 21 (gage height, 17.0 feet); minimum, 170 second-foot October 1 and 9, 1911–1927; Maximum discharge, about 24,200 second-foot December 31, 1913 (gage height, 18.0 feet); minimum, 100 second-foot August 30 to September 15, 1924.

REMARKS.—Records good. The Palermo Land & Power Co.'s canal and South Feather Land & Water Co.'s canal divert from South Fork of Feather River and tributaries.

Daily and monthly discharge, in second-foot, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	170	220	4,518	640	2,190	7,900	7,100	4,700	2,350	960	324	305
2	246	208	4,130	668	2,830	6,400	19,300	3,440	2,460	960	319	335
3	220	197	4,618	4,130	7,310	6,430	19,300	3,940	2,680	900	318	330
4	186	186	3,820	3,630	9,760	5,750	19,300	3,940	2,580	940	312	330
5	182	195	2,700	2,660	6,090	5,230	9,380	3,940	2,700	900	306	335
6	170	186	2,410	4,130	6,090	4,680	7,700	6,820	2,880	780	300	335
7	170	186	2,090	3,880	5,330	4,730	6,900	5,890	2,830	730	304	330
8	170	195	1,810	2,680	4,250	4,730	6,510	4,730	3,620	730	300	335
9	170	195	1,650	2,360	3,660	5,050	6,180	4,600	3,600	600	312	335
10	625	195	1,490	2,190	3,120	4,400	6,360	4,400	2,700	635	300	325
11	725	220	1,330	2,360	2,890	4,100	5,020	4,400	2,700	610	294	330
12	410	450	1,330	2,190	2,630	3,950	4,730	4,730	2,700	565	294	330
13	360	775	1,060	1,610	2,360	4,400	4,400	4,230	2,680	565	294	330
14	246	680	1,060	1,610	2,300	10,300	4,400	4,730	2,460	565	294	340
15	232	410	1,020	1,790	3,810	7,700	4,230	4,530	2,350	565	294	340
16	236	236	950	1,810	5,760	6,130	4,100	6,130	2,140	620	294	330
17	230	285	950	1,900	5,760	6,130	4,100	6,130	2,140	620	294	330
18	230	285	1,020	1,790	5,760	6,130	4,100	6,130	2,140	620	294	330
19	230	335	950	1,730	11,360	5,960	4,100	4,100	1,730	475	270	330
20	220	1,240	880	2,300	10,000	4,100	4,100	4,090	1,690	455	265	335
21	230	725	950	2,090	39,000	3,460	4,260	2,800	1,600	435	265	335
22	230	1,520	880	1,730	22,000	3,900	4,720	3,390	1,450	419	260	335
23	230	3,800	690	1,490	15,400	3,950	3,240	1,620	1,000	395	265	310
24	230	11,800	755	1,490	12,000	4,700	3,940	3,240	1,620	395	265	310
25	230	6,690	815	1,410	10,400	4,400	4,200	3,520	1,900	381	265	310
26	230	6,690	755	1,410	11,600	4,400	1,900	3,220	1,940	374	265	310
27	230	6,880	695	1,410	16,200	4,400	3,500	3,620	1,170	364	265	310
28	230	6,880	695	2,630	8,910	4,260	7,900	3,390	1,000	348	265	310
29	230	6,880	695	2,630	8,910	4,166	7,700	3,390	1,000	348	265	310
30	230	6,880	695	1,930	4,166	4,166	7,700	3,390	1,000	348	265	310
31	230	6,880	695	1,930	4,166	4,166	7,700	3,390	1,000	348	265	310

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	735	170	260	15,400
November	11,600	195	2,370	15,400
December	4,610	605	1,590	15,400
January	4,130	640	1,140	15,400
February	30,000	2,190	3,090	15,400
March	19,300	6,090	6,090	15,400
April	19,300	6,090	6,090	15,400
May	19,300	6,090	6,090	15,400
June	19,300	6,090	6,090	15,400
July	19,300	6,090	6,090	15,400
August	19,300	6,090	6,090	15,400
September	19,300	6,090	6,090	15,400
The year	19,300	6,090	6,090	15,400

Previously called "near Oroville."

SACRAMENTO RIVER NEAR PORTOLA, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 12, T. 23 N., R. 13 E., $1\frac{1}{2}$ miles below proposed Grizzly Valley Reservoir dam site, 2 miles above Glover Valley Ice Co.'s dam, and 6 miles northeast of Portola.

RECORDS AVAILABLE.—October, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 480 second-feet February 21 (gauge height, 3.90 feet); minimum, about 0.4 second-foot part of August.

1925-1927: Maximum discharge, that of February, 21, 1927; minimum, 0.3 second-foot part of June, July, and August, 1925.

REMARKS.—Records good except those for December 8 to January 2 and January 7-27, which were estimated because of ice. No daily record for September; mean monthly discharge estimated. No diversions.

Daily and monthly discharge, in second-feet, 1925-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	0.8	0.7	119	4	15	215	99	179	46	9	0.6
2	.8	.7	175	83	18	193	212	166	49	8	.6
3	.8	.7	90	157	22	173	210	184	38	7	.6
4	.7	.8	58	90	24	155	177	154	24	6	.6
5		.8	38	65	39	147	155	151	35	5	.6
6	.6	1.0	31	22	24	147	177	149	34	4.3	.5
7	.6	.8	22	22	24	139	175	130	25	3.8	.5
8	.6	.8	12	23	34	195	144	113	53	3.6	.5
9	.5	.8	11	22	34	128	113	101	42	3.3	.5
10	1.4	.8	10	20	32	115	94	95	36	3.0	.4
11	.9	.9	10	19	37	96	84	90	34	2.5	.4
12	.6	1.3	9	19	37	112	84	90	32	2.3	.4
13	.6	2.3	7	18	36	205	119	96	27	2.2	.4
14	.6	2.6	5	12	32	219	144	110	24	1.6	.4
15	.6	1.9	5	17	27	162	177	119	22	1.5	.4
16	.6	2.2	5	16	24	125	149	124	20	1.2	.4
17	.6	2.2	5	15	24	112	121	124	18	1.3	.4
18	.5	2.2	5	14	43	95	191	112	19	1.3	.4
19	.5	2.2	5	14	55	79	209	105	14	1.1	.4
20	.5	4.9	5	14	79	77	205	119	13	.9	.4
21	.5	3.0	4	12	349	89	241	95	11	.8	.4
22	.5	6	4	12	325	128	245	77	8.5	.8	.4
23	.5	28	4	12	296	164	277	64	8.5	.7	.4
24	.5	193	4	12	249	205	289	55	8	.6	.4
25	.5	39	4	11	296	225	277	52	8.5	.6	.4
26	.5	16	4	11	358	212	289	53	8.5	.6	.4
27	.5	11	4	11	304	172	274	57	8.5	.6	.4
28	.5	18	4	13	252	159	235	79	7.5	.6	.4
29	.6	127	4	13		182	222	77	7.5	.6	.4
30	.5	239	4	12		293	285	54	8	.8	.5
31	.6		4	16		83		49		.6	.6

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.4	0.5	0.69	22.7
November	200	.7	22.4	1,230
December	175	4	21.8	1,230
January	157	4	26.4	1,629
February	358	15	109	6,049
March	225	77	151	9,299
April	179	84	185	11,099
May	53	49	108	6,299
June		7.5	28.3	1,230
July	9	.6	2.46	27.7
August	.6	.4	.45	41.7
September			.7	
The year	358	.4	58.4	28,600

SURFACE WATER SUPPLY, 1927, PART XI

SOUTH FORK OF PEATHER RIVER AT ENTERPRISE, CALIF.

LOCATION.—Staff gage in NE. $\frac{1}{4}$ sec. 1, T. 19 N., R. 5 E., 800 feet above mouth of Powell Creek and half a mile above highway bridge at Enterprise.

RECORDS AVAILABLE.—October, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, about 8,250 second-feet February 21 (gage height, 12.5 feet); minimum, 1.8 second-feet August 1-7, 1911-1927: Maximum discharge, about 10,600 second-feet February 25, 1917; maximum gage height, that of February 21, 1927; minimum discharge, 0.2 second-foot August 11, 1917.

REMARKS.—Records fair. Irrigation diversions above station.

Daily and monthly discharge, in second-feet, 1926-27.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.5	31	970	100	268	1,330	2,030	930	342	100	1.8	2.0
2	21	21	805	205	390	1,120	2,510	810	304	90	1.8	2.0
3	7	13	750	340	3,100	990	1,820	810	304	90	1.8	2.0
4	7	10	668	440	1,850	930	1,540	810	304	80	1.8	3.2
5	5	7	540	340	1,450	870	1,200	810	304	60	1.8	3.2
6	3.0	13	440	590	1,210	870	870	810	304	60	1.8	2.0
7	3.0	13	385	490	1,000	870	990	760	304	42	1.8	2.0
8	3.0	10	290	465	970	810	990	662	426	35	42	2.0
9	3.0	10	268	205	750	930	1,050	662	382	35	35	2.0
10	105	10	245	290	640	870	810	662	304	35	34	2.0
11	78	13	205	440	540	870	790	662	304	28	34	5
12	37	58	185	340	490	710	710	662	270	28	34	5
13	26	100	165	340	245	1,200	710	710	270	22	34	5.5
14	26	78	165	315	540	1,540	662	810	252	22	34	5
15	21	58	148	290	915	1,200	662	870	230	21	34	4.4
16	17	31	148	315	2,900	1,050	662	370	220	23	34	3.8
17	31	31	130	290	2,380	930	614	710	204	16	34	3.8
18	31	31	130	290	3,800	370	662	662	204	16	34	3.2
19	26	31	130	290	2,880	700	662	662	176	16	31	3.2
20	26	440	130	390	2,190	700	662	662	150	14	31	2.2
21	31	100	165	365	8,250	710	662	566	150	8	31	3.2
22	31	290	130	365	4,306	710	662	518	160	8	31	3.2
23	31	540	130	290	2,600	662	780	470	160	7	31	3.2
24	31	2,480	130	245	1,960	662	370	426	137	8	31	3.2
25	31	805	130	225	1,820	662	990	426	124	13	29	2.6
26	26	805	148	225	1,890	662	1,050	448	112	12	29	2.6
27	26	1,710	148	245	1,750	662	1,120	448	100	12	29	2.6
28	31	1,210	130	465	1,540	662	1,190	448	100	10	28	2.0
29	31	1,570	115	440	-----	662	1,050	426	100	5	21	2.0
30	31	1,390	100	340	-----	614	1,050	382	100	3.8	5	2.0
31	31	-----	108	290	-----	662	-----	362	-----	2.0	5	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	165	2.5	28.0	1,730
November	2,480	7	397	33,000
December	970	100	268	16,500
January	590	100	381	20,490
February	8,250	245	1,890	108,000
March	1,540	614	869	55,570
April	2,510	614	1,000	55,330
May	930	362	643	32,500
June	426	100	226	13,490
July	100	2.0	29.7	1,590
August	42	1.8	23.5	1,140
September	5.5	2.0	3.04	181
The year	8,250	1.8	466	695,000

PALERMO CANAL AT ENTERPRISE, CALIF.

LOCATION.—Staff gage in N.E. $\frac{1}{4}$ sec. 1, T. 19 N., R. 6 E., 1,000 feet above Alm's residence at Enterprise and 1 mile below intake at diversion dam on South Fork of Feather River.

RECORDS AVAILABLE.—October, 1911, to September, 1927.

EXTREMES.—1911-1927: Maximum discharge, 43 second-feet July 25, 1927; no flow during periods of every year.

REMARKS.—Records good. This canal diverts from left bank of South Fork of Feather River 1 mile above Enterprise. Water is used for irrigation below Oroville.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	14.9	10.6	10.6	10.6	9.9	9.9	18.5	23	24	35	36
2	23	14.9	10.6	10.6	10.8	9.9	9.9	18.5	23	24	34	35
3	24	13.8	9.9	10.9	10.9	9.9	9.9	18.5	23	24	35	35
4	23	13.8	10.6	10.9	10.4	9.9	9.9	18.5	23	24	35	36
5	15.3	13.4	10.2	10.8	10.6	9.9	9.9	18.5	23	24	35	36
6	15.1	13.8	10.2	11.1	10.6	9.9	9.9	18.5	23	24	35	35
7	14.9	13.8	10.6	10.9	10.6	9.9	9.9	18.5	23	24	35	35
8	14.9	13.8	10.2	10.9	10.6	9.9	9.9	18.5	24	27	35	35
9	14.9	13.8	10.2	10.6	10.6	9.9	9.9	0	33	27	35	35
10	15.3	14.2	10.2	10.8	10.6	9.9	9.9	17.4	23	28	35	35
11	15.1	15.3	10.2	10.9	10.6	9.9	9.9	17.4	23	28	35	35
12	15.1	15.3	10.2	10.9	10.6	9.9	9.9	17.4	23	28	35	35
13	14.9	15.3	10.2	10.9	10.6	9.9	9.9	17.4	23	28	35	34
14	14.9	15.3	10.2	10.9	10.9	9.9	9.9	17.4	23	28	35	34
15	14.9	15.3	10.6	10.9	10.6	9.9	9.9	17.4	23	34	35	34
16	14.9	14.7	10.6	10.9	11.3	9.9	9.9	27	23	35	35	34
17	14.9	14.7	10.6	10.9	9.9	9.9	9.9	27	23	35	35	32
18	14.9	14.7	10.6	10.9	10.8	9.9	9.9	27	22	35	35	34
19	14.9	14.5	10.6	10.9	10.8	9.9	9.9	27	22	35	35	34
20	14.9	15.1	10.6	10.9	10.6	9.9	9.9	27	22	35	35	34
21	14.9	14.4	10.6	10.9	11.3	9.9	17.4	27	24	35	35	34
22	14.9	15.3	10.6	10.9	10.8	9.9	17.4	27	24	35	35	34
23	14.9	13.8	10.6	10.8	10.2	9.9	17.4	23	24	35	35	34
24	14.9	12.4	10.6	10.8	9.9	9.9	17.4	23	24	35	35	34
25	14.9	12.7	10.6	10.6	9.9	9.9	17.4	23	24	35	35	34
26	14.9	12.7	10.6	10.6	9.9	9.9	18.5	23	24	35	35	34
27	14.9	12.2	10.6	10.6	9.9	9.9	18.5	23	24	35	35	34
28	15.1	10.6	10.6	10.8	9.9	9.9	18.5	23	24	35	35	34
29	15.1	10.2	10.6	10.8	-----	9.9	18.5	24	24	35	35	34
30	15.1	10.6	10.6	10.8	-----	9.9	18.5	24	24	35	35	34
31	14.9	-----	10.6	10.8	-----	9.9	-----	23	-----	35	35	-----
Month	Maximum					Minimum			Mean		Run-off, in acre-feet	
October	26					14.9			16.1		990	
November	15.3					10.2			12.9		827	
December	10.6					9.9			10.5		645	
January	11.1					10.6			10.8		664	
February	11.3					9.9			10.5		588	
March	9.9					9.9			9.90		609	
April	18.5					9.9			12.6		750	
May	27					0			21.0		1,280	
June	24					22			22.2		1,380	
July	38					24			31.3		1,920	
August	38					34			35.2		2,230	
September	36					32			34.4		2,060	
The year	38					0			19.3		13,900	

Published in previous reports as Palermo Land & Water Co.'s canal at Enterprise, Calif.

MIDDLE FORK OF YUBA RIVER AT MILTON, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 12, T. 19 N., R. 12 E., one-fourth mile below diversion dam site of Nevada Irrigation District at Milton and 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, 1927.

EXTREMES.—Maximum discharge during year, 1,620 second-feet May 16 (gauge height, 6.53 feet); minimum, 1.3 second-feet October 5-8.

1925-1927: Maximum discharge, that of May 16, 1927; minimum, 1.1 second-feet August 25, 1926.

REMARKS.—Records good except those for January 7-9, 14, 17, 18, 22-25, 30, February 8-13, 18, 20, and March 16, which were estimated. No diversions. Gauge-height record and results of discharge measurements furnished by Nevada Irrigation District, through Fred H. Tibbetts.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	2.7	212	26	25	200	147	484	412	143	13	5
2	1.9	2.7	240	126	40	186	172	440	443	137	12	4.5
3	1.7	2.7	218	206	44	176	160	517	580	122	12	4.0
4	1.4	2.7	168	231	47	165	145	585	585	110	10	6
5	1.3	2.9	120	166	52	188	145	672	685	101	10	5
6	1.8	2.7	160	142	41	145	140	585	765	97	9	4.2
7	1.3	2.7	89	119	46	181	140	494	740	91	9	4.2
8	1.3	2.7	77	96	44	145	124	328	672	86	8	4.2
9	1.4	2.7	65	80	48	142	125	342	585	79	8	4.5
10	10	2.7	61	139	41	180	124	484	680	75	7.5	5.5
11	9.5	3.6	57	142	41	132	116	478	680	74	7	5
12	6	4.8	55	122	41	135	100	628	685	69	7	5
13	4.5	4.5	47	101	30	178	100	565	740	66	6.5	4.8
14	4.0	4.1	44	94	25	212	118	1,080	672	62	6.5	4.6
15	3.8	4.1	48	59	24	148	132	1,110	680	56	4.5	4.8
16	3.6	4.1	20	32	20	148	119	1,100	685	52	6.5	4.5
17	3.4	4.8	31	69	21	122	116	1,080	518	46	6	4.8
18	3.3	5	31	75	105	132	130	790	430	42	6	4.2
19	3.2	17	30	61	237	114	167	628	874	38	6.5	4.9
20	3.2	22	31	59	825	110	185	471	340	34	6	4.2
21	3.1	12	26	57	940	117	264	371	840	30	6	4.0
22	3.1	76	28	55	626	134	326	340	845	29	6	4.0
23	3.1	216	26	41	235	145	390	412	812	26	5.5	3.6
24	2.9	552	31	47	239	184	488	545	812	24	5.5	3.5
25	2.9	196	26	48	246	216	680	546	281	21	5.5	3.4
26	2.9	145	33	39	275	226	815	698	232	19	5.5	3.4
27	2.9	109	31	36	264	260	666	485	174	18	5	3.4
28	2.9	91	26	35	219	174	605	268	150	16	5.5	3.4
29	2.7	826	27	44	-----	167	650	315	142	15	5.5	3.4
30	2.7	302	26	44	-----	165	585	329	148	14	5.5	3.4
31	2.7	-----	27	36	-----	160	-----	362	-----	14	5.5	-----
Month	Maximum					Minimum			Mean		Run-off, in acre-feet	
October	10					1.3			3.21		187	
November	552					2.7			70.7		4,310	
December	240					26			67.6		4,180	
January	396					26			96.2		5,320	
February	900					20			158		5,730	
March	225					110			180		9,440	
April	815					109			274		16,900	
May	1,190					329			572		35,200	
June	765					142			473		29,100	
July	143					14			53.2		3,580	
August	13					5			7.23		445	
September	6					3.4			4.27		254	
The year	1,190					1.3			161		117,000	

MIDDLE FORK OF YUBA RIVER NEAR NORTH SAN JUAN, CALIF.

LOCATION.—Staff gage in N. $\frac{1}{2}$ NW. $\frac{1}{4}$ sec. 23, T. 18 N., R. 8 E., below highway bridge at Freemans Crossing, $1\frac{1}{2}$ miles northeast of North San Juan. Oregon Creek enters three-fourths mile above station.

RECORDS AVAILABLE.—July to October, 1900; October, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, about 21,900 second-feet February 21 (gage height, 14.0 feet); minimum, 36 second-feet August 22.

1910-1927: Maximum discharge, that of February 21, 1927; minimum, 21 second-feet August 12 and 14, 1924.

REMARKS.—Records good. Diversions above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	37	47	1,060	168	435	1,580	2,650	2,040	850	358	72	43
2.....	59	47	965	1,470	625	1,380	3,860	1,320	740	352	72	45
3.....	57	47	880	840	3,650	1,200	3,850	1,680	980	346	69	46
4.....	45	47	802	1,010	2,190	1,140	2,650	1,380	1,080	310	67	48
5.....	40	49	730	840	1,600	930	2,120	1,660	1,200	294	64	46
6.....	40	49	528	1,010	1,220	890	1,800	1,880	1,380	265	62	45
7.....	39	47	435	765	1,060	950	1,650	1,380	1,440	250	60	45
8.....	39	45	348	090	920	1,030	1,580	1,080	1,650	240	55	45
9.....	40	47	305	590	802	930	1,320	1,080	1,080	225	55	43
10.....	370	47	295	560	695	850	1,140	1,200	1,140	210	52	45
11.....	157	65	280	560	592	775	1,080	1,320	1,200	197	50	46
12.....	89	193	266	495	560	740	1,510	1,140	1,140	181	52	46
13.....	63	160	243	465	495	2,850	890	1,380	1,200	199	50	46
14.....	59	120	230	405	660	3,250	890	2,380	1,260	165	48	45
15.....	57	89	221	411	1,220	1,806	980	2,290	1,260	154	50	45
16.....	51	79	209	560	3,860	1,380	980	2,650	1,060	158	50	43
17.....	49	65	205	465	2,380	1,200	980	2,380	960	140	48	43
18.....	49	70	213	435	6,450	1,080	890	2,200	812	120	48	45
19.....	49	137	209	429	5,610	980	980	1,650	775	124	48	45
20.....	51	266	193	465	6,730	850	980	1,200	740	115	46	41
21.....	51	143	209	560	15,300	775	1,080	130	740	109	46	41
22.....	53	252	261	528	7,580	775	1,320	890	705	106	36	41
23.....	55	1,280	238	429	4,080	850	1,380	850	635	100	43	41
24.....	55	9,350	309	405	2,850	930	2,120	980	670	95	43	41
25.....	51	1,060	201	370	2,850	1,680	2,120	1,260	670	92	43	41
26.....	45	1,540	164	411	2,850	1,140	1,650	1,260	579	90	41	41
27.....	45	2,350	168	358	2,650	890	1,060	1,320	495	84	41	41
28.....	45	1,160	168	920	1,060	850	1,960	960	424	82	45	41
29.....	45	2,700	164	625	-----	775	1,960	850	499	79	46	41
30.....	47	1,810	174	569	-----	775	2,120	775	388	74	45	41
31.....	47	-----	164	465	-----	1,320	-----	740	-----	74	45	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	370	37	63.8	3,920
November.....	9,350	45	779	46,400
December.....	1,060	164	246	21,300
January.....	1,470	168	587	36,100
February.....	15,300	435	2,940	163,000
March.....	3,250	740	1,160	71,300
April.....	3,860	890	1,650	48,200
May.....	2,850	740	1,450	80,200
June.....	1,650	388	920	54,700
July.....	358	74	173	10,609
August.....	72	36	51.4	3,199
September.....	48	41	43.5	2,890
The year.....	15,300	36	830	600,000

YUBA RIVER AT SMARTVILLE, CALIF.

LOCATION.—Staff gage in SW. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 22, T. 16 N., R. 6 E., at Narrows, 1 mile below mouth of Deer Creek and 1 mile north of Smartville.

DRAINAGE AREA.—1,220 square miles.

RECORDS AVAILABLE.—June, 1903, to September, 1927.

EXTREMES.—Maximum discharge during year, 49,000 second-feet February 21 (gage height, 18.4 feet); minimum, 155 second-feet October 8.

1903-1927: Maximum discharge, 111,000 second-feet January 15, 1909 (gage height, 28.3 feet); minimum, 71 second-feet July 30, 1924.

REMARKS.—Records fair. Water is diverted for power and irrigation above station. Bullards Bar Reservoir has a capacity of 15,000 acre-feet and Bowman Lake 67,000 acre-feet. Most of the Bowman Lake storage is diverted to Bear River Basin.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	160	275	10,200	860	3,100	8,760	13,200	8,460	4,800	1,450	360	275
2.....	168	238	9,220	1,510	3,560	8,040	18,800	7,980	4,800	1,380	360	275
3.....	175	240	8,500	5,930	18,200	7,560	18,400	8,220	4,600	1,310	370	292
4.....	180	246	7,190	5,150	13,900	7,100	17,800	7,980	4,600	1,310	360	292
5.....	180	240	6,350	4,590	9,220	6,660	13,300	8,460	4,600	1,240	370	275
6.....	175	240	5,750	4,960	8,740	6,440	12,900	7,260	1,240	550	275	275
7.....	168	240	5,150	4,410	7,190	6,220	10,000	11,400	7,980	1,170	390	292
8.....	155	258	3,890	4,060	5,550	6,220	8,980	8,980	7,500	1,170	390	292
9.....	188	258	3,250	3,720	4,770	6,220	8,460	7,260	7,020	1,110	360	275
10.....	410	275	2,820	3,250	4,230	5,800	7,020	6,300	6,540	1,110	370	275
11.....	860	275	1,890	3,100	3,890	5,600	6,300	6,060	6,300	990	370	275
12.....	740	605	2,150	2,960	3,250	5,200	6,060	7,020	6,540	990	350	275
13.....	710	920	2,020	2,960	2,820	5,800	5,620	10,000	7,260	1,110	850	275
14.....	655	505	1,660	2,410	4,960	7,800	5,200	11,700	7,020	1,170	360	275
15.....	680	490	1,460	2,410	9,960	7,100	6,060	14,100	6,780	1,110	350	275
16.....	580	370	1,370	2,150	18,800	6,880	5,620	13,500	6,300	815	350	275
17.....	505	310	1,280	2,150	16,100	6,660	5,620	12,300	5,620	710	390	275
18.....	430	410	1,280	2,280	28,900	6,220	6,780	10,806	8,200	660	850	275
19.....	410	860	1,120	2,540	22,900	5,800	6,540	8,980	5,000	660	830	275
20.....	390	960	1,060	3,400	21,100	5,200	6,060	7,980	4,600	635	530	275
21.....	350	1,120	1,050	3,250	49,000	5,000	6,540	7,500	4,400	588	310	275
22.....	350	3,440	960	2,820	22,700	4,600	7,020	6,060	4,400	520	310	275
23.....	330	7,500	960	2,080	15,700	4,240	7,980	4,800	4,400	635	210	275
24.....	310	23,600	920	2,540	13,300	4,600	8,460	4,600	3,820	520	310	292
25.....	310	23,600	890	2,410	12,000	5,200	9,760	4,400	3,640	520	292	292
26.....	310	17,500	960	3,250	13,000	5,800	11,700	4,800	3,290	520	275	258
27.....	292	15,400	920	4,590	11,400	5,000	12,000	6,300	3,120	520	275	275
28.....	275	13,900	920	5,750	10,000	5,200	10,600	6,060	2,960	475	275	258
29.....	275	12,700	890	3,590	-----	5,800	11,400	5,000	2,120	452	275	240
30.....	275	11,600	860	2,960	-----	6,880	10,900	4,400	1,690	430	275	240
31.....	275	-----	830	2,960	-----	11,100	-----	4,600	-----	390	292	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	860	155	362	22,300
November.....	23,600	240	4,810	274,000
December.....	10,200	830	2,830	174,000
January.....	5,960	860	3,290	202,000
February.....	49,000	2,820	12,840	711,000
March.....	11,100	4,240	6,260	286,000
April.....	15,800	5,200	9,570	569,000
May.....	14,100	4,400	7,980	485,000
June.....	7,980	1,390	5,140	306,000
July.....	1,450	390	868	53,400
August.....	390	275	334	20,700
September.....	292	240	278	16,200
The year.....	49,000	155	4,450	3,220,000

OREGON CREEK NEAR NORTH SAN JUAN, CALIF.

LOCATION.—Staff gage in N. $\frac{1}{2}$ SE. $\frac{1}{4}$ sec. 28, T. 18 N., R. 8 E., 500 feet above junction with Middle Fork of Yuba River and 2 miles northeast of North San Juan.

RECORDS AVAILABLE.—October, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, about 5,050 second-feet February 20 (gage height, 9.0 feet); minimum, 1.9 second-feet October 7 and 8.

1910-1927: Maximum discharge, that of February 20, 1927; minimum, 1.0 second-foot August 7-10, 1921.

REMARKS.—Records fair. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	4.3	200	22	87	250	445	142	43	13	2.9	2.5
2	5	4.3	154	460	154	218	740	126	40	11	2.7	2.5
3	4.3	4.6	120	230	830	202	700	124	34	11	2.7	2.5
4	3.6	4.6	100	177	625	186	500	121	33	9.5	2.5	2.5
5	3.8	4.9	81	154	555	166	395	124	32	8.5	2.5	2.5
6	2.8	4.9	70	215	305	152	325	121	31	8	2.5	2.5
7	1.9	4.3	60	169	305	144	285	93	30	7.5	2.3	2.5
8	1.9	4.3	47	130	230	147	268	95	36	7	2.5	2.5
9	2.0	4.3	39	102	200	166	250	97	33	6.5	2.9	2.5
10	49	4.3	87	102	166	142	213	95	32	5.5	2.5	2.5
11	16	7.5	30	102	149	142	202	93	39	4.9	2.4	2.9
12	7.5	27	80	94	132	137	188	93	26	4.5	2.5	2.9
13	6.5	23	26	81	120	420	176	91	33	4.9	2.5	2.7
14	5	17	24	75	147	445	174	91	22	4.9	2.4	2.4
15	4.6	12	23	72	285	285	184	87	22	4.9	2.4	2.3
16	4.6	9	22	107	920	250	174	77	22	5.5	2.4	2.3
17	4.3	7	22	100	660	218	166	75	21	7.5	2.4	2.5
18	4.3	9	23	63	1,180	199	166	68	20	4.5	2.5	2.5
19	4.0	8	22	81	1,240	178	159	77	20	4.3	2.4	2.3
20	4.0	37	21	92	1,240	164	154	66	20	4.1	2.4	2.3
21	4.0	18	23	127	2,810	156	154	61	19	4.1	2.3	2.3
22	4.0	47	28	111	920	142	164	56	18	4.1	2.4	2.4
23	4.0	182	23	85	530	142	164	47	15	4.1	2.4	2.4
24	4.0	785	17	79	445	147	166	44	18	4.1	2.5	2.3
25	4.0	195	17	72	395	142	166	44	16	3.9	2.5	2.4
26	4.0	230	15	79	370	144	168	42	16	4.1	2.5	2.4
27	4.0	490	21	66	348	142	174	56	16	4.1	2.5	2.4
28	4.0	265	20	305	285	140	166	44	13	4.1	2.5	2.5
29	4.3	520	16	174	-----	130	159	50	13	4.1	2.5	2.5
30	4.3	482	20	125	-----	124	147	46	12	4.1	2.5	2.5
31	4.3	-----	21	109	-----	213	-----	43	-----	2.5	-----	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	49	1.9	5.90	363
November	735	4.3	112	6,600
December	200	15	44.1	2,710
January	460	22	128	7,370
February	2,810	87	558	31,000
March	445	124	188	11,500
April	740	147	250	14,500
May	142	42	50.3	4,940
June	56	12	24.8	1,488
July	13	2.5	5.83	233
August	2.9	2.3	2.56	154
September	2.9	2.3	2.47	147
The year	2,810	1.9	113	82,408

NORTH FORK OF YUBA RIVER NEAR SIERRA CITY, CALIF.

LOCATION.—Water-stage recorder in S. $\frac{1}{4}$ sec. 29, T. 29 N., R. 12 E., $2\frac{1}{4}$ miles below mouth of South Fork of North Fork of Yuba River and $1\frac{1}{4}$ miles west of Sierra City.

DRAINAGE AREA.—93.6 square miles.

RECORDS AVAILABLE.—1911-1913 (fragmentary), and December, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,150 second-feet May 16 (gauge height, 5.67 feet); minimum, 36 second-feet October 1.

1923-1927: Maximum discharge, 3,580 second-feet, revised, February 6, 1925 (gauge height, 6.87 feet); minimum, 28 second-feet September 15, 1926.

