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UNITED STATES DEPARTMENT OF THE INTERIOR

**SURFACE WATER SUPPLY**  
*of the* **UNITED STATES**  
**1927**

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**PART X**  
**THE GREAT BASIN**

**GEOLOGICAL SURVEY WATER-SUPPLY PAPER 650**

# CONTENTS

	Page
Authorization and scope of work.....	1
Definition of terms.....	2
Explanation of data.....	2
Accuracy of field data and computed results.....	4
Publications.....	5
Cooperation.....	9
Division of work.....	9
Gaging-station records.....	10
Great Salt Lake Basin.....	10
Gages on Great Salt Lake.....	10
Bear River Basin.....	11
Bear River near Evanston, Wyo.....	11
Bear River at Harer, Idaho.....	12
Bear River at Alexander, Idaho.....	13
Bear River near Weston, Idaho.....	14
Bear River near Collinston, Utah.....	15
East Fork of Little Bear River near Avon, Utah.....	16
Logan River above State dam near Logan, Utah.....	17
Utah Power & Light Co.'s tailrace near Logan, Utah.....	18
Logan, Hyde Park & Smithfield Canal near Logan, Utah....	19
Blacksmith Fork above Utah Power & Light Co.'s dam near Hyrum, Utah.....	20
West Side Canal near Collinston, Utah.....	21
Hammond (East Side) Canal near Collinston, Utah.....	22
Weber River Basin.....	23
Weber River near Oakley, Utah.....	23
Weber River near Coalville, Utah.....	24
Weber River at Echo, Utah.....	25
Weber River at Devils Slide, Utah.....	26
Weber River at Gateway, Utah.....	27
Weber River near Plain City, Utah.....	28
Chalk Creek at Coalville, Utah.....	29
Lost Creek at Devils Slide, Utah.....	30
South Fork of Ogden River near Huntsville, Utah.....	31
Jordan River Basin.....	32
Jordan River near Lehi, Utah.....	32
Salt Creek near Nephi, Utah.....	33
Provo River at Forks, Utah.....	34
South Fork of Provo River at Forks, Utah.....	35
Sevier Lake Basin.....	36
Sevier River at Hatch, Utah.....	36
Sevier River near Circleville, Utah.....	37
Sevier River near Kingston, Utah.....	38
Piute Reservoir near Marysvale, Utah.....	39
Sevier River below Piute Dam, near Marysvale, Utah.....	40
Sevier River at Sevier, Utah.....	41

## Gaging-station records—Continued.

Sevier Lake Basin—Continued.	Page
Sevier River near Vermilion, Utah.....	42
Sevier River below San Pitch River, near Gunnison, Utah.....	43
Sevier Bridge Reservoir near Juab, Utah.....	44
Sevier River near Juab, Utah.....	45
Sevier River at Oasis, Utah.....	46
East Fork of Sevier River near Kingston, Utah.....	47
Rockyford Canal near Vermilion, Utah.....	48
Beaver River Basin.....	49
Beaver River near Beaver, Utah.....	49
Beaver River at Adamsville, Utah.....	50
Beaver River at Rockyford Dam, near Minersville, Utah.....	51
Salton Sink Basin.....	52
Snow Creek near Whitewater, Calif.....	52
Southern Pacific Co.'s ditch near Whitewater, Calif.....	53
Falls Creek near Whitewater, Calif.....	54
Owens Lake Basin.....	55
Owens River near Round Valley, Calif.....	55
Owens River at Pleasant Valley, near Bishop, Calif.....	56
Owens River near Big Pine, Calif.....	57
Rock Creek at Sherwin Hill, near Bishop, Calif.....	58
Pine Creek at division box near Bishop, Calif.....	59
Antelope Valley Basin.....	60
Rock Creek near Valyermo, Calif.....	60
Mono Lake Basin.....	61
Mono Lake near Mono Lake, Calif.....	61
Walker Lake Basin.....	62
East Walker River near Bridgeport, Calif.....	62
Walker River near Wabuska, Nev.....	63
Walker River at Schurz, Nev.....	64
West Walker River near Coleville, Calif.....	65
West Walker River at Hoyer Bridge, near Wellington, Nev.....	66
Humboldt-Carson Sink Basin.....	67
Carson River Basin.....	67
East Fork of Carson River near Markleeville, Calif.....	67
East Fork of Carson River near Gardnerville, Nev.....	68
Carson River near Fort Churchill, Nev.....	69
Markleeville Creek above Markleeville, Calif.....	70
Markleeville Creek at Markleeville, Calif.....	71
Humboldt River Basin.....	72
Humboldt River at Palisade, Nev.....	72
Humboldt River near Oreana, Nev.....	73
Humboldt River near Lovelock, Nev.....	74
Marys River near Deeth, Nev.....	74
South Fork of Humboldt River near Elko, Nev.....	75
Rock Creek near Battle Mountain, Nev.....	76
Little Humboldt River near Paradise Valley, Nev.....	77
Martin Creek near Paradise Valley, Nev.....	78
Cottonwood Creek near Paradise Valley, Nev.....	79
Humboldt-Lovelock Irrigation, Light & Power Co.'s feeder canal near Mill City, Nev.....	80
Humboldt-Lovelock Irrigation, Light & Power Co.'s outlet canal near Humboldt, Nev.....	81

Gaging-station records—Continued.	Page
Pyramid and Winnemucca Lakes Basin.....	82
Lake Tahoe at Tahoe, Calif.....	82
Truckee River at Tahoe, Calif.....	83
Truckee River at Iceland, Calif.....	84
Abert Lake Basin.....	85
Chewaucan River above Conn ditch, near Paisley, Oreg.....	85
Silver Lake Basin.....	86
Silver Creek near Silver Lake, Oreg.....	86
West Fork of Silver Creek near Silver Lake, Oreg.....	88
Silver Lake Irrigation District Canal near Silver Lake, Oreg....	89
Malheur and Harney Lakes Basin.....	90
Silvies River near Burns, Oreg.....	90
Alvord Lake Basin.....	91
Trout Creek near Denio, Oreg.....	91
Miscellaneous discharge measurements.....	92
Index.....	95

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## ILLUSTRATION

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FIGURE 1. Typical gaging station.....	Page
	3

# SURFACE WATER SUPPLY OF THE GREAT BASIN, 1927

## AUTHORIZATION AND SCOPE OF WORK

This volume is one of a series of 14 reports representing records 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	1907-----	\$150, 000. 00	1921-1923 .	\$180, 000. 00
1896-----	24, 500. 00	1908-1910 .	100, 000. 00	1924-1925 .	170, 000. 00
1897-1899 .	50, 000. 00	1911-1917 .	150, 000. 00	1926-----	165, 000. 00
1900-----	70, 000. 00	1918-----	175, 000. 00	1927-----	151, 000. 00
1901-1902 .	100, 000. 00	1919-----	148, 244. 10	1928-----	147, 000. 00
1903-1906 .	200, 000. 00	1920-----	175, 000. 00		

In the execution of the work many private and State organizations have cooperated, either by furnishing data or by assisting in collecting data. Acknowledgments for cooperation of the first kind are made in connection with the description of each station affected; cooperation of the second kind is acknowledged on page 9.

Measurements of stream flow have been made at about 5,330 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, acre-feet, and millions of cubic 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 are obtained either from direct reading on a staff or 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 measurement of 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 heights to these rating tables gives the daily discharge from which the monthly and yearly mean discharge is computed.