REMARKS.—Records good except those for November 25 to December 8, which were estimated. There are a few small diversions for mining purposes above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	37	46	820	85	126	485	365	918	734	404	93	66
2.....	43	46	690	376	143	437	441	846	784	388	96	65
3.....	43	45	550	636	225	404	467	890	863	368	87	66
4.....	41	45	370	458	214	376	429	945	972	336	85	72
5.....	41	45	270	372	190	354	384	1,060	1,080	314	82	68
6.....	41	45	230	322	177	340	396	1,030	1,170	300	80	67
7.....	41	45	210	280	168	343	382	836	1,170	280	78	67
8.....	41	44	180	242	149	361	380	734	1,140	268	76	68
9.....	42	44	184	222	140	336	354	784	1,080	248	75	70
10.....	65	44	149	211	132	300	322	784	1,110	236	74	70
11.....	88	49	143	195	128	286	300	890	1,170	228	72	69
12.....	58	58	122	177	126	283	288	1,030	1,260	225	71	70
13.....	53	58	128	165	122	485	286	1,260	1,260	216	72	72
14.....	51	54	111	160	124	526	364	1,520	1,230	266	71	70
15.....	50	51	116	163	128	412	336	1,560	1,260	195	70	67
16.....	49	51	111	160	182	358	318	1,680	1,170	185	69	65
17.....	49	51	111	147	175	322	367	1,640	1,080	172	68	64
18.....	48	53	103	145	593	304	336	1,420	972	168	67	66
19.....	48	112	100	149	463	273	388	1,260	918	138	66	68
20.....	47	102	98	147	674	254	433	1,060	836	149	66	61
21.....	46	68	96	143	1,680	257	498	918	836	140	65	58
22.....	46	158	102	128	1,080	286	599	810	810	138	63	57
23.....	46	463	98	130	734	325	734	810	784	138	63	56
24.....	47	933	95	128	590	376	883	945	734	136	63	57
25.....	47	710	96	126	627	420	1,030	1,060	769	128	66	57
26.....	46	550	92	124	734	429	1,260	1,140	646	122	66	56
27.....	46	650	90	120	646	412	1,170	1,030	562	116	66	56
28.....	46	520	85	136	549	368	1,080	863	485	111	67	56
29.....	46	950	84	182	-----	350	1,080	794	437	105	68	56
30.....	47	1,200	84	126	-----	358	1,030	734	416	102	68	56
31.....	46	-----	84	124	-----	350	-----	684	-----	98	67	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	88	37	47.9	2,550
November.....	1,200	44	243	14,500
December.....	820	84	187	11,500
January.....	636	85	201	12,000
February.....	1,680	122	394	21,000
March.....	826	254	360	22,000
April.....	1,200	286	560	32,700
May.....	1,680	684	1,030	63,300
June.....	1,260	416	919	54,700
July.....	464	98	265	12,000
August.....	93	65	72.3	4,450
September.....	72	56	63.7	3,790
The year.....	1,680	37	355	257,000

NORTH FORK OF THE RIVER AT GOODYEAR BAR, CALIF.

LOCATION.—Staff gage in E. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 5, T. 19 N., R. 10 E., in Tahoe National Forest at highway bridge at Goodyear Bar. Book Creek enters one-eighth mile and Goodyear Creek one-fourth mile below station.

DRAINAGE AREA.—214 square miles.

RECORDS AVAILABLE.—October, 1919, to September, 1927.

EXTREMES.—Maximum discharge during year, 10,400 second-feet February 21 (gage height, 10.5 feet); minimum, 98 second-feet October 6-9.

1919-1927: Maximum discharge, 12,000 second-feet May 11, 1915, and February 6, 1925 (gage height, 11.5 feet); minimum, 80 second-feet August 10 to October 4, 1924.

REMARKS.—Records good except those for estimated periods, which are fair. There are several small diversions for mining purposes. Gage-height record furnished by United States Forest Service.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	114	111		387	420	1,500	1,500	2,040	1,400	760	275	175
2.....	114	111	*1,850	870	495	1,490	1,820	2,040	1,600	728	267	168
3.....	111	111		1,600	1,710	3,580	2,040	1,930	1,830	735	267	168
4.....	107	107		870	950	*1,300	1,200	1,600	1,930	660	267	168
5.....	108	107		735	795	*900	1,110	1,400	2,260	630	259	175
6.....	98	107		690	725	1,110	1,400	2,040	*2,320	608	243	175
7.....	98	107		645	680	1,110	1,300	1,820	*2,300	572	227	183
8.....	98	107		495	600	1,110	1,300	1,600	*2,220	545	227	183
9.....	98	107		438	600	1,110	1,200	1,600	*2,160	520	227	183
10.....	395	107		420	545	950	1,110	1,600	*2,180	520	227	183
11.....	166	153		395	545	495	870	1,030	2,040	2,280	495	227
12.....	153	243		896	495	470	795	950	2,410	2,410	*473	227
13.....	126	167		877	445	445	2,160	990	3,400	2,670	*463	227
14.....	125	153		342	470	520	1,820	950	3,400	*2,600	445	227
15.....	126	126			495	600	1,400	1,030	3,720	*2,300	420	227
16.....	120	126			520	1,600	1,300	1,030	4,220	*2,250	420	227
17.....	120	126			495	1,300	1,110	990	3,400	*2,170	395	227
18.....	120	121			495	4,050	1,030	1,030	2,670	*1,750	395	227
19.....	120	395			495	1,710	950	1,110	2,040	1,600	395	227
20.....	120	280			470	3,660	870	1,200	2,040	1,600	377	220
21.....	120	190			445	10,400	870	1,300	*1,700	*1,550	359	220
22.....	120	795			395	3,890	870	1,800	1,600	*1,490	350	212
23.....	120	1,600	*280		395	2,410	870	1,600	1,400	*1,300	333	197
24.....	120	5,900			395	2,040	*920	2,040	1,600	*1,340	308	190
25.....	116	1,280			395	2,280	*1,030	*2,450	2,410	*1,300	308	190
26.....	116	1,820			896	2,540	1,110	*2,700	2,410	*1,200	308	190
27.....	113	1,600			395	2,040	1,200	2,670	2,040	*1,100	300	190
28.....	114				495	1,820	1,110	2,670	1,600	*998	300	190
29.....	114				470		1,080	2,540	1,500	795	300	190
30.....	111				445		950	2,410	1,300	795	262	183
31.....	111				496		1,300		1,200		268	183

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	395	98	126	7,780
November.....	5,900	107	735	43,300
December.....			465	29,600
January.....	1,600	247	556	34,300
February.....	10,400	420	1,790	98,400
March.....	2,160	795	1,140	70,200
April.....	2,700	950	1,560	93,000
May.....	4,220	1,200	2,160	133,200
June.....	2,670	795	1,730	100,000
July.....	760	268	461	37,700
August.....	275	183	222	18,600
September.....	183	153	171	10,300
The year.....	10,400	98	921	667,000

* Estimated

ROCK CREEK AT GOODYEAR BAR, CALIF.

LOCATION.—Staff gage in W. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 5, T. 19 N., R. 10 E., 800 feet above mouth at footbridge at Goodyear Bar in Tahoe National Forest. Woodruff Creek enters 350 feet above station.

DRAINAGE AREA.—10.8 square miles.

RECORDS AVAILABLE.—October, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, 508 second-feet February 21 (gage height, 6.1 feet); minimum, 0.5 second-foot August 7-22.

1910-1927: Maximum discharge, about 820 second-feet December 31, 1913 (gage height, 7.0 feet); minimum, 0.2 second-foot August 10-14, 1924.

REMARKS.—Records fair. Three small ditches head above station. Gage-height record furnished by United States Forest Service.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2.7	1.5	• 100	0.5	26	97	108	75	19	6	1.0	0.8
2.....	2.1	1.5		105	41	96	106	75	18	6	.8	.8
3.....	1.8	1.5		75	221	75	190	69	17	6	.8	.8
4.....	1.3	1.5		47	55	• 170	75	142	71	17	4.7	.8
5.....	1.3	1.5		89	89	• 180	67	119	75	16	3.9	.8
6.....	1.3	1.5	86	47	82	65	108	65	• 15	3.4	.6	.8
7.....	1.3	1.5	28	89	82	65	97	65	• 14	3.4	.6	.8
8.....	1.3	1.5	26	84	72	65	86	55	• 13	3.0	.5	.8
9.....	1.3	1.5	23	82	62	65	84	50	• 12	3.0	.6	.8
10.....	18	1.5	21	32	53	80	75	60	• 10	2.7	.5	.8
11.....	14	7	20	32	45	55	67	53	9.5	2.7	.5	.8
12.....	5	11	18	32	41	55	61	55	9.5	• 2.6	.5	.8
13.....	4.0	8.5	16	32	39	142	80	57	9.5	• 2.6	.5	.8
14.....	3.0	3.8	16	32	47	130	60	58	9.5	2.5	.5	.8
15.....	2.2	1.8		36	72	97	57	50	• 2.5	2.5	.5	.8
16.....	1.8	1.8	39		195	96	55	59	• 3	2.5	.5	.8
17.....	1.6	1.8	32		118	75	55	45	• 7.5	2.5	.5	.6
18.....	1.6	2.7	32		312	63	55	44	• 7	2.3	.6	.6
19.....	1.6	10	32		150	65	55	43	6.5	2.0	.5	.6
20.....	1.5	7	32		247	55	55	38	9.5	1.6	.5	.6
21.....	1.5	6	32		508	55	60	• 34	• 9.5	1.6	.5	.6
22.....	1.5	28	• 12	26	242	55	65	31	• 9	1.6	.5	.6
23.....	1.5	35	26	178	55	75	24	• 8.5	1.6	.6	.6	.6
24.....	1.5	234	26	142	• 60	86	24	• 8	1.4	.6	.6	.6
25.....	1.5	86	24	142	• 75	• 110	24	• 8	1.6	.6	.6	.6
26.....	1.5	165	22	142	55	• 125	24	• 7.5	1.4	.6	.6	.6
27.....	1.5	202	21	119	55	119	24	• 7	1.4	.6	.6	.6
28.....	1.5		26	108	55	119	24	• 6.5	1.4	.8	.8	.8
29.....	1.5	• 180	34		63	97	21	6	1.2	.8	.8	.8
30.....	1.5		32		53	86	19	6	1.2	.8	.8	.8
31.....	1.5		28		65		19		1.2	.8		

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	18	1.3	2.71	167
November.....	264	1.5	45.5	2,710
December.....			25.3	3,370
January.....	106	3.5	35.7	2,590
February.....	508	26	135	7,585
March.....	142	53	70.0	4,335
April.....	190	65	82.9	4,335
May.....	75	19	45.2	2,542
June.....	19	6	10.4	612
July.....	6	1.2	2.63	162
August.....	1.0	.5	.61	37.5
September.....	.8	.6	.74	44.0
The year.....	508	.5	33.0	27,500

• Estimated.

GOODYEAR CREEK AT GOODYEAR BAR, CALIF.

LOCATION.—Staff gage in W. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 5, T. 19 N., R. 10 E., at trail bridge in Tahoe National Forest, 300 feet above junction with North Fork of Yuba River and half a mile north of Goodyear Bar.

DRAINAGE AREA.—12.2 square miles.

RECORDS AVAILABLE.—October, 1910, to September, 1927.

EXTREMES.—Maximum discharge during year, about 1,580 second-feet February 21 (gage height, 7.4 feet); minimum, 1.2 second-feet September 27–30.

1910–1927: Maximum discharge, that of February 21, 1927; minimum, 1.2 second-feet August 24–31, 1918, and September 27–30, 1927.

REMARKS.—Records fair. Three small irrigation ditches head above station. Gage-height record furnished by United States Forest Service.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	8	• 150	14	37	141	156	121	34	13	5.5	3.5
2	6.5	8		174	55	134	250	115	32	13	5.5	3.5
3	6.5	8		116	92	127	272	109	30	13	5.5	3.5
4	6.5	8		80	• 120	115	208	115	29	12	5.5	3.5
5	6.5	8	51	59	• 110	98	148	115	23	12	5.5	3.5
6	6	8	42	69	99	92	134	98	• 26	11	5	3.5
7	6	7.5	35	59	92	92	121	93	• 25	10	5	4.0
8	6	7.5	32	53	76	92	109	81	• 24	9	5	4.0
9	6	7.5	28	47	63	92	103	77	• 22	9	5	4.0
10	25	7.5	25	44	59	86	98	77	• 21	8.5	5	4.0
11	19	14	24	42	54	86	92	81	20	• 8.5	5	4.0
12	14	22	21	40	49	81	81	86	20	• 8.5	5	3.5
13	8	13	16	40	47	228	81	86	20	• 8.5	5	3.5
14	8	10	14	40	55	208	81	92	• 20	8.5	5	3.0
15	8	10		47	85	172	92	92	• 19	8.5	5	3.0
16	8	9.5		49	210	127	86	62	• 19	8.5	5	3.0
17	8	9.5		42	116	109	81	81	• 18	8.5	5	3.0
18	8	10		42	535	92	81	73	• 18	8.5	5	3.0
19	8	26		44	191	81	81	62	18	8.5	5	3.0
20	8	14		42	570	81	86	50	16	8	5	3.0
21	8	8.5		40	1,580	81	108	• 48	• 16	8	5	3.0
22	8	61	• 14	32	368	81	121	47	• 16	7	4.6	2.5
23	8	69		32	250	81	134	46	• 15	6.5	4.6	2.5
24	8	352		82	190	• 100	156	46	• 15	6.5	4.0	2.3
25	8	104		26	199	• 120	• 200	44	• 14	5	3.5	2.3
26	8	210		25	208	92	• 220	44	• 14	6.5	3.5	1.9
27	8	230		25	181	98	190	44	• 13	6.5	3.5	1.2
28	8			49	164	98	190	44	• 13	5.5	3.5	1.2
29	8	• 240		44		92	141	43	13	5.5	3.5	1.2
30	8			40		86	156	40	13	5.5	3.5	1.2
31	8			35		108		40		5.5	3.5	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	25	6	8.61	529
November	362	7.5	65.7	2,910
December			38.4	2,000
January	174	14	49.1	3,020
February	1,580	37	200	11,800
March	228	81	109	6,700
April	273	81	135	4,090
May	121	40	73.6	4,530
June	34	13	20.0	1,190
July	13	5	8.48	281
August	5.5	3.5	4.68	265
September	4.0	1.2	2.95	176
The year	1,680	1.2	58.5	42,500

• Estimated.

CANYON CREEK ABOVE JACKSON CREEK, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 3, T. 18 N., R. 12 E., one-fourth mile above Jackson Creek and 3 miles above Bowman Dam. Altitude, about 5,600 feet (revised).

RECORDS AVAILABLE.—January, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,900 second-feet November 23 (gage height, 7.52 feet); minimum, 2 second-feet September 25.

1926-1927: Maximum and minimum discharges, same as for 1927.

REMARKS.—Records good except those for January 22, 23, February 16, 20, March 1-4, and April 10, which were estimated. Flow is regulated by storage at French, Faucherie, and Sawmill Lakes. On September 30, 1926, and also September 30, 1927, the available storage was about 10,000 acre-feet. Gage-height record and results of discharge measurements furnished by Nevada Irrigation District, through Fred H. Tibbetts.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	12	10	100	21	38	104	90	268	198	128	17	19
2.....	9	10	174	53	32	142	99	210	220	123	17	38
3.....	9.5	10	176	299	38	120	104	249	278	113	17	47
4.....	9.5	10	113	233	47	96	86	281	321	104	16	52
5.....	9.6	10	81	158	47	78	78	221	390	94	16	56
6.....	9.5	9.5	65	126	48	74	73	327	431	82	50	59
7.....	10	9.5	53	103	46	75	69	222	485	75	90	60
8.....	10	9.5	46	83	44	77	67	184	496	73	65	60
9.....	10	9.5	38	71	41	74	66	188	415	68	64	61
10.....	12	10	36	64	36	71	58	206	431	63	94	61
11.....	11	10	35	61	35	63	53	235	439	59	88	62
12.....	11	12	34	56	34	60	50	305	423	56	84	62
12.....	11	12	34	53	33	82	48	427	485	54	82	68
14.....	11	12	33	49	32	129	50	549	439	50	78	63
15.....	11	26	32	48	35	100	57	535	406	48	76	60
16.....	11	38	30	49	39	82	59	610	415	46	74	54
17.....	11	26	30	47	43	65	54	585	390	41	71	48
18.....	11	25	29	44	90	58	58	463	344	39	70	26
19.....	11	33	28	42	186	53	73	380	299	35	66	17
20.....	10	61	37	44	246	50	90	297	281	33	61	16
21.....	10	58	28	42	760	48	115	216	263	29	58	16
22.....	10	125	29	40	522	54	160	178	258	27	51	16
23.....	10	849	38	38	256	65	202	184	244	25	37	17
24.....	10	1,250	27	36	176	82	268	244	249	23	14	17
25.....	11	376	26	36	186	99	347	316	251	22	14	22
26.....	11	176	25	34	258	107	431	377	237	21	13	27
27.....	11	140	25	34	233	104	483	327	196	20	13	32
28.....	10	100	24	34	186	88	368	235	162	19	13	35
29.....	10	305	23	35	.....	78	356	186	134	18	13	66
30.....	10	336	22	38	.....	75	347	162	129	18	13	60
31.....	10	.....	22	35	.....	82	.....	164	.....	17	14	.....

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	12	9	10.4	646
November.....	1,250	9.5	136	8,699
December.....	196	21	50.6	3,113
January.....	299	32	67.9	4,780
February.....	790	32	124	7,449
March.....	164	48	83.7	8,335
April.....	483	48	148	8,810
May.....	610	162	306	13,603
June.....	495	129	321	19,166
July.....	128	17	52.4	5,326
August.....	96	13	49.1	3,020
September.....	63	16	42.7	2,640
The year.....	1,250	9	116	84,100

CANYON CREEK, BELOW BOWMAN LAKE, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ 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 to September, 1927.

EXTREMES.—Maximum discharge during period, 793 second-feet May 13-16 (gage height, 3.92 feet); minimum, less than 2 second-feet at times.

REMARKS.—Records good for medium and high stages, fair at low stages. Discharge estimated January 5, 24, 28, 29, February 1-6, and May 19-21. Flow is completely regulated by storage in Bowman Lake and diversion into North Bloomfield ditch and Bowman-Spaulding Canal. On September 30, 1927, the storage in Bowman Lake was about 31,500 acre-feet. Gage-height record and results of discharge measurements furnished by Nevada Irrigation District, through Fred H. Tibbetts.

Daily and monthly discharge, in second-feet, 1927

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		2.2	108	216	160	7	5.5	7.5	2.6
2		2.3	108	222	74	7	4.6	12	2.6
3		2.4	167	218	6	6	12	12	2.7
4		2.5	198	213	73	4.8	4.6	12	2.8
5	58	2.6	170	211	390	5	3.6	12	2.6
6	143	2.7	170	209	393	5	3.6	9	2.6
7	266	2.8	170	216	390	6.5	3.6	2.7	2.2
8	259	2.8	170	213	217	7	10	2.4	2.3
9	145	2.7	170	207	62	7.5	11	2.4	7
10	34	2.7	170	216	64	8.5	11	2.4	2.4
11	36	2.7	168	170	232	8.5	3.8	2.4	2.3
12	33	2.7	168	154	538	9	3.6	2.4	2.2
13	16	2.7	190	158	623	9.5	3.4	2.4	2.2
14	39	2.7	172	107	793	8.5	4.1	2.4	2.2
15	261	5.5	170	54	793	5.5	3.3	2.4	2.2
16	108	34	166	53	670	5.5	4.5	2.4	2.2
17	2.9	36	164	54	198	6	5.5	2.4	2.2
18	2.8	143	162	56	122	8	3.3	2.3	2.2
19	2.7	10	162	58	3.8	8.5	3.2	2.3	2.2
20	2.8	64	160	58	3.6	9	3.2	9.5	2.2
21	2.6	228	158	60	3.6	9.5	3.2	10	2.1
22	64	469	162	213	3.6	10	3.2	10	2.7
23	97	455	162	310	3.3	10	3.2	2.8	2.4
24	2.9	446	162	308	3.2	12	3.2	2.6	5
25	2.7	394	164	313	3.3	7.5	7.5	2.6	6
26	2.4	217	164	470	3.4	3.5	8.5	2.6	2.6
27	2.3	110	162	748	92	5.5	10	2.6	2.2
28	2.3	110	160	740	196	5.5	9.5	2.6	2.1
29	2.3		162	732	7	12	13	2.6	2.1
30	2.3		193	417	7.5	16	10	2.6	2.6
31	2.2		216		7		3.2	2.6	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
January	266	2.2	58.9	3,159
February	469	2.2	98.5	5,470
March	216	108	166	16,306
April	748	53	246	14,690
May	793	3.2	198	12,399
June	16	3.5	7.79	464
July	13	3.2	5.87	351
August	12	2.3	4.80	295
September	7	2.0	2.70	161
The period				46,900

JACKSON CREEK AT MOUTH, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ sec. 2, T. 18. N., R. 12 E., 3 miles above Bowman Dam. Altitude, about 5,600 feet.

DRAINAGE AREA.—5.5 square miles.

RECORDS AVAILABLE.—January, 1926, to September, 1927.

EXTREMES.—Maximum discharge during year, 445 second-feet February 21 (gauge height, 3.65 feet); minimum, 1.0 second-foot October 8.

1926-1927: Maximum discharge, that of February 21, 1927; minimum, 1.0 second-foot September 14 and October 8, 1926.

REMARKS.—Records fair. Discharge estimated January 19-22, February 13, and 14. No diversions. Flow is controlled to some extent by Jackson Lake storage, usually released during July to September. Gauge-height record and results of discharge measurements furnished by Nevada Irrigation District, through Fred H. Tibbetts.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	1.2	1.2	32	7.5	10	40	29	71	46	12	3.3	3.3
2-----	1.2	1.2	44	63	11	26	38	78	49	11	3.2	3.3
3-----	1.2	1.2	33	71	14	32	35	92	52	10	3.2	4.0
4-----	1.2	1.2	24	38	12	30	29	103	58	10	3.2	4.1
5-----	1.2	1.2	20	29	11	30	28	113	64	9.5	3.2	4.0
6-----	1.2	1.2	18	25	11	32	28	89	66	9	3.1	4.0
7-----	1.2	1.2	16	22	11	32	27	66	69	9	3.0	4.0
8-----	1.1	1.2	14	21	11	31	24	65	67	11	2.9	3.9
9-----	1.2	1.2	12	19	10	28	22	71	56	10	2.8	3.9
10-----	2.9	1.2	11	19	10	26	22	76	56	10	2.8	3.9
11-----	2.2	1.4	12	17	10	28	21	89	57	10	2.6	3.9
12-----	2.1	1.6	11	15	10	25	20	105	54	9.5	2.8	3.9
13-----	2.0	1.6	10	15	10	48	21	147	53	9.5	2.1	3.9
14-----	1.9	1.5	9	14	10	56	24	164	49	9	2.1	3.9
15-----	1.7	1.6	9	14	10	36	26	156	43	9	2.1	3.9
16-----	1.7	1.6	9	14	11	28	28	156	41	9	2.1	3.9
17-----	1.6	1.7	9.5	12	12	24	23	129	36	8.5	2.0	3.8
18-----	1.5	2.0	9.5	12	56	28	30	97	30	8.5	2.0	3.8
19-----	1.4	3.1	9	12	55	21	38	87	28	6.5	2.0	3.8
20-----	1.4	3.4	8.5	12	92	20	44	67	26	4.6	2.5	3.7
21-----	1.4	3.4	8.5	11	313	22	57	54	23	4.5	2.8	3.7
22-----	1.4	10	8.5	11	113	26	67	51	22	4.5	3.1	3.6
23-----	1.4	39	8.6	11	58	32	79	68	21	4.2	3.7	3.6
24-----	1.3	109	8	11	45	40	101	65	20	3.9	3.9	3.6
25-----	1.3	22	8	11	59	46	132	74	20	3.9	4.0	3.6
26-----	1.3	24	8	11	69	45	159	75	19	3.9	3.9	3.6
27-----	1.2	20	7.5	10	54	39	120	63	18	3.8	3.9	3.6
28-----	1.2	19	7.5	10	42	31	113	54	16	3.7	3.9	3.6
29-----	1.2	63	7.5	10	-----	30	122	43	13	3.6	3.9	3.6
30-----	1.2	41	7.5	10	-----	31	107	43	12	3.4	3.8	3.6
31-----	1.2	-----	7.5	10	-----	30	-----	44	-----	3.4	3.7	-----
Month						Maximum	Minimum	Mean	Run-off in acre-feet			
October-----						2.9	1.1	1.46	89.8			
November-----						109	1.2	12.7	734			
December-----						44	7.5	13.1	828			
January-----						71	7.5	18.3	1,180			
February-----						313	10	40.7	2,250			
March-----						56	20	32.0	1,970			
April-----						189	20	53.6	3,190			
May-----						164	43	85.5	5,350			
June-----						69	12	39.5	2,350			
July-----						12	3.4	7.37	453			
August-----						4.0	2.0	3.09	184			
September-----						4.1	3.6	3.80	226			
The year-----						313	1.1	25.8	18,700			

NEAR RIVER AT VAN TRENT, CALIF.

LOCATION.—Staff gage in SE $\frac{1}{4}$ sec. 21, T. 14 N., R. 6 E., below highway bridge at McCourtney crossing, three-fourths mile above Rock Creek and 1 mile below Van Trent.

DRAINAGE AREA.—268 square miles.

RECORDS AVAILABLE.—October, 1904, to September, 1927.

EXTREMES.—Maximum discharge during year, about 24,100 second-feet February 21 (gage height, 16.7 feet); minimum, 3.5 second-feet July 19-23, 1904-1927: Maximum discharge, about 29,600 second-feet January 14, 1909 (gage height, 18.9 feet); minimum, 0.7 second-foot October 2, 1924.

REMARKS.—Records fair. Water is diverted and regulated above station for power and irrigation. Stored water from South Fork of Yuba River is diverted into drainage basin above Colfax.

Daily and monthly discharge, in second-feet, 1904-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	12	494	58	440	1,110	4,389	210	32	108	79	172
2	12	12	388	58	670	820	11,409	210	72	210	140	140
3	12	12	304	890	4,800	930	7,250	185	32	210	106	122
4	12	12	272	494	4,300	715	3,300	140	37	66	92	140
5	12	12	240	452	1,460	820	1,880	160	22	42	42	106
6	12	12	180	3,020	1,720	565	1,530	66	22	160	32	122
7	12	12	154	1,160	1,860	715	1,290	210	22	86	32	122
8	12	12	130	720	1,220	665	1,110	210	160	42	32	140
9	12	12	154	575	1,040	820	1,050	185	84	240	42	140
10	41	12	110	485	870	765	930	185	79	275	42	160
11	138	20	91	670	770	715	875	42	54	66	79	160
12	30	30	74	530	720	665	765	42	114	32	79	92
13	20	68	74	440	620	615	715	42	54	22	92	106
14	20	41	58	400	745	3,200	715	32	122	18	92	122
15	20	30	58	360	3,200	1,470	615	32	37	13	92	140
16	20	20	45	670	10,600	1,050	715	22	22	7	106	122
17	20	20	45	485	5,400	930	515	160	22	7	122	122
18	12	20	130	360	11,700	820	615	22	82	7	122	122
19	12	30	180	360	3,300	765	515	60	13	3.5	92	79
20	12	100	120	1,040	4,140	615	615	60	32	3.5	42	92
21	12	41	130	980	24,100	615	470	42	22	3.5	106	122
22	12	41	130	670	7,250	615	515	42	13	3.5	92	122
23	20	138	110	530	3,000	615	385	42	13	3.5	106	181
24	20	6,300	180	440	2,120	565	425	42	22	27	122	122
25	12	1,260	210	400	1,960	565	385	42	22	106	140	140
26	12	1,070	240	260	1,660	565	310	32	13	122	92	79
27	12	3,330	91	440	1,530	470	310	32	48	92	42	122
28	12	1,320	74	1,220	1,290	470	240	160	66	79	22	122
29	12	1,720	74	1,100	425	275	79	79	66	32	32	166
30	12	950	74	770	385	210	54	210	60	48	48	106
31	12		58	575	310			42	122		106	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	138	7	19.2	1,180
November	6,300	12	556	23,106
December	494	45	149	9,160
January	3,020	58	665	40,909
February	24,100	440	3,660	308,000
March	3,200	310	785	48,800
April	11,400	210	1,480	88,100
May	210	22	93.0	5,720
June	210	13	52.4	3,120
July	275	3.5	77.2	4,750
August	140	22	79.5	4,890
September	172	79	123	7,820
The year	24,100	3.5	621	450,000

BEAR RIVER CANAL, NEAR COLFAX, CALIF.

LOCATION.—Float gage in sec. 28, T. 15 N., R. 9 E., just below lower spillway gates 1 mile below diversion dam on Bear River and 2 miles northwest of Colfax.

RECORDS AVAILABLE.—January, 1912, to September, 1927.

EXTREMES.—1912-1927: Maximum mean daily discharge, 302, second-foot September 16 and October 31, 1923, and January 21, 1925.

REMARKS.—This canal diverts from left bank of Bear River in sec. 28, T. 15 N., R. 9 E. Water is used to develop power at Haley power house and at Wise power house and is then distributed for irrigation in the Piceurville district. At times of excess supply of water some is wasted into American River in sec. 4, T. 11 N., R. 8 E. Discharge record furnished by Pacific Gas & Electric Co.

Daily and monthly discharge, in second-foot, 1923-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	259	40	204	138	241	208	208	274	300	300	280	300
2.....	280	40	204	201	240	208	208	264	300	300	280	300
3.....	210	40	208	208	222	208	208	247	300	300	280	300
4.....	176	40	208	222	203	208	208	238	300	293	296	300
5.....	298	40	190	235	203	208	237	224	300	300	272	300
6.....	300	40	163	239	203	208	256	235	300	300	290	300
7.....	208	40	149	239	203	152	269	254	298	300	288	300
8.....	280	38	204	239	203	59	280	252	300	300	298	300
9.....	294	40	168	240	203	59	173	235	300	300	300	300
10.....	290	37	153	240	203	59	284	220	300	300	300	300
11.....	240	65	120	240	203	59	278	205	300	300	300	300
12.....	268	148	153	240	203	59	292	208	300	300	300	300
13.....	290	132	112	239	203	154	295	226	300	300	300	300
14.....	279	84	106	239	203	59	300	224	300	298	300	300
15.....	294	49	104	241	203	59	300	213	300	297	300	300
16.....	300	95	208	240	6.5	59	300	218	300	297	300	300
17.....	191	41	230	240	0	59	300	210	300	293	300	300
18.....	291	58	240	239	0	59	300	276	300	279	300	300
19.....	297	73	235	240	0	55	300	293	300	297	300	300
20.....	297	97	164	241	0	51	151	300	300	298	300	300
21.....	289	54	239	240	0	51	151	297	300	300	300	300
22.....	294	144	239	241	0	51	163	296	300	300	300	300
23.....	297	278	231	240	9	51	203	300	300	300	300	300
24.....	128	202	229	241	59	51	224	300	300	300	300	300
25.....	128	201	211	240	64	51	248	300	300	300	300	300
26.....	110	201	191	240	64	51	274	300	300	300	300	300
27.....	103	201	188	241	99	100	300	297	300	300	300	300
28.....	74	201	256	241	189	151	300	300	300	290	224	300
29.....	49	201	290	239	-----	177	297	300	300	280	283	300
30.....	49	201	132	240	-----	208	298	297	300	280	298	300
31.....	41	-----	128	241	-----	213	-----	294	-----	280	-----	-----
Month	Maximum					Minimum		Mean		Run-off in acre-feet		
October.....	300					41		222		12,000		
November.....	278					37		104		6,100		
December.....	290					104		188		11,400		
January.....	295					138		240		14,000		
February.....	241					0		129		7,100		
March.....	213					51		109		4,700		
April.....	300					151		252		15,400		
May.....	300					203		281		16,000		
June.....	300					298		300		17,000		
July.....	300					279		298		15,000		
August.....	300					224		293		15,000		
September.....	300					300		300		17,000		
The year.....	300					0		225		163,000		

AMERICAN RIVER BASIN

NORTH FORK OF AMERICAN RIVER NEAR COLFAX, CALIF.

LOCATION.—Staff gage in SW. $\frac{1}{4}$ sec. 30, T. 14 N., R. 10 E., at bridge on Colfax-Forest Hill Road, 150 feet below mouth of Shrittail Canyon Creek and 5 miles southeast of Colfax.

RECORDS AVAILABLE.—August, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, about 16,600 second-feet February 21 (gage height, 12.8 feet); minimum, 41 second-feet part of October and November.

1911-1927: Maximum discharge, about 23,000 second-feet January 1, 1914 (gage height, 16.0 feet); minimum, 15 second-feet July 22 to August 7 and August 12-15, 1924.

REMARKS.—Records fair. Small storage and diversion above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	41	1,490	236	706	1,800	3,720	2,440	1,090	370	100	65
2	50	41	1,290	359	816	1,700	6,150	1,900	1,090	415	100	65
3	50	41	1,350	2,460	2,950	1,410	6,470	2,220	1,410	415	100	65
4	50	41	900	1,420	3,760	1,320	4,590	2,220	1,410	415	100	90
5	50	41	816	1,050	1,850	1,230	3,440	2,440	1,800	350	100	80
6	50	41	790	1,420	1,700	1,140	3,180	2,560	1,800	350	100	65
7	41	41	653	1,050	1,700	1,140	2,680	1,800	1,900	295	100	65
8	41	41	530	816	1,420	1,230	2,440	1,700	2,000	245	100	65
9	41	41	461	816	1,170	1,230	2,220	1,800	1,600	230	80	65
10	148	41	418	816	1,050	940	2,000	1,800	1,800	230	80	65
11	161	46	288	874	932	900	1,800	1,800	1,800	230	80	65
12	69	98	298	788	816	830	1,600	2,000	1,700	230	80	65
13	58	270	378	706	816	1,060	1,600	2,690	1,800	245	65	65
14	50	125	340	653	816	3,880	1,600	3,050	1,900	245	80	65
15	50	83	340	680	2,460	2,000	1,800	3,180	1,500	245	80	65
16	50	62	304	816	4,730	1,800	1,700	3,050	1,500	215	65	65
17	50	62	322	706	4,410	1,410	1,500	3,050	1,320	200	65	65
18	50	69	340	680	7,090	1,230	1,600	2,440	1,090	200	65	65
19	50	189	304	653	5,220	1,140	1,800	2,220	990	185	65	65
20	50	440	370	932	5,390	1,060	1,800	1,900	940	170	65	65
21	50	106	322	816	12,200	1,060	1,990	1,500	900	170	65	53
22	41	220	340	788	8,160	1,230	2,110	1,230	895	170	65	65
23	41	1,170	304	628	5,510	1,230	2,000	1,090	795	158	65	65
24	41	7,350	370	602	3,440	1,410	2,920	1,410	700	158	65	65
25	41	1,580	270	553	3,180	1,600	3,180	1,700	760	145	65	50
26	41	1,420	270	506	3,440	1,600	3,180	1,800	690	145	65	58
27	41	3,510	226	506	3,060	1,410	3,720	1,800	510	132	65	58
28	41	1,770	226	1,080	2,220	1,230	2,920	1,410	392	120	65	58
29	41	4,110	236	932	-----	1,140	2,920	1,060	350	120	65	58
30	41	2,840	236	816	-----	1,140	2,800	1,060	392	100	65	60
31	41	-----	236	788	-----	1,410	-----	990	-----	100	65	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	161	41	52.8	3,310
November	7,350	41	847	50,400
December	1,490	236	467	29,900
January	2,460	236	894	61,300
February	12,200	706	3,250	180,000
March	3,580	830	1,370	84,200
April	6,470	1,560	2,710	161,000
May	3,180	950	1,080	122,000
June	2,000	350	1,210	72,000
July	415	160	226	13,000
August	100	65	76.9	4,790
September	90	50	61.6	3,670
The year	12,200	41	1,070	776,000

AMERICAN RIVER AT FAIROAKS, CALIF.

LOCATION.—Water-stage recorder and staff gage at highway bridge half a mile southeast of Fair Oaks, Sacramento County, and 10 miles below mouth of South Fork.

DRAINAGE AREA.—1,910 square miles.

RECORDS AVAILABLE.—November, 1904, to September, 1927.

EXTREMES.—Maximum discharge during year, 67,700 second-feet February 21 (gage height, 19.4 feet); minimum, 78 second-feet November 12.

1904-1927: Maximum discharge, about 119,000 second-feet March 19, 1907 (gage height, 30.4 feet); minimum, 3.6 second-feet August 16, 1924.

REMARKS.—Records good except those for November 21, 23, December 5, 12, 19, 26, January 2, 9, 16, 23, July 3, 10, and 11, which were estimated. Water is diverted for irrigation above station and there is considerable storage and regulation in connection with power development.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	235	185	6,310	1,000	3,170	9,230	18,300	12,206	5,480	1,790	512	362
2	314	180	5,160	1,200	3,170	8,430	25,000	10,400	4,890	1,730	488	362
3	356	186	6,310	8,690	8,160	7,670	30,500	10,900	4,800	1,850	488	279
4	230	195	6,100	9,510	20,300	7,430	22,000	11,500	6,310	1,550	431	290
5	246	185	5,500	5,340	9,790	6,520	16,500	11,200	8,050	1,660	431	326
6	350	185	5,160	6,100	8,980	5,900	13,800	13,400	9,790	1,520	496	332
7	356	196	2,740	6,100	8,170	5,900	12,200	9,510	11,800	1,500	438	332
8	332	175	2,340	4,120	6,100	5,900	10,900	8,350	10,600	1,520	404	380
9	314	160	1,950	3,000	4,980	6,960	10,100	7,190	6,950	1,520	438	335
10	459	170	1,820	3,170	4,120	6,100	8,430	7,190	8,960	1,550	417	332
11	616	175	1,620	3,950	3,630	5,520	7,920	8,170	8,960	1,580	392	344
12	666	215	1,690	8,170	3,320	5,160	6,960	9,230	9,530	1,610	404	308
13	544	712	1,560	2,580	3,170	5,160	6,310	12,200	10,100	1,610	396	290
14	438	846	1,440	2,830	3,320	13,300	6,100	14,800	10,100	1,520	374	356
15	466	560	1,380	2,840	10,100	10,600	6,740	15,800	8,960	1,440	356	350
16	452	398	1,210	2,680	15,100	8,690	6,740	16,900	8,960	1,400	380	350
17	417	338	1,820	3,020	16,500	7,670	5,900	16,200	8,170	1,250	392	344
18	398	338	1,160	2,880	27,600	6,960	5,900	13,400	7,670	1,190	380	320
19	362	480	1,160	2,470	28,900	5,900	6,520	12,500	6,740	1,120	356	279
20	336	3,170	1,160	2,880	18,300	5,710	7,190	9,230	4,980	1,040	368	302
21	386	1,600	1,210	3,630	48,200	5,520	8,430	6,740	5,430	1,020	320	362
22	380	1,210	1,260	3,170	42,800	5,620	9,230	4,980	5,710	920	296	326
23	374	4,460	1,320	2,880	25,000	6,100	10,400	5,250	5,240	846	332	308
24	386	7,670	1,260	2,600	19,000	6,740	12,800	6,310	5,800	865	332	300
25	230	15,800	1,160	2,340	14,800	7,670	14,500	7,670	6,100	810	344	279
26	210	5,900	1,130	2,210	14,100	7,920	17,200	9,230	5,150	846	314	279
27	225	11,500	1,100	2,470	12,200	7,670	17,600	8,690	4,200	792	274	300
28	220	6,500	1,100	2,600	10,400	6,740	14,100	7,190	3,630	096	284	424
29	215	12,200	1,100	4,980	-----	6,310	14,100	6,280	2,740	640	284	350
30	210	11,800	1,080	4,480	-----	6,310	14,100	5,940	1,950	592	338	296
31	195	-----	1,000	3,470	-----	6,100	-----	4,890	-----	536	356	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	656	195	353	21,790
November	15,800	180	2,920	174,000
December	6,310	1,000	2,260	138,000
January	9,510	1,000	3,630	232,000
February	48,200	3,170	13,000	772,000
March	18,300	5,160	7,170	441,000
April	30,500	5,900	12,200	726,000
May	16,900	4,890	9,790	601,000
June	11,800	1,950	6,980	412,000
July	1,760	536	1,240	76,200
August	612	274	381	23,400
September	424	279	329	19,600
The year	48,200	160	5,010	3,630,000

MIDDLE FORK OF AMERICAN RIVER NEAR EAST AUBURN, CALIF.

LOCATION.—Staff gage in SE. $\frac{1}{4}$ sec. 6, T. 12 N., R. 9 E., at Mountain Quarry Co.'s plant, $1\frac{1}{2}$ miles above junction with North Fork of American River, and $3\frac{1}{2}$ miles northeast of East Auburn.

RECORDS AVAILABLE.—October, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, about 29,200 second-feet February 21 (gage height, 21.5 feet); minimum, 37 second-feet October 1.

1911-1927: Maximum discharge, about 36,300 second-feet February 6, 1925 (gage height, 25.0 feet); minimum, 23 second-feet September 26 to October 3, 1924.

REMARKS.—Records good except those for estimated periods, which are fair. Pilot Creek ditch and Little South Fork ditch divert from tributaries above station. Storage is developed in Loon Lake at head of Gerle Creek.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	39	56	2,570	330	1,060	3,790	6,280	* 5,790	2,430	1,040	224	102
2.....	47	56	2,060	400	1,220	3,290	11,000	4,880	2,280	1,040	205	102
3.....	* 52	56	2,680	5,960	2,720	3,060	9,000	5,440	2,960	* 1,000	202	102
4.....	56	56	1,600	3,280	5,500	2,820	5,440	5,440	3,220	* 970	172	102
5.....	51	56	1,260	1,860	3,040	2,380	5,300	6,000	* 3,840	* 985	184	120
6.....	47	56	1,220	2,350	2,920	2,270	5,160	6,280	4,470	990	179	108
7.....	43	56	1,080	1,660	2,460	2,270	5,020	4,840	4,600	840	* 174	99
8.....	43	56	870	1,520	2,060	2,380	4,880	* 3,600	4,740	780	169	102
9.....	42	56	740	1,290	1,600	2,600	4,210	2,870	3,340	720	162	90
10.....	69	56	680	1,440	1,520	2,170	3,680	3,840	3,950	* 660	146	90
11.....	253	59	680	1,440	1,440	1,970	3,340	3,820	3,820	660	129	90
12.....	211	120	682	1,150	1,260	1,790	2,980	5,020	* 4,020	660	126	90
13.....	138	400	900	1,150	* 1,200	* 1,880	2,760	6,000	4,210	680	120	90
14.....	108	314	525	1,010	1,260	7,760	2,650	7,120	4,340	680	* 122	90
15.....	92	175	460	1,080	2,920	4,310	2,650	* 7,340	3,580	600	128	99
16.....	89	136	460	1,440	4,900	3,290	2,650	7,550	3,820	545	123	90
17.....	* 84	120	440	1,150	5,050	2,820	* 2,760	7,700	3,580	* 513	127	90
18.....	79	160	502	1,080	10,900	2,600	2,870	5,720	3,100	490	124	90
19.....	74	211	440	1,080	8,730	2,270	3,340	4,880	2,650	462	117	90
20.....	69	1,060	420	1,440	6,760	* 2,220	3,580	3,820	2,120	425	114	84
21.....	62	710	460	1,440	23,500	2,170	3,700	3,100	2,220	410	111	73
22.....	62	525	460	1,010	15,900	2,170	4,740	2,870	2,230	380	106	78
23.....	62	2,350	460	940	8,510	2,380	5,440	2,080	2,080	845	105	76
24.....	* 62	5,800	420	870	6,250	3,050	6,000	2,430	2,430	* 352	162	73
25.....	62	3,040	420	870	5,560	3,290	6,840	3,580	2,280	360	102	73
26.....	62	2,250	420	870	6,060	3,290	7,850	3,950	* 1,850	326	102	73
27.....	61	4,750	382	870	* 5,280	* 3,280	8,000	3,650	1,490	264	162	73
28.....	59	2,800	365	1,520	4,310	3,170	6,840	2,650	1,180	281	102	73
29.....	59	6,440	382	1,440	-----	2,490	6,840	* 2,510	1,040	280	102	73
30.....	56	4,479	382	1,290	-----	2,380	6,700	* 2,370	1,040	222	102	73
31.....	56	-----	365	1,220	-----	2,600	-----	2,230	-----	* 228	102	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	253	39	75.7	4,650
November.....	6,440	56	1,230	73,200
December.....	2,680	265	700	45,600
January.....	5,960	330	1,440	88,580
February.....	23,500	1,080	5,150	284,000
March.....	7,760	1,790	2,840	175,000
April.....	11,000	2,650	5,080	302,000
May.....	7,700	2,030	4,470	275,000
June.....	4,740	1,040	2,960	175,000
July.....	1,040	228	581	35,700
August.....	224	102	137	8,420
September.....	130	73	68.5	5,370
The year.....	23,500	39	2,040	1,480,000

* Estimated.

SOUTH FORK OF AMERICAN RIVER NEAR KYBURZ, CALIF.

LOCATION.—Water-stage recorder in S. $\frac{1}{2}$ 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. Perrin Creek enters just above gage.

RECORDS AVAILABLE.—August to December, 1907; October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,220 second-feet May 16 (gage height, 6.57 feet); minimum, 0.4 second-foot October 14–18.

1922–1927: Maximum discharge, that of May 16, 1927; minimum, 0.4 second-foot part of October, 1924, September, 1925, and August and October, 1926.

REMARKS.—Records excellent except those for December 13 to January 2, which were estimated because of ice. El Dorado Canal diverts water half a mile above station and returns it to river at power house below gage. Echo Lake flume diverts water from Echo Lake in the Truckee River Basin into the drainage above station. Flow partly regulated by four storage reservoirs above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1.....	0.5	0.7	280	20	66	580	430	1,540	1,160	633	14	1.8
2.....	23	.7	358	25	94	520	550	1,540	1,160	635	1.0	3.2
3.....	21	.7	290	591	150	476	820	1,700	1,340	624	4.9	5.5
4.....	.7	.7	195	284	138	444	663	1,760	1,490	596	8	8.5
5.....	7	.7	162	190	134	406	635	1,920	1,700	550	3.2	3.3
6.....	1.5	.7	150	178	110	408	630	1,760	1,920	520	1.3	.9
7.....	.6	.7	124	152	98	440	652	1,340	1,920	412	1.2	.8
8.....	.5	.7	114	142	86	476	624	1,120	1,700	374	.7	1.7
9.....	4.7	.7	100	136	84	428	640	1,120	1,540	344	.6	1.8
10.....	5.5	.9	84	150	77	332	480	1,200	1,700	280	2.2	1.5
11.....	1.6	1.5	75	134	77	354	440	1,340	1,700	336	3.0	1.8
12.....	.5	4.2	53	120	77	362	404	1,640	1,880	398	.9	1.6
13.....	.5	1.4	33	122	74	466	399	2,080	1,920	285	.9	1.6
14.....	.4	.6	16	116	80	618	426	2,360	2,080	212	1.6	.7
15.....	.4	.6	15	128	86	466	506	2,440	1,980	301	2.0	.7
16.....	.4	1.3	13	128	120	412	466	2,680	2,080	229	6.5	.7
17.....	.4	.6	12	102	106	382	422	2,360	1,880	185	1.4	2.0
18.....	.4	.6	11	106	458	354	480	2,080	1,700	172	.8	.9
19.....	.6	199	9	119	545	382	560	1,810	1,490	124	6	.8
20.....	.6	106	8	108	540	318	647	1,360	1,340	107	5.5	.9
21.....	.6	46	7	101	1,070	332	788	1,120	1,340	.92	8.7	4.2
22.....	.6	109	6	65	841	417	1,000	1,000	1,290	106	2.4	2.0
23.....	.6	200	4	80	570	515	1,200	1,040	1,180	104	1.2	3.0
24.....	.6	984	3	88	520	602	1,440	1,360	1,240	96	1.2	1.6
25.....	.6	274	42	74	570	647	1,640	1,640	1,280	86	1.0	60
26.....	.6	200	22	76	635	659	1,920	1,700	1,180	63	2.3	60
27.....	.6	166	20	71	596	635	1,810	1,490	923	57	1.6	40
28.....	.6	158	20	90	510	520	1,640	1,200	834	44	1.2	27
29.....	.6	896	20	76	-----	480	1,810	1,120	749	5.5	.8	15
30.....	.7	505	20	63	-----	435	1,760	1,080	725	3.2	3.6	8.5
31.....	.7	-----	20	70	-----	422	-----	1,080	-----	36	2.2	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	23	0.4	2.50	154
November.....	984	.6	12.7	7,580
December.....	358	3	73.7	4,330
January.....	591	20	126	7,735
February.....	1,070	66	304	18,000
March.....	659	318	461	28,300
April.....	1,920	399	861	51,200
May.....	2,630	1,000	1,580	97,200
June.....	2,030	725	1,480	88,100
July.....	668	8.2	256	15,900
August.....	14	.6	2.81	173
September.....	60	.7	8.95	533
The year.....	2,630	.4	439	318,000

Combined daily and monthly discharge, in second-feet, of South Fork of American River and El Dorado Canal near Kyburz, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	88	59	364	104	152	668	524	1,650	1,290	830	164	144
2	68	59	452	110	174	607	644	1,090	1,290	782	146	145
3	29	58	384	671	226	563	914	1,810	1,478	771	155	148
4	19	58	291	364	216	531	776	1,870	1,622	748	158	150
5	98	57	248	270	208	495	729	2,036	1,890	697	188	147
6	106	57	286	260	193	495	724	1,890	2,060	687	159	146
7	105	57	209	237	186	527	747	1,450	2,060	559	150	149
8	104	57	190	227	174	563	718	1,220	1,830	521	149	151
9	66	62	176	216	172	513	664	1,230	1,660	561	147	151
10	32	63	168	230	165	468	574	1,310	1,890	487	153	150
11	90	78	163	219	165	440	534	1,450	1,830	483	153	151
12	98	98	141	201	165	448	496	1,710	2,000	454	150	152
13	76	67	121	200	162	553	493	2,190	2,060	381	150	152
14	70	32	98	194	168	700	520	2,490	2,160	359	152	149
15	68	41	93	208	174	552	594	2,560	2,110	448	151	149
16	60	67	90	206	206	496	551	2,750	2,170	376	156	146
17	39	73	88	180	194	468	515	2,500	2,000	322	151	148
18	31	75	87	184	546	440	586	2,210	1,840	319	149	145
19	72	308	85	183	632	418	682	1,940	1,630	271	138	147
20	79	208	84	186	628	404	749	1,520	1,480	255	146	147
21	78	106	88	178	1,160	418	890	1,250	1,480	242	145	152
22	75	179	82	151	927	504	1,100	1,090	1,490	256	143	151
23	74	265	80	168	657	602	1,300	1,170	1,300	254	142	151
24	77	1,050	78	175	607	692	1,540	1,620	1,890	248	142	150
25	86	838	122	161	638	741	1,740	1,770	1,440	236	142	309
26	91	278	107	168	728	786	2,020	1,630	1,310	213	144	209
27	95	250	100	157	684	729	1,810	1,620	1,680	207	144	195
28	91	244	86	176	597	614	1,750	1,830	961	194	142	176
29	85	910	86	162	---	574	1,920	1,250	896	154	142	135
30	76	554	97	149	---	526	1,876	1,210	872	147	146	136
31	97	---	86	156	---	510	---	1,210	---	187	148	---

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	106	19	73.6	4,590
November	1,050	32	193	11,500
December	452	78	155	9,580
January	671	104	206	12,890
February	1,160	152	390	21,730
March	733	494	549	32,890
April	2,080	498	958	57,630
May	2,750	1,090	1,700	105,000
June	2,170	872	1,610	95,890
July	890	147	406	25,080
August	164	135	148	8,180
September	228	144	156	9,280
The year	2,750	19	545	395,000

SOUTH FORK OF AMERICAN RIVER NEAR CAMINO, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 25, T. 11 N., R. 11 E., 1 mile below intake of Western States Gas & Electric Co.'s flume, 300 feet above mouth of Iowa Canyon Creek, and 3 miles northwest of Camino.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 9,350 second-feet February 21 (gage height, 13.94 feet); minimum, 4.8 second-feet November 7.

1922-1927: Maximum discharge, 18,000 second-feet February 6, 1925 (gage height, 19.0 feet); minimum, 3.7 second-feet October 27, 1924, and August 30, 1926.

REMARKS.—Records excellent. There are four storage reservoirs and three diversions above station; complete regulation at low water. See records for Western States Gas & Electric Co.'s flume, El Dorado Canal, and Finnon Reservoir outlet.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1-----	11	6	1,040	180	500	2,180	2,840	3,810	2,390	1,240	120	50
2-----	12	7	1,040	250	592	1,970	3,900	3,450	2,320	1,170	114	48
3-----	22	8	1,120	1,860	1,340	1,830	6,100	3,810	2,760	1,120	98	48
4-----	18	8.5	780	1,370	1,760	1,660	4,200	3,900	2,840	1,070	84	38
5-----	22	8.5	575	840	1,240	1,520	3,360	4,100	3,360	970	98	42
6-----	11	8	515	900	1,070	1,460	3,090	4,200	3,720	945	92	48
7-----	13	6	500	680	1,040	1,550	2,840	3,000	2,900	800	66	40
8-----	12	6.5	392	610	860	1,760	2,680	2,460	3,680	720	78	48
9-----	11	8.5	355	560	740	1,620	2,390	2,460	3,000	680	72	48
10-----	22	8.5	305	662	645	1,430	2,110	2,600	3,560	575	70	56
11-----	26	8	295	680	575	1,370	1,970	2,840	3,360	645	72	46
12-----	27	82	295	592	592	1,320	1,760	3,060	3,720	892	74	55
13-----	24	156	225	515	545	1,900	1,690	4,100	3,720	515	74	58
14-----	21	49	198	470	628	3,060	1,690	5,280	3,960	470	44	48
15-----	18	25	198	515	1,070	2,250	1,900	5,280	3,510	485	68	64
16-----	15	16	205	628	1,690	1,900	1,830	5,500	3,720	442	66	62
17-----	9	16	198	515	1,760	1,760	1,620	5,380	3,540	330	64	50
18-----	9	9.5	208	470	4,480	1,620	1,760	4,400	3,060	368	62	32
19-----	14	123	180	465	3,450	1,430	1,900	3,810	2,680	322	58	56
20-----	13	583	175	575	3,450	1,820	2,110	2,920	2,460	272	52	56
21-----	12	223	198	530	8,150	1,870	2,320	2,390	2,320	228	51	58
22-----	12	307	184	405	5,960	1,520	2,780	2,110	2,390	228	63	54
23-----	13	645	184	380	3,810	1,530	3,270	1,900	2,110	245	61	56
24-----	9	2,190	157	418	2,920	2,040	3,810	2,600	2,250	212	56	60
25-----	8	1,350	163	380	2,760	2,180	4,300	3,360	2,320	230	50	44
26-----	11	1,220	169	380	2,840	2,260	4,840	3,540	2,040	196	62	110
27-----	11	1,690	187	380	2,680	2,110	4,950	3,270	1,620	176	66	166
28-----	11	1,070	599	720	2,320	1,830	4,100	2,460	1,450	164	51	118
29-----	8.5	2,890	208	700	-----	1,760	4,800	2,250	1,270	145	56	65
30-----	8	1,970	190	645	-----	1,690	4,400	2,190	1,270	124	65	96
31-----	6	-----	196	545	-----	1,830	-----	2,110	-----	96	52	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October-----	86	6	16.1	990
November-----	2,390	6	475	28,300
December-----	1,120	157	349	21,500
January-----	1,860	180	603	37,200
February-----	8,150	500	2,120	118,000
March-----	3,090	1,320	1,790	110,000
April-----	6,100	1,620	3,030	180,000
May-----	5,600	1,900	3,370	207,000
June-----	3,900	1,270	2,320	165,000
July-----	1,240	98	509	31,380
August-----	120	31	68.6	4,220
September-----	138	32	62.3	3,710
The year-----	8,150	6	1,260	910,000

Combined daily and monthly discharge, in second-feet, of South Fork of American River and Western States Gas & Electric Co.'s flume near Camino, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	103	88	1,140	274	606	2,280	2,950	3,920	2,500	1,350	225	152
2.....	102	99	1,150	356	697	2,080	4,010	3,560	2,430	1,280	217	147
3.....	83	93	1,220	1,970	1,480	1,980	6,210	3,920	2,370	1,230	198	147
4.....	110	92	885	1,480	1,870	1,790	4,800	4,010	2,950	1,180	182	140
5.....	111	96	681	948	1,350	1,620	3,460	4,210	3,470	1,080	199	137
6.....	102	94	620	1,000	1,170	1,560	3,190	4,316	3,380	1,050	191	161
7.....	103	80	604	734	1,140	1,660	2,940	3,110	4,010	908	167	160
8.....	104	90	496	715	967	1,860	2,780	2,570	3,740	828	180	162
9.....	102	88	858	685	847	1,720	2,500	2,570	3,110	788	177	148
10.....	78	96	409	766	753	1,630	2,220	2,710	3,450	682	175	155
11.....	187	97	400	783	683	1,470	2,080	2,950	3,470	753	176	136
12.....	121	181	400	694	700	1,420	1,870	3,200	3,380	700	178	183
13.....	117	262	380	630	652	2,000	1,800	4,210	2,390	623	178	156
14.....	110	155	303	575	735	3,200	1,800	5,390	4,010	577	148	160
15.....	110	129	303	617	1,180	2,360	2,010	5,390	3,920	598	171	168
16.....	106	119	310	730	1,790	2,000	1,940	5,610	3,380	550	170	164
17.....	84	116	303	617	1,860	1,860	1,730	5,500	3,650	437	166	152
18.....	86	120	313	575	4,590	1,720	1,870	4,510	3,200	476	165	133
19.....	103	230	285	590	3,550	1,630	2,010	3,980	2,790	430	169	155
20.....	105	691	280	680	3,560	1,420	2,220	2,990	2,570	380	152	157
21.....	102	327	301	685	8,260	1,470	2,430	2,460	2,430	346	158	167
22.....	103	414	258	510	6,060	1,620	2,870	2,220	2,500	335	171	154
23.....	105	758	290	485	3,910	1,930	3,380	2,010	2,220	355	162	166
24.....	90	2,300	244	522	3,020	2,140	3,920	2,710	2,860	819	157	161
25.....	94	1,410	264	484	2,860	2,280	4,410	3,470	2,450	337	150	149
26.....	96	1,250	275	484	2,940	2,360	4,950	3,650	2,150	303	162	220
27.....	99	1,720	253	485	2,780	2,220	5,060	3,390	1,730	253	156	248
28.....	99	1,100	309	826	2,420	1,940	4,210	2,570	1,540	269	181	228
29.....	94	2,490	312	806	-----	1,860	4,410	2,360	1,880	253	155	188
30.....	91	2,080	290	650	-----	1,800	4,510	2,290	1,380	228	172	203
31.....	82	-----	290	651	-----	1,940	-----	2,220	-----	200	152	-----
Month												
	Maximum			Minimum			Mean			Run-off in acre-feet		
October.....	187			78			103			6,330		
November.....	2,490			80			562			23,400		
December.....	1,220			244			449			27,600		
January.....	1,070			274			709			48,600		
February.....	3,260			606			2,280			134,000		
March.....	3,200			1,420			1,890			116,000		
April.....	6,210			1,730			3,130			186,000		
May.....	5,610			2,010			3,480			214,000		
June.....	4,010			1,380			2,930			174,000		
July.....	1,350			300			617			37,900		
August.....	225			131			171			10,500		
September.....	248			123			165			9,820		
The year.....	3,260			78			1,360			983,006		

MEDLEY LAKES OUTLET NEAR VADE, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 20, T. 12 N., R. 17 E., 1 mile below main dam at Medley Lakes and 5 miles northwest of Phillips, Wade post office. Altitude, about 8,100 feet.

RECORDS AVAILABLE.—September, 1922, to September, 1927; summer record only.

EXTREMES.—Maximum discharge during year, 118 second-feet July 2 (gage height, 2.55 feet); stream dry October 1-10.

1922-1927: Maximum discharge, 148 second-feet June 21, 1925 (gage height, 2.86 feet); no flow later part of September to October 27, 1924, and September 1 to October 10, 1926.

REMARKS.—Records fair. Observations discontinued January 2 to May 31. No diversions. Flow partly regulated by gates in dam at Medley Lakes. There was no water in Medley Lakes on September 30, 1926, and none on September 30, 1927.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Apr.	June	July	Aug.	Sept.
1	0	0.3	3.2	0.5		22	114		68
2	0	.3	2.6			4	108	22	68
3	0	.3	2.1			5	105		67
4	0	.3	1.6			6	98	22	66
5	0	.3	1.4			8	84	24	66
6	0	.3	1.2			10	84	22	65
7	0	.3	1.4			8	74	22	64
8	0	.3	1.2			5	56	21	72
9	0	.3	1.2			9		19	83
10	0	.3	1.1			7		17	82
11	.5	.3	1.0			10	* 25	16	81
12	.3	.6	1.0			10		15	80
13	.3	.8	.9					13	78
14	.3	.5	.9					12	77
15	.3	.5	.8					12	76
16	.3	.5	.8				* 40	12	74
17	.3	.6	.8					12	74
18	.3	.7	.8			* 15		43	72
19	.3	5	.7					83	70
20	.3	6	.7					83	69
21	.3	3.1	.7					82	67
22	.3	3.8	.7					80	65
23	.3	8	.6					78	58
24	.3	9	.6					78	58
25	.3	5.5	.6		16		* 25	77	47
26	.3	4.2	.6			* 105		75	36
27	.3	11	.6					71	19
28	.3	6	.6					70	13
29	.3	11	.5					69	9
30	.3	7.5	.5				* 10	68	6.5
31	.3		.5					67	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	0.5	0	0.21	12.9
November	11	.3	2.02	174
December	3.2	.5	1.08	68.3
January			* 4	24.6
February			* 5	278
March			* 52	3,280
April			* 12	714
May			* 25	1,540
June			36.5	2,170
July	114		43.8	2,690
August	88	12	42.9	2,040
September	83	6.5	60.8	3,620
The year	114	0	23.6	17,100

* Estimated from storage released from reservoir. Gate opened Feb. 27.

SILVER LAKE OUTLET NEAR KIRKWOOD, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 32, T. 10 N., R. 17 E., 1,000 feet below Silver Lake Dam and 4 miles southwest of Kirkwood. Altitude, about 7,200 feet.

RECORDS AVAILABLE.—September, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 313 second-feet May 16 (gage height, 3.94 feet); minimum, 0.1 second-foot part of October to January.

1922-1927: Maximum discharge, that of May 16, 1927; minimum, 0.1 second-foot part of each year.

REMARKS.—Records excellent. Discharge estimated April 25, 26, and August 18. No diversions. There was no water in Silver Lake Reservoir on September 30, 1926, and none on September 30, 1927; all storage released during summer.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.2	20	0.1	28	28	28	113	134	110	19	89
2	.1	.1	20	.1	28	28	28	121	135	104	25	48
3	.1	.1	21	.2	28	28	28	151	148	102	38	42
4	.1	.1	21	.1	28	28	28	176	175	98	41	42
5	.1	.2	21	15	28	28	28	196	206	94	40	48
6	.1	1.0	21	30	28	28	28	206	230	88	42	47
7	.1	1.8	21	30	28	28	28	181	241	.6	43	51
8	.1	1.6	21	30	28	28	28	148	241	2.4	43	48
9	.1	1.2	21	30	28	28	28	128	228	4.8	52	51
10	.1	1.0	20	30	28	28	28	125	241	2.6	60	32
11	.1	1.2	7.5	30	28	28	28	135	246	.8	62	85
12	.1	1.0	.2	29	28	28	28	159	251	.9	62	38
13	.1	2.4	.2	29	28	28	28	207	255	.9	67	38
14	.1	2.2	.1	29	28	28	28	250	258	.9	69	38
15	.1	2.0	.1	29	28	28	28	268	255	.8	73	38
16	.1	2.0	.1	29	28	28	28	281	257	.8	81	35
17	.1	1.8	.1	29	28	28	28	291	251	.6	80	35
18	.8	1.8	.1	29	28	28	28	269	239	.5	51	39
19	.6	2.8	.1	29	28	28	28	242	222	.5	23	28
20	.3	3.3	.1	28	28	28	28	209	207	.5	20	25
21	.2	3.3	.1	28	28	28	28	171	201	.5	22	28
22	.2	4.5	.1	28	28	28	28	141	197	.5	22	21
23	.2	6.5	.1	28	28	28	28	126	198	.2	23	18
24	.2	13	.1	28	28	28	28	134	186	.2	23	17
25	.2	16	.1	28	28	28	37	164	182	.2	26	16
26	.2	16	.1	28	28	28	47	198	170	.2	31	14
27	.6	21	.1	28	28	28	57	192	149	.2	31	14
28	1.0	17	.1	28	28	28	83	166	129	.2	31	15
29	.8	18	.1	28	-----	28	102	144	115	.8	34	12
30	.3	19	.1	28	-----	28	106	130	111	36	35	11
31	.2	-----	.1	28	-----	28	-----	127	-----	35	37	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.0	0.1	0.24	14.8
November	21	.1	5.40	321
December	21	.1	6.99	430
January	30	.1	24.6	1,510
February	28	28	28.0	1,539
March	28	28	28.0	1,720
April	106	28	36.8	2,190
May	291	113	179	11,000
June	258	111	202	12,600
July	110	.3	20.3	1,280
August	81	19	42.3	2,000
September	51	11	30.1	1,700
The year	291	.1	50.3	36,400

SILVER FORK OF SOUTH FORK OF AMERICAN RIVER NEAR KYBURZ, CALIF.