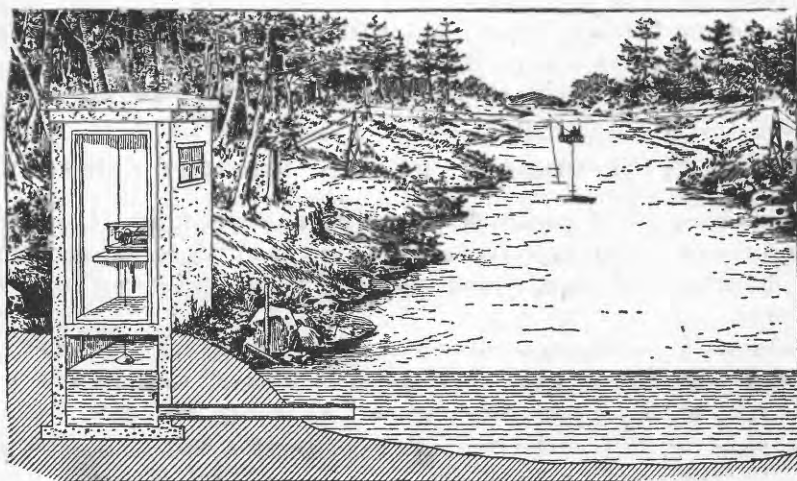


FIGURE 1.—Typical gaging station

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 once-daily reading or the mean of twice-daily readings of a non-

recording 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 permanence 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 sections 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

Investigation of water resources by the United States Geological Survey has consisted in large part of measurements of the volume of flow of streams and studies of the conditions affecting that flow, but it has comprised also investigation of such closely allied subjects as irrigation, water storage, water 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 monographs, bulletins, professional papers, 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 River 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. Hudson Bay and upper Mississippi River 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 parts:

A, Pacific slope basins in Washington and upper Columbia River Basin.

B, Snake River Basin.

C, Pacific slope basins in Oregon and lower Columbia River Basin.

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

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

2. Sets of the reports may be consulted in the libraries of the principal cities 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., 64 State Capitol.  
 Albany, N. Y., 506 Broadway-Arcade Building.  
 Trenton, N. J., 423 Statehouse Annex.  
 Charlottesville, Va., Brooks Museum, University of Virginia.  
 South Charleston, W. Va., Naval Ordnance Plant.  
 Asheville, N. C., 608 City Hall.  
 Chattanooga, Tenn., 630 Power Building.  
 Tuscaloosa, Ala., Post Office Building.  
 Columbus, Ohio, Engineering Experiment Station, Ohio State University.  
 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., 415 Power Building.  
 Tacoma, Wash., 406 Federal Building.  
 Portland, Oreg., 606 Post Office Building.  
 San Francisco, Calif., 303 Customhouse.  
 Los Angeles, Calif., 751 South Figueroa Street.  
 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.
B 131.....	Descriptions, measurements, gage heights, and ratings.....	1893 to 1894.
16th A, pt. 2.....	Descriptive information only.....	
B 140.....	Descriptions, measurements, gage heights, ratings, and monthly discharge (also 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.

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

Report	Character of data	Year
W 27.....	Measurements, ratings, and gage heights, eastern United States, eastern Mississippi River, and Missouri River.	1898.
W 28.....	Measurements, ratings, and gage heights, Arkansas River, and western United States.	1898.
20th A, pt. 4.....	Monthly discharge (also for many earlier years).....	1898.
W 35 to 39.....	Descriptions, measurements, gage heights and ratings.....	1899.
21st A, pt. 4.....	Monthly discharge.....	1899.
W 47 to 52.....	Descriptions, measurements, gage heights, and ratings.....	1900.
22d A, pt. 4.....	Monthly discharge.....	1900.
W 65, 66.....	Descriptions, measurements, gage heights, and ratings.....	1901.
W 75.....	Monthly discharge.....	1901.
W 82 to 85.....	Complete data.....	1902.
W 97 to 100.....	do.....	1903.
W 124 to 135.....	do.....	1904.
W 165 to 178.....	do.....	1905.
W 201 to 214.....	do.....	1906.
W 241 to 252.....	do.....	1907 and 1908.
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 and 1920.
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 discharge measurements" at the end of each report in the same relative order as the regular gaging stations. An index of the reports containing records obtained prior to 1904 has been published in Water-Supply Paper 119.

The following table gives, by years and drainage basins, the numbers of the papers on surface-water supply published from 1899 to 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 <sup>a</sup>	35	35	36	36	36	36	37	37	37	38	38	38	38	38
1900 <sup>a</sup>	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	66, 75	66, 75	66, 75	66, 75	66, 75
1902	82, 83	82, 83	82, 83	82, 83	82, 83	82, 83	82, 83	82, 83	82, 83	85	85	85	85	85
1903	97	97	98	98	98	98	98	98	98	100	100	100	100	100
1904	124, 125, 126	125, 126	128	129	130	130, 131	131	132	133	133, 134	134	135	135	135
1905	163, 166, 167	167	169	170	171	172	173	174	175	176, 177	177	178	178	178
1906	201, 202, 203	203	206	206	207	208	209	210	211	212, 213	213	214	214	214
1907-8	241	242	243	244	245	246	247	248	249	250, 251	251	252	252	252
1909	281	282	283	284	285	286	287	288	289	290	291	292	292	292
1910	301	302	303	304	305	306	307	308	309	310	311	312	312	312
1911	321	322	323	324	325	326	327	328	329	330	331	332-A	332-B	332-C
1912	351	352	353	354	355	356	357	358	359	360	361	362-A	362-B	362-C
1913	381	382	383	384	385	386	387	388	389	390	391	392	393	394
1914	401	402	403	404	405	406	407	408	409	410	411	412	413	414
1915	431	432	433	434	435	436	437	438	439	440	441	442	443	444
1916	451	452	453	454	455	456	457	458	459	460	461	462	463	464
1917	471	472	473	474	475	476	477	478	479	480	481	482	483	484
1918	501	502	503	504	505	506	507	508	509	510	511	512	513	514
1919	521	522	523	524	525	526	527	528	529	530	531	532	533	534
1920	541	542	543	544	545	546	547	548	549	550	551	552	553	554
1921	561	562	563	564	565	566	567	568	569	570	571	572	573	574
1922	581	582	583	584	585	586	587	588	589	590	591	592	593	594
1923	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1924	621	622	623	624	625	626	627	628	629	630	631	632	633	634
1925	641	642	643	644	645	646	647	648	649	650	651	652	653	654

<sup>a</sup> 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.

<sup>b</sup> James River only.

<sup>c</sup> Gallatin River.

<sup>d</sup> Green and Gunnison Rivers and Grand River above junction with Gunnison.

<sup>e</sup> Mohave River only.

<sup>f</sup> Kings and Kern Rivers and South Pacific slope basins.

<sup>g</sup> 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.

<sup>h</sup> Tables of monthly discharge for 1900 in Twenty-second Annual Report, Part IV.

<sup>i</sup> Wissahickon and Schuylkill Rivers to James River.

<sup>j</sup> Scioto River.

<sup>k</sup> Loup and Platte Rivers near Columbus, Nebr., and all tributaries below junction with Platte.

<sup>l</sup> Tributaries of Mississippi from east.

<sup>m</sup> Lake Ontario and tributaries to St. Lawrence River proper.

<sup>n</sup> Hudson Bay only.

<sup>o</sup> New England rivers only.

<sup>p</sup> Hudson River to Delaware River, inclusive.

<sup>q</sup> Susquehanna River to Yackin River, inclusive.

<sup>r</sup> Platte and Kansas Rivers.

<sup>s</sup> Great Basin in California except Truckee and Carson River Basins.

<sup>t</sup> Below junction with Gila.

<sup>u</sup> Rogue, Umpqua, and Siletz Rivers only.

## COOPERATION

During the year ending September 30, 1927, the work in Utah, Nevada, California, Oregon, and Wyoming has been done under cooperative agreements between the United States Geological Survey and the respective States.

Special acknowledgments are due to George M. Bacon, State engineer of Utah; Robert A. Allen and George W. Malone, State engineers of Nevada; Paul Bailey, State engineer of California; the division of water rights, Department of Public Works of the State of California; Rhea Luper, State engineer of Oregon; and John A. Whiting, State engineer of Wyoming, for the very efficient manner in which they have represented their States in the cooperative investigations.

Acknowledgments are also due to the officials and employees of the United States Bureau of Reclamation, United States Weather Bureau, Utah Power & Light Co., and Southern Pacific Co.

Financial assistance has been rendered by the United States Indian Service, Utah Power & Light Co., Walker River Irrigation District, Weber River Water Users, and Sevier River Water Users.

## DIVISION OF WORK

Data for stations in Utah and Nevada were collected and prepared for publication under the direction of A. B. Purton, district engineer, assisted by M. T. Wilson, D. M. Corbett, J. A. Allis, J. B. Ringwood, and Miss Lysle Christensen.

Data for stations in California were collected and prepared for publication under the direction of H. D. McGlashan, district engineer, assisted by William Kessler, Charles Leidl, R. C. Briggs, Jesse Arnold, and J. E. Jones.

Data for stations in Oregon were collected and computed in the office of the State engineer and were reviewed, checked, and prepared for publication by F. F. Henshaw, district engineer, assisted by G. H. Canfield.

Data for the station in Wyoming were collected and prepared for publication under the direction of Robert Follansbee, district engineer, assisted by P. V. Hodges and Miss N. L. Esterly.

The records were reviewed and manuscript assembled by Warren Withee.

## GAGING-STATION RECORDS

## GREAT SALT LAKE BASIN

## GAGES ON GREAT SALT LAKE

**LOCATION.**—Staff gages at Saltair, on southeast shore of Great Salt Lake, 15 miles west of Salt Lake City, and at Midlake, on Lucin cut-off of Southern Pacific Railroad, 30 miles west of Ogden, Weber County, Utah. Zero of Saltair gage is 4,196.8 feet above mean sea level; zero of Midlake gage is 4,198.0 feet above mean sea level.

**RECORDS AVAILABLE.**—September, 1875, to December, 1899; March to July, 1904; October, 1912, to September, 1927.

**EXTREMES.**—Maximum elevation during year, 4,203.6 feet June 15 at Saltair gage; minimum, 4,201.6 feet September 15 at Midlake gage.

1850–1927: Maximum elevation, 4,211.3 feet July 12, 1877; estimated maximum, 4,212.5 feet in 1868 (data furnished by Marcus E. Jones, Salt Lake City); minimum, 4,195.7 feet in 1902.

**REMARKS.**—Apparent inconsistencies in readings are probably largely due to the effect of wind, as the two gages are about 40 miles apart. Readings on Saltair gage are furnished by the United States Weather Bureau; readings on Midlake gage furnished by Southern Pacific Railroad Co.

*Gage height, in feet, of Great Salt Lake, Utah, 1926–27*

Day	Gage height		Day	Gage height	
	Saltair gage	Midlake gage		Saltair gage	Midlake gage
Oct. 1.....	5.6	4.15	Apr. 1.....	6.4	4.85
Oct. 15.....	5.6	4.15	Apr. 15.....	6.4	5.0
Nov. 1.....	5.5	4.1	May 1.....	6.5	5.1
Nov. 15.....	5.4	4.1	May 15.....	6.6	5.15
Dec. 1.....	5.5	4.1	June 1.....	6.6	5.15
Dec. 15.....	5.5	4.15	June 15.....	6.8	5.15
Jan. 1.....	5.6	4.15	July 1.....	6.3	5.0
Jan. 15.....	5.6	4.25	July 15.....	6.0	4.65
Feb. 1.....	5.7	4.35	Aug. 1.....	5.9	4.5
Feb. 15.....	5.8	4.5	Aug. 15.....	5.6	4.15
Mar. 1.....	6.0	4.6	Sept. 1.....	5.2	3.9
Mar. 15.....	6.1	4.75	Sept. 15.....	5.1	3.6

## BEAR RIVER BASIN

## BEAR RIVER NEAR EVANSTON, WYO.

**LOCATION.**—Water-stage recorder, installed September 28, 1926, in sec. 1, T. 15 N., R. 121 W., 300 feet above highway bridge and  $3\frac{1}{2}$  miles northwest of Evanston. Nearest tributary, a small stream entering from southwest half a mile above.

**DRAINAGE AREA.**—645 square miles.

**RECORDS AVAILABLE.**—October, 1913, to September, 1927.

**EXTREMES.**—Maximum discharge during year, 1,910 second-feet May 18 (gauge height, 5.35 feet); minimum, 9 second-feet October 1 (gauge height, 0.83 foot). 1913-1927: Maximum discharge, 3,690 second-feet June 14, 1921 (gauge height, 6.35 feet); river dry August 9-24 and August 27 to September 30, 1924.

**REMARKS.**—Records good except those for November 3-8 and July 1 to September 30, which are fair. Observations discontinued during winter. Adjudicated diversions from Bear River above station for irrigation of 30,300 acres.

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

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	10	25		422	735	494	402	42	37
2.....	12	26		410	725	470	320	37	34
3.....	14	26		564	740	478	268	32	28
4.....	16	25		500	730	498	268	31	24
5.....	16	23		446	705	582	320	28	23
6.....	17	21		454	715	740	255	28	20
7.....	19	20		482	830	1,010	195	31	19
8.....	22	20		618	695	1,190	164	32	22
9.....	22	20		402	550	1,390	143	30	24
10.....	23	25		243	414	1,370	136	29	66
11.....	22	31		228	414	1,230	111	28	86
12.....	19	36		198	376	1,150	86	27	64
13.....	19	36		198	454	1,170	66	24	66
14.....	22	36		203	750	1,170	49	21	92
15.....	21	28		203	1,050	1,580	43	22	107
16.....	22			206	1,390	1,220	36	24	103
17.....	22			206	1,650	1,010	32	24	103
18.....	22			203	1,730	1,140	27	24	95
19.....	22			231	1,520	1,190	24	22	88
20.....	23			249	1,240	1,070	20	22	79
21.....	23			246	956	902	17	22	72
22.....	23			243	840	730	16	22	67
23.....	23			386	725	640	18	22	70
24.....	23			555	614	618	18	24	92
25.....	23			668	632	555	20	25	152
26.....	23			715	750	482	22	26	138
27.....	23			672	865	568	24	31	121
28.....	23			636	880	710	27	42	111
29.....	24			640	892	622	38	51	143
30.....	24		474	663	763	502	44	44	152
31.....	26		478		514		46	37	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	26	10	20.7	1,270
November 1-15.....	36	20	26.5	788
April.....	715	198	403	24,000
May.....	1,730	376	834	51,300
June.....	1,580	470	883	52,500
July.....	402	16	105	6,460
August.....	51	21	29.2	1,800
September.....	152	19	76.6	4,560

## BEAR RIVER AT HARER, IDAHO

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  sec. 22, T. 14 S., R. 45 E., half a mile below mouth of Sheep Creek, three-fourths mile north of Harer siding on Oregon Short Line Railroad and 6 miles east of Dingle.