LOCATION.—Water-stage recorder in sec. 34, T. 11 N., R. 15 E., half a mile below China Flat reservoir site, 2 miles above mouth, and 2 miles southeast of Kyburz. Altitude, about 5,000 feet.

RECORDS AVAILABLE.—August, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,060 second-feet May 10 (gage height, 5.05 feet); minimum, 7.5 second-feet October 4.

1924-1927: Maximum discharge, 2,350 second-feet February 6, 1925 (gage height, 5.25 feet); minimum, that of October 4, 1926.

REMARKS.—Records good except those for December 14 to January 2, January 12 and 13, which were estimated. No diversions. Flow is regulated by storage at Twin and Silver Lakes.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	84	57	164	71	92	278	264	696	618	295	96	51
2	52	56	216	74	106	264	321	720	625	262	80	54
3	14	56	196	228	126	247	490	756	671	278	88	56
4	19	56	142	160	123	235	428	820	704	278	92	57
5	95	56	126	126	120	218	396	910	729	272	88	57
6	101	56	118	140	113	221	387	765	774	262	85	58
7	101	57	110	129	110	240	414	611	810	200	87	62
8	100	57	104	128	104	257	391	596	738	192	87	66
9	56	63	95	121	104	235	343	611	647	192	87	47
10	18	63	92	126	102	214	305	663	663	137	100	45
11	72	77	87	126	104	202	284	720	671	191	104	49
12	81	85	68	122	102	204	267	810	696	135	102	50
13	62	47	58	118	98	252	262	1,050	747	132	104	51
14	61	17	48	115	98	339	272	1,180	850	102	104	51
15	26	34	46	120	96	264	314	1,260	801	206	104	52
16	48	52	45	121	110	238	281	1,420	830	174	110	51
17	28	57	44	107	107	221	264	1,200	792	140	107	60
18	26	56	43	110	270	206	305	940	729	137	106	56
19	64	138	42	112	324	204	358	756	655	96	55	61
20	71	79	42	110	286	198	404	663	604	91	43	64
21	69	34	41	106	596	208	490	582	589	88	42	78
22	68	78	41	94	474	252	625	506	596	106	42	84
23	68	108	40	100	324	305	765	549	518	110	42	87
24	72	585	38	104	305	362	950	729	537	106	42	88
25	81	162	85	98	328	404	1,080	765	575	102	43	144
26	87	142	73	98	362	418	1,180	756	562	89	46	146
27	99	129	69	95	343	404	910	688	479	87	46	144
28	85	128	68	101	298	332	801	655	414	84	45	142
29	81	362	68	96	-----	308	890	618	375	81	45	140
30	71	230	67	94	-----	281	783	596	332	85	49	139
31	62	-----	67	94	-----	272	-----	604	-----	126	50	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	101	14	65.9	4,080
November	585	17	106	6,210
December	216	38	82.0	5,040
January	228	71	114	7,010
February	596	92	204	11,300
March	418	198	267	18,400
April	1,180	262	507	30,200
May	1,420	606	780	48,000
June	850	332	644	38,300
July	295	81	159	9,780
August	110	42	74.9	4,610
September	146	45	76.3	4,540
The year	1,420	14	256	196,000

TWIN LAKES OUTLET NEAR KIRKWOOD, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 18, T. 10 N., R. 18 E., 506 feet below main dam and outlet gate of Twin Lakes and 2 miles east of Kirkwood. Altitude, 7,900 feet.

RECORDS AVAILABLE.—September, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 172 second-foot June 13 (gage height, 1.93 feet); minimum, about 0.3 second-foot May 7.

1922-1927: Maximum discharge, that of June 13, 1927; minimum, about 0.2 second-foot during part of each winter from 1922 to 1925.

REMARKS.—Records excellent. No diversions. Flow regulated by gate in dam at Twin Lakes. There was 8,900 acre-feet of water in Twin Lakes on September 30, 1926, and 18,900 acre-feet on September 30, 1927.

Daily and monthly discharge, in second-foot, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	42	0.4	39	0.4	0.6	1.1	0.4	144	44	28	0.4
2	.4	43	.4	15	.4	.6	1.0	.4	148	35	19	.4
3	.4	43	.4	.4	.4	.6	1.0	.8	150	34	13	.4
4	89	42	.4	.4	.4	.6	.8	.8	150	29	9	.4
5	105	42	.4	.4	.4	.6	.8	.5	134	29	9.5	.4
6	105	40	.4	.4	.4	.6	.8	.4	122	28	9.5	.4
7	105	40	.4	.4	.4	.6	.8	.3	92	29	9.5	.4
8	92	49	.4	.4	.4	.6	.7	.4	1.1	32	12	.4
9	.4	53	.4	.4	.4	.6	.6	.5	.5	83	14	.4
10	29	58	.4	.4	.4	.6	.5	.6	1.1	84	14	.4
11	74	60	.4	.4	.4	.6	.4	.7	1.1	34	14	.4
12	63	60	.4	.4	.4	.4	.4	.8	21	34	14	.4
13	54	26	.4	.4	.4	.4	.4	.7	171	15	13	.4
14	52	18	.4	.4	.4	.4	.4	1.0	169	86	13	.4
15	49	30	.4	.4	.4	.4	.4	1.0	165	119	9.5	.4
16	19	36	.4	.4	.4	.4	.4	.8	164	77	8	2.3
17	11	40	.4	.4	.4	.4	.4	.7	160	66	7.5	1.3
18	44	40	.4	.4	.4	.4	.4	.6	157	43	7.5	3.3
19	57	40	.4	.4	.4	.4	.4	.5	155	26	7.5	8
20	55	14	.4	.4	.4	.4	.4	.5	153	27	7.5	15
21	53	.4	.4	.4	.4	.4	.4	.5	153	38	7.5	24
22	52	.4	.4	.4	.4	.4	.4	.88	102	48	7.5	29
23	53	.6	.4	.4	.4	.4	.4	.5	150	119	48	7
24	60	.6	20	.4	.4	.6	.6	150	146	46	6.5	56
25	65	.4	50	.4	.4	.7	.8	150	171	38	3.7	84
26	72	.4	39	.4	.4	.5	.6	150	171	34	1.3	84
27	77	.4	39	.4	.4	.7	.4	150	171	34	.7	84
28	71	12	39	.4	.4	1.0	.4	152	167	34	.7	84
29	66	13	39	.4		1.0	.4	153	139	28	.6	83
30	58	.4	39	.4		1.0	.4	152	108	30	.5	78
31	50		39	.4		1.1		142		30	.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	105	0.4	54.2	3,330
November	60	.4	28.2	1,692
December	50	.4	10.1	671
January	39	.4	2.12	130
February	.4	.4	.40	22.3
March	1.1	.4	.58	35.7
April	1.1	.4	.57	35.9
May	153	.3	46.8	2,829
June	171	.5	123	7,320
July	119	15	40.7	2,506
August	28	.4	8.88	546
September	84	.4	22.6	1,340
The year	171	.3	28.3	20,400

Combined daily and monthly discharge, in second-feet, of Twin Lakes outlet and Twin Lakes spillway near Kirkwood, Calif., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Avg.	Sept.
1	0.4	42	0.4	39	0.4	0.4	1.1	0.4	144	44	28	0.4
2	.4	43	.4	15	.4	.8	1.0	.4	148	39	19	.4
3	.4	44	.4	.4	.4	.6	1.0	.8	150	71	18	.4
4	89	42	.4	.4	.4	.6	.8	.8	150	89	9	.4
5	105	42	.4	.4	.4	.6	.8	.5	134	98	9.5	.4
6	105	40	.4	.4	.4	.6	.8	.4	122	106	9.5	.4
7	105	40	.4	.4	.4	.6	.8	.3	92	105	9.5	.4
8	92	49	.4	.4	.4	.6	.7	.4	1.1	103	12	.4
9	.4	53	.4	.4	.4	.6	.5	.5	.5	102	14	.4
10	29	58	.4	.4	.4	.6	.6	.6	1.1	103	14	.4
11	74	60	.4	.4	.4	.6	.4	.7	1.1	103	14	.4
12	63	60	.4	.4	.4	.4	.4	.8	.21	68	14	.4
13	54	26	.4	.4	.4	.4	.4	.7	199	15	13	.4
14	52	18	.4	.4	.4	.4	.4	1.0	300	86	13	.4
15	49	30	.4	.4	.4	.4	.4	1.0	263	119	9.5	.4
16	19	36	.4	.4	.4	.4	.4	.8	262	77	8	2.3
17	11	40	.4	.4	.4	.4	.4	.7	262	66	7.5	1.3
18	44	40	.4	.4	.4	.4	.4	.6	262	43	7.5	3.8
19	57	40	.4	.4	.4	.4	.4	.3	241	26	7.5	8
20	55	14	.4	.4	.4	.4	.4	.4	209	27	7.5	15
21	53	.4	.4	.4	.4	.4	.4	.7	177	38	7.5	24
22	52	.4	.4	.4	.4	.4	.4	.8	124	48	7.5	26
23	53	.6	.4	.4	.4	.4	.5	159	120	48	7	33
24	46	.6	29	.4	.4	.6	.6	156	196	46	6.5	39
25	65	.4	50	.4	.4	.7	.8	150	238	38	3.7	84
26	72	.4	39	.4	.4	.5	.6	150	210	34	1.3	84
27	77	.4	39	.4	.4	.7	.4	190	178	34	.7	84
28	71	12	39	.4	.4	1.0	.4	142	168	24	.7	84
29	66	13	39	.4		1.0	.4	153	139	28	.6	84
30	58	.4	39	.4		1.0	.4	152	103	30	.5	78
31	50		39	.4		1.1		142		30	.4	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	105	0.4	54.2	3,330
November	60	.4	28.2	1,680
December	50	.4	10.1	621
January	39	.4	2.12	180
February	.4	.4	.40	22.2
March	1.1	.4	.58	35.7
April	1.1	.4	.57	33.9
May	153	.3	46.8	2,880
June	300	.5	154	9,160
July	119	15	61.2	3,760
August	28	.4	8.88	546
September	84	.4	22.6	1,340
The year	300	.3	32.5	23,500

SURFACE WATER SUPPLY, 1927, PART XI

TWIN LAKES SPILLWAY NEAR KIRKWOOD, CALIF.

LOCATION.—Staff gage in SE. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 22, T. 10 N., R. 17 E., 300 feet below Twin Lakes Reservoir auxiliary dam, 1 mile southwest of Twin Lakes Reservoir main dam, and half a mile southeast of Kirkwood.

RECORDS AVAILABLE.—June, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 131 second-feet June 14 (gage height 2.20 feet); no flow most of year.

1925-1927: Maximum discharge, that of June 14, 1927; no flow most of each year.

REMARKS.—Records good.

Daily and monthly discharge, in second-feet, 1927

Day	June	July	Day	June	July	Day	June	July
1.....	0	0	11.....	0	69	21.....	24	0
2.....	0	3.8	12.....	0	34	22.....	22	0
3.....	0	37	13.....	28	0	23.....	1.0	0
4.....	0	60	14.....	131	0	24.....	50	0
5.....	0	69	15.....	98	0	25.....	67	0
6.....	0	78	16.....	98	0	26.....	39	0
7.....	0	76	17.....	102	0	27.....	7	0
8.....	0	71	18.....	105	0	28.....	.5	0
9.....	0	69	19.....	86	0	29.....	0	0
10.....	0	69	20.....	56	0	30.....	.2	0
						31.....		0

Month	Maximum	Minimum	Mean	Run-off in acre-feet
June.....	131	0	30.5	1,810
July.....	78	0	20.5	1,260
The year.....	131	0	4.25	3,070

NOTE.—No flow during year ending Sept. 30, 1927, except June 13 to July 12.

EL DORADO CANAL NEAR KYBURZ, CALIF.

LOCATION.—Water-stage recorder in sec. 29, T. 11 N., R. 15 E., 400 feet below intake and 2 miles west of Kyburz.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—1922-1927: Maximum mean daily discharge, 157 second-feet June 16 and July 2, 1926; canal dry at times.

REMARKS.—Records excellent except those for December 13-16 and 22-31, which were estimated. This canal diverts from left bank of South Fork of American River 2 miles below Kyburz. The water is divided at the forebay, 20 miles below intake. Not more than 40 second-feet is sold to the El Dorado Irrigation District from May 24 to September 24 and not more than 7 second-feet during remainder of year. This water is used for irrigation and public use at Placerville. The rest of the water is used for power by the Western States Gas & Electric Co. and returned to the river in sec. 22, T. 11 N., R. 12 E.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	88	58	84	84	86	88	94	106	131.	147	150	142
2	40	58	94	85	80	87	94	106	131	147	147	142
3	8	57	94	80	76	87	94	106	130	147	150	142
4	18	57	96	80	78	87	93	106	130	147	150	141
5	86	56	96	80	74	87	94	106	130	147	150	144
6	105	56	86	82	83	87	94	105	130	147	149	144
7	104	56	75	85	88	87	94	106	133	147	149	148
8	104	56	76	86	88	87	94	105	134	147	148	149
9	61	61	76	80	88	87	94	106	135	147	146	149
10	27	62	84	80	88	86	94	108	134	147	151	149
11	89	76	88	85	88	86	94	108	134	147	150	149
12	98	94	88	81	88	86	94	71	135	146	149	150
13	75	66	88	78	88	87	94	113	135	146	149	150
14	70	31	82	78	88	87	94	113	134	147	150	148
15	68	40	78	78	88	86	94	118	134	147	149	148
16	60	66	77	78	88	86	93	121	137	147	149	145
17	39	72	76	78	88	86	93	125	140	147	150	146
18	31	74	76	78	88	86	96	126	142	147	148	144
19	71	103	76	78	87	86	102	126	143	147	132	146
20	78	97	76	78	88	86	102	125	144	148	141	146
21	77	57	76	77	86	86	102	128	144	150	141	148
22	74	70	76	86	86	87	101	87	143	150	141	148
23	73	65	76	88	87	87	100	130	145	150	141	148
24	76	65	75	87	87	90	101	131	147	150	141	148
25	85	65	80	87	88	94	101	130	146	150	141	149
26	90	78	85	87	88	94	100	130	146	150	142	149
27	94	84	80	86	88	94	104	130	147	150	142	149
28	90	86	78	86	87	94	106	130	147	150	141	149
29	84	74	78	86	86	94	106	131	147	148	141	150
30	74	49	77	86	86	93	106	131	147	144	142	149
31	66	76	76	86	86	94	106	131	147	151	141	149

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	105	8	71.1	4,370
November	103	31	66.3	3,950
December	96	75	81.4	5,010
January	88	77	82.4	5,070
February	88	74	85.9	4,770
March	94	86	88.4	5,440
April	106	93	97.4	5,800
May	131	71	116	7,130
June	147	130	138	8,210
July	151	144	148	9,100
August	151	132	146	8,980
September	150	141	147	8,760
The year	151	8	106	76,600

ALDER CREEK NEAR WHITEHALL, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 36, T. 11 N., R. 14 E., three-fourths mile above mouth and 2 miles southeast of Whitehall.

DRAINAGE AREA.—22.8 square miles.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 428 second-feet February 21 (gage height, 3.38 feet); minimum, 0.3 second-foot October 1-9 and 18-29. 1922-1927: Maximum discharge, 715 second-feet February 6, 1925 (gage height, 4.95 feet); minimum, 0.1 second-foot August 28 to September 2, 1924, and September 10-14, 1926.

REMARKS.—Records excellent except those for December 22-31, March 1-15, and May 26-29, which were estimated. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.4	58	12	21	153	124	193	49	8.5	2.4	0.5
2	.3	.4	68	14	27	151	183	182	47	7.5	2.4	.5
3	.3	.4	80	44	50	144	271	175	46	7	2.4	.5
4	.3	.4	61	40	61	137	245	171	46	6.5	2.4	.5
5	.3	.4	46	37	53	130	216	169	46	6.5	2.2	.5
6	.3	.4	41	37	45	122	202	163	47	6	2.0	.5
7	.3	.4	38	34	40	116	183	142	53	5.5	1.9	.4
8	.3	.4	32	33	37	109	180	130	53	5.5	1.9	.4
9	.3	.4	28	32	33	102	160	120	45	5.5	1.7	.5
10	1.0	.4	25	36	32	95	142	116	43	5	1.3	.5
11	.8	.5	24	36	30	88	126	114	41	4.8	1.3	.5
12	.5	2.6	28	33	29	82	116	120	40	4.5	1.1	.5
13	.4	3.3	20	32	27	114	110	136	36	4.2	1.1	.5
14	.4	1.9	17	32	27	140	110	152	34	3.9	1.0	.5
15	.4	1.3	17	33	26	133	116	154	31	3.6	1.0	.5
16	.4	1.0	16	34	38	126	112	154	29	3.3	1.0	.5
17	.4	1.0	15	32	40	118	108	142	26	3.3	1.0	.6
18	.3	1.0	14	30	175	106	112	124	24	3.0	.9	.5
19	.3	2.6	13	29	163	94	116	114	21	2.8	.9	.5
20	.3	7.5	12	29	165	88	122	102	21	2.8	.8	.6
21	.3	3.3	12	26	330	88	136	84	17	2.8	.8	.5
22	.3	4.2	12	24	295	94	152	73	15	2.8	.7	.5
23	.3	7.5	12	25	228	106	173	67	14	2.6	.7	.5
24	.3	88	12	24	198	124	200	65	13	2.6	.7	.5
25	.3	51	11	23	186	134	228	65	12	2.6	.7	.5
26	.3	65	11	22	191	138	250	62	12	2.4	.6	.5
27	.3	79	11	21	182	133	250	59	11	2.4	.6	.5
28	.3	52	11	27	165	128	230	56	10	2.2	.6	.5
29	.3	108	11	24	-----	126	228	53	10	2.0	.5	.5
30	.4	79	11	21	-----	118	211	50	9	1.9	.5	.5
31	.4	-----	11	22	-----	114	-----	49	-----	1.9	.5	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.0	0.3	0.37	22.8
November	108	.4	13.8	1,120
December	80	11	24.0	1,530
January	44	12	22.0	1,780
February	330	21	108	5,720
March	158	82	118	7,360
April	271	108	171	10,200
May	198	49	115	7,070
June	53	9	30.0	1,760
July	8.5	1.9	4.06	350
August	2.4	.5	1.21	74.4
September	.5	.4	.49	23.2
The year	330	.3	50.8	36,800

FLUM CREEK NEAR RIVERTON, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 33, T. 11 N., R. 14 E., $1\frac{1}{2}$ miles above mouth and 4 miles southeast of Riverton. Altitude, 4,100 feet.

DRAINAGE AREA.—7.0 square miles.

RECORDS AVAILABLE.—November, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 334 second-feet April 3 (gauge height, 3.15 feet); minimum, 0.2 second-foot several days in October, November, August, and September.

1922-1927: Maximum discharge, 500 second-feet February 6, 1925 (gauge height, 3.70 feet); minimum, 0.1 second-foot July 3 to August 14, 1924, September 11, 13, and 14, 1925, July 28 to August 5, August 24, and 25, 1926.

REMARKS.—Records excellent except those for December 27 to January 1, which were estimated because of ice. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	0.2	0.2	11	2.0	13	32	80	16	3.7	0.8	0.5	0.3
2.	.8	.2	10	8	20	29	124	15	3.5	.8	.5	.3
3.	.2	.2	10	21	74	25	222	14	3.2	.8	.4	.2
4.	.2	.2	8.5	16	68	23	114	13	2.9	.7	.4	.2
5.	.2	.2	7	13	40	20	80	12	2.8	.7	.4	.2
6.	.2	.2	7	14	30	19	63	12	2.6	.6	.3	.2
7.	.2	.2	6.5	13	26	18	52	11	2.9	.6	.3	.2
8.	.2	.2	5.5	12	21	19	45	11	3.0	.6	.3	.2
9.	.2	.2	4.9	11	19	19	40	10	2.4	.6	.3	.2
10.	.4	.2	4.1	19	17	18	35	9.5	2.2	.5	.3	.2
11.	.6	.3	3.5	23	15	17	32	9	2.0	.5	.3	.2
12.	.8	2.2	3.5	17	13	16	392	8	1.9	.4	.2	.3
13.	.8	3.5	3.0	14	12	28	28	8	1.7	.4	.2	.3
14.	.8	1.6	2.9	12	16	55	26	7.5	1.6	.4	.2	.3
15.	.8	.9	2.6	12	39	40	27	7	1.4	.4	.2	.3
16.	.8	.8	2.3	15	89	35	28	6.5	1.3	.4	.2	.3
17.	.2	.6	2.4	13	70	33	26	6	1.2	.4	.2	.3
18.	.2	.7	2.4	12	188	30	24	6	1.1	.4	.2	.3
19.	.3	2.8	2.2	11	85	26	23	5.5	1.1	.4	.2	.3
20.	.3	2.8	2.0	13	78	23	22	5.5	1.1	.4	.2	.3
21.	.3	1.5	2.3	12	173	21	21	5	1.0	.4	.2	.3
22.	.3	2.8	2.3	11	114	20	21	4.9	.9	.3	.2	.2
23.	.3	2.8	2.0	10	75	20	22	4.5	.9	.3	.2	.2
24.	.3	26	2.0	9	59	20	24	3.9	.9	.3	.2	.3
25.	.3	18	2.0	8	52	20	26	3.5	.9	.3	.2	.3
26.	.2	41	1.9	8	50	20	25	3.5	.9	.3	.2	.3
27.	.2	54	1.8	7	44	19	24	4.9	.9	.3	.2	.3
28.	.2	26	1.8	26	38	19	24	6	.9	.4	.2	.3
29.	.2	35	1.8	20	-----	21	20	4.7	.9	.4	.2	.3
30.	.2	17	1.8	17	-----	20	17	4.3	.8	.4	.3	.3
31.	.2	-----	1.8	14	-----	25	-----	3.9	-----	.4	.3	-----
Month					Maximum	Minimum	Mean	Run-off in acre-feet				
October					0.6	0.2	0.26	16.0				
November					54	.2	8.08	481				
December					11	1.8	3.96	243				
January					26	2.0	13.3	818				
February					188	12	54.9	3,050				
March					55	16	24.2	1,490				
April					222	17	44.7	2,660				
May					16	3.5	7.79	479				
June					3.7	.8	1.75	164				
July					.8	.3	.47	28.9				
August					.5	.2	.26	16.0				
September					.3	.2	.26	15.5				
The year					222	.2	13.0	9,400				

SILVER CREEK AT UNION VALLEY, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ 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 4,600 feet.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,350 second-feet May 16 (gage height, 7.03 feet); minimum, about 3.5 second-feet October 1.

1924-1927: Maximum discharge, 5,770 second-feet February 6, 1925 (gage height, 11.0 feet); minimum, 2.5 second-feet August 24-26 and September 9-16, 1926.

REMARKS.—Records good except those for October 1-7, December 22 to January 2, February 11-13, and September 26-30, which were estimated. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2.5	5.5	277	55	92	490	446	928	560	252	23	8
2.....	6	5.5	368	76	113	381	680	882	642	224	21	8
3.....	5.5	5.5	311	950	176	356	320	995	700	217	20	8.5
4.....	5.5	5.5	202	446	171	390	560	1,020	760	190	18	9.5
5.....	5	5.5	169	245	139	313	530	1,090	890	171	17	9
6.....	5	5.5	160	202	128	320	516	995	950	167	17	8.5
7.....	4.5	5.5	131	182	122	348	516	660	950	140	16	8.5
8.....	4.5	5.5	119	173	109	394	474	575	820	130	14	8.5
9.....	4.8	5.5	106	149	112	340	420	608	840	130	14	8.5
10.....	17	5.5	103	145	106	294	381	700	905	118	14	8
11.....	18	8	106	141	96	275	343	820	800	120	12	8
12.....	12	33	113	125	93	289	333	995	972	109	12	7.5
13.....	7.5	30	94	122	90	514	343	1,300	928	102	11	7
14.....	7	19	83	116	94	625	381	1,490	860	101	10	7
15.....	6.5	14	84	126	110	420	446	1,390	832	84	10	7
16.....	5.5	16	81	128	156	348	394	1,490	800	73	9.5	6.5
17.....	5.5	18	81	106	161	313	368	1,240	720	69	9	6.5
18.....	5.5	25	81	115	605	289	433	972	608	64	9	6.5
19.....	5.5	151	75	105	608	270	502	840	530	59	8.5	6.5
20.....	5	169	74	102	740	268	560	625	488	53	8.5	6
21.....	5	89	70	98	1,930	304	690	474	488	51	8	6
22.....	5	188	67	85	1,140	394	840	433	474	47	7.5	5.5
23.....	5	258	64	85	642	474	950	474	474	43	7	5.5
24.....	5	740	61	87	516	545	1,120	740	488	43	7	5.5
25.....	5	263	60	82	545	590	1,326	882	400	40	7	5.5
26.....	5	229	59	83	625	575	1,390	882	360	37	8	5.5
27.....	5	252	58	82	575	516	1,300	720	277	35	8.5	5.5
28.....	5	192	57	126	460	433	1,060	516	247	32	8	5.5
29.....	5	680	56	113	-----	420	1,100	474	221	38	8	5.5
30.....	5.5	516	55	101	-----	381	1,120	474	249	25	8	5.5
31.....	5.5	-----	56	94	-----	356	-----	488	-----	24	8	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	18	3.5	6.33	389
November.....	740	5.5	131	7,800
December.....	368	55	112	6,890
January.....	950	55	156	9,590
February.....	1,930	90	373	20,700
March.....	625	268	300	24,060
April.....	1,300	333	676	40,300
May.....	1,490	433	846	52,000
June.....	972	221	644	38,300
July.....	252	7	97.0	5,960
August.....	23	11.6	713	713
September.....	9.5	5.5	6.97	416
The year.....	1,930	3.5	286	207,000

SILVER CREEK NEAR PLACERVILLE, CALIF.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 13, T. 11 N., R. 12 E., one-fourth mile above mouth and 12 miles northeast of Placerville.

RECORDS AVAILABLE.—December, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,260 second-feet February 21 (gage height, 9.17 feet); minimum, about 20 second-feet October 1.

1921-1927: Maximum discharge, 7,330 second-feet February 6, 1925 (gage height, 12.0 feet); minimum, 10 second-feet September 9, 1924.

REMARKS.—Records good except those for October 1-8, 13, 18-22, January 12-19, April 4-20, and June 29 to July 19, which were estimated. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	20	25	662	141	314	1,040	1,160	1,740	1,000	495	95	40
2.....	32	25	662	186	397	960	1,680	1,560	1,000	490	92	40
3.....	30	25	662	1,160	710	885	2,410	1,740	1,200	470	86	40
4.....	23	25	464	920	798	850	1,850	1,740	1,200	435	85	47
5.....	27	25	372	582	630	780	1,150	1,890	1,400	400	84	43
6.....	26	25	346	522	567	762	1,050	1,890	1,500	380	81	41
7.....	25	25	314	410	507	798	950	1,350	1,560	370	76	40
8.....	24	25	272	372	450	885	860	1,120	1,450	350	74	39
9.....	23	25	227	360	410	832	800	1,160	1,250	335	72	39
10.....	49	25	218	384	384	745	770	1,250	1,500	325	67	39
11.....	65	28	218	384	360	710	750	1,350	1,350	315	65	39
12.....	36	105	227	350	336	710	750	1,560	1,560	300	62	39
13.....	32	120	191	340	325	1,060	790	2,020	1,560	280	61	39
14.....	27	67	163	330	348	1,450	830	2,250	1,450	260	59	39
15.....	28	48	166	340	450	1,040	950	2,250	1,500	245	59	39
16.....	28	42	166	350	678	920	850	2,250	1,400	230	58	39
17.....	28	46	169	340	780	850	760	2,090	1,250	220	55	38
18.....	28	54	166	330	2,080	798	850	1,680	1,120	210	52	38
19.....	28	180	152	320	1,560	710	960	1,500	1,000	190	51	36
20.....	27	397	147	314	1,810	694	1,100	1,160	885	178	50	36
21.....	27	210	164	303	3,860	694	1,250	920	860	178	49	35
22.....	27	292	146	245	2,830	798	1,450	850	868	170	48	35
23.....	27	522	153	254	1,810	920	1,680	798	815	157	47	34
24.....	26	1,120	118	263	1,450	1,000	1,880	1,120	885	152	47	34
25.....	26	745	154	245	1,350	1,080	2,090	1,400	850	150	46	34
26.....	26	678	140	254	1,450	1,120	2,250	1,450	745	139	46	34
27.....	26	885	125	236	1,350	1,080	2,330	1,350	614	130	45	34
28.....	25	646	130	464	1,160	920	1,880	960	522	124	44	34
29.....	25	1,350	135	423	-----	920	1,950	850	450	113	43	34
30.....	25	1,120	135	348	-----	850	1,950	868	480	105	43	34
31.....	25	-----	138	348	-----	920	-----	832	-----	102	41	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	65	20	28.9	1,780
November.....	1,350	25	267	17,700
December.....	662	118	242	14,900
January.....	1,160	141	381	23,400
February.....	3,860	314	1,040	57,800
March.....	1,450	694	896	55,100
April.....	2,410	750	1,330	79,100
May.....	2,250	798	1,450	89,200
June.....	1,560	450	1,110	66,000
July.....	495	102	258	16,900
August.....	95	41	60.7	3,720
September.....	47	34	37.7	2,240
The year.....	3,860	20	589	427,000

SURFACE WATER SUPPLY, 1927, PART XI

SOUTH FORK OF SILVER CREEK AT ICE HOUSE, CALIF.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 1, T. 11 N., R. 14 E., 8 miles northeast of Riverton and 1 mile north of Ice House. Altitude, about 5,300 feet.

RECORDS AVAILABLE.—July to October, 1922; October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 800 second-feet May 16 (gage height, 3.92 feet); minimum, 0.6 second-foot October 1 and 5-7.

1924-1927: Maximum discharge, that of May 16, 1927; minimum, 0.5 second-foot several days during August and September, 1926.

REMARKS.—Records good except those for December 13 to February 16, which were estimated because of ice. No diversions.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1.0	92	13	20	93	84	323	253	152	25	2.7
2	1.0	1.0	84	13	21	85	97	295	287	152	21	2.7
3	.9	1.6	77	189	25	80	111	344	386	143	20	2.7
4	.8	1.0	56	144	24	72	93	365	362	132	20	3.3
5	.6	1.0	47	77	24	67	109	491	426	119	20	3.3
6	.6	1.0	46	49	24	64	97	369	453	118	18	3.0
7	.6	1.0	47	49	24	67	96	253	490	111	17	3.0
8	.7	1.0	45	42	29	72	92	213	423	104	15	3.0
9	.7	1.0	34	36	20	67	85	224	412	98	14	2.7
10	1.1	1.0	32	35	17	65	82	258	436	95	12	2.4
11	1.3	1.2	26	28	17	59	83	287	433	96	11	2.1
12	1.4	3.3	26	35	18	59	81	371	516	92	9.5	1.8
13	1.2	2.7	28	35	19	84	70	519	498	89	9	1.5
14	1.5	2.4	20	36	20	92	72	582	510	90	9	1.4
15	1.8	1.8	26	38	21	81	82	587	490	80	8	1.3
16	1.5	2.7	19	68	21	70	78	688	456	67	7	1.3
17	1.6	3.2	18	33	22	65	74	584	496	64	6	1.2
18	1.4	4.2	18	32	23	69	68	478	360	61	6	1.1
19	1.4	23	17	31	45	58	98	398	306	58	6.5	1.1
20	1.4	65	16	28	156	56	115	287	276	56	6	1.1
21	1.3	42	15	26	398	59	147	294	269	51	5.5	1.0
22	1.2	47	15	27	247	71	194	198	263	47	5	1.0
23	1.2	85	16	22	148	85	246	241	258	47	4.5	1.0
24	1.1	178	15	22	113	102	298	309	269	48	3.9	1.0
25	1.2	106	14	22	108	119	360	396	286	46	3.6	1.0
26	1.1	66	14	24	116	129	448	418	297	41	3.3	1.0
27	1.1	51	14	24	116	126	429	365	160	40	2.7	1.0
28	1.1	63	14	21	104	102	344	242	163	34	2.7	1.0
29	1.1	159	13	29	-----	91	384	213	199	30	3.0	1.0
30	1.1	166	13	20	-----	82	380	220	141	28	2.7	1.0
31	1.0	-----	18	29	-----	74	-----	227	-----	28	2.7	-----
Month	Maximum					Minimum			Mean		Run-off in acre-feet	
October	1.8					0.6			1.13		69.5	
November	178					1.0			35.7		2,180	
December	92					13			29.1		1,799	
January	189					13			39.4		2,420	
February	398					17			70.4		3,910	
March	130					56			79.3		4,860	
April	429					70			165		9,320	
May	638					198			348		21,499	
June	510					132			345		20,500	
July	162					26			77.9		4,790	
August	25					2.7			9.66		594	
September	3.3					1.0			1.76		105	
This year	638					.6			100		72,400	

FINNON RESERVOIR OUTLET NEAR PLACERVILLE, CALIF.

LOCATION.—Staff gage in NW. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 16, T. 11 N., R. 11 E., at weir 400 feet below Finnon Reservoir, 10 miles northeast of Placerville.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 10 $\frac{1}{2}$ second-feet for a few hours November 26–28 and December 24 (gage height, 2.54 feet); water is usually turned out of canal part of each day.

1922–1927: Maximum discharge, 10 $\frac{1}{2}$ second-feet for 3 hours March 21, 1925 (gage height, 2.60 feet); water is usually turned out of canal part of each day.

REMARKS.—Records excellent. Water is diverted into Finnon Reservoir from One Eye Creek through One Eye ditch, and from Slab Creek through Summerfield ditch. Water flows down an unnamed creek to the Western States Gas & Electric Co.'s flume half a mile above power house where it is used to develop power. Flow completely regulated by gates in dam at Finnon Reservoir.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	26	7	5.5	8	4.0	3.0	0	0	3.0
2	4.7	0	0	0	12	0	30	4.0	3.0	0	0	3.0
3	46	0	0	0	37	0	30	4.0	3.0	0	0	3.0
4	0	0	0	0	17	3.5	7	4.0	3.0	0	0	3.0
5	0	0	0	0	9.5	5	3.5	4.0	3.0	0	0	3.0
6	0	0	0	0	16	3.5	6	4.0	3.0	0	0	3.0
7	0	0	0	0	10	3.5	8	4.0	3.0	0	0	3.0
8	0	0	0	0	0	3.5	8	4.0	4.5	0	0	3.0
9	0	0	0	0	7	3.5	8	4.0	4.5	0	0	3.0
10	44	0	0	0	10	3.5	8	4.0	3.0	0	0	3.0
11	0	0	0	0	8	3.5	8	4.0	3.0	0	0	3.0
12	0	0	0	0	7	3.5	8	4.0	3.0	0	0	3.0
13	0	0	0	0	7	7.5	8	3.0	3.0	0	0	3.0
14	0	0	0	0	7	20	8	3.0	3.0	0	0	3.0
15	0	0	0	0	30	9.5	5	3.0	3.0	0	0	3.0
16	14	0	0	0	30	3.5	7	3.0	3.4	0	0	3.0
17	0	0	0	0	24	5	7	3.0	3.4	0	0	1.5
18	0	0	0	0	16	5	7	3.0	3.4	0	0	3.0
19	0	0	0	0	16	5	7	3.0	4.2	0	0	3.0
20	0	0	0	0	18	5	5.5	11	12	0	0	3.0
21	0	0	0	0	16	3.5	5.5	13	22	12	0	3.0
22	0	0	0	0	16	5	5.5	0	22	14	0	30
23	0	0	0	0	12	5	5.5	0	22	12	0	14
24	0	0	26	5	7	6	4.0	0	22	0	0	15
25	0	0	10	6.5	7	6	4.0	0	14	12	0	30
26	0	28	0	7	7	6	4.0	0	0	12	0	30
27	0	28	14	7	7	6	4.0	4.3	0	12	0	30
28	0	25	4.2	13	7	6	4.0	6	0	0	0	15
29	0	0	15	12	-----	7	4.0	6	0	0	0	0
30	0	0	34	7	-----	-----	4.0	4.5	0	0	3.0	0
31	0	-----	34	7	-----	10	-----	3.0	-----	0	3.0	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	46	0	3.51	216
November	28	0	2.53	151
December	34	0	4.43	272
January	26	0	2.02	168
February	37	0	13.1	728
March	20	0	5.37	330
April	30	3.5	7.72	459
May	13	0	3.77	237
June	22	0	5.88	350
July	14	0	2.39	147
August	3.0	0	1.19	11.7
September	30	0	7.65	455
The year	46	0	4.88	3,530

WESTERN STATES GAS & ELECTRIC CO.'S FLUME NEAR CAMINO, CALIF.

LOCATION.—Float gage in NE. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 25, T. 11 N., R. 11 E., 1 mile below diversion dam and 3 miles northwest of Camino.

RECORDS AVAILABLE.—November, 1922, to September, 1927.

EXTREMES.—1922-1927: Maximum mean daily discharge, 118 second-feet July 5-7, 10, 11, 13-15, and 17, 1925.

REMARKS.—Records good. Water is diverted by this flume from South Fork of American River in NE. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 24, T. 11 N., R. 11 E. and is used to develop power in SW. $\frac{1}{4}$ sec. 20, T. 11 N., R. 11 E., just above mouth of Rock Creek where it is returned to river.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	92	82	104	94	106	105	106	109	107	109	105	102
2.....	90	92	106	97	105	105	107	103	107	107	103	99
3.....	61	85	105	109	106	103	108	109	108	108	101	99
4.....	92	84	105	110	107	102	103	109	108	108	99	102
5.....	89	87	106	108	106	103	102	109	108	108	101	105
6.....	91	86	105	105	104	105	104	108	109	108	99	98
7.....	90	74	104	104	104	106	105	107	110	108	101	100
8.....	92	83	104	105	107	105	105	107	111	108	102	104
9.....	91	80	104	105	107	104	106	109	110	108	105	100
10.....	56	87	104	104	108	101	107	108	111	107	105	99
11.....	101	89	106	103	108	102	107	108	111	108	104	100
12.....	94	99	105	102	108	102	107	108	111	108	104	98
13.....	93	104	105	105	107	102	107	108	111	108	104	98
14.....	89	106	105	105	107	107	107	108	111	107	104	102
15.....	92	104	105	102	106	105	107	108	111	108	103	104
16.....	91	103	106	102	104	105	107	108	111	108	104	102
17.....	75	100	105	102	105	105	107	108	110	107	102	102
18.....	77	103	105	106	109	104	107	107	111	108	103	101
19.....	89	107	105	105	103	102	108	107	111	108	101	99
20.....	92	108	105	105	105	102	108	72	111	108	100	99
21.....	90	104	105	105	110	102	107	72	111	108	107	109
22.....	91	107	104	105	98	102	109	107	111	107	108	100
23.....	92	108	106	105	98	104	110	107	111	107	101	100
24.....	81	108	87	104	105	105	109	107	111	107	101	101
25.....	86	32	101	104	104	105	108	108	111	107	100	105
26.....	85	32	106	104	104	105	107	108	111	107	100	110
27.....	88	31	71	105	105	105	107	107	111	107	101	110
28.....	88	32	110	106	105	105	107	107	111	105	100	110
29.....	86	100	104	106	-----	105	109	107	110	105	99	105
30.....	83	105	100	105	-----	105	110	107	110	104	107	105
31.....	76	-----	94	106	-----	105	-----	107	-----	104	100	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	101	56	86.5	5,320
November.....	108	31	87.4	5,200
December.....	110	71	105	6,330
January.....	110	94	104	6,490
February.....	110	98	105	5,830
March.....	107	101	104	6,400
April.....	110	102	107	6,370
May.....	109	72	105	6,490
June.....	111	107	110	6,580
July.....	109	104	107	6,580
August.....	108	98	102	6,270
September.....	110	98	102	6,070
The year.....	111	31	102	73,860

CACHE CREEK BASIN

CLEAR LAKE AT LAKEPORT, CALIF.

LOCATION.—Staff gage at municipal wharf on north side of Third Street at Lakeport, Lake County.

RECORDS AVAILABLE.—February, 1913, to September, 1927.

EXTREMES.—Maximum stage during year, 9.00 feet February 23; minimum, 1.60 feet September 30.

1913-1927: Maximum stage, 11.12 feet January 28, 1914; minimum, —3.50 feet September 24-27, 1920.

REMARKS.—Gage-height record furnished by Yolo Water & Power Co.

Daily gage height, in feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.10	1.95	3.52	4.95	6.75	8.65	7.28	6.95	6.25	5.20	3.90	2.50
2	2.10	1.95	3.70	5.00	6.78	8.55	7.56	6.95	6.22	5.15	3.85	2.45
3	2.10	1.95	4.30	5.05	6.80	8.45	7.50	6.90	6.20	5.10	3.82	2.40
4	2.10	1.95	4.50	5.05	6.98	8.35	7.48	6.90	6.18	5.05	3.75	2.38
5	2.10	1.95	4.60	5.05	7.00	8.25	7.48	6.80	6.15	5.00	3.78	2.35
6	2.10	1.95	4.65	5.05	7.05	8.15	7.45	6.80	6.10	4.98	3.72	2.30
7	2.10	1.95	4.65	5.05	7.08	8.05	7.40	6.90	6.05	4.95	3.70	2.25
8	2.10	1.95	4.68	5.05	7.00	7.90	7.30	6.90	6.05	4.90	3.65	2.20
9	2.10	1.95	4.70	5.05	7.00	7.90	7.25	6.90	6.02	4.88	3.60	2.18
10	2.10	1.95	4.70	5.10	7.00	7.75	7.20	6.90	6.02	4.85	3.55	2.15
11	2.10	1.95	4.75	5.55	7.00	7.75	7.20	6.95	6.00	4.82	3.50	2.10
12	2.08	1.95	4.75	5.70	6.95	7.65	7.20	6.80	5.98	4.78	3.40	2.08
13	2.05	1.95	4.75	5.90	6.90	7.56	7.25	6.82	5.95	4.75	3.38	2.05
14	2.05	1.92	4.75	6.00	6.80	7.50	7.25	6.80	5.92	4.65	3.28	2.02
15	2.02	1.92	4.75	6.20	6.80	7.45	7.20	6.82	5.90	4.62	3.25	2.00
16	2.02	1.90	4.80	6.30	7.30	7.40	7.15	6.88	5.88	4.60	3.20	2.00
17	2.00	1.90	4.80	6.35	7.56	7.35	7.20	6.70	5.80	4.55	3.18	2.00
18	2.00	1.90	4.80	6.40	7.95	7.30	7.20	6.65	5.75	4.50	3.15	1.98
19	2.00	1.92	4.80	6.42	8.20	7.20	7.15	6.60	5.72	4.45	3.10	1.95
20	2.00	1.95	4.85	6.42	8.40	7.15	7.00	6.59	5.68	4.40	3.05	1.92
21	2.00	2.00	4.85	6.45	8.75	7.10	7.00	6.50	5.65	4.38	3.05	1.90
22	2.00	2.10	4.90	6.48	8.90	7.05	7.00	6.50	5.65	4.35	3.00	1.88
23	2.00	2.15	4.90	6.50	9.00	7.00	7.00	6.50	5.62	4.30	2.95	1.85
24	2.00	2.40	4.90	6.52	8.93	7.00	7.05	6.50	5.62	4.25	2.90	1.80
25	2.00	2.55	4.90	6.55	8.90	7.00	7.10	6.48	5.50	4.20	2.85	1.78
26	2.00	2.65	4.90	6.70	8.85	7.00	7.10	6.40	5.45	4.18	2.82	1.75
27	1.98	2.85	4.90	6.65	8.80	7.05	7.08	6.40	5.40	4.12	2.80	1.70
28	1.98	3.20	4.90	6.65	8.70	7.20	7.08	6.38	5.35	4.05	2.75	1.65
29	1.95	3.35	4.90	6.65	-----	7.20	7.05	6.35	5.28	4.00	2.65	1.62
30	1.95	3.45	4.95	6.68	-----	7.25	7.00	6.30	5.25	3.98	2.60	1.60
31	1.95	-----	4.95	6.70	-----	7.28	-----	6.28	-----	3.95	2.55	-----

CACHER CREEK AT YOLO, CALIF.

LOCATION.—Staff gage and water-stage recorder 800 feet above highway bridge, 1,000 feet above Southern Pacific Co.'s railroad bridge and half a mile south of Yolo, Yolo County.

DRAINAGE AREA.—1,230 square miles.

RECORDS AVAILABLE.—January, 1903, to September, 1927.

EXTREMES.—Maximum discharge during year, 17,200 second-feet February 18 (gage height, 22.8 feet); no flow for several months.
1903-1927: Maximum discharge, 21,100 second-feet February 2, 1915 (gage height, 27.8 feet); no flow for periods in nearly every year.

REMARKS.—Records good. Numerous ditches divert water for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1.....	0	730	80	2,190	4,010	1,910	615	0
2.....	0	502	80	2,470	3,700	8,900	254	0
3.....	0	6,630	86	4,700	3,700	4,100	156	0
4.....	0	2,620	182	5,500	3,620	4,220	102	0
5.....	0	1,360	162	3,400	3,480	3,820	63	0
6.....	0	850	150	3,400	3,400	2,660	49	0
7.....	0	620	183	3,780	3,260	2,500	83	0
8.....	0	460	180	3,260	3,260	2,340	91	28
9.....	0	370	175	3,260	3,180	3,180	70	14
10.....	0	330	170	3,100	3,100	3,020	45	2.6
11.....	0	200	400	3,030	3,030	1,890	18	.7
12.....	0	260	1,480	2,960	2,960	1,380	9.5	0
13.....	0	200	910	2,960	2,960	980	29	0
14.....	0	185	510	3,100	3,180	615	67	0
15.....	0	172	438	6,180	3,100	490	87	0
16.....	0	160	438	10,300	2,960	418	91	0
17.....	0	145	1,840	10,300	2,960	395	91	22
18.....	0	135	1,770	10,000	2,960	350	91	10
19.....	0	135	1,660	10,300	2,820	720	85	7.5
20.....	0	110	2,770	7,800	2,750	1,680	69	4.2
21.....	0	110	2,190	11,100	1,300	1,060	41	1.0
22.....	0	110	1,630	9,410	1,060	372	26	0
23.....	0	100	910	6,600	870	296	30	0
24.....	395	100	592	5,670	650	204	18	0
25.....	1,240	90	485	4,900	525	244	3.0	0
26.....	1,500	90	415	4,490	478	201	0	0
27.....	2,190	90	1,500	4,380	455	177	0	0
28.....	1,800	90	3,070	4,170	432	168	0	0
29.....	3,070	90	3,370	-----	588	440	0	0
30.....	1,430	80	2,840	-----	265	990	0	0
31.....	-----	80	1,980	-----	305	-----	0	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November.....	3,070	0	378	22,500
December.....	6,630	80	561	34,500
January.....	3,370	80	1,050	64,600
February.....	13,000	2,190	5,560	300,000
March.....	4,010	365	2,300	141,000
April.....	8,900	168	1,790	107,000
May.....	615	0	73.9	4,540
June.....	28	0	3.0	179
The year.....	13,000	0	943	683,000

NOTE.—No flow in months omitted.

PUTAH CREEK BASIN

PUTAH CREEK AT WINTERS, CALIF.

LOCATION.—Staff gage and water-stage recorder just below Southern Pacific Co.'s railroad bridge at Winters, Yolo County, in Rio de los Putos grant.

DRAINAGE AREA.—654 square miles.

RECORDS AVAILABLE.—September, 1905, to September, 1927.

EXTREMES.—Maximum discharge during year, about 31,300 second-feet April 2 (gage height, 29.2 feet); no flow October 1 to November 14 and September 7-30.

1905-1927: Maximum discharge, about 60,000 second-feet December 31, 1913 (gage height, 39.0 feet); no flow during parts of 1912-1914 and 1918-1927.

REMARKS.—Records good except those for August 6, 7, 9-16, 18-28, and August 30 to September 6, which were estimated. There are several small diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1,450	186	990	1,200	11,800	239	77	23	3.0	0.6
2	0	1,650	194	1,150	1,080	15,200	231	73	20	2.8	.5
3	0	5,150	470	6,860	1,680	4,160	223	73	16	2.8	.4
4	0	1,890	298	3,960	965	2,280	218	72	18	2.8	.3
5	0	1,720	242	2,020	980	1,700	216	70	16	2.8	.2
6	0	855	218	2,450	780	1,880	197	72	15	2.6	.1
7	0	675	360	2,300	732	1,140	191	69	15	2.4	0
8	0	670	328	1,600	665	1,080	188	69	14	2.2	0
9	0	470	270	1,290	732	955	186	68	15	2.2	0
10	0	378	218	1,080	732	905	181	66	15	2.1	0
11	0	860	4,180	905	642	1,060	175	62	22	2.2	0
12	0	328	1,150	805	598	755	170	60	11	2.0	0
13	0	298	765	732	598	665	168	56	8	2.0	0
14	0	270	590	1,770	930	620	160	52	10	1.9	0
15	3.0	242	675	6,690	780	575	147	48	11	1.9	0
16	3.0	230	855	13,900	665	555	132	44	8	1.8	0
17	2.0	218	1,210	7,500	665	495	123	42	8	1.8	0
18	3.0	206	855	18,500	575	455	120	40	8	1.8	0
19	5.5	194	675	6,130	535	415	117	37	9	1.7	0
20	8	183	2,370	5,150	495	435	112	35	8	1.6	0
21	14	172	1,150	15,100	475	380	108	34	8	1.6	0
22	8	172	1,040	5,580	455	362	99	33	8	1.5	0
23	905	172	810	2,950	485	302	91	32	8	1.4	0
24	3,280	193	590	2,790	415	345	83	30	7	1.3	0
25	2,370	163	510	2,160	398	330	76	29	5.5	1.2	0
26	4,350	154	490	1,890	380	285	62	26	4.0	1.1	0
27	7,280	154	810	1,470	380	276	61	21	3.0	1.0	0
28	2,000	150	3,750	1,350	345	264	50	19	3.0	.9	0
29	4,950	145	2,000	-----	345	255	90	17	3.0	.9	0
30	1,720	145	1,040	-----	362	247	82	16	3.0	.8	0
31	-----	138	855	-----	415	-----	79	-----	3.0	.7	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November	8,230	0	1,060	63,100
December	5,150	138	614	37,800
January	4,150	136	938	87,700
February	18,500	732	4,250	236,000
March	1,200	345	636	39,100
April	15,200	247	1,650	98,200
May	239	50	141	8,670
June	77	16	48.1	2,860
July	23	3.0	10.5	646
August	3.0	.7	1.83	113
September	.6	0	.07	4.2
The year	18,500	0	752	544,000

NOTE.—No flow in October.

EEL RIVER BASIN

LAKE PILLSBURY AT HULLVILLE, CALIF.

LOCATION.—Staff gage on line between secs. 14 and 23, T. 18 N., R. 10 W., at Scott Dam on South Eel River, at Hullville.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum elevation during year, 1,910.7 feet January 4, February 3, 18, and April 1; minimum, 1,848.5 feet November 22.

REMARKS.—Lake Pillsbury is a storage reservoir of Snow Mountain Water & Power Co. Water is released to operate the power plant at Potter Valley and then wasted into a tributary of Russian River. Spillway gates, 10 feet on dam, are used to increase storage. Elevation of crest of dam, 1,900 feet; elevation of needle valve, 1,815 feet.

Daily gage height, in feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	73.0	58.8	97.6	108.2	110.0	109.0	110.55	110.3	109.6	106.0	99.15	90.15
2	72.6	58.3	103.4	109.2	110.4	108.8	109.2	110.3	109.6	105.3	98.85	89.85
3	72.2	57.6	108.5	110.6	110.2	109.1	110.1	110.2	109.6	105.55	98.6	89.55
4	71.7	57.0	109.8	110.6	108.4	109.8	110.05	110.2	109.5	105.35	98.35	89.3
5	71.2	56.6	110.3	109.6	109.8	110.4	109.75	110.1	109.45	105.2	98.15	88.9
6	70.8	56.0	110.2	107.3	109.6	110.6	109.95	110.1	109.35	105.15	97.85	88.6
7	70.3	55.4	110.0	107.3	109.2	110.2	109.9	110.1	109.2	105.0	97.55	88.3
8	69.8	54.8	110.2	107.7	109.5	109.8	109.85	110.1	109.1	104.85	97.25	88.0
9	69.4	54.2	110.2	108.0	109.8	110.2	110.15	110.05	109.15	104.65	96.95	87.65
10	69.2	53.6	110.2	108.7	110.1	110.0	110.2	110.0	109.1	104.35	96.75	87.3
11	68.9	53.0	110.2	109.8	110.3	109.6	110.2	109.9	109.0	104.15	96.5	86.85
12	68.5	52.6	110.2	109.2	110.3	110.0	110.2	109.9	108.9	103.95	96.25	86.45
13	68.2	52.6	110.1	109.3	110.2	110.4	110.1	109.9	108.8	103.85	95.95	86.05
14	67.8	52.3	110.0	109.4	110.2	110.2	110.1	109.9	108.7	103.45	95.65	85.8
15	67.4	51.8	109.9	109.8	110.2	109.7	110.1	109.9	108.6	103.25	95.35	85.6
16	66.9	51.3	109.8	110.3	110.4	109.7	110.1	109.9	108.5	103.05	95.05	85.1
17	66.5	50.9	109.7	110.2	109.4	109.6	110.1	109.9	108.3	102.75	94.85	84.7
18	66.0	50.4	109.7	110.2	110.0	110.2	110.1	109.9	108.15	102.55	94.55	84.35
19	65.5	49.8	109.6	110.2	107.5	110.4	110.2	109.8	107.95	102.35	94.25	84.0
20	65.1	49.2	109.5	109.0	108.9	110.3	110.25	109.8	107.75	102.15	93.95	83.7
21	64.6	48.7	109.4	109.0	110.0	110.2	110.3	109.85	107.55	101.85	93.65	83.3
22	64.1	49.0	109.4	108.8	108.0	110.2	110.3	109.8	107.45	101.65	93.35	82.95
23	63.7	49.8	109.3	108.8	107.7	110.2	110.3	109.8	107.25	101.45	93.0	82.6
24	63.2	58.6	109.2	108.7	107.9	110.3	110.3	109.8	107.15	101.15	92.65	82.25
25	62.7	65.8	109.0	108.6	108.6	110.3	110.35	109.75	107.0	100.95	92.35	81.9
26	62.2	72.0	108.9	108.6	109.4	110.0	110.4	109.7	106.85	100.7	92.05	81.55
27	61.7	79.6	108.8	108.8	109.6	110.0	110.4	109.7	106.7	100.45	91.75	81.2
28	61.1	84.0	108.6	110.3	109.4	110.3	110.4	109.7	106.55	100.25	91.45	80.85
29	60.6	91.1	108.5	110.0	-----	110.3	110.3	109.7	106.4	99.95	91.15	80.5
30	60.0	94.9	108.4	109.6	-----	110.3	110.3	109.7	106.2	99.65	90.8	80.1
31	59.4	-----	108.2	110.0	-----	110.4	-----	109.65	-----	99.45	90.45	-----

NOTE.—Add 1,800 feet to obtain sea-level elevation.

SOUTH EEL RIVER AT HULLVILLE, CALIF.

LOCATION.—Water-stage recorder in NW. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 22, T. 18 N., R. 10 W., half a mile below Scott Dam and half a mile west of Hullville. Soda Creek enters half a mile below gage.

RECORDS AVAILABLE.—November, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 19,500 second-feet February 21 (gage height, 15.2 feet); minimum, 7.5 second-feet November 30, when valve at dam was closed.

1922-1927: Maximum discharge, that of February 21, 1927; minimum, 0.1 second-feet September 9, 1924, regulated by valve in Scott Dam.

REMARKS.—Records excellent. No diversions. Flow completely regulated by gates in Scott Dam. There was 30,700 acre-feet of water in Lake Pillsbury on September 30, 1926, and 54,800 acre-feet on September 30, 1927.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	242	259	8.5	375	1,460	1,960	8,050	630	250	326	818	329
2.....	242	256	732	390	1,700	1,920	5,580	604	168	315	312	350
3.....	262	253	2,390	892	7,430	658	2,760	572	250	315	301	346
4.....	267	211	1,430	1,330	2,840	488	2,760	545	256	312	298	265
5.....	264	245	1,220	3,640	1,890	805	1,930	527	322	133	306	188
6.....	264	237	1,190	2,720	3,340	1,300	1,600	532	860	206	322	304
7.....	264	237	695	681	2,480	1,600	1,560	522	360	176	322	291
8.....	264	234	480	442	1,380	988	1,130	500	315	315	322	301
9.....	264	232	488	442	1,190	1,010	940	488	170	329	312	301
10.....	253	229	468	446	850	1,530	1,030	476	284	329	301	364
11.....	248	229	442	2,400	980	1,110	1,030	472	284	329	184	364
12.....	248	226	291	1,980	960	402	1,000	420	284	315	326	364
13.....	178	224	453	1,080	945	1,840	885	448	284	304	326	301
14.....	248	221	384	814	1,700	2,760	730	420	284	304	326	214
15.....	248	209	381	832	2,550	1,820	755	413	301	304	322	298
16.....	248	199	381	1,160	7,290	1,500	755	402	294	257	287	378
17.....	242	206	381	1,260	5,580	1,010	730	392	357	301	301	317
18.....	242	219	381	910	12,600	518	589	392	357	301	301	296
19.....	242	245	381	2,340	6,330	1,060	568	392	332	261	320	290
20.....	239	262	381	2,340	8,080	1,090	612	305	301	294	336	290
21.....	237	262	381	1,300	14,700	1,000	635	150	290	294	336	290
22.....	237	267	381	1,080	6,510	970	648	315	265	290	299	362
23.....	234	187	378	802	3,760	828	662	287	265	290	326	269
24.....	234	12	378	798	2,170	855	680	287	265	290	326	269
25.....	234	9	378	790	1,920	1,010	730	287	265	287	326	269
26.....	248	10	378	790	1,820	1,180	780	287	265	232	306	359
27.....	264	14	378	814	2,080	444	755	225	265	264	326	284
28.....	264	16	375	1,620	2,000	576	730	220	268	315	318	260
29.....	264	12	375	2,550	-----	644	680	250	318	322	312	315
30.....	262	7.5	375	1,280	-----	658	644	250	332	322	306	312
31.....	259	-----	375	1,020	-----	1,140	-----	250	-----	322	312	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	267	178	249	15,300
November.....	267	7.5	181	10,900
December.....	2,390	8.5	552	32,900
January.....	3,640	375	1,270	78,100
February.....	14,700	850	3,810	212,000
March.....	2,760	402	1,120	68,900
April.....	8,050	568	1,400	83,300
May.....	630	150	395	24,300
June.....	360	168	287	17,100
July.....	329	133	289	17,800
August.....	336	184	308	18,900
September.....	378	188	306	18,200
The year.....	14,700	7.5	825	599,000

SOUTH EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CALIF.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 30, T. 18 N., R. 11 W., at Van Arsdale Dam of Snow Mountain Water & Power Co., 5 miles north of Potter Valley.

RECORDS AVAILABLE.—November, 1909, to September, 1927. (Monthly discharge only for 1909–1922.)

EXTREMES.—Maximum discharge during year, 22,800 second-feet February 21 (gage height, 8.1 feet); minimum, about 2 second-feet October 1 to November 23 and May 21 to September 30.

1909–1927: Maximum discharge, 39,900 second-feet, including flow through power house, February 24, 1917; minimum discharge not known but 2 second-feet are required to be wasted through fish ladder at all times.

REMARKS.—Records fair. Water is diverted from the equalizing reservoir at Van Arsdale Dam through a tunnel to the power house of Snow Mountain Water & Power Co. in Potter Valley and then wasted down a branch of Russian River. (See p. 264 for record of this diversion.) Low-water flow is completely diverted to power house except about 2 second-feet, which is wasted down South Eel River through fishway and sluice gate. Storage at Lake Pillsbury is released to operate the power plant.

Daily and monthly discharge, in second-feet, 1906–27

Day	Dec.	Jan.	Feb.	Mar.	Day	Nov.	Dec.	Jan.	Feb.
1	198	460	2,780	2,200	16	212	2,000	9,100	-----
2	1,710	944	3,000	2,170	17	-----	288	2,420	8,060
3	3,000	1,400	8,630	1,460	18	-----	336	1,710	14,300
4	1,790	1,690	5,060	-----	19	-----	400	2,480	9,100
5	1,660	3,540	3,060	-----	20	-----	410	4,560	11,300
6	1,400	3,430	5,310	-----	21	-----	471	3,480	16,800
7	786	1,040	4,460	-----	22	-----	537	3,180	8,200
8	370	798	2,830	-----	23	-----	570	1,660	4,830
9	370	798	2,600	-----	24	94	559	1,540	2,710
10	344	810	1,920	-----	25	81	526	1,510	2,180
11	312	2,780	2,000	-----	26	22	582	1,440	1,860
12	397	3,100	1,970	-----	27	242	537	1,730	2,460
13	124	1,920	1,840	-----	28	162	515	3,000	2,360
14	145	1,520	2,310	-----	29	582	482	4,240	-----
15	172	1,690	4,020	-----	30	278	450	2,890	-----
					31	-----	440	2,300	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	2	2	2	123
November	582	2	50.1	2,890
December	3,000	124	648	39,890
January	4,560	460	2,130	131,090
February	16,800	1,840	5,180	288,000
June	2	2	2	119
July	2	2	2	123
August	2	2	2	123
September	2	2	2	119

NOTE.—From October 1 to November 23 and May 21 to September 30, 2 second-feet were allowed to waste down the river through the fishway. Discharge March 4 to May 20 not determined as height of flashboards was indefinite.

EEL RIVER AT SCOTIA, CALIF.

LOCATION.—Staff gage in sec. 18, T. 1 N., R. 1 E., at Wildwood Bridge, half a mile northeast of Scotia.

RECORDS AVAILABLE.—December, 1910, to February, 1915; October, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, 197,000 second-feet February 21 (gage height, 45.2 feet); minimum, 42 second-feet October 1.

1910-1915, 1916-1927: Maximum discharge, about 290,000 second-feet February 2, 1915 (gage height, 55.5 feet); minimum, 10 second-feet August 12-14, 1924.

REMARKS.—Records good. Water is diverted from South Fork of Eel River for power development and then wasted down a branch of Russian River at Potter Valley. (See p. 264 for record of this diversion.) About 6 second-feet is pumped intermittently from the river above station at Scotia for local use and for lumbering.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	146	77,300	6,030	22,600	16,700	10,100	4,970	1,420	585	161	90
2	66	142	45,900	15,000	29,600	19,800	79,200	4,970	1,290	515	147	88
3	66	142	60,800	30,100	56,000	22,400	41,500	4,470	1,290	515	147	90
4	75	142	36,500	18,500	72,200	17,500	27,800	4,230	1,220	515	144	90
5	75	142	27,800	15,700	40,500	15,000	21,100	4,230	1,160	485	140	92
6	85	136	20,900	21,300	37,500	13,500	16,200	4,230	1,160	455	137	95
7	90	142	14,600	24,300	37,000	12,400	14,600	3,990	1,160	400	134	90
8	90	136	11,700	16,900	28,800	12,400	13,100	3,760	1,290	384	128	85
9	297	126	9,610	13,100	22,200	13,900	11,700	3,530	1,420	367	125	81
10	1,260	136	8,070	11,700	18,500	15,000	10,800	3,310	1,710	345	125	81
11	1,880	174	7,370	13,100	15,300	14,200	10,100	3,100	1,560	335	122	81
12	1,330	580	7,370	22,200	13,800	12,800	9,200	2,900	1,290	325	116	81
13	1,050	1,180	6,030	16,900	12,800	13,900	8,800	2,900	1,160	325	110	81
14	630	3,219	5,410	12,800	11,700	22,000	7,720	2,900	1,040	315	105	81
15	438	2,080	5,120	14,600	19,300	22,900	7,430	3,310	985	300	105	81
16	355	1,180	4,580	22,200	37,500	18,400	7,150	3,530	985	286	105	81
17	330	930	5,410	20,100	66,800	16,200	6,590	3,530	930	268	105	81
18	288	720	13,100	17,700	190,000	16,700	6,040	3,100	830	268	100	81
19	254	1,500	11,000	18,100	92,200	13,500	5,500	2,530	740	259	100	77
20	280	4,140	8,070	30,600	172,000	12,100	5,500	2,530	660	250	100	77
21	216	4,560	9,870	23,600	179,000	11,400	5,230	2,350	660	242	95	77
22	209	4,560	12,000	17,300	96,100	10,800	5,230	2,190	585	226	95	77
23	195	11,000	11,700	15,000	54,800	10,100	5,500	1,860	585	218	95	81
24	188	31,500	10,200	13,100	34,400	9,800	5,770	1,780	585	210	92	85
25	181	53,000	9,870	12,000	26,800	9,500	6,040	1,780	585	203	90	85
26	174	37,500	9,510	16,600	24,800	8,960	6,310	1,710	622	196	90	85
27	160	63,200	8,070	14,600	21,600	8,300	6,590	1,710	622	192	85	83
28	157	54,800	7,720	37,000	19,300	7,720	6,040	1,710	622	189	88	88
29	154	97,400	7,370	49,500	-----	6,870	5,500	1,710	585	175	90	88
30	151	108,000	6,080	27,800	-----	6,870	4,970	1,560	585	168	90	90
31	151	-----	6,030	22,600	-----	6,870	-----	1,420	-----	164	90	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,880	48	351	21,600
November	108,000	136	16,100	258,000
December	77,200	4,560	15,700	965,000
January	40,500	6,030	19,200	1,180,000
February	179,000	11,700	48,700	2,700,000
March	22,900	6,870	13,500	830,000
April	79,200	4,970	12,500	744,000
May	4,970	1,420	2,960	182,000
June	1,710	585	978	58,200
July	585	164	312	19,200
August	161	85	111	6,820
September	95	77	84.1	5,000
The year	179,000	48	10,600	7,670,000

SNOW MOUNTAIN WATER & POWER CO.'S TAILRACE NEAR POTTER VALLEY, CALIF.