DRAINAGE AREA—2,780 square miles.

RECORDS AVAILABLE.—June, 1913, to September, 1916; January, 1919, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 1,790 second-feet May 24; minimum, 140 second-feet January 1.

1913-1916, 1919-1927: Maximum discharge, 3,860 second-feet June 2, 1920 (gage height, 10.51 feet); minimum, 81 second-feet September 1, 1919 (gage height, 2.61 feet).

REMARKS.—Records good except those for December 10 to March 28, which were estimated because of ice. There are numerous diversions for irrigation above station. Data collected and records compiled by Utah Power & Light Co. under supervision of the 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	178	176	194	140	191	225	931	1,250	1,160	809	306	200
2	186	176	194	145	189	227	985	1,300	1,130	780	294	200
3	194	176	194	150	189	235	966	1,360	1,120	742	288	200
4	191	176	194	155	189	240	1,000	1,380	1,080	746	288	200
5	189	176	191	165	186	245	1,060	1,380	1,010	794	273	200
6	189	176	191	163	186	245	1,060	1,340	966	780	264	200
7	189	176	191	165	183	250	1,060	1,270	966	761	261	202
8	183	176	189	165	183	255	1,010	1,260	926	785	255	202
9	189	170	189	163	183	260	990	1,250	980	751	243	208
10	189	160	181	157	181	270	985	1,240	1,070	703	240	261
11	189	160	179	155	181	275	980	1,220	1,100	674	243	297
12	186	170	177	152	181	280	1,010	1,080	1,150	679	243	316
13	183	183	176	165	178	285	966	1,000	1,230	651	240	319
14	183	183	174	181	176	294	878	931	1,350	623	237	319
15	181	183	172	178	176	300	809	966	1,490	578	237	319
16	181	186	170	181	178	305	751	1,030	1,540	528	237	309
17	181	219	169	181	189	310	698	1,140	1,540	503	228	303
18	183	165	167	180	189	320	670	1,260	1,540	486	222	300
19	183	173	165	180	191	325	623	1,430	1,560	454	222	294
20	186	183	163	175	191	335	600	1,610	1,700	427	219	285
21	186	181	162	175	192	345	587	1,680	1,720	412	225	282
22	186	181	160	170	194	350	569	1,720	1,650	409	228	279
23	194	183	158	170	197	360	564	1,780	1,540	388	228	276
24	191	186	160	165	200	375	582	1,790	1,440	370	225	273
25	191	194	160	165	205	390	637	1,740	1,320	360	210	279
26	189	191	160	160	210	410	727	1,580	1,200	356	191	291
27	189	200	160	165	215	460	887	1,460	1,020	352	191	291
28	191	200	160	170	220	540	1,040	1,340	936	352	191	291
29	194	200	160	180	-----	646	1,160	1,250	907	349	189	297
30	191	197	160	185	-----	737	1,240	1,220	858	325	189	303
31	189	-----	160	191	-----	868	-----	1,180	-----	316	194	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	194	178	187	11,500
November	219	160	182	10,800
December	194	158	174	10,700
January	191	140	167	10,300
February	220	176	190	10,600
March	868	225	354	21,800
April	1,240	564	868	51,700
May	1,790	931	1,340	82,400
June	1,720	858	1,240	73,800
July	809	316	556	34,200
August	306	189	236	14,500
September	319	200	267	15,900
The year	1,790	140	480	348,000



## BEAR RIVER AT ALEXANDER, IDAHO

LOCATION.—Water-stage recorder in NW.  $\frac{1}{4}$  sec. 17, T. 9 S., R. 41 E., 600 feet downstream from Soda plant of Utah Power & Light Co. half a mile south-east of Alexander and 5 miles below mouth of Soda Creek.

DRAINAGE AREA.—3,840 square miles.

RECORDS AVAILABLE.—March, 1911, to September, 1916; April, 1919, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 1,540 second-feet July 14; minimum, 358 second-feet May 1.

1911-1916, 1919-1927: Maximum discharge, 4,590 second-feet May 9, 1922; maximum gage height, 15.95 feet December 11, 1919; minimum discharge, 80 second-feet March 12, 1925 (gage height, 4.35 feet, lower gage).

REMARKS.—Records good except those for April 5-7 and July to September, which are fair. Numerous diversions for irrigation above station. Regulation caused by storage in Bear Lake Reservoir and operations at Soda power plant. Data collected and records compiled by Utah Power & Light Co. under supervision of the 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	984	861	769	990	792	770	664	358	998	878	1,310	1,050
2	850	934	814	966	741	706	602	520	934	1,050	1,410	1,050
3	980	926	807	1,120	755	762	479	520	982	615	1,380	1,030
4	890	967	807	1,120	734	748	589	532	960	556	1,230	974
5	910	885	1,000	1,090	770	748	721	657	778	678	1,290	1,040
6	898	934	976	990	622	615	642	657	934	720	1,220	1,240
7	885	725	877	1,010	815	838	633	678	950	1,200	1,040	1,240
8	1,020	942	853	1,050	862	830	706	440	926	1,310	1,220	1,280
9	934	1,010	853	815	974	713	720	800	894	1,200	1,300	1,080
10	644	958	1,020	1,050	918	713	563	727	894	1,070	1,340	1,120
11	918	853	992	1,090	974	741	720	838	822	1,310	1,110	727
12	885	926	776	1,050	830	778	785	886	734	1,440	1,230	1,080
13	976	910	1,000	974	706	622	785	792	862	1,500	1,150	1,010
14	950	762	1,050	1,010	886	755	800	755	918	1,540	950	778
15	926	934	1,120	998	926	846	838	532	808	1,470	1,100	854
16	893	942	893	699	748	755	830	692	748	1,250	1,070	727
17	650	1,010	950	1,010	734	785	602	734	870	1,250	1,190	785
18	926	1,050	910	974	762	808	815	770	934	1,310	1,200	484
19	958	1,020	877	1,010	706	870	778	838	792	1,340	1,260	748
20	1,010	901	918	942	490	734	822	830	966	1,440	1,130	762
21	984	725	976	910	685	778	815	778	1,030	1,400	990	664
22	976	893	934	1,100	615	762	785	741	1,030	1,530	942	706
23	893	967	967	934	854	706	706	830	1,060	1,430	910	770
24	711	934	670	934	800	755	538	778	1,010	1,200	490	450
25	942	718	438	1,030	785	778	622	838	1,030	1,200	468	400
26	942	799	776	974	734	699	538	846	982	1,300	490	490
27	958	799	1,020	862	602	550	508	966	1,170	1,300	934	830
28	1,060	740	1,100	734	755	685	474	990	1,230	1,320	862	1,050
29	885	791	1,080	778	-----	727	479	770	1,190	1,330	1,040	710
30	942	814	992	629	-----	664	520	664	1,120	1,190	1,080	780
31	838	-----	1,020	854	-----	671	-----	950	-----	1,190	1,030	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,060	644	910	56,000
November	1,050	718	888	52,800
December	1,120	438	911	56,000
January	1,120	629	958	58,900
February	974	490	771	42,800
March	870	550	739	45,400
April	838	474	669	39,800
May	990	358	732	45,000
June	1,230	734	951	56,600
July	1,540	556	1,220	75,000
August	1,410	468	1,080	66,400
September	1,280	400	864	51,400
The year	1,540	358	892	646,000

## BEAR RIVER NEAR WESTON, IDAHO

LOCATION.—Water-stage recorder in SW.  $\frac{1}{4}$  sec. 17, T. 16 S., R. 3? E., at Weston-Fairview highway bridge, 3 miles east of Weston.

RECORDS AVAILABLE.—October, 1919, to September, 1927. Records are comparable with those obtained near Preston, Idaho, October 11, 1889, to January 15, 1917.

EXTREMES.—Maximum mean daily discharge during year, 1,730 second-feet June 30; minimum, 210 second-feet July 5.

1919-1927: Maximum discharge, 6,100 second-feet May 8 or 9, 1922 (gage height, 12.1 feet); minimum, 100 second-feet November 1, 1925.

REMARKS.—Records fair. Discharge estimated October 29 to November 4, November 12-19, December 22 to January 31, February 10-28, May 21 to July 7, and September 24-30. West Cache Canal and numerous irrigation ditches divert above station. Regulation caused by storage in Bear Lake Reservoir and operation of power plants above gage. Data collected and records compiled by Utah Power & Light Co. under supervision of the 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.....	1,240	1,010	1,160	1,310	1,010	1,240	1,020	1,070	870	1,500	754	880
2.....	986	1,060	922	1,130	1,010	1,110	1,040	1,000	1,190	460	1,080	1,020
3.....	1,160	1,080	918	1,530	910	1,300	1,140	1,080	730	340	1,070	1,140
4.....	1,030	1,020	1,030	1,220	1,170	1,160	1,100	1,190	740	230	980	1,260
5.....	882	1,120	1,020	1,230	900	1,130	1,120	1,050	730	210	1,140	804
6.....	1,010	1,120	1,090	1,330	970	1,110	1,110	1,080	710	400	970	738
7.....	1,090	1,140	1,260	1,180	800	1,060	1,140	1,040	880	640	880	930
8.....	796	1,160	1,230	1,440	1,150	1,100	1,260	1,090	960	615	926	975
9.....	990	1,130	1,190	1,080	1,190	1,120	1,160	1,140	700	808	994	898
10.....	878	1,110	1,100	1,110	1,360	1,130	1,260	1,020	850	912	849	1,080
11.....	788	1,140	1,240	1,180	1,400	1,060	1,160	1,040	680	921	1,020	750
12.....	774	1,060	1,260	1,250	1,240	1,020	1,280	1,040	950	926	1,030	772
13.....	801	1,070	1,190	1,300	670	1,020	1,330	1,040	840	1,080	921	930
14.....	814	1,110	1,200	1,160	810	989	1,320	1,040	910	926	1,040	750
15.....	918	1,140	1,350	1,130	1,200	1,080	1,300	1,080	340	940	872	795
16.....	954	1,140	1,360	1,210	1,210	1,030	1,160	1,180	250	1,200	916	682
17.....	950	1,140	1,280	1,040	1,030	989	1,150	1,180	940	1,220	1,040	955
18.....	909	1,150	1,230	1,260	1,040	1,010	1,080	1,240	870	840	872	628
19.....	963	1,210	1,300	1,040	1,040	955	1,040	1,280	640	1,060	1,040	664
20.....	922	1,220	1,190	1,380	700	903	1,060	1,240	710	1,140	1,180	669
21.....	864	1,140	1,330	1,110	1,360	1,110	955	1,060	850	1,140	854	1,180
22.....	1,020	1,080	1,470	1,690	1,530	1,080	1,070	800	810	1,040	921	844
23.....	990	972	1,520	740	1,040	1,000	950	1,100	770	759	1,210	813
24.....	1,060	922	1,070	910	1,120	980	908	1,400	960	1,000	894	560
25.....	886	918	360	1,130	1,400	1,010	921	1,050	1,220	687	409	350
26.....	1,050	1,000	690	1,130	1,480	1,060	1,120	1,150	800	795	493	220
27.....	1,090	1,140	1,060	1,130	970	1,020	1,420	780	1,040	1,000	728	970
28.....	1,130	1,220	1,160	1,240	1,100	965	1,310	910	840	980	890	460
29.....	1,100	1,180	1,140	1,200	-----	989	1,140	1,030	1,450	1,060	849	1,010
30.....	1,080	1,180	1,360	920	-----	994	1,200	460	1,730	1,050	849	970
31.....	1,040	-----	1,220	910	-----	1,020	-----	600	-----	880	858	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	1,240	774	973	59,800
November.....	1,220	918	1,100	65,500
December.....	1,520	360	1,160	71,300
January.....	1,690	740	1,180	72,600
February.....	1,530	670	1,100	61,100
March.....	1,300	903	1,060	65,200
April.....	1,420	908	1,140	67,800
May.....	1,400	460	1,050	64,600
June.....	1,730	250	865	51,500
July.....	1,500	210	863	53,100
August.....	1,210	409	920	56,600
September.....	1,260	220	823	49,000
The year.....	1,730	210	1,020	738,000

## BEAR RIVER NEAR COLLINSTON, UTAH

LOCATION.—Water-stage recorder in W.  $\frac{1}{2}$  sec. 34, T. 13 N., R. 2 W., half a mile below power plant of Utah Power & Light Co. at Wheelon railroad siding and 4 miles north of Collinston.

DRAINAGE AREA.—6,000 square miles.

RECORDS AVAILABLE.—July, 1889, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 4,310 second-feet February 22 (gage height, 4.47 feet); minimum, 18 second-feet August 29 (gage height, 0.88 foot).

1889-1927: Maximum discharge, 11,600 second-feet June 7-10, 1909 (gage height, 7.7 feet); practically no flow at midnight August 5, 1920 (gage height, 0.42 foot).