LOCATION.—Water-stage recorder in W. $\frac{1}{2}$ NW. $\frac{1}{4}$ sec. 6, T. 17 N., R. 11 W., at power house of Snow Mountain Water & Power Co., 3 miles northwest of Potter Valley.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 292 second-feet August 27 and September 3.

1922-1927: Maximum mean daily discharge, 317 second-feet October 10-13, 1922, and January 14, 1925.

REMARKS.—Records good except those for October 13-24, April 19-23, and May 31, which were estimated. Water was diverted from tailrace above gage through two small ditches at various times during year for irrigation in Potter Valley. Amount diverted is included in tables of daily and monthly discharge. Flow completely regulated by operation at power plant.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	266	256	254	239	252	206	258	260	257	268	256	289
2	262	259	260	244	254	247	236	217	185	273	261	284
3	254	258	251	260	253	218	230	208	204	264	265	292
4	255	229	254	258	249	261	261	216	264	254	262	270
5	270	268	244	250	255	216	258	224	242	274	272	279
6	273	258	258	250	245	244	260	230	266	237	279	284
7	268	242	262	241	238	226	255	220	268	178	253	282
8	266	254	246	242	232	243	252	260	262	276	276	287
9	264	249	222	229	216	269	254	264	275	268	276	282
10	252	249	254	245	262	216	236	270	276	242	286	286
11	260	243	260	241	214	210	268	268	260	272	273	269
12	195	256	130	236	220	246	260	265	273	264	261	272
13		252	252	238	250	249	254	268	274	262	264	266
14		227	252	203	264	262	256	264	278	270	263	280
15		239	256	238	262	258	254	255	270	266	280	283
16		258	258	228	226	258	252	266	270	274	270	282
17		258	258	212	260	256	237	264	270	246	280	282
18	240	250	254	207	242	204	242	264	274	269	275	280
19		272	243	248	252	255	244	267	280	272	272	275
20		251	267	242	243	237	245	254	268	263	282	266
21		249	261	201	243	254	246	230	265	279	258	270
22		255	266	209	250	258	248	248	265	276	268	273
23		256	252	228	250	258	280	258	261	284	278	275
24		244	261	242	256	254	237	258	261	266	272	278
25	263	250	242	206	252	247	255	258	274	271	285	269
26	260	222	238	244	254	243	254	253	220	272	275	272
27	258	249	255	248	234	242	256	200	266	268	292	279
28	256	224	254	236	242	251	252	191	267	266	272	272
29	256	258	255	228		250	252	238	264	272	266	276
30	258	244	252	207		180	196	252	264	278	280	274
31	248		261	242		260		254		252	287	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			249	15,300
November	272	222	250	14,900
December	267	130	249	15,300
January	260	201	234	14,400
February	264	214	245	13,600
March	269	180	249	14,800
April	268	196	241	14,800
May	270	191	249	15,300
June	278	185	262	15,600
July	284	178	263	16,200
August	292	253	274	16,900
September	292	256	276	16,400
The year	292		253	183,000

KLAMATH RIVER BASIN

WILLIAMSON RIVER BELOW SPRAGUE RIVER, NEAR CHILOQUIN, OREG

LOCATION.—Water-stage recorder in sec. 3, T. 35 S., R. 7 E., about a quarter of a mile below mouth of Sprague River and three-quarters of a mile southwest of Chiloquin.

DRAINAGE AREA.—3,000 square miles.

RECORDS AVAILABLE.—June, 1917, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,890 second-feet April 6 (gauge height, 5.40 feet); minimum, 506 second-feet October 4 (gauge height, 2.42 feet).

1917-1927: Maximum discharge, about 7,000 second-feet April 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 October 14, 1921.

REMARKS.—Records good except those for October 7-25, November 22 to December 16, and September 16-21, which were estimated. Diversion for irrigation above station. Manipulation of gates at dams above causes considerable fluctuation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	562	586		668	701	1,720	2,480	3,040	1,840	895	642	623
2	649	586		714	701	1,840	2,620	3,250	1,780	727	636	623
3	668	592		815	762	1,900	2,830	3,250	1,720	823	630	630
4	580	592		815	847	2,020	2,900	3,250	1,660	785	615	592
5	586	592		940	967	2,020	3,250	3,180	1,610	792	610	590
6	598	592		1,150	1,170	2,020	3,740	3,040	1,500	785	610	550
7		592		1,440	1,250	2,090	3,820	2,830	1,440	770	610	556
8		592		1,560	1,240	2,090	3,460	2,620	1,380	755	604	562
9		592	1,500	1,610	1,140	2,090	3,180	2,620	1,350	748	598	586
10		592		1,500	1,000	2,090	3,040	2,620	1,320	727	586	592
11		598		1,280	904	2,090	2,970	2,620	1,310	740	580	616
12		610		1,140	839	2,090	2,970	2,560	1,340	792	592	616
13		604		1,020	800	2,220	2,760	2,420	1,380	748	596	610
14		604		1,000	770	2,220	2,550	2,350	1,390	701	596	616
15		610		1,000	762	2,220	2,420	2,220	1,440	688	598	610
16	595	610		1,000	755	2,280	2,350	2,160	1,440	682	598	
17		610	976	976	755	2,550	2,280	2,090	1,440	675	592	
18		610	931	949	792	2,760	2,280	2,160	1,380	662	586	
19		630	863	931	823	2,690	2,220	2,280	1,360	656	623	650
20		636	863	879	968	2,480	2,220	2,620	1,300	636	630	
21		630	863	792	1,210	2,280	2,160	2,900	1,240	636	604	
22			800	668	1,370	2,160	2,160	3,040	1,170	636	598	610
23			662	740	1,560	2,020	2,090	3,040	1,130	642	598	623
24			649	792	1,660	2,020	2,020	2,900	1,080	636	598	655
25			740	800	1,840	2,020	1,960	2,690	1,040	630	592	649
26	592	900	734	748	2,020	2,160	1,960	2,480	1,010	636	592	630
27	586		720	734	1,960	2,280	2,020	2,280	994	636	598	636
28	586		720	740	1,780	2,420	2,090	2,160	967	630	598	636
29	580		720	720		2,480	2,220	2,020	967	675	604	616
30	580		701	708		2,480	2,550	1,900	940	675	610	604
31	580		682	708		2,480		1,840		649	616	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			562	595
November			586	692
December			649	1,150
January	1,610		668	953
February	2,020		701	1,120
March	2,760	1,720	2,200	135,000
April	3,820	1,960	2,590	154,000
May	3,250	1,840	2,590	159,000
June	1,840	940	1,330	79,100
July	895	630	705	43,300
August	642	580	605	37,200
September		539	616	36,700
The year	3,820	539	1,260	914,000

UPPER KLAMATH LAKE NEAR KLAMATH FALLS, OREG.

LOCATION.—Water-stage recorder in SW. $\frac{1}{4}$ sec. 19, T. 38 S., R. 9 E., 1 mile above outlet of Upper Klamath Lake and 3 miles northwest of Klamath Falls. Zero of gage is 4,135.93 feet above mean sea level, United States Bureau of Reclamation datum.

RECORDS AVAILABLE.—May, 1904, to September, 1927.

EXTREMES.—Maximum elevation during year, 4,143.11 feet April 15; minimum, 4,135.60 feet on staff gage at Buena Vista Landing October 9 (water-stage recorder not operating).

1904-1927: Maximum elevation, 4,144.98 feet about April 20, 1904, determined from high-water marks May 28, 1904; minimum, that of October 9, 1926.

REMARKS.—Gage heights are very much affected by wind. Considerable regulation caused by dam at outlet of lake. Gage-height record furnished by The California Oregon Power Co.

Daily elevation, in feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	36.93	37.16	37.43	39.39	39.99	41.14	41.88	42.35	42.41	41.76	40.56	39.36
2.....	37.16	37.13	38.43	39.47	40.08	41.38	41.92	42.43	42.36	41.83	40.53	39.31
3.....	37.15	37.11	38.58	39.51	40.16	41.45	42.19	42.46	42.26	41.88	40.51	39.29
4.....	37.17	37.10	38.66	39.46	40.18	41.54	42.13	42.51	42.30	41.72	40.44	39.21
5.....	37.16	37.08	38.61	39.35	40.22	41.52	42.10	42.57	42.29	41.70	40.43	39.25
6.....	37.21	37.18	38.96	39.52	40.17	41.55	42.12	42.65	42.22	41.61	40.40	39.27
7.....	37.32	37.19	39.03	39.51	40.24	41.55	42.25	42.64	42.11	41.56	40.29	39.27
8.....	37.02	37.22	39.25	39.75	40.31	41.59	42.37	42.58	42.18	41.56	40.24	39.24
9.....	37.21	37.21	39.03	39.84	40.35	41.73	42.72	42.50	42.18	41.57	40.19	39.26
10.....	37.05	37.21	39.02	39.77	40.35	41.72	42.52	42.41	42.20	41.64	40.19	39.12
11.....	37.15	37.16	39.31	39.75	40.33	41.71	42.45	42.40	42.20	41.50	40.23	39.16
12.....	37.22	37.13	39.23	39.75	40.35	41.69	42.45	42.42	42.18	41.45	40.14	39.28
13.....	37.22	37.23	39.48	39.65	40.33	41.81	42.43	42.46	42.14	41.41	40.08	39.20
14.....	37.01	37.23	39.15	39.53	40.34	41.89	42.36	42.46	42.15	41.37	39.97	39.13
15.....	37.15	37.21	39.15	39.72	40.31	41.88	42.69	42.42	42.16	41.30	39.88	39.14
16.....	37.14	37.39	39.19	39.86	40.35	41.72	42.68	42.39	42.12	41.26	39.90	39.19
17.....	37.33	37.33	39.08	39.81	40.21	41.91	42.50	42.46	42.11	41.17	39.87	39.10
18.....	37.43	37.16	39.21	39.71	40.51	41.95	42.58	42.31	42.05	41.15	39.74	39.12
19.....	37.31	37.20	39.20	39.71	40.57	41.98	42.49	42.45	42.02	41.12	39.71	38.96
20.....	37.25	37.17	39.16	40.08	40.52	41.97	42.45	42.53	41.97	41.10	39.73	38.91
21.....	37.21	37.15	39.25	40.01	40.73	41.99	42.40	42.51	41.98	41.08	39.69	38.92
22.....	37.18	37.38	39.28	39.89	40.63	41.95	42.40	42.45	41.93	40.95	39.58	38.95
23.....	37.16	37.53	39.34	39.89	40.92	41.98	42.42	42.43	41.86	40.93	39.60	38.97
24.....	37.08	37.26	39.37	39.86	40.99	42.02	42.42	42.44	41.66	40.86	39.57	38.92
25.....	37.18	37.37	39.30	39.87	40.94	42.05	42.40	42.47	41.68	40.81	39.57	38.87
26.....	37.19	-----	39.29	39.88	41.10	41.97	42.32	42.47	41.87	40.77	39.50	38.82
27.....	37.24	37.71	39.31	39.89	41.12	41.90	42.41	42.47	41.92	40.68	39.43	38.79
28.....	37.19	37.64	39.29	39.92	41.15	41.96	42.43	42.52	41.83	40.63	39.32	38.86
29.....	37.15	37.72	39.27	39.97	-----	42.06	42.45	42.41	41.80	40.62	39.48	39.16
30.....	37.15	38.03	39.32	39.96	-----	41.81	42.25	42.41	41.74	40.57	39.40	38.86
31.....	37.16	-----	39.32	39.96	-----	41.82	-----	42.42	-----	40.58	39.41	-----

NOTE.—Add 4,100 feet to reduce elevations to sea level.

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.

DRAINAGE AREA.—3,800 square miles.

RECORDS AVAILABLE.—May, 1904, to September, 1927.

EXTREMES.—Maximum combined discharge of Link River and Keno Canal during year, 3,036 second-feet March 17; minimum, 204 second-feet November 25.

1904-1927: Maximum discharge, 9,400 second-feet May 12, 1904 (gage height at bridge, 7.30 feet); minimum, 22 second-feet August 30, 1918 (gage height, 4.07 feet).

REMARKS.—Records good. Regulation caused by storage of water in Upper Klamath Lake. Water diverted above station by the main or "A" Canal of Klamath project of the United States Bureau of Reclamation. Keno Canal of The California Oregon Power Co. also diverts water around the gage. Other small diversions above lake.

Daily and monthly discharge, in second-feet, 1904-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	701	1,170	264	1,290	786	637	2,960	2,520	2,700	734	1,740	1,866
2	631	1,180	286	657	489	833	2,950	2,606	2,700	723	1,739	1,866
3	905	1,190	299	623	613	635	2,210	2,600	2,700	736	1,740	1,710
4	882	1,190	444	760	917	677	2,190	2,590	2,700	1,180	1,740	1,819
5	861	1,190	748	772	1,040	725	2,410	2,606	2,620	1,470	1,740	1,866
6	893	1,170	941	865	1,020	855	2,690	2,606	2,620	1,790	1,660	1,040
7	820	1,180	1,220	985	1,370	976	2,690	2,600	2,620	1,970	1,700	1,000
8	897	1,180	1,430	1,040	1,370	1,140	2,690	2,590	2,540	1,960	1,960	1,520
9	775	1,190	1,820	1,040	1,370	926	2,770	2,590	2,620	1,970	1,800	1,620
10	1,069	1,010	1,560	1,360	1,360	783	2,690	2,590	2,280	1,970	1,800	1,390
11	962	652	1,540	1,020	1,360	1,070	2,690	2,590	2,090	1,870	1,790	1,520
12	955	1,030	1,510	1,320	1,360	1,410	2,690	2,590	2,060	1,960	1,790	1,666
13	1,100	1,140	1,530	1,320	1,360	1,420	2,680	2,670	2,990	1,960	1,900	1,700
14	999	1,160	1,510	1,316	1,360	2,180	2,680	2,670	1,720	1,960	1,800	1,780
15	1,140	1,120	1,410	1,320	1,650	2,610	2,760	2,680	1,750	1,960	1,780	1,760
16	1,190	1,180	967	1,320	1,050	2,770	2,760	2,690	1,660	1,780	1,740	1,700
17	1,220	1,170	779	1,660	1,060	2,960	2,680	2,680	1,569	1,680	1,700	1,640
18	1,390	1,200	922	1,860	495	3,050	2,760	2,696	1,790	1,686	1,600	1,570
19	1,410	1,190	972	1,840	1,370	2,940	2,680	2,780	2,110	1,680	1,570	1,460
20	1,390	904	874	1,530	327	2,940	2,600	2,780	1,750	1,660	1,460	1,460
21	1,390	746	781	1,210	326	2,940	2,520	2,780	1,680	2,120	1,370	1,470
22	1,360	1,150	947	1,620	330	2,940	2,520	2,700	1,900	2,100	1,630	1,470
23	1,320	946	997	1,870	675	2,940	2,520	2,710	1,890	2,090	1,740	1,460
24	1,180	362	1,290	1,520	337	2,940	2,520	2,700	2,040	2,090	1,590	1,460
25	1,190	287	1,290	1,320	685	2,940	2,520	2,700	2,190	2,060	1,510	1,440
26	1,200	371	1,290	1,320	643	2,940	2,520	2,700	2,160	2,060	1,510	1,440
27	1,210	271	1,290	1,290	998	2,940	2,510	2,700	2,060	2,030	1,600	1,440
28	1,200	262	1,260	298	1,150	2,940	2,520	2,700	1,310	1,910	1,670	1,430
29	1,170	520	890	993	-----	2,940	2,520	2,700	742	1,230	1,670	1,460
30	1,170	721	1,030	1,040	-----	2,940	2,520	2,700	763	675	1,670	1,440
31	1,180	-----	952	971	-----	2,940	-----	2,700	-----	1,310	1,620	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,410	651	1,080	66,400
November	1,200	262	929	55,300
December	1,820	264	1,070	65,800
January	1,870	298	1,200	73,800
February	1,370	325	936	82,000
March	3,030	633	2,050	126,000
April	2,950	2,190	2,610	155,000
May	2,780	2,520	2,660	164,000
June	2,700	742	2,040	121,000
July	2,120	675	1,700	105,000
August	1,800	1,370	1,680	103,000
September	1,810	1,000	1,630	91,000
The year	3,030	262	1,630	1,180,000

NOTE.—The flow of Keno Canal has been included in the above table.

*Combined monthly discharge of Link River and "A" Canal at Klamath Falls, Oreg.,
1926-27*

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	1,410	651	1,080	66,400
November.....	1,200	262	920	55,300
December.....	1,820	264	1,070	65,800
January.....	1,870	208	1,200	73,800
February.....	1,370	326	936	62,000
March.....	3,030	683	2,050	126,000
April.....	2,950	2,190	2,620	156,000
May.....	3,180	2,540	2,880	177,000
June.....	3,200	1,380	2,560	152,000
July.....	2,800	1,290	2,350	144,000
August.....	2,350	1,720	2,090	120,000
September.....	1,950	1,120	1,650	98,200
The year.....	3,200	262	1,790	1,300,000

KLAMATH RIVER AT SPENCER BRIDGE, NEAR KENO, OREG.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 31, T. 39 S., R. 7 E., at Spencer Bridge, 1 mile below Spencer Creek, 6 miles below former station at Keno, and 14 miles southwest of Klamath Falls.

DRAINAGE AREA.—4,000 square miles.

RECORDS AVAILABLE.—October, 1913, to September, 1927. Records at Keno May, 1904, to December, 1913.

EXTREMES.—Maximum discharge during year, 3,550 second-feet April 2 (gage height, 6.36 feet); minimum, 572 second-feet occurred during period November 23 to December 15, when clock was stopped (gage height, 1.54 feet).

1913-1927: Maximum discharge, 5,130 second-feet April 21, 1914; minimum, 371 second-feet June 14, 1924.

A stage of 15.3 feet (discharge, 9,250 second-feet) occurred at Keno station about May 10, 1904.

REMARKS.—Records good except those for November 23 to December 15, June 3, 6-21, 23-30, and July 1-19, which were estimated. Small diversion below Klamath Falls station. Practically all the flow of Lost River during the nonirrigating season is diverted into Klamath River below Klamath Falls by the Lost River diversion canal (p. 297). Regulation caused by storage of water in Upper Klamath Lake.

Daily and monthly discharge, in second-feet, of Klamath River at Spencer Bridge, near Keno, Oreg., 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	900	1,210	600	1,260	1,110	1,260	3,370	2,940	2,700	800	1,590	1,700
2	880	1,210		1,360	940	1,110	3,460	3,020	2,700		1,700	1,700
3	840	1,210		1,060	880	1,020	3,370	2,940	2,700		1,700	1,700
4	1,010	1,210		980	920	980	2,780	3,020	2,620		1,100	1,820
5	900	1,210	700	1,060	1,060	980	2,780	3,020	2,620	1,400	1,760	1,890
6	900	1,210	1,000	1,060	1,260	980	2,780	3,020	2,600	1,700	1,700	1,760
7	900	1,210	1,000	1,160	1,260	1,060	2,850	3,020		1,900	1,700	1,310
8	920	1,260	1,000	1,210	1,410	1,210	2,940	3,020		2,000	1,760	1,520
9	840	1,260		1,260	1,460	1,360	2,940	3,020		1,820	1,640	1,640
10	1,040	1,210		1,360	1,520	1,110	3,020	2,940		1,820	1,890	1,640
11	1,080	980	1,600	1,310	1,520	1,110	3,020	2,940	2,200	2,100	1,820	1,580
12	988	1,060	1,600	1,410	1,580	1,360	2,940	2,860			1,820	1,700
13	1,080	1,160		1,460	1,580	1,460	2,940	2,860			1,890	1,700
14	1,040	1,160		1,520	1,580	1,640	2,940	2,860			1,890	1,820
15	1,080	1,160		1,520	1,580	2,100	2,860	2,860			1,890	1,890
16	1,140	1,210	1,580	1,520	1,410	2,460	3,020	2,780	1,800	2,000	1,890	1,960
17	1,210	1,210	1,260	1,580	1,360	2,780	3,020	2,700		1,820	1,890	1,960
18	1,260	1,260	1,210	1,760	1,060	3,020	2,940	2,780		1,800	1,820	1,890
19	1,310	1,360	1,160	1,890	1,060	3,190	3,020	2,780		1,760	1,820	1,820
20	1,360	1,360	1,160	1,890	960	3,190	3,100	2,780	1,640	1,820	1,700	1,760
21	1,360	1,000	1,060	1,760	980	3,190	3,020	2,860		1,890	1,580	1,700
22	1,360	1,110	1,020	1,760	840	3,190	2,940	2,860		2,030	1,580	1,700
23	1,360	1,100	1,160	1,960	880	3,190	2,940	2,860		2,030	1,640	1,640
24	1,310	600	1,360	1,960	900	3,190	2,940	2,780	2,200	2,100	1,700	1,640
25	1,310		1,360	1,760	860	3,190	2,940	2,780		2,170	1,640	1,640
26	1,260		1,580	1,640	920	3,190	3,020	2,780		2,170	1,580	1,640
27	1,260		1,580	1,580	960	3,280	3,020	2,780	1,500	2,170	1,580	1,580
28	1,260	1,000	1,520	1,260	1,210	3,280	3,020	2,700		2,170	1,640	1,640
29	1,260		1,410	960	-----	3,280	3,020	2,780		2,030	1,700	1,580
30	1,210		1,310	1,210	-----	3,280	3,020	2,780		1,460	1,760	1,640
31	1,210	-----	1,110	1,160	-----	3,280	-----	2,700	-----	1,210	1,700	-----
Month						Maximum	Minimum	Mean	Run-off in acre-feet			
October						1,360	840	1,120	68,900			
November						1,360	-----	1,060	63,100			
December						-----	-----	1,260	76,800			
January						1,890	960	1,440	88,500			
February						1,580	840	1,180	65,500			
March						3,280	980	2,220	136,000			
April						3,460	2,780	3,000	179,000			
May						3,020	2,700	2,870	176,000			
June						2,700	850	2,080	124,000			
July						-----	-----	1,800	111,000			
August						1,890	1,580	1,730	105,000			
September						1,960	1,310	1,700	101,000			
The year						3,460	-----	1,790	1,300,000			

KLAMATH RIVER NEAR COPCO, CALIF.

LOCATION.—Water-stage recorder in NW $\frac{1}{4}$ sec. 31, T. 48 N., R. 4 W., a quarter of a mile above mouth of Fall Creek, $1\frac{1}{2}$ miles below The California Oregon Power Co.'s Copco No. 1 plant, just below tailrace of Copco No. 2 plant, and half a mile south of Copco post office.

DRAINAGE AREA.—4,300 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 6,350 second-feet June 3 (gage height, 6.55 feet); minimum, probably about 150 second-feet.

1923-1927: Maximum discharge, that of June 3, 1927; minimum, about 10 second-feet at times when power plant was completely shut down in 1925 and 1926.

REMARKS.—Discharge determined from electrical output of power plant except for November 25, 26, 29, February 21-23, March 17 to June 14, and August 27. Diversions and regulation above station. Gage height and electrical record furnished by The California Oregon Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,370	1,620	2,220	555	1,310	1,890	3,410	2,970	2,720	2,130	1,620	2,690
2	1,390	1,570	2,000	376	1,440	1,970	4,030	3,210	2,590	1,120	2,160	2,530
3	1,380	1,400	1,940	1,440	1,890	1,840	4,210	2,900	3,570	526	2,440	2,440
4	1,580	1,520	1,830	1,560	1,860	1,850	2,860	2,970	2,340	330	2,530	740
5	1,590	1,500	576	1,820	1,980	1,550	3,080	3,040	2,790	1,700	2,560	820
6	1,520	1,430	1,920	1,870	1,070	723	2,850	2,920	2,390	1,980	2,060	1,640
7	1,430	480	1,890	1,000	2,190	1,880	2,970	2,820	2,360	2,170	588	2,390
8	1,530	1,560	1,960	1,960	1,960	1,850	3,080	2,970	2,780	2,160	2,270	2,360
9	1,230	1,560	1,940	1,170	1,890	1,750	2,970	2,580	2,320	1,850	2,040	1,120
10	255	1,530	1,870	1,090	1,980	1,850	3,190	2,800	2,430	840	2,340	1,410
11	1,470	1,580	1,990	1,950	1,810	1,730	3,080	2,980	2,390	1,860	2,460	590
12	1,420	1,720	385	1,840	1,660	1,800	3,080	2,820	2,560	2,180	1,860	2,120
13	1,430	1,550	1,730	1,830	1,140	680	2,970	2,800	1,980	2,580	1,420	2,480
14	1,450	403	1,880	1,800	1,580	1,820	2,960	2,870	2,400	2,050	721	2,200
15	1,630	1,670	1,890	1,810	1,800	1,900	2,860	2,850	2,710	2,160	1,920	2,110
16	1,450	1,690	2,000	930	1,530	1,890	2,970	2,550	2,580	1,760	1,820	2,080
17	1,340	1,600	1,820	2,100	1,650	1,560	3,190	2,970	2,590	1,240	2,060	1,630
18	1,670	1,640	1,750	2,140	1,770	3,710	2,970	2,680	2,400	2,540	2,010	618
19	1,280	1,640	322	2,070	1,500	1,830	2,970	2,600	1,130	2,230	2,630	2,170
20	1,480	1,560	1,950	1,980	1,120	3,190	3,190	2,730	2,230	2,350	1,470	2,400
21	1,520	368	1,850	1,940	1,840	3,190	3,080	2,790	2,170	2,420	1,200	2,260
22	1,690	1,400	2,020	1,850	1,540	3,190	2,970	2,730	2,130	2,510	2,130	2,240
23	1,630	1,560	1,900	736	2,080	3,190	2,970	2,820	2,510	1,780	1,930	2,240
24	479	1,290	1,870	1,570	2,230	3,410	3,080	2,660	2,400	475	1,940	1,470
25	1,470	524	1,100	1,680	2,130	3,080	2,890	2,640	2,100	2,420	2,310	430
26	1,350	2,180	1,250	1,830	2,070	3,190	3,480	2,660	484	2,610	2,370	1,580
27	1,410	1,840	1,440	1,660	676	3,300	2,780	2,730	1,100	2,510	2,030	2,130
28	1,790	593	1,680	1,900	1,630	3,080	3,090	2,630	1,640	2,380	980	2,170
29	1,770	1,770	1,430	1,140	1,140	3,190	3,080	2,810	1,640	1,800	1,890	2,480
30	1,480	2,260	1,540	342	-----	3,300	2,970	2,730	1,960	1,220	1,960	1,760
31	404	-----	1,660	1,660	-----	3,190	-----	2,540	-----	978	1,800	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,780	255	1,330	81,800
November	2,220	368	1,430	85,100
December	2,220	322	1,660	102,000
January	2,140	342	1,500	97,800
February	2,230	676	1,670	92,800
March	3,710	680	2,390	147,000
April	4,210	2,790	3,110	185,000
May	3,210	2,510	2,810	173,000
June	2,790	484	2,210	132,000
July	2,610	380	1,840	113,000
August	2,580	588	1,900	117,000
September	2,600	418	1,850	110,000
The year	4,210	255	1,980	1,440,000

SPRAGUE RIVER AT MCCREADY RANCH, NEAR CHILOQUIN, OREG.

LOCATION.—Staff gage in sec. 30, T. 34 S., R. 9 E., 200 yards north of F. F. McCready's house, 2 miles below McCready Spring, and 13 miles above Chiloquin.

RECORDS AVAILABLE.—July, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,520 second-feet April 6 (gage height, 7.3 feet); minimum, 160 second-feet September 5 (gage height, 0.60 foot).

1920-1927: Maximum discharge, 3,560 second-feet April 29, 1922; maximum gage height, that of April 6, 1927; minimum discharge, about 50 second-feet May 26 and 27, 1926.

A discharge of 4,390 second-feet about May 15, 1904, has been derived from high-water marks, at a station 20 miles upstream, near Yainax.

REMARKS.—Records fair except those for October 1-23, which were estimated. Regulation and diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		225	890	309	309	1,176	1,640	2,460	1,370	265	287	276
2		225	1,040	353	331	1,420	1,770	2,460	1,330	287	287	265
3		225	1,520	376	399	1,470	2,000	2,460	1,290	445	276	190
4		225	2,000	545	570	1,470	2,560	2,360	1,170	445	276	168
5		215	1,626	740	680	1,470	3,030	2,180	1,100	445	276	160
6		215	1,770	1,010	770	1,470	3,180	2,090	1,040	445	276	182
7		215	1,796	1,130	770	1,470	2,780	2,090	980	422	276	206
8		215	1,420	1,210	650	1,420	2,560	2,000	950	376	276	215
9		225	1,040	1,100	495	1,370	2,360	2,000	950	399	215	225
10		225	710	770	422	1,330	2,360	2,000	950	422	265	225
11		225	570	622	353	1,290	2,360	1,920	980	470	276	235
12	240	225	470	520	399	1,250	2,090	1,840	1,010	376	276	245
13		235	470	470	309	1,170	1,920	1,770	1,040	353	276	245
14		235	276	470	331	1,210	1,770	1,700	1,070	331	276	245
15		245	376	470	309	1,290	1,700	1,580	1,070	309	276	245
16		245	470	445	309	1,580	1,640	1,640	1,070	309	265	331
17		235	399	445	353	1,920	1,700	1,640	1,040	309	265	287
18		245	376	445	399	1,840	1,700	1,840	1,010	309	331	265
19		246	376	422	445	1,640	1,640	2,090	950	287	309	276
20		255	376	399	470	1,290	1,580	2,360	890	287	265	265
21		276	353	245	770	1,040	1,580	2,460	830	287	265	215
22		287	309	376	1,010	1,010	1,520	2,300	740	287	265	265
23		309	215	353	1,130	1,010	1,470	2,270	880	276	265	309
24	225	309	309	353	1,290	1,040	1,470	2,180	650	276	265	276
25	225	399	331	309	1,470	1,130	1,470	2,000	595	276	255	255
26	215	445	287	353	1,370	1,330	1,470	1,840	622	287	265	245
27	215	495	287	353	1,210	1,520	1,580	1,700	570	287	265	276
28	215	495	287	331	1,130	1,580	1,640	1,580	570	331	265	255
29	225	545	309	331	-----	1,580	1,840	1,470	570	309	265	225
30	215	770	309	331	-----	1,580	2,360	1,426	309	287	276	245
31	215	-----	309	331	-----	1,580	-----	1,420	-----	287	276	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October			235	14,400
November	770	215	298	17,760
December	2,000	215	693	42,600
January	1,210	245	513	31,560
February	1,470	309	656	36,400
March	1,920	1,010	1,390	85,600
April	3,180	1,470	1,960	117,000
May	2,460	1,420	1,970	121,000
June	1,370	309	913	54,300
July	470	265	338	20,800
August	331	275	273	16,800
September	331	160	244	14,500
The year	3,180	160	790	572,000

SURFACE WATER SUPPLY, 1927, PART XI

LONG CREEK NEAR SILVER LAKE, OREG.

LOCATION.—Water-stage recorder in sec. 6, T. 32 S., R. 13 E., 27 miles south of Silver Lake; above point where creek begins to divide and spread over Sycan Marsh.

RECORDS AVAILABLE.—May, 1918, to November, 1923; October, 1926, to September, 1927. Incomplete.