REMARKS.—Records good. Numerous canals divert above station. Flow regulated by storage in Bear Lake Reservoir and operation of power plants above gage. Gage-height record and results of discharge measurements furnished by Utah Power & Light Co.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1,460	1,380	1,450	1,680	1,460	2,010	1,890	3,470	1,800	1,680	356	189
2.....	1,420	1,360	1,390	1,630	1,510	2,010	2,000	3,220	1,780	1,310	274	298
3.....	1,200	1,420	1,380	1,720	1,690	2,080	2,390	3,250	2,040	670	606	* 425
4.....	1,330	1,420	1,380	1,720	1,560	2,200	2,670	3,280	2,030	47	568	* 500
5.....	1,160	1,400	1,460	1,930	1,810	2,160	2,580	3,200	1,820	37	453	* 800
6.....	1,220	1,410	1,470	1,770	1,580	2,230	2,440	2,740	1,900	37	626	229
7.....	1,230	1,390	1,540	1,880	1,560	1,950	2,150	2,660	1,780	37	478	119
8.....	1,420	1,390	1,720	1,850	1,400	1,620	2,230	2,560	1,890	96	444	298
9.....	1,160	1,420	1,670	1,760	1,520	2,010	2,620	2,770	2,250	70	* 150	386
10.....	1,360	1,420	1,590	1,850	1,440	2,150	2,700	2,430	2,170	74	* 250	317
11.....	1,240	1,410	1,510	1,570	1,220	2,090	2,780	1,940	2,140	93	504	617
12.....	1,080	1,440	1,620	1,640	1,630	1,940	2,660	1,820	2,090	152	* 450	318
13.....	1,500	1,410	1,630	1,800	1,800	1,690	2,540	1,630	2,060	97	* 525	478
14.....	1,210	1,420	1,440	1,880	1,750	1,630	2,460	1,590	2,300	254	686	932
15.....	1,150	1,400	1,220	1,760	1,220	1,690	2,320	1,720	2,320	188	855	606
16.....	1,210	1,400	1,390	1,680	1,780	2,090	2,270	2,080	2,140	170	807	790
17.....	1,270	1,420	1,750	1,770	2,270	1,940	2,300	2,300	1,710	450	587	665
18.....	1,170	1,440	1,880	1,580	2,480	1,880	2,160	2,940	1,920	345	706	748
19.....	1,190	1,460	1,890	1,710	2,120	1,990	2,180	3,310	2,030	59	444	726
20.....	1,230	1,510	1,760	1,600	2,160	1,680	2,110	3,780	1,860	37	411	665
21.....	1,210	1,540	1,630	1,720	3,420	1,620	2,080	3,610	1,710	123	706	855
22.....	1,210	1,440	1,770	1,210	4,310	1,920	1,980	3,130	1,650	317	527	1,270
23.....	1,350	1,390	1,860	1,400	3,920	1,840	2,010	2,780	1,430	* 325	805	1,070
24.....	1,230	1,320	1,770	1,750	2,780	1,690	1,940	2,570	1,300	126	556	480
25.....	1,260	1,460	1,460	1,280	2,300	1,690	2,120	2,720	1,270	348	80	363
26.....	1,160	1,420	1,340	1,500	2,250	1,760	2,300	2,440	1,470	194	26	176
27.....	1,260	1,490	1,220	1,660	2,520	1,720	2,670	2,160	1,120	384	24	188
28.....	1,320	1,750	922	1,800	2,180	1,590	3,270	2,090	1,150	432	20	360
29.....	1,340	1,630	1,380	1,800	-----	1,460	3,220	2,190	998	332	18	899
30.....	1,330	1,520	1,750	1,660	-----	1,750	3,350	2,380	1,020	568	134	932
31.....	1,330	-----	1,590	1,520	-----	1,810	-----	2,200	-----	478	418	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	1,460	1,080	1,260	77,500
November.....	1,750	1,320	1,440	85,700
December.....	1,890	922	1,540	94,700
January.....	1,930	1,210	1,680	103,000
February.....	4,310	1,220	2,060	114,000
March.....	2,230	1,460	1,870	115,000
April.....	3,350	1,890	2,420	144,000
May.....	3,780	1,590	2,610	160,000
June.....	2,320	998	1,770	105,000
July.....	1,680	37	307	18,900
August.....	855	18	434	26,700
September.....	1,270	119	557	33,100
The year.....	4,310	18	1,490	1,080,000

\* Estimated from electrical output of power plant.

## EAST FORK OF LITTLE BEAR RIVER NEAR AVON, UTAH

LOCATION.—Staff gage in NW.  $\frac{1}{4}$  sec. 18, T. 9 N., R. 2 E., at mouth of canyon 100 yards east of Law ranch house,  $1\frac{1}{2}$  miles below Pole Creek,  $1\frac{1}{2}$  miles above diversion dam of Avon-Paradise Canal, and 2 miles east of Avon.

DRAINAGE AREA.—67 square miles.

RECORDS AVAILABLE.—April to September, 1927.

EXTREMES.—Maximum discharge during period, about 800 second-feet April 27; minimum, 19 second-feet September 6 and 7.

REMARKS.—Records fair. No large diversions above station.

*Daily and monthly discharge, in second-feet, 1927*

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1.....	-----	460	93	38	25	20	16.....	62	285	63	31	23	20
2.....	-----	380	94	38	24	20	17.....	58	283	62	31	23	20
3.....	-----	309	96	37	24	20	18.....	59	256	60	30	23	20
4.....	-----	309	93	38	24	20	19.....	61	225	56	29	22	20
5.....	-----	243	93	38	24	20	20.....	60	203	53	28	22	20
6.....	66	304	93	35	24	19	21.....	61	166	52	28	21	20
7.....	71	234	94	35	24	19	22.....	72	156	50	31	21	20
8.....	99	225	99	36	24	20	23.....	118	145	48	30	21	20
9.....	90	179	92	35	24	21	24.....	156	118	44	31	21	20
10.....	75	162	87	34	23	20	25.....	280	115	38	30	21	21
11.....	76	160	84	33	23	20	26.....	346	115	38	27	20	20
12.....	66	160	84	33	23	21	27.....	565	121	42	27	20	20
13.....	66	191	76	32	23	24	28.....	580	128	33	26	20	23
14.....	61	234	73	33	23	24	29.....	493	116	42	26	21	23
15.....	60	261	68	32	24	21	30.....	471	99	41	27	21	24
							31.....	-----	99	-----	25	21	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April 6-30.....	580	58	167	8,280
May.....	460	99	208	12,800
June.....	99	38	68.4	4,070
July.....	38	25	31.7	1,950
August.....	25	20	22.5	1,380
September.....	24	19	20.7	1,230
The period.....	-----	-----	-----	29,700

## LOGAN RIVER ABOVE STATE DAM NEAR LOGAN, UTAH

LOCATION.—Water-stage recorder in sec. 36, T. 12 N., R. 1 E., at Logan plant of Utah Power & Light Co. 125 feet above confluence of tailrace with river and 2½ miles east of Logan.

DRAINAGE AREA.—218 square miles.

RECORDS AVAILABLE.—May, 1913, to September, 1927. June, 1896, to December, 1912, at old station a quarter of a mile downstream; flow at present station plus that of tailrace comparable to flow at old station.

EXTREMES.—Maximum discharge during year, 941 second-feet May 18; maximum gage height, 4.62 feet May 17; minimum discharge, 14 second-feet August 28 (gage height, 1.87 feet).

1913-1927: Maximum discharge (estimated), 2,000 second-feet March 21, 1916 (gage height, 5.6 feet); minimum, 8 second-feet December 11, 1915.

REMARKS.—Records good. Water is diverted from river and springs upstream for power, irrigation, and municipal supply. Flow is regulated by operation of power plants above station. Gage-height record and results of seven discharge measurements furnished by Utah Power & Light 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	18	16	15	15	16	31	357	277	318	52	16
2-----	16	16	16	15	16	16	30	346	329	285	52	16
3-----	16	16	17	15	16	16	25	298	329	281	50	14
4-----	16	17	19	15	15	18	25	274	349	285	48	15
5-----	16	18	16	15	15	17	20	251	353	299	50	15
6-----	17	18	16	15	14	17	20	245	468	246	42	15
7-----	19	17	15	15	15	18	21	257	547	217	38	15
8-----	18	17	15	15	16	20	26	238	710	201	36	15
9-----	18	16	15	15	16	21	19	197	738	192	34	15
10-----	18	16	14	15	17	19	18	162	732	175	28	15
11-----	17	16	15	15	15	17	17	211	748	161	25	16
12-----	17	17	15	15	15	17	16	270	760	145	28	17
13-----	16	17	15	16	14	17	16	287	721	123	30	16
14-----	16	17	15	15	15	23	16	334	754	114	31	15
15-----	16	17	14	16	15	25	16	540	809	105	31	15
16-----	16	16	14	16	15	23	17	680	842	92	28	15
17-----	16	16	14	16	16	22	18	832	704	82	26	15
18-----	17	16	14	16	16	22	18	858	610	76	22	15
19-----	16	16	14	16	15	22	18	721	605	68	20	15
20-----	16	16	14	16	15	19	18	509	585	54	17	15
21-----	16	16	14	16	20	20	18	445	547	53	16	15
22-----	16	16	15	16	23	20	26	381	518	48	16	15
23-----	16	17	15	16	20	20	51	345	495	42	15	15
24-----	16	17	14	15	18	21	107	318	486	40	15	15
25-----	16	18	14	15	15	22	154	277	481	39	15	16
26-----	16	18	14	15	15	20	220	310	459	38	16	17
27-----	16	18	15	16	15	20	287	357	441	33	15	17
28-----	16	17	14	16	15	20	353	402	415	42	14	17
29-----	16	16	14	15	-----	24	327	341	398	43	15	17
30-----	17	17	14	15	-----	29	316	307	365	47	15	16
31-----	16	-----	15	15	-----	35	-----	285	-----	43	15	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October-----	19	16	16.5	1,010
November-----	18	16	16.8	1,000
December-----	19	14	14.9	916
January-----	16	15	15.4	947
February-----	23	14	16.0	889
March-----	35	16	20.5	1,260
April-----	353	16	75.5	4,490
May-----	858	162	375	23,100
June-----	842	277	552	32,800
July-----	318	33	129	7,930
August-----	52	14	27.6	1,700
September-----	17	15	15.5	922
The year-----	858	14	106	77,000

## UTAH POWER &amp; LIGHT CO.'S TAILRACE NEAR LOGAN, UTAH

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  sec. 36, T. 12 N., R. 1 E., 100 feet below power house of Utah Power & Light Co. and  $2\frac{1}{2}$  miles east of Logan.

RECORDS AVAILABLE.—May, 1913, to September, 1927.

REMARKS.—Records good. Flow is regulated by operation of power plant above gage. This canal diverts from right bank of Logan River in SE.  $\frac{1}{4}$  SW.  $\frac{1}{4}$  sec. 29, T. 12 N., R. 2 E., for power development. Water is returned to river 125 feet below gaging station on Logan River above State dam. Gage-height record and results of seven discharge measurements furnished by Utah Power & Light Co.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	89	93	89	81	78	81	96	161	161	172	169	150
2.....	89	90	87	84	74	79	121	162	161	169	169	150
3.....	90	87	87	83	72	79	158	162	161	169	170	150
4.....	90	87	84	83	74	80	143	144	160	164	169	149
5.....	90	83	84	83	73	80	138	162	160	134	169	150
6.....	91	84	89	81	72	83	138	161	158	172	169	148
7.....	91	83	87	84	73	84	145	161	156	170	169	148
8.....	94	83	87	81	73	87	158	161	156	170	169	149
9.....	94	84	85	79	74	88	158	161	156	170	167	146
10.....	93	85	85	81	75	87	143	161	160	170	172	146
11.....	93	85	82	87	69	80	145	60	160	172	174	127
12.....	93	89	76	80	61	79	141	11	162	172	174	142
13.....	94	90	83	80	66	81	136	57	156	172	174	143
14.....	94	87	82	80	73	84	131	164	122	170	174	143
15.....	93	88	73	76	74	84	129	161	0	169	174	141
16.....	91	87	60	76	75	84	145	162	0	169	172	139
17.....	90	87	70	80	79	83	136	164	116	167	174	138
18.....	91	85	81	78	79	83	139	164	170	167	174	136
19.....	93	87	78	74	75	83	148	162	172	167	174	135
20.....	93	88	81	76	76	76	142	162	172	167	172	136
21.....	91	88	80	78	83	80	142	162	172	167	169	136
22.....	91	91	82	74	83	81	158	166	174	169	169	136
23.....	89	88	81	72	82	81	162	166	175	169	169	136
24.....	87	90	74	73	82	83	164	166	175	167	164	139
25.....	88	90	71	70	81	82	164	164	178	170	161	136
26.....	89	94	79	70	80	81	162	164	178	169	160	136
27.....	93	100	80	70	83	82	161	164	182	169	161	134
28.....	93	98	80	79	82	84	161	164	182	170	162	138
29.....	93	95	79	79	-----	84	161	164	175	169	158	150
30.....	91	89	78	75	-----	87	161	162	172	170	154	156
31.....	88	-----	83	78	-----	83	-----	161	-----	170	154	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	94	87	91.3	5,610
November.....	100	83	88.5	5,270
December.....	89	60	80.5	4,950
January.....	87	70	78.2	4,810
February.....	83	61	75.8	4,210
March.....	88	76	82.4	5,070
April.....	164	96	146	8,690
May.....	166	11	151	9,280
June.....	182	0	153	9,100
July.....	172	134	168	10,300
August.....	174	154	168	10,300
September.....	156	134	142	8,450
The year.....	182	0	119	86,000

## LOGAN, HYDE PARK &amp; SMITHFIELD CANAL NEAR LOGAN, UTAH

LOCATION.—Water-stage recorder in SE.  $\frac{1}{4}$  sec. 25, T. 12 N., R. 1 E., at concrete rating flume  $\frac{1}{4}$  miles below head of canal and  $2\frac{1}{2}$  miles east of Logan.

RECORDS AVAILABLE.—June, 1904, to September, 1927.

REMARKS.—Records good except those for estimated periods, which are fair. No diversions above gage. Flow regulated by head gates at diversion works. This canal diverts water from Logan River in NE.  $\frac{1}{4}$  NE.  $\frac{1}{4}$  sec. 31, T. 12 N., R. 2 E., for irrigation and domestic use in territory north of Logan. Gage-height record furnished by Logan, Hyde Park & Smithfield 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.....	24	6	5	5		6		73	63	111	69	41
2.....	22	4	5	5		6		77	67	108	66	40
3.....	21	4	5	5		6		84	69	111	65	39
4.....	20	4	4	5		7		94	70	114	62	38
5.....	16	6	7	5		7		98	69	118	56	36
6.....	14	6	8	5		6		97	75	110	54	36
7.....	11	6	9			6		99	83	116	52	37
8.....	11	6	9			8		98	92	118	51	35
9.....	11	6	8			8		92	93	118	51	37
10.....	11	6	8		5	8		89	93	118	54	40
11.....	11	6	8			7		96	94	115	52	42
12.....	12	6	8			7		99	94	116	50	42
13.....	10	6	8				6	96	94	121	45	42
14.....	9	4	7			7		71	99	118	44	40
15.....	8	5	7					1	102	118	43	37
16.....	8	10	5			1		102	123	123	41	37
17.....	8	11	5			2		97	122	122	39	36
18.....	9	7	5	5		2		97	122	122	39	34
19.....	9	6	5		4	2		97	121	121	40	35
20.....	9	6	5		4	2		97	119	119	43	34
21.....	8	6	5		4			10	94	123	44	34
22.....	8	6	5		5	6		4	105	121	42	34
23.....	8	6	5		6			1	109	120	40	34
24.....		6	6		6			2	113	113	42	35
25.....		6	4		6		20	34	115	108	42	34
26.....	8	6	4		6	30	63	113	104	104	43	34
27.....		5	4		6	30	66	113	91	91	38	34
28.....		5	4		6	36	69	114	76	76	38	36
29.....	8	5	4			48	66	118	76	76	40	28
30.....	8	5	4			66	64	115	82	82	43	19
31.....	8		4				63			80	42	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	24	8	10.0	676
November.....	11	4	5.9	351
December.....	9	4	5.8	357
January.....			5.0	307
February.....	6		5.1	283
March.....	8		6.4	394
April.....	66		12.5	744
May.....	99	1	55.3	3,400
June.....	118	63	95.2	5,060
July.....	123	76	111	6,820
August.....	69	38	47.4	2,910
September.....	42	19	36.0	2,140
The year.....	123	1	33.2	24,000