EXTREMES.—Maximum discharge during year, 145 second-feet April 26 and 27 (gage height, 2.66 feet); minimum, 4.9 second-feet October 5 (gage height, 0.43 foot).

1918-1923, 1926-27: Maximum discharge, 307 second-feet May 19, 1922 (gage height, 3.6 feet); minimum, 3.7 second-feet August 18, 1923.

REMARKS.—Records good except for estimated periods. No diversions or regulation above station. Records furnished by State engineer of Oregon.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	7.9		37				116		44	20	
2.....	6.7		38				126		44	20	
3.....	6.4		46				126		43	20	
4.....	5.8		26			* 40	121		40	19	
5.....	5.2		31				116		38	19	
6.....	6.7		23				112		36	18	
7.....	7.6	* 8.0	19			32	112	* 100	34		
8.....	7.3		24			32	112		32		
9.....	7.6		21			30	112		30		
10.....	9.1		20			32	112		30		
11.....	9.1		22			32	112		29		
12.....	9.7		18			32	112		29		
13.....	9.7		16			37	112	104	29		
14.....	11		21			44	108	104	29		
15.....	10	8.5		14		48	108	104	27		
16.....	13	16		13		48	104	100	28		
17.....	12	12		14		53	104	100	28		
18.....		12		21	20	57	104	100	28		
19.....		14		23		53	100	92	28	* 15	
20.....		30		22		55	100	90	27		
21.....		23				64	100	92	26		
22.....		17				80	96	90	24		
23.....		17	* 20			104	91	87	23		
24.....		27				135	92	78	23		
25.....	* 8.0	22				140	92	72	23		
26.....		17				145	92	70	22		
27.....		16				145	92	68	21		
28.....		15				145		55	20		17
29.....		21				135		49	20		
30.....		46				126	* 94	47	20		
31.....									20		
Month				Maximum		Minimum		Mean		Run-off in acre-feet	
October.....				13		5.2		8.28		509	
November.....				46				14.2		845	
December.....				46		16		22.6		1,390	
April.....				145		30		68.1		4,050	
May.....				126		91		105		6,480	
June.....				104		47		90.1		5,360	
July.....				44		20		28.9		1,780	
August.....				20				15.8		972	
September.....								* 15		893	

* Estimated.

NOTE.—No record on days for which no discharge is given

MODOC POINT CANAL NEAR CHILOQUIN, OREG.

LOCATION.—Staff gage in SE. $\frac{1}{4}$ sec. 3, T. 35 S., R. 7 E., at intake on Sprague River 1 mile south of Chiloquin.

RECORDS AVAILABLE.—June, 1915, to September, 1919, and irrigation seasons of 1920, 1921, and 1923 to 1927. Discontinued.

EXTREMES.—Maximum discharge during year, 23 second-feet July 17 to August 5 (gage height, 1.40 feet); canal dry all winter.

1915-1927: Maximum quantity diverted, 95 second-feet July 10, 1915. Most of water is turned back into river at first wasteway. Canal dry at times.

REMARKS.—Records fair. This canal diverts water for irrigation from Sprague River 150 feet above gage. Gage-height record furnished by the United States Indian Service.

Daily and monthly discharge, in second-feet, 1926-27

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1.....	0	18	15	23	17	16.....	8.5	15	14	22	17
2.....	0	18	15	23	17	17.....	10	15	23	22	17
3.....	0	18	15	23	17	18.....	11	15	23	19	14
4.....	0	18	15	23	17	19.....	11	15	23	19	14
5.....	0	18	14	23	17	20.....	14	15	23	19	13
6.....	0	18	14	23	17	21.....	15	15	23	17	12
7.....	0	18	14	23	17	22.....	15	15	23	17	12
8.....	0	18	14	23	17	23.....	15	15	23	17	12
9.....	2.8	18	14	23	17	24.....	15	15	23	17	12
10.....	5.5	18	14	23	17	25.....	15	15	23	17	12
11.....	5.5	18	14	22	17	26.....	15	15	23	17	12
12.....	7.0	15	14	22	17	27.....	15	15	23	17	12
13.....	7.0	15	14	22	17	28.....	18	15	23	17	12
14.....	8.5	15	14	22	17	29.....	18	15	23	17	12
15.....	8.5	15	14	22	17	30.....	18	15	23	17	12
						31.....	18		23	17	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
May.....	18	0	8.91	548
June.....	18	15	16.1	958
July.....	23	14	18.5	1,140
August.....	23	17	20.3	1,250
September.....	17	12	15.0	893
The year.....	23	0	6.60	4,790

NOTE.—No flow Oct. 1 to May 8.

WOOD RIVER AT FORT KLAMATH, OREG.

LOCATION.—Staff gage in sec. 22, T. 33 S., R. 7½ E., at highway bridge one-fourth mile east of Fort Klamath.

RECORDS AVAILABLE.—August, 1911, to September, 1927. Incomplete.

EXTREMES.—Maximum discharge during year, 288 second-feet December 1, 2, and 4 (gage height, 2.0 feet); minimum, 151 second-feet October 10 (gage height, 1.04 feet).

1911-1927: Maximum discharge, estimated 600 second-feet November 23-25, 1921 (gage height, 4.0 feet); minimum, 120 second-feet several days in June, July, and August, 1926.

REMARKS.—Records fair. Discharge estimated December 5-11. Considerable diversion for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	172	179	288	186	179	200	214	228	194	218	218	206
2.....	179	179	288	200	186	200	200	214	206	206	218	206
3.....	179	179	273	186	186	200	200	214	206	206	206	206
4.....	179	172	288	200	179	200	200	214	218	194	206	206
5.....	179	172		214	179	186	200	214	218	206	206	218
6.....	179	172		214	179	200	200	214	218	194	206	218
7.....	179	172		186	172	200	200	214	218	194	218	218
8.....	179	172	244	186	172	200	200	214	230	206	218	230
9.....	179	172		186	172	186	200	214	218	206	206	230
10.....	151	172		179	172	186	200	228	230	206	206	230
11.....	186	172		179	172	186	200	214	242	206	206	230
12.....	165	172	200	179	172	186	200	214	242	218	206	242
13.....	172	179	200	179	172	200	200	214	267	218	206	242
14.....	179	172	200	179	172	200	200	243	267	218	206	242
15.....	179	200	186	200	186	200	200	238	280	230	206	242
16.....	186	186	179	179	186	200	200	258	267	230	206	242
17.....	186	186	186	179	179	200	200	258	254	230	206	242
18.....	186	186	186	186	179	186	214	200	242	230	206	242
19.....	186	186	186	179	179	186	214	200	242	230	206	242
20.....	186	200	186	172	186	186	214	200	267	218	206	242
21.....	186	186	179	165	186	200	214	200	254	206	206	242
22.....	186	200	179	165	186	200	214	200	254	206	206	242
23.....	186	214	186	165	200	214	214	200	267	206	206	242
24.....	186	258	179	172	200	214	214	179	267	206	206	242
25.....	186	214	186	179	214	214	214	179	267	206	206	242
26.....	179	214	179	179	200	200	214	200	254	218	206	242
27.....	179	228	179	172	200	214	214	194	242	242	206	242
28.....	179	258	179	172	200	228	214	194	242	230	206	242
29.....	179	258	179	172		214	214	194	242	218	206	242
30.....	179	273	179	172		214	214	194	218	206	206	242
31.....	179		179	172		214		194		206	206	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	186	151	179	11,000
November.....	273	172	196	11,700
December.....	288	179	211	13,000
January.....	214	165	182	11,200
February.....	214	172	184	10,200
March.....	228	186	200	12,300
April.....	214	200	207	12,300
May.....	258	179	211	13,000
June.....	280	194	241	14,300
July.....	242	194	213	13,100
August.....	218	206	208	12,800
September.....	242	206	233	13,900
The year.....	288	151	205	149,000

ANNA CREEK NEAR FORT KLAMATH, OREG.

LOCATION.—Staff gage in sec. 36, T. 32 S., R. 6 E., at sawmill 3 miles below boundary of Crater Lake National Park and 6 miles northwest of Fort Klamath.

RECORDS AVAILABLE.—November, 1922, to September, 1927. Discontinued.

EXTREMES.—Maximum stage during year, 3.26 feet, owing to breaking of log dam, June 6 (discharge not determined); maximum natural discharge, 179 second-feet June 21; minimum discharge occurred during period of no record.

1922-1927: Maximum stage and discharge, those of 1927; minimum discharge recorded, 35 second-feet January 7, 1925, January 13 and September 25-27, 1926, and April 9, 1927. Lower discharges probably occurred during periods of no record.

REMARKS.—Records poor. No record October 1 to May 17 and August 1 to September 30. Regulation caused by operation of flashboards at log pond just above. No diversions above station.

Daily and monthly discharge, in second-feet, 1927

Day	May	June	July	Day	May	June	July	Day	May	June	July
1.....		90	134	11.....		140	128	21.....	64	158	104
2.....		86	129	12.....		158	128	22.....	64	165	104
3.....		92	133	13.....		146	122	23.....	70	158	98
4.....		134	136	14.....		140	122	24.....	75	152	98
5.....		110	140	15.....		140	122	25.....	75	146	98
6.....		158	140	16.....		152	116	26.....	75	140	98
7.....		165	146	17.....		152	116	27.....	70	134	
8.....		158	134	18.....	70	146	116	28.....	70	129	
9.....		134	124	19.....	75	146	110	29.....	70	134	92
10.....		152	128	20.....	70	152	104	30.....	70	129	
								31.....	70		
Month				Maximum		Minimum		Mean		Run-off in acre-feet	
May 18-31.....				75		64		70.6		1,960	
June.....				165		86		140		8,380	
July.....				146				116		7,130	

FOURMILE LAKE RESERVOIR NEAR ODESSA, OREG.

LOCATION.—Staff gage in NW. ¼ 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.

RECORDS AVAILABLE.—June, 1923, to September, 1927, occasional readings.

EXTREMES.—Maximum elevation during year, 5,999.30 feet July 16 (contents, 12,710 acre-feet); minimum contents, estimated 500 acre-feet October 1.

1923-1927: Maximum elevation, that of July 16, 1927; minimum contents, estimated 450 acre-feet September 15, 1926.

REMARKS.—Water turned out of reservoir is diverted a few hundred feet below dam into Cascade Canal, which conveys it over the divide into the drainage basin of Fish Lake in the Rogue River Basin. Gage-height record furnished by Public Water Co.

Elevation and contents, 1926-27

Date	Elevation	Contents	Gain or loss during month	Date	Elevation	Contents	Gain or loss during month
	Feet	Acre-feet	Acre-feet		Feet	Acre-feet	Acre-feet
Sept. 30.....		470		May 31.....	5,993.90	8,460	+3,460
Oct. 31.....		600	+130	June 30.....		12,400	+3,940
Nov. 30.....		2,200	+1,600	July 31.....	5,997.35	11,068	-1,332
Dec. 31.....		3,280	+1,080	Aug. 31.....		8,160	-2,908
Jan. 31.....		3,670	+420	Sept. 30.....		8,450	+280
Feb. 28.....		4,000	+330				
Mar. 31.....		4,400	+400	The year.....			+7,980
Apr. 30.....		5,000	+600				

NOTE.—Contents at end of month estimated from occasional gage readings, except that for May and July.

CASCADE CANAL NEAR FISH LAKE, OREG.

LOCATION.—Water-stage recorder in SE. $\frac{1}{4}$ sec. 30, T. 36 S., R. 5 E., at divide between Rogue River and Klamath River Basins, 3 miles above Fish Lake.

RECORDS AVAILABLE.—June, 1924, to September, 1927; irrigation seasons only.

EXTREMES.—Maximum discharge during year, 30 second-feet August 12 and 18–21 (gage height, 1.45 feet); canal dry at times.

1924–1927: Maximum discharge, 42 second-feet August 6, 7, 9, and 10, 1924 (gage height, 1.72 feet).

REMARKS.—Records fair. This canal diverts water from Fourmile Creek in the Klamath River Basin and discharges into Fish Lake in the Rogue River Basin. The gaging station is 10 miles below the point of diversion. About $1\frac{1}{2}$ miles above Fish Lake is a lava bed into which the entire flow sinks, reappearing in the springs at the head of Fish Lake. Gage-height record furnished by the Public Water Co.

Daily and monthly discharge, in second-feet, 1926–27

Day	May	June	July	Aug.	Day	May	June	July	Aug.
1.....			0	25	16.....			0	29
2.....			0	25	17.....			8	29
3.....			0	25	18.....			14	30
4.....			0	25	19.....			17	30
5.....			0	25	20.....			18	30
6.....			0	26	21.....	3		19	30
7.....			0	27	22.....		3	20	14
8.....			0	27	23.....			21	0
9.....			8	27	24.....		5	24	0
10.....			0	27	25.....			24	0
11.....			0	28	26.....			24	0
12.....			0	30	27.....			23	0
13.....			0	29	28.....			23	0
14.....			0	29	29.....		3	24	0
15.....		6	0	29	30.....			25	0
					31.....	2		25	0
Month					Maximum	Minimum	Mean	Run-off in Acre-feet	
July.....					25	0	10.0	615	
August.....					30	0	19.2	1,180	

NOTE.—Some flow in canal in May and June, owing to melting of snow above. Water released into canal from Fourmile Lake Reservoir July 17 to Aug. 22. No flow Oct. 1 to Apr. 30 and Aug. 23 to Sept. 30.

"A" CANAL AT KLAMATH FALLS, OREG.

LOCATION.—Water-stage recorder in NE. $\frac{1}{4}$ sec. 30, T. 38 S., R. 9 E., 300 feet below head gates of canal and 1 mile northwest of Klamath Falls.

RECORDS AVAILABLE.—Irrigation seasons, 1911-1927.

EXTREMES.—Maximum discharge during year, 730 second-feet June 25 (gage height, 9.62 feet); canal dry October 1 to April 23.

1911-1927: Maximum discharge, 800 second-feet June 27, 1925 (gage height, 10.72 feet).

REMARKS.—Records good. "A" canal diverts water from Link River immediately below outlet of Upper Klamath Lake, in NE. $\frac{1}{4}$ sec. 30, T. 38 S., R. 9 E., for irrigating lands east of Klamath River on both sides of Lost River. Most of the return waters reach Lost River. Records furnished by United States Bureau of Reclamation.

Daily and monthly discharge, in second-feet, 1926-27

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1.....	0	19	348	620	568	131	16.....	0	192	358	677	319	89
2.....	0	20	372	620	578	160	17.....	0	214	379	660	309	89
3.....	0	21	407	578	606	160	18.....	0	316	351	653	282	94
4.....	0	28	429	535	613	137	19.....	0	379	367	677	330	118
5.....	0	37	450	525	613	120	20.....	0	372	397	691	372	124
6.....	0	42	485	559	599	120	21.....	0	337	426	677	345	152
7.....	0	70	535	613	578	120	22.....	0	347	528	684	365	162
8.....	0	89	556	663	549	121	23.....	0	348	639	698	372	170
9.....	0	110	578	670	521	141	24.....	40	369	667	698	372	168
10.....	0	132	606	687	500	124	25.....	46	373	710	695	337	138
11.....	0	132	602	702	497	113	26.....	41	361	690	695	317	117
12.....	0	141	593	681	450	112	27.....	42	355	667	687	316	116
13.....	0	172	606	664	372	103	28.....	30	358	665	656	268	116
14.....	0	172	627	662	345	96	29.....	28	340	642	649	240	117
15.....	0	178	435	677	336	95	30.....	25	323	619	613	201	87
							31.....		337		582	182	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
April.....	46	0	8.4	500
May.....	379	19	216	13,300
June.....	710	348	525	31,200
July.....	702	525	650	40,000
August.....	613	182	409	25,100
September.....	170	87	124	7,380
The year.....	710	0	162	117,000

NOTE.—No flow Oct. 1 to Apr. 23.

KENO CANAL AT KLAMATH FALLS, OREG.

LOCATION.—Staff gage in NE. $\frac{1}{4}$ sec. 31, T. 38 S., R. 9 E., 200 feet above penstock to west side plant of California Oregon Power Co., a quarter of a mile above Link River bridge at Klamath Falls.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum daily discharge during year, 231 second-feet June 30; minimum, 136 second-feet October 16.

REMARKS.—Discharge determined from record of electrical output of power plant 200 feet below gage. This canal diverts water from Upper Klamath Lake at the Link River storage dam in SW. $\frac{1}{4}$ sec. 30. Water is used for developing power and returned to Link River in NE. $\frac{1}{4}$ sec. 31. Flow is controlled by gates at head of canal. Gage-height record and electrical record furnished by California Oregon Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	198	214	244	247	254	267	249	236	261	254	249	243
2	207	211	252	245	268	263	246	238	261	251	243	245
3	206	211	249	247	268	265	249	236	261	251	245	241
4	208	211	245	245	261	261	251	234	261	249	245	238
5	210	208	246	236	268	263	261	235	258	256	243	236
6	197	206	248	238	263	261	253	235	256	254	243	238
7	201	211	229	241	261	259	251	235	258	249	245	249
8	194	210	234	238	263	261	251	233	258	249	245	241
9	155	212	226	239	261	258	251	231	255	247	241	235
10	180	202	237	235	268	259	249	231	261	238	238	236
11	192	164	246	235	263	259	249	231	263	243	234	236
12	205	192	244	236	261	255	249	230	263	243	232	235
13	207	200	249	236	259	236	243	228	258	239	241	234
14	191	205	249	233	259	255	241	228	261	238	243	236
15	188	203	252	235	264	252	241	190	263	236	243	199
16	136	220	253	236	264	247	241	249	266	245	245	227
17	205	215	253	236	261	246	240	236	266	245	245	256
18	222	209	264	264	264	246	241	247	263	247	245	258
19	211	211	254	233	271	245	241	263	263	249	241	254
20	210	211	252	236	266	245	237	261	261	247	245	264
21	208	205	253	173	258	245	237	263	261	245	247	246
22	204	216	264	226	269	245	236	263	258	243	243	246
23	205	217	258	239	271	245	238	266	256	239	241	254
24	207	227	253	232	276	243	238	263	245	238	243	258
25	211	172	262	235	271	245	237	261	249	238	247	256
26	214	189	251	243	271	242	235	263	185	243	247	258
27	218	224	251	245	271	239	234	263	243	239	245	258
28	218	222	205	254	267	240	237	268	247	247	243	247
29	214	217	236	247	-----	242	238	261	220	247	243	263
30	214	211	247	251	-----	240	236	263	281	254	241	261
31	212	-----	249	254	-----	245	-----	263	-----	247	243	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	222	136	202	12,400
November	224	164	208	12,400
December	254	205	240	15,100
January	254	173	237	14,600
February	276	254	264	14,700
March	267	239	251	15,400
April	253	234	243	14,600
May	266	190	245	15,100
June	281	185	256	15,200
July	256	236	245	15,100
August	249	192	243	14,900
September	263	199	245	14,600
The year	281	136	240	174,000

LOST RIVER DIVERSION CANAL NEAR OLENE, OREG.

LOCATION.—Water-stage recorder in SE. ¼ sec. 30, T. 38 S., R. 10 E., a quarter of a mile below intake of canal at Lost River Dam and 4 miles below Olene.

RECORDS AVAILABLE.—May, 1912, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 232 second-feet March 1 (gage height, 3.45 feet); canal dry June 23 and 24.

1912-1927: Maximum discharge, 508 second-feet February 28, 1914.

REMARKS.—Records fair. Discharge estimated October 1, 3-5; 10, 22, November 9, 15, 16, 22-26, December 3-5, and June 28 to July 4. This canal diverts water from Lost River and discharges into Klamath River to assist in the reclamation of bed of Tule Lake. Records furnished by United States Bureau of Reclamation.

Daily and monthly discharge, in second-feet, 1912-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	86	90	212	124	124	232	208	191	106	98	74	42
2.....	96	88	217	132	127	231	216	196	102	97	70	41
3.....	98	87	208	142	134	227	218	209	101	99	71	42
4.....	101	86	212	146	152	220	218	213	101	95	70	43
5.....	104	86	215	156	186	215	219	197	97	97	70	64
6.....	107	92	212	169	205	213	219	178	92	98	73	76
7.....	108	100	210	175	205	212	217	165	85	95	74	75
8.....	109	103	207	178	205	212	213	159	81	97	77	79
9.....	117	102	206	178	205	215	209	134	80	97	76	85
10.....	117	102	206	176	207	213	208	137	72	95	75	89
11.....	117	100	207	176	205	214	210	136	64	95	76	131
12.....	117	102	204	178	203	218	218	142	63	95	74	171
13.....	116	103	201	178	197	223	218	144	69	95	67	122
14.....	114	103	195	175	189	224	212	129	72	95	67	125
15.....	111	102	187	173	181	225	211	70	95	95	66	126
16.....	112	102	181	172	175	205	213	50	89	95	69	126
17.....	111	102	171	170	170	207	216	46	73	95	81	128
18.....	112	102	168	165	175	211	211	21	40	98	76	129
19.....	112	105	162	162	178	213	216	127	25	97	67	128
20.....	111	110	160	157	196	212	218	126	28	90	66	126
21.....	116	110	157	153	213	210	216	128	31	90	62	125
22.....	107	114	153	149	223	206	218	126	24	89	62	123
23.....	104	124	150	144	226	204	218	116	0	89	66	120
24.....	102	129	145	141	226	196	212	102	0	88	51	120
25.....	101	135	142	135	227	190	209	102	5	88	44	118
26.....	98	142	137	125	225	185	208	102	32	89	42	117
27.....	98	165	132	126	226	175	201	108	48	83	40	117
28.....	95	173	128	125	229	172	195	118	60	79	40	117
29.....	98	181	126	123	-----	178	194	111	88	84	40	117
30.....	92	207	124	123	-----	189	191	108	95	83	42	117
31.....	91	-----	123	124	-----	196	-----	107	-----	81	42	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	117	86	105	6,460
November.....	207	86	115	68,400
December.....	217	123	176	10,800
January.....	178	123	153	9,410
February.....	229	124	194	10,800
March.....	232	172	208	12,800
April.....	219	191	211	12,600
May.....	213	21	129	7,020
June.....	106	0	63.8	3,800
July.....	99	76	92.3	5,680
August.....	81	40	63.6	3,910
September.....	128	41	102	6,070
The year.....	232	0	134	97,100

JENNY CREEK NEAR COPEO, CALIF.

LOCATION.—Water-stage recorder in sec. 35, T. 43 N., R. 5 W., 200 yards above highway, half a mile above mouth, and 2¼ miles west of Fall Creek power house and Copco post office.

RECORDS AVAILABLE.—November, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,960 second-feet February 20 (gage height, 8.16 feet). Minimum discharge, 4 second-feet August 12-27; minimum gage height, 0.48 foot, August 20.

1922-1927: Maximum discharge, that of February 20, 1927; creek dry August 13-15, 1926.

REMARKS.—Records fair. Two small irrigation ditches divert water around gage. Water stored in Hyatt Prairie Reservoir is diverted into Emigrant Creek Basin for Talent Irrigation District. Gage-height record furnished by The California Oregon Power Co.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	5.8	7.6	520	62	197	473	500	581	152	29	7	6
2.....	5.8	7.6	597	• 600	• 250	608	980	527	131	27	6	6
3.....	6.2	7.3	597	• 450	• 350	473	391	473	119	25	6	6
4.....	5.2	7.3	353	331	320	447	691	447	114	24	6	6
5.....	4.8	7.3	266	342	266	408	622	447	105	22	6	6
6.....	5.0	7.3	266	421	225	395	581	447	99	20	6	6
7.....	5.4	7.3	225	287	205	395	540	447	86	17	6	7
8.....	6.0	7.3	188	235	180	395	514	421	82	15	6	8
9.....	6.8	7.3	147	225	161	382	473	382	75	14	5	7
10.....	16	7.6	134	197	149	353	473	358	67	14	5	7
11.....	11	9.4	133	180	133	345	447	358	66	13	5	7
12.....	9.1	17	139	169	132	370	434	333	65	13	4	8
13.....	7.9	21	115	161	118	460	421	321	62	13	4	9
14.....	6.8	18	63	152	122	447	408	338	58	13	4	9
15.....	6.8	16	73	161	130	408	421	333	58	12	4	9
16.....	7.0	15	75	152	142	370	408	338	50	10	• 4	8
17.....	8.2	• 15	106	134	163	395	395	309	44	10	4	7
18.....	7.6	• 15	197	133	470	395	382	290	41	9	4	7
19.....	7.0	• 200	130	139	320	358	358	295	39	9	4	7
20.....	7.0	225	90	147	1,220	345	345	273	37	8	4	7
21.....	7.0	81	86	120	1,250	358	345	269	36	8	4	7
22.....	7.3	59	78	102	920	382	370	245	• 25	7	4	7
23.....	7.3	66	55	105	747	395	421	213	• 24	7	4	7
24.....	7.3	• 100	59	• 120	608	434	486	186	33	7	4	7
25.....	7.3	• 200	80	136	594	421	581	178	32	8	4	8
26.....	7.0	• 600	65	138	594	408	649	189	38	8	4	7
27.....	7.0	266	59	142	514	421	719	175	43	7	4	7
28.....	7.0	276	51	188	473	421	719	• 174	43	7	5	7
29.....	7.0	571	51	160	-----	395	663	173	36	6	8	8
30.....	7.0	1,080	50	147	-----	408	668	162	32	7	6	9
31.....	7.3	-----	48	149	-----	408	-----	146	-----	7	6	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	16	4.8	7.22	444
November.....	1,080	7.3	131	7,830
December.....	597	48	164	10,160
January.....	600	62	200	12,360
February.....	1,250	118	391	21,760
March.....	608	345	409	25,190
April.....	980	345	528	31,460
May.....	581	146	317	18,560
June.....	152	32	68.4	3,720
July.....	29	6	12.8	787
August.....	8	4	4.9	301
September.....	9	6	7.2	428
The year.....	1,250	4	185	134,000

• Estimated.

HYATT PRAIRIE RESERVOIR NEAR ASHLAND, OREG.

LOCATION.—Staff gage in SW $\frac{1}{4}$ 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 elevations above mean sea level.

RECORDS AVAILABLE.—December, 1922, to September, 1927.

EXTREMES.—Maximum elevation during year, 5,011.5 feet June 14-17 (contents, 12,365 acre-feet); minimum contents (estimated), 200 acre-feet October 1.

1922-1927: Maximum elevation, that of June 14-17, 1927; minimum, 4,981.99 feet August 4, 1926 (contents, 2 acre-feet).

REMARKS.—Gage-height record furnished by Talent Irrigation District.

Monthly contents, in acre-feet, 1926-27

Month	Contents	Gain or loss in storage	Month	Contents	Gain or loss in storage
September 30.....	* 200	-----	May 31.....	12,049	+3,504
October 31.....	* 250	+50	June 30.....	11,950	-90
November 30.....	* 1,400	+1,150	July 31.....	10,739	-1,211
December 31.....	* 3,000	+1,600	August 31.....	9,357	-1,382
January 31.....	* 3,870	+870	September 30.....	* 9,055	-302
February 28.....	* 4,710	+840			
March 31.....	* 6,000	+1,290	The year.....	-----	+8,855
April 30.....	8,536	+2,536			

* Interpolated.

KEENE CREEK CANAL NEAR ASHLAND, OREG.

LOCATION.—Water-stage recorder and staff gage in NW. $\frac{1}{4}$ 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, 1927.

EXTREMES.—Maximum discharge during year, 23 second-feet July 21 (gage height, 1.18 feet); canal dry at times.

1923-1927: Maximum discharge, 75 second-feet July 8, 1926.

REMARKS.—Records good above 2 second-feet and fair below. This canal diverts from Keene Creek in SE. $\frac{1}{4}$ 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. Run-off November to May 18 was inflow to Keene Creek below Hyatt Prairie Reservoir, stored water being released May 19 to September 30. Gage-height record furnished by Talent Irrigation District.

Daily and monthly discharge, in second-feet, 1926-27

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	0						*1.2	3.8	8.2	16	8.4
2.	0		3.3				*1.2	3.3	8.4	16	8.0
3.	0						*1.2	3.1	8.4	19	9.3
4.	0					1.0	1.2	2.5	8.4	19	9.2
5.	0	2.0					*1.1	2.4	8.4	19	9.2
6.	0			0	0.7		*1.0	2.2	8.4	19	9.7
7.	0						*.8	2.2	8.4	15	10
8.	0						.7	2.7	10	15	9.4
9.	0		4.1				*.7	2.4	14	15	7.9
10.	0					.7	.7	2.0	14	15	7.4
11.							.7	1.9	14	15	7.4
12.		.8					*.7	2.5	13	15	4.7
13.				0	.7		*.7	3.6	13	15	4.7
14.	.2						.7	3.8	12	15	4.9
15.							.7	6.0	12	15	4.5
16.							.7	8.4	13	15	4.5
17.						1.2	.7	10	14	15	4.2
18.							1.5	10	18	15	3.6
19.		.8					7.2	10	18	15	3.8
20.					.7		8.7	10	18	14	3.4
21.	.6			.7			5.6	11	23	14	3.4
22.							6.3	17	22	14	3.3
23.			2.0				4.2	16	22	19	3.4
24.						1.0	3.8	16	22	19	3.8
25.							3.6	16	22	19	3.4
26.							3.4	16	22	19	3.3
27.		.8		2.0	1.2		3.3	15	19	19	3.4
28.	2.0						4.2	11	19	19	3.8
29.							4.5	11	18	17	3.3
30.			1.4			1.2	4.0	19	16	12	4.0
31.							3.6		16	8.9	

Month	Maximum	Minimum	Mean	Run-off in acre-feet
November		0	*0.6	36
December			*1.1	68
January			*2.7	166
February			*.7	39
March			*.8	49
April			*1.0	60
May	8.7	.7	2.50	154
June	17	1.9	7.73	460
July	23	3.2	14.9	916
August	19	8.9	16.0	984
September	10	3.3	5.69	339
The year	23	0	4.52	3,270

* Estimated.

NOTE.—No flow in October. No record on other days for which no figures are given.

SHASTA RIVER NEAR MONTAGUE, CALIF.

LOCATION.—Water stage recorder in N. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 33, T. 45 N., R. 6 W., at highway bridge $\frac{1}{4}$ miles southwest of Montague. Little Shasta River enters 1 mile above and Yreka Creek $\frac{5}{8}$ miles below station.

RECORDS AVAILABLE.—August, 1911, to September, 1913; September, 1918, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,210 second-feet November 30 (gage height, 10.78 feet); minimum, 9.5 second-feet July 27.

1911-1913, 1916-1927: Maximum discharge, 3,700 second-feet February 11, 1925 (gage height, 14.9 feet); minimum, 1.0 second-foot July 11, 1925.

REMARKS.—Records good except those for October 1-3, December 11-13, April 8, 9, June 26, July 29, 30, and September 13-16, which were estimated. Several diversions for irrigation above station.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	85	116	2,060	228	225	452	284	315	168	48	34	30
2	115	118	1,600	319	342	576	304	260	148	42	22	38
3	110	118	1,480	442	312	666	594	248	137	32	19	40
4	110	107	1,080	406	470	576	522	218	155	27	18	44
5	111	96	835	383	375	522	420	205	106	32	20	46
6												
7	111	101	750	470	340	470	378	222	181	35	19	47
8	110	106	759	470	326	445	344	202	201	30	21	49
9	106	111	612	386	298	414	383	330	222	28	15	53
10	110	111	522	350	260	410	382	242	260	32	14	54
11	125	113	487	336	270	396	400	194	228	28	15	58
12												
13	140	120	452	326	260	305	448	188	211	20	15	59
14	129	174	417	322	256	358	452	184	205	13	18	55
15	118	260	382	305	246	378	406	194	211	17	20	60
16	113	256	347	288	239	406	354	252	239	17	20	68
17	116	239	322	270	265	382	312	316	184	27	15	70
18												
19	116	215	319	294	346	364	274	392	174	34	18	76
20	118	188	319	284	252	358	260	417	164	32	18	82
21	116	177	316	274	354	330	249	378	115	34	15	85
22	116	177	298	280	666	305	235	312	99	34	14	108
23	116	166	291	291	957	298	222	249	96	36	15	111
24												
25	118	246	291	270	1,880	298	205	206	106	35	12	116
26	118	263	284	228	1,100	298	191	161	194	30	12	110
27	118	277	266	222	816	302	198	118	85	16	15	115
28	115	400	256	265	666	305	228	116	80	17	33	118
29	113	721	263	232	612	308	284	161	87	18	34	116
30												
31	113	977	256	228	648	312	350	123	64	34	36	116
1	113	1,310	252	232	576	316	438	161	101	16	38	112
2	113	702	249	246	504	308	487	191	152	14	41	118
3	113	632	263	256	-----	284	420	206	88	25	50	118
4	115	2,780	266	235	-----	277	361	201	62	26	45	120
5	115	-----	246	232	-----	270	-----	177	-----	38	42	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	140	35	115	7,070
November	2,780	96	380	22,000
December	2,060	246	536	33,000
January	470	222	301	15,505
February	1,880	225	490	27,200
March	666	270	378	23,200
April	594	191	348	20,700
May	417	101	235	14,400
June	260	62	151	8,650
July	48	14	27.0	1,600
August	50	12	23.3	1,430
September	120	38	79.4	4,720
The year	2,780	12	263	183,000

SEMITT RIVER AT LEWISTON, CALIF.