## BLACKSMITH FORK ABOVE UTAH POWER &amp; LIGHT CO.'S DAM, NEAR HYRUM, UTAH

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  sec. 8, T. 10 N., R. 2 E., 1 mile above diversion dam,  $3\frac{1}{2}$  miles above power plant of Utah Power & Light Co., and 6 miles east of Hyrum.

DRAINAGE AREA.—260 square miles.

RECORDS AVAILABLE.—July, 1900, to December, 1902; November, 1913, to September, 1927.

EXTREMES.—Maximum discharge during year, 738 second-feet May 2 (gage height, 3.90 feet); minimum, about 65 second-feet during winter.

1913-1927: Maximum discharge, about 1,620 second-feet May 15, 1917 (gage height, 6.5 feet); minimum, about 22 second-feet February 6, 1916 (gage height, 0.85 foot).

REMARKS.—Records good except those for estimated periods, which are fair. No large diversions above station. Gage-height record and results of six discharge measurements furnished by Utah Power & Light Co.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	76	72	72	a 68	a 68	72	107	620	205	a 135	111	100
2	74	72	72	a 68		72	212	570	210	a 125	112	98
3	74	72	71	a 69			198	464	212	a 124	112	98
4	73	72	71	70			155	406	210	a 123	114	97
5	73	72	71	70		a 75	141	372	212	122	112	97
6	73	73	70	70	a 68		145	355	214	121	112	95
7	a 73	72	70	71			153	372	219	119	112	94
8	a 73	72	70	69		79	173	333	219	117	109	94
9	a 73	73	69	69		79	162	295	212	117	107	95
10	a 73	73	69	68		75	147	256	200	115	107	100
11	73	73	70	69		75	153	244	191	114	107	95
12	73	73	70	69		73	139	252	184	114	106	97
13	73	73	69	69		75	133	282	179	114	104	98
14	73	73	a 68	68		81	131	327	173	112	104	98
15	73	73	a 68	68	70	81	131	369	166	111	104	97
16	72	76	a 69	68	70	77	145	409	159	111	103	95
17	71	74	69	68	70	77	131	436	145	107	101	95
18	70	74	69	67	69	75	137	418	a 141	107	101	95
19	72	76	69	67	67	74	141	363	a 143	107	101	94
20	72	76	69	68	69	73	139	335	a 143	107	101	94
21	72	75	a 68	69	75	74	141	303	a 142	106	101	94
22	73	74			74	77	155	279	141	107	100	94
23	73	73			72	81	182	259		107	100	94
24	72	73			72	85	219	244		107	101	95
25	72	77			72	85	262	232		109	101	97
26	72	74	a 68	a 68	73	86	330	232	a 131	107	101	97
27	72	80			74	86	427	244		109	100	97
28	72	77			73	95	515	254		111	100	101
29	72	73				98	537	244		111	103	100
30	72	73				107	570	224		112	101	98
31	72					106		212		111	100	
Month						Discharge in second-feet			Run-off in acre-feet			
						Maximum	Minimum	Mean				
October						76	70	72.6	4,460			
November						80	72	73.8	4,390			
December						72		69.1	4,250			
January						75		68.5	4,210			
February						75		68.7	3,570			
March						107	72	80.4	4,940			
April						570	107	210	12,500			
May						620	212	329	20,200			
June						219		170	10,100			
July						125		113	6,950			
August						114	100	105	6,480			
September						101	94	96.4	5,740			
The year						620		122	88,100			

a Estimated.



## WEST SIDE CANAL NEAR COLLINSTON, UTAH

LOCATION.—Water-stage recorder in NW.  $\frac{1}{4}$  sec. 34, T. 13 N., R. 2 W., at Wheelon siding on Oregon Short Line Railroad, 600 feet below penstock of Utah Power & Light Co.'s Wheelon plant, 1,000 feet northwest of gaging station on Bear River, and 4 miles north of Collinston.

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

REMARKS.—Water is taken out of canal 600 feet above gage for power plant; and if necessary water can also be siphoned across river to Hammond Canal. Flow can be regulated at head gates, and also at forebay of power plant. This canal diverts from west side of Bear River in NW.  $\frac{1}{4}$  SW.  $\frac{1}{4}$  sec. 26, T. 13 N., R. 2 W., at same diversion dam as Hammond (East Side) Canal and Wheelon power plant. Records furnished by Utah Power & Light Co.

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

Day	Oct.	Nov.	Dec.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	306	136	61	16	0	100	375	635	568	597
2.....	299	90	62	15	0	118	417	630	570	596
3.....	303	86	61	15	0	160	411	624	570	575
4.....	294	86	62	16	0	196	412	624	567	570
5.....	299	89	62	16	0	212	417	623	567	568
6.....	285	89	62	16	0	213	417	628	567	567
7.....	243	87	61	16	0	233	532	633	567	570
8.....	245	89	60	15	0	233	590	635	567	570
9.....	136	87	60	14	0	270	574	635	568	575
10.....	138	87	60	16	0	289	582	632	570	568
11.....	134	87	60	16	0	289	590	633	555	545
12.....	184	87	59	16	0	282	590	632	545	537
13.....	202	88	58	16	0	444	608	626	543	486
14.....	198	89		15	0	410	613	611	394	386
15.....	196	87		15	0	417	602	609	386	386
16.....	192	72		15	0	476	599	631	442	386
17.....	185	63		16	0	513	611	628	466	382
18.....	185	62		16	0	568	608	624	482	384
19.....	191	62		16	0	577	608	614	494	384
20.....	195	62		16	0	317	606	624	497	382
21.....	186	63		16	0	460	606	624	495	381
22.....	185	63	20	15	0	494	623	626	494	387
23.....	186	62		16	0	476	633	626	513	378
24.....	183	63		16	0	439	630	630	551	376
25.....	184	63		12	0	426	631	628	609	392
26.....	184	62		0	0	416	630	619	608	400
27.....	182	62		0	0	458	631	609	608	386
28.....	183	62		0	43	398	628	580	618	368
29.....	183	61		0	64	384	604	567	613	368
30.....	183	62		0	97	364	630	567	601	324
31.....	181			0		363		567	597	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	306	134	207	12, 700
November.....	136	61	76.9	4, 580
December.....	62		37.0	2, 