LOCATION.—Staff gage in NE. $\frac{1}{4}$ sec. 19, T. 33 N., R. 8 W., at highway bridge at Lewiston, 9 miles below Stewart's Fork. Indian Creek enters 6 miles below station.

RECORDS AVAILABLE.—August, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, about 31,900 second-feet November 30 (gage height, 18.3 feet); minimum, 92 second-feet October 1, 1911-1927; Maximum discharge, that of November 30, 1926; minimum, 28 second-feet July 30, 1924.

REMARKS.—Records good. Water is diverted above station for irrigation, placer mining, and power development.

Daily and monthly discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	103	155	15,800	870	2,140	4,120	3,700	5,380	3,380	1,400	400	204
2	138	155	20,300	4,120	4,120	5,080	5,950	4,120	3,280	1,450	378	195
3	136	155	17,500	4,860	7,520	4,700	6,900	4,120	3,700	1,250	378	193
4	133	160	8,570	3,280	4,030	4,120	5,200	4,480	3,840	1,100	355	193
5	126	150	5,740	3,560	3,840	3,840	4,260	4,790	4,120	1,080	335	193
6	121	154	4,120	4,400	3,280	3,560	3,700	4,860	4,700	1,080	335	193
7	119	154	3,380	3,140	2,770	3,280	3,560	4,480	4,700	1,080	315	180
8	119	154	2,600	2,550	2,550	3,280	3,280	3,760	5,280	1,080	315	180
9	133	154	2,840	2,840	2,240	3,280	3,010	3,560	4,480	1,010	285	180
10	555	149	2,140	2,140	2,040	3,140	2,650	3,840	4,260	1,010	275	180
11	368	202	1,940	2,550	1,940	3,860	2,550	3,990	4,440	940	275	180
12	264	285	1,940	2,340	1,850	2,550	2,340	4,400	4,120	940	258	180
13	270	475	1,760	2,140	1,760	3,590	2,340	5,930	3,980	940	258	180
14	270	368	1,580	1,940	1,670	3,840	2,340	3,980	3,980	885	258	175
15	310	310	1,490	1,340	1,940	3,280	2,440	10,500	3,700	800	240	175
16	400	362	1,400	2,340	2,440	3,390	3,550	10,500	3,420	785	240	175
17	410	364	1,580	2,140	3,140	2,770	2,440	7,520	8,010	735	231	165
18	337	360	1,490	2,040	6,900	2,440	2,550	5,380	2,770	735	225	171
19	278	2,130	1,400	2,040	4,860	2,340	2,550	4,400	2,580	702	210	165
20	284	5,670	1,320	1,940	7,310	2,140	2,550	3,840	2,580	670	213	165
21	216	2,360	1,320	1,940	15,500	2,340	2,770	2,280	2,680	610	210	165
22	195	2,990	1,240	1,670	5,380	2,770	3,280	8,010	2,580	610	204	165
23	189	3,120	1,160	1,690	6,900	3,280	4,400	3,140	2,140	580	196	165
24	186	8,100	1,080	1,580	5,930	3,700	5,740	5,580	1,940	580	196	165
25	177	5,860	1,080	1,400	5,030	3,700	7,520	4,260	1,850	523	192	165
26	180	6,750	1,080	1,400	7,100	3,700	9,420	4,260	1,780	470	192	165
27	186	5,650	1,010	1,580	5,380	3,840	9,860	3,840	1,580	470	186	165
28	183	4,230	940	2,240	4,400	3,280	7,940	2,010	1,400	432	192	165
29	177	9,340	940	2,040	-----	3,140	6,900	2,680	1,400	422	213	175
30	171	29,600	940	1,850	-----	3,010	5,740	2,680	1,680	470	219	165
31	171	-----	905	1,850	-----	3,280	-----	2,440	-----	422	210	-----

Month	Maximum	Minimum	Mean	Run-off in acre-feet
October	555	108	222	13,800
November	20,600	149	3,522	180,000
December	20,300	805	3,580	220,000
January	4,860	870	2,380	142,000
February	16,500	1,670	4,900	205,000
March	5,030	2,140	3,420	204,000
April	9,860	2,340	4,850	207,000
May	10,500	2,440	4,670	207,000
June	5,200	1,400	3,100	186,000
July	1,400	422	812	46,000
August	460	186	268	15,000
September	204	153	174	10,000
The year	20,600	108	2,520	1,680,000

MISCELLANEOUS DISCHARGE MEASUREMENTS

Measurements of stream flow in the Pacific slope basins in California at points other than gaging stations are listed in the following table:

Miscellaneous discharge measurements in Pacific slope basins in California during the year ending September 30, 1927

Between mouth of San Francisco Bay

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	Sec.-ft.
Mar. 11	Tia Juana River	Pacific Ocean	At bridge near Nestor, Calif.		1,300
19	do	do	do		551
25	do	do	do		284
Apr. 3	do	do	do		358
10	do	do	do		114
24	do	do	do		181
May 1	do	do	do		68
8	do	do	do		91
15	do	do	do		21
22	do	do	do		10
30	do	do	do		11
June 23	do	do	do		0
Oct. 1	San Diego River	do	El Capitan dam site near Lakeside, Calif.		2.2
8	do	do	do		1
30	do	do	do		1
Nov. 13	do	do	do		2
27	do	do	do		3
Dec. 11	do	do	do		127
18	do	do	do		6.4
24	do	do	do		30
31	do	do	do		22
Jan. 8	do	do	do		18
15	do	do	do		2.9
22	do	do	do		20
29	do	do	do		8
Feb. 8	do	do	do		4
12	do	do	do		58
May 28	do	do	do		42
Aug. 30	do	do	do		2
Dec. 11	do	do	Lakeside, Calif.		12
Feb. 20	do	do	do	1.50	900
Mar. 5	do	do	do	1.89	459
19	do	do	do	1.80	618
29	do	do	do	1.85	181
Dec. 11	do	do	Riverview near Lakeside, Calif.		10
Jan. 22	do	do	do		1
Feb. 8	do	do	do		1
Aug. 30	Boulder Creek	San Diego River	Mouth near Lakeside, Calif.	1.28	19
Sept. 2	do	do	do	1.28	13
Aug. 30	Cuyamaca flume	Diverts from San Diego River	Diverting dam near Lakeside, Calif.	1.07	15
Sept. 2	do	do	do	.28	1.8
Nov. 17	do	do	Los Coches near Lakeside, Calif.	.82	5.7
27	do	do	Grosmont, Calif.	.28	9
Dec. 11	San Vicente Creek	San Diego River	Forster, Calif.		1
Mar. 6	do	do	do	.60	133
10	do	do	do	.48	103
13	do	do	do		82
20	do	do	do		42
27	do	do	do		30
Apr. 2	do	do	do		37
8	do	do	do		25
16	do	do	do		32
25	do	do	do		10
29	do	do	do		14
May 7	do	do	do		25
12	do	do	do		8.2
20	do	do	do		6.2
28	do	do	do		3.2
June 11	do	do	do		4.0
24	do	do	do		1
Mar. 5	do	do	Mouth near Lakeside, Calif.		210

* Float measurement.

* Estimated.

Miscellaneous discharge measurements in Pacific slope basins in California during the year ending September 30, 1927—Continued

Streams south of San Francisco Bay—Continued

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
May 11	Santa Ysabel Creek	San Dieguito River	Dam site near Mesa Grande, Calif.	Foot	Sec. ft. 44
22	do	do	Abandoned station near Ramona, Calif.		86
Oct. 8	Tamecula Creek	Santa Margarita River	Upper diversion near Tamecula, Calif.		.88
15	do	do	do		.88
22	do	do	do		.95
29	do	do	do		.76
Nov. 6	do	do	do		2.8
19	do	do	do		.73
18	do	do	do		.88
Oct. 1	Santa Margarita River	Pacific Ocean	Deluz, Calif.		1.0
9	do	do	do		1.8
16	do	do	do		1.1
29	do	do	do		2.2
Nov. 6	do	do	do		4.8
13	do	do	do		6.7
24	do	do	do		8.0
27	do	do	do		18
Dec. 11	do	do	do		16
24	do	do	do		22
Mar. 29	do	do	do		48
Apr. 6	do	do	do		41
June 14	do	do	do		8
29	do	do	do		8.0
July 6	do	do	do		2.2
16	do	do	do		3.4
21	do	do	do		2.6
Aug. 2	do	do	do		1.8
10	do	do	do		1.4
18	do	do	do		1.0
30	do	do	do		1.4
Sept. 15	do	do	do		2.1
21	do	do	do		3.2
Jan. 17	Arroyo Seco	Tamecula Creek	Mouth near Tamecula, Calif.		.2
Feb. 1	do	do	do		.8
9	do	do	do		.1
15	do	do	do		118
Mar. 12	do	do	do		11
16	do	do	do		6.4
30	do	do	do		7.8
June 13	do	do	do		.3
23	do	do	do		.1
July 5	do	do	do		.1
13	do	do	do		.1
Aug. 9	do	do	do		.1
17	do	do	do		.1
29	do	do	do		.1
Sept. 12	do	do	do		.1
20	do	do	do		.1
Feb. 9	Murrieta Creek	do	do	0.33	1.2
17	do	do	do		245
17	do	do	do		530
18	do	do	do		91
19	do	do	do		56
20	do	do	do	.88	29
22	do	do	do		24
22	do	do	do		18
24	do	do	do	.13	13
25	do	do	do		11
26	do	do	do	.14	7.1
Mar. 1	do	do	do		2.3
5	do	do	do	.50	12
7	do	do	do		10
8	do	do	do		7.4
12	do	do	do	.23	8.1
17	do	do	do		2.3
21	do	do	do		2.3
28	do	do	do	.50	8.0
29	do	do	do	.59	9.8
30	do	do	do		7.6
31	do	do	do		2.3
Apr. 4	do	do	do		.8
June 13	do	do	do		.9
14	do	do	do	.27	.7
16	do	do	do	.25	

Miscellaneous discharge measurements in Pacific slope basins in California during the year ending September 30, 1937—Continued

Streams south of San Francisco Bay—Continued

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	Sec.-ft.
Aug. 1	Murrieta Creek	Tamencula Creek	Mouth near Tamencula, Calif.	0.20	0.6
9	do.	do.	do.	.20	.6
19	do.	do.	do.	.18	.5
29	do.	do.	do.	.18	.5
Sept. 1	do.	do.	do.	.16	.4
10	do.	do.	do.	.17	.5
20	do.	do.	do.	.13	.3
Oct. 9	O'Neill diversion ditch.	Diverts from Santa Margarita River.	Intake near Home ranch, California.		.33
16	do.	do.	do.		.26
29	do.	do.	do.		2.9
Nov. 26	do.	do.	do.		4.1
13	do.	do.	do.		5.7
24	do.	do.	do.		7.5
Dec. 14	do.	do.	do.		12
24	do.	do.	do.		23
Jan. 17	do.	do.	do.		12
Feb. 1	do.	do.	do.		8.9
9	do.	do.	do.		14
June 14	do.	do.	do.		8.8
29	do.	do.	do.		4.6
July 16	do.	do.	do.		3.8
21	do.	do.	do.		4.1
Aug. 2	do.	do.	do.		2.8
10	do.	do.	do.		1.1
18	do.	do.	do.		1.2
30	do.	do.	do.		.27
Sept. 15	do.	do.	do.		.62
21	do.	do.	do.		2.0
Nov. 24	do.	do.	Gaging station near Home ranch, California.		1.5
Dec. 7	do.	do.	do.		5.5
14	do.	do.	do.		11
24	do.	do.	do.		11
Jan. 7	do.	do.	do.		19
17	do.	do.	do.		11
Feb. 1	do.	do.	do.		11
9	do.	do.	do.		6.5
June 14	do.	do.	do.		3.5
29	do.	do.	do.		8.5
July 6	do.	do.	do.		4.4
16	do.	do.	do.		8.8
30	do.	do.	do.		3.0
Aug. 2	do.	do.	do.		1.7
10	do.	do.	do.		.28
Sept. 15	do.	do.	do.		.28
21	do.	do.	do.		.84
Dec. 3	San Juan Creek	Pacific Ocean	Below State highway, Capistrano, Calif.		.58
Jan. 18	do.	do.	do.	.74	0
31	do.	do.	do.	.69	1.4
Mar. 15	do.	do.	do.		1.1
Aug. 2	Rogers Creek	San Gabriel River	Above Dalton's high line diversion near Azusa, Calif.		.68
3	do.	do.	100 feet below Dalton's high line diversion near Azusa, Calif.		.5
2	do.	do.	Above Dalton's low line diversion near Azusa, Calif.		.46
Oct. 2	Dalton's flume.	Diverts from Rogers Creek.	At Dalton's residence near Azusa, Calif.		.17
Feb. 16	Pacoima Creek	Los Angeles River	3 miles below gaging station, near San Fernando, Calif.		1,530
Oct. 6	Upper diversion	Diverts from Haines Creek.	Near Tujunga, Calif.		.04
Dec. 7	do.	do.	do.	1.56	.07
Jan. 8	do.	do.	do.	1.58	.08
23	do.	do.	do.	1.60	.08
Feb. 10	do.	do.	do.	1.62	.07
Mar. 19	do.	do.	do.	1.76	.13
Apr. 5	do.	do.	do.	1.78	.12
11	do.	do.	do.	1.75	.14
19	do.	do.	do.	1.68	.13
May 17	do.	do.	do.	1.64	.08
June 7	do.	do.	do.	1.66	.07

Miscellaneous discharge measurements in Pacific slope basins in California during the year ending September 30, 1917—Continued

Streams south of San Francisco Bay—Continued

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	Sec.-ft.
July 8	Upper diversion	Diverts from Haines Creek.	Near Tujunga, Calif.	1.64	8.04
31	do	do	do	1.58	.04
Aug. 8	do	do	do	1.56	.04
13	do	do	do	1.56	.63
23	do	do	do	1.56	.63
Sept. 7	do	do	do	1.56	.03
Oct. 6	Lower diversion	do	do	1.56	.03
Dec. 7	do	do	do	1.38	.06
Jan. 8	do	do	do	1.58	.07
28	do	do	do	1.60	.03
Feb. 10	do	do	do	1.62	.16
Mar. 19	do	do	do	1.76	.15
Apr. 5	do	do	do	1.73	.14
11	do	do	do	1.75	.16
19	do	do	do	1.68	.16
May 17	do	do	do	1.64	.16
June 7	do	do	do	1.66	.16
July 8	do	do	do	1.64	.12
31	do	do	do	1.58	.10
Aug. 8	do	do	do	1.56	.10
13	do	do	do	1.56	.10
23	do	do	do	1.56	.10
Sept. 7	do	do	do	1.56	.09
Feb. 9	Santa Ynez River	Pacific Ocean	San Lucas bridge near Santa Ynez, Calif.	1.56	82.00

Kern River Basin

Oct. 25	Salmon Creek	Kern River	Gaging station at mouth	1.32	1.7
Nov. 23	do	do	do	1.40	2.4
Dec. 22	do	do	do	1.41	2.9
Jan. 24	do	do	do	1.49	3.8
Feb. 22	do	do	do	2.37	23
Mar. 28	do	do	do	2.67	48
Apr. 22	do	do	do	2.94	67
May 14	do	do	do	2.42	30
18	do	do	do	2.40	26
24	do	do	do	2.26	19
28	do	do	do	2.19	16
June 1	do	do	do	2.12	15
28	do	do	do	1.80	4.7
July 25	do	do	do		1.4
Aug. 19	do	do	do		1.0
Sept. 18	do	do	do	1.55	1.4

San Joaquin River Basin

Nov. 27	Hooper Creek	South Fork of San Joaquin River.	Near trail crossing about one-fourth mile above mouth.		2.4
Dec. 10	do	do	do		2.0
Mar. 6	do	do	do		2.5
12	Rube Creek	do	Near Cassidy Meadow trail, altitude about 6,500 feet.		4.0
Oct. 2	Iron Creek	North Fork of San Joaquin River.	Gaging station at mouth.	5.75	40
26	do	do	do	5.79	1.9
Nov. 5	do	do	do	5.73	2.8
18	do	do	do	5.93	2.9
Dec. 6	do	do	do	6.13	7.3
31	do	do	do	6.00	2.3
Jan. 3	do	do	do	6.02	2.3
28	do	do	do	5.97	2.7
Feb. 9	do	do	do	6.02	2.4
Mar. 9	do	do	do	6.08	2.4
15	do	do	do	6.09	2.4
Apr. 6	do	do	do	6.15	2.4
14	do	do	do	6.12	2.4
May 3	do	do	do	7.00	2.4
26	do	do	do	7.20	2.4
June 4	do	do	do	7.05	2.4
13	do	do	do	7.25	105

Miscellaneous discharge measurements in Pacific slope basins in California during the year ending September 30, 1932—Continued

San Joaquin River Basin—Continued.

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	Sec.-ft.
July 6	Iron Creek.....	North Fork of San Joaquin River.	Gaging station at mouth.....	6.75	48.
Aug. 1	do.....	do.....	do.....	6.23	11
20	do.....	do.....	do.....	6.05	4.2
28	do.....	do.....	do.....	5.96	2.6
Sept. 22	do.....	do.....	do.....	5.87	1.6
Oct. 26	Cora Lakes Creek.....	do.....	At mouth.....		96
Nov. 19	do.....	do.....	do.....		2
Dec. 6	do.....	do.....	do.....		1.3
31	do.....	do.....	do.....		5
Feb. 10	do.....	do.....	do.....		1.5
Mar. 8	do.....	do.....	do.....		3.9
14	do.....	do.....	do.....		4.6
Apr. 13	do.....	do.....	do.....		4.7
May 4	do.....	do.....	do.....		75
25	do.....	do.....	do.....		71
June 5	do.....	do.....	do.....		180
July 5	do.....	do.....	do.....		5.3
Aug. 1	do.....	do.....	do.....		1
Oct. 21	West Fork of Granite Creek.	Granite Creek.....	Gaging station 1 mile above East Fork.	3.33	1.3
Nov. 4	do.....	do.....	do.....	2.08	2
16	do.....	do.....	do.....	2.37	1.3
Dec. 3	do.....	do.....	do.....	2.66	30
17	do.....	do.....	do.....	2.55	19
Jan. 5	do.....	do.....	do.....	2.54	21
25	do.....	do.....	do.....	2.55	15
Feb. 8	do.....	do.....	do.....	2.74	16
11	do.....	do.....	do.....	2.42	13
Mar. 13	do.....	do.....	do.....	2.94	36
Apr. 4	do.....	do.....	do.....	2.11	44
12	do.....	do.....	do.....	2.96	38
May 5	do.....	do.....	do.....	2.85	384
23	do.....	do.....	do.....	2.60	248
June 1	do.....	do.....	do.....	2.69	246
10	do.....	do.....	do.....	2.35	292
July 1	do.....	do.....	do.....	2.30	128
Aug. 24	do.....	do.....	do.....	2.85	31
19	do.....	do.....	do.....	2.96	9.1
27	do.....	do.....	do.....	2.68	3.6
Sept. 3	do.....	do.....	do.....	2.28	6
25	do.....	do.....	do.....	2.18	1
Oct. 21	do.....	do.....	Gaging station half a mile above East Fork.	3.49	9
Nov. 4	do.....	do.....	do.....	3.26	2
16	do.....	do.....	do.....	2.56	1.5
Dec. 4	do.....	do.....	do.....	4.42	30
17	do.....	do.....	do.....	4.40	19
Jan. 5	do.....	do.....	do.....	4.38	23
25	do.....	do.....	do.....	4.26	18
Feb. 10	do.....	do.....	do.....	4.26	17
14	do.....	do.....	do.....		16
Mar. 13	do.....	do.....	do.....	4.64	44
Apr. 4	do.....	do.....	do.....	4.78	61
12	do.....	do.....	do.....	4.55	39
May 5	do.....	do.....	do.....	4.36	375
23	do.....	do.....	do.....	4.20	345
June 1	do.....	do.....	do.....	5.21	349
10	do.....	do.....	do.....	4.04	301
July 1	do.....	do.....	do.....	5.40	188
24	do.....	do.....	do.....	4.54	36
Aug. 2	do.....	do.....	do.....	4.00	3.1
19	do.....	do.....	do.....	3.78	3.9
27	do.....	do.....	do.....	2.42	1
Sept. 3	do.....	do.....	do.....	3.30	4
25	do.....	do.....	do.....	3.15	1
Nov. 15	East Fork of Granite Creek.	do.....	Gaging station 1 1/4 miles above mouth.	3.06	4
Dec. 4	do.....	do.....	do.....	4.60	11
16	do.....	do.....	do.....	4.44	5.6
Jan. 8	do.....	do.....	do.....	4.47	7.2
26	do.....	do.....	do.....	4.39	5.7
Feb. 9	do.....	do.....	do.....	4.47	7.3
11	do.....	do.....	do.....	4.43	7.3
19	do.....	do.....	do.....	4.43	12

* Stage-discharge relation affected by ice.

Miscellaneous discharge measurements in Pacific slope basins in California during the year ending September 30, 1927—Continued

San Joaquin River Basin—Continued

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				<i>Feet</i>	<i>Sec. ft.</i>
Mar. 12	East Fork of Granite Creek	Granite Creek	Gaging station 1¼ miles above mouth.	4.57	11
Apr. 4	do.	do.	do.	4.83	18
11	do.	do.	do.	4.72	19
May 5	do.	do.	do.	6.40	244
24	do.	do.	do.	6.00	182
June 2	do.	do.	do.	5.78	168
11	do.	do.	do.	4.30	178
July 1	do.	do.	do.	3.54	89
21	do.	do.	do.	4.61	11
Aug. 2	do.	do.	do.	4.14	1.1
Oct. 6	Jackass Creek	San Joaquin River	Gaging station half a mile above West Fork.	1.36	1.0
Nov. 10	do.	do.	do.	1.36	1.1
28	do.	do.	do.	2.46	24
Dec. 1	do.	do.	do.	2.52	26
17	do.	do.	do.	1.96	6.4
26	do.	do.	do.	2.08	9.8
Jan. 8	do.	do.	do.	2.08	11
Feb. 3	do.	do.	do.	2.10	12
23	do.	do.	do.	2.78	38
Mar. 2	do.	do.	do.	3.35	72
21	do.	do.	do.	2.94	47
30	do.	do.	do.	3.40	79
Apr. 21	do.	do.	do.	3.97	132
29	do.	do.	do.	4.95	239
May 19	do.	do.	do.	4.88	170
June 23	do.	do.	do.	2.90	46
July 13	do.	do.	do.	1.98	8.5
Aug. 8	do.	do.	do.	1.48	4.7
23	do.	do.	do.	1.48	4.4
25	do.	do.	do.	1.42	1.5
Sept. 7	do.	do.	do.	1.42	1.8
Oct. 6	West Fork of Jackass Creek	Jackass Creek	Gaging station half a mile above mouth.	1.80	1.0
Nov. 10	do.	do.	do.	1.85	1.1
28	do.	do.	do.	2.48	12
Dec. 1	do.	do.	do.	2.26	6.5
17	do.	do.	do.	2.08	5.4
26	do.	do.	do.	2.08	3.9
Jan. 8	do.	do.	do.	2.10	4.2
Feb. 3	do.	do.	do.	2.22	7.2
Mar. 2	do.	do.	do.	2.80	27
21	do.	do.	do.	2.64	19
30	do.	do.	do.	2.72	21
Apr. 21	do.	do.	do.	2.68	18
29	do.	do.	do.	2.61	17
May 19	do.	do.	do.	2.39	19
June 23	do.	do.	do.	2.16	4.8
Aug. 8	do.	do.	do.	1.96	2.4
23	do.	do.	do.	1.94	2.0
25	do.	do.	do.	1.94	1.8
Sept. 7	do.	do.	do.	1.94	2.1
Oct. 9	Chiquito Creek	San Joaquin River	Gaging station half a mile above Cabin Creek.	1.44	1.1
Nov. 9	do.	do.	do.	.46	1.5
27	do.	do.	do.	1.40	25
30	do.	do.	do.	1.47	28
Dec. 16	do.	do.	do.	1.09	12
25	do.	do.	do.	1.06	10
Jan. 9	do.	do.	do.	1.17	17
22	do.	do.	do.	1.12	13
Feb. 4	do.	do.	do.	1.12	12
22	do.	do.	do.	1.65	39
Mar. 1	do.	do.	do.	1.78	40
22	do.	do.	do.	1.89	54
31	do.	do.	do.	1.90	64
Apr. 20	do.	do.	do.	2.21	74
28	do.	do.	do.	2.66	194
May 18	do.	do.	do.	3.45	273
June 22	do.	do.	do.	2.25	96
July 12	do.	do.	do.	1.43	23
Aug. 7	do.	do.	do.	.83	6.3
26	do.	do.	do.	.62	3.6
Sept. 9	do.	do.	do.	.66	2.6
Nov. 9	Mudger Creek	Chiquito Creek	At mouth.		0.4
25	do.	do.	do.		3.9

MISCELLANEOUS DISCHARGE MEASUREMENTS

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Miscellaneous discharge measurements in Pacific slope basins in California during the year ending September 30, 1927—Continued

San Joaquin River Basin—Continued

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	Sec.-ft.
Dec. 10	Mugler Creek	Chiquito Creek	At mouth		4.3
Jan. 7	do.	do.	do.		3.7
Feb. 5	do.	do.	do.		4.3
28	do.	do.	do.		25
Mar. 26	do.	do.	do.		33
Apr. 23	do.	do.	do.		39
May 17	do.	do.	do.		42
June 21	do.	do.	do.		16
Sept. 8	do.	do.	do.		.6
Nov. 9	Beasore Creek	do.	do.		1.1
25	do.	do.	do.		30
Dec. 10	do.	do.	do.		16
Jan. 7	do.	do.	do.		9.4
Feb. 5	do.	do.	do.		12
28	do.	do.	do.		63
Mar. 26	do.	do.	do.		103
Apr. 23	do.	do.	do.		100
May 17	do.	do.	do.		163
June 21	do.	do.	do.		33
Sept. 8	do.	do.	do.		1.8
Nov. 29	West Fork of Chiquito Creek	do.	About 1 1/4 miles above mouth		92
Dec. 19	do.	do.	do.		13
Jan. 11	do.	do.	do.		15
Feb. 24	do.	do.	do.		100
Mar. 27	do.	do.	do.		98
May 20	do.	do.	do.		79
Aug. 9	do.	do.	do.		1.2
Jan. 12	Yosemite Creek	Merced River	Yosemite, Calif.	3.12	21
Apr. 23	do.	do.	do.	4.85	335
May 13	do.	do.	do.	7.4	1,230
July 29	do.	do.	do.	3.04	17
Jan. 29	Cherry Canal	Diverts from Cherry Creek	100 feet below tunnel No. 1 1/4 near Early Intake, Calif.	2.55	142
29	do.	do.	150 feet below tunnel No. 2 1/4 near Early Intake, Calif.	4.30	149
29	do.	do.	200 feet below tunnel No. 4 near Early Intake, Calif.	4.53	148
Feb. 4	Moccasin Creek	Tuolumne River	Moccasin, Calif.	2.6	133
9	do.	do.	do.	3.33	11
15	do.	do.	do.	3.10	223
16	do.	do.	do.	3.70	451
16	do.	do.	do.	3.63	337
Jan. 24	Little Johns Creek	Calaveras River	Highway bridge one-fourth mile South of Farmington, Calif.	3.40	39
Apr. 14	do.	do.	do.	6.32	23
Oct. 5	Blue Creek	North Fork of Mokelumne River	200 feet above mouth, 1 mile below Bruces Camp on North Fork of Mokelumne River		2.2
Jan. 10	Goose Creek	Dry Creek	Highway bridge 3 1/4 miles northeast of Elliott, Calif., 1 mile above mouth	2.93	55
13	do.	do.	do.	1.59	6.3
17	do.	do.	do.	1.92	15
19	do.	do.	do.	1.55	5.3
24	do.	do.	do.	1.46	3.5
26	do.	do.	do.	2.32	26
31	do.	do.	do.	1.52	4.7
Feb. 2	do.	do.	do.	2.53	27
7	do.	do.	do.	2.00	73
14	do.	do.	do.	3.23	147
15	do.	do.	do.	3.10	138
16	do.	do.	do.	3.88	4.3
28	do.	do.	do.	1.50	1.4
Mar. 7	do.	do.	do.	1.34	0
14	do.	do.	do.	3.81	0
26	do.	do.	do.	1.12	0
2	do.	do.	do.	4.48	0
Apr. 11	do.	do.	do.	1.23	.2

Miscellaneous discharge measurements in Pacific slope basins in California during the year ending September 30, 1927—Continued

Sacramento River Basin

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				<i>Feet</i>	<i>Sec.-ft.</i>
May 30	South Fork of Pit River	Pit River	Near Likely, Calif.	1.04	277
30	Pit River	Sacramento River	Abandoned gaging station near Bieber, Calif.	4.01	427
Aug. 9	do	do	Near Pittville, Calif.	.50	15
Sept. 7	do	do	do	.45	11
May 29	Ash Creek	Pit River	Near Adin, Calif.	1.02	40
29	Widow Valley Creek	do	Vickers ranch near Lookout, Calif.		10
13	Bear Creek	Fall River	Abandoned gaging station near Dana, Calif.	4.29	261
17	do	do	do	4.46	288
27	do	do	do	3.49	126
June 1	Hat Creek	Pit River	Abandoned gaging station near Browns ranch, near Hat Creek, Calif.	2.00	161
Oct. 19	do	do	Wilcox ranch near Hat Creek, Calif.		90
25	Burney Creek	do	Proposed reservoir site, 3 miles above Burney, Calif.	1.33	8
Dec. 14	do	do	do	1.41	25
June 1	do	do	do	1.78	63
11	Thomas Creek	Sacramento River	Half a mile above Dark Canyon, 12 miles west of Paskenta, Calif.		186
July 15	do	do	do		14.5
Sept. 8	do	do	do		1.7
June 23	Bowman-Spaulding Canal	Diverts from Bowman Lake on Canyon Creek	Intake at Bowman Lake, Calif.	1.05	8
30	do	do	do	3.17	32
30	do	do	do	2.41	42
30	do	do	do	3.03	70
30	do	do	do	3.52	121
July 1	do	do	do	2.30	91
1	do	do	do	3.38	93
1	do	do	do	3.42	98
1	do	do	do	3.43	97
4	do	do	do	3.59	106
4	do	do	do	3.80	119
4	do	do	do	4.00	135
11	do	do	do	4.15	148
13	do	do	do	4.60	182
21	do	do	do	4.65	182
Aug. 8	do	do	do	4.97	216
10	do	do	do	5.07	229
17	do	do	do	5.01	208
Sept. 11	do	do	do	5.09	214
13	do	do	do	5.06	212
26	do	do	do	5.13	215
May 18	North Bloomfield ditch	Diverts from Canyon Creek	Intake	3.63	2.6
18	do	do	do	3.75	5.4

Klamath River Basin

June 24	Big Spring Creek	Williamson River in Klamath Marsh.	Sec. 22, T. 30 S., R. 8 E., at Lenz ranch, Oregon.		6.2
Aug. 9	do	do	do		6.9
June 3	Spring Creek	Williamson River	Sec. 9, T. 34 S., R. 7 E., at mouth, Oregon.		282
Aug. 8	do	do	do		280
Sept. 22	do	do	do		288
June 3	Fort Creek	Wood River	Sec. 26, T. 33 S., R. 7½ E., at the Dalles-California highway, Oregon.		479
Aug. 8	do	do	do		484
Sept. 21	do	do	do		480
Aug. 8	Sevenmile Creek	Upper Klamath Lake	Sec. 36, T. 33 S., R. 6 E., Oregon.		53
June 22	Spencer Creek	Klamath River	Sec. 20, T. 39 S., R. 7 E., Oregon.		36.3
Apr. 26	Little Shasta River	Shasta River	Sec. 33, T. 45 N., R. 5 W., near Montague, Calif.	2.18	37

* Includes flow of Fort Creek Canal.

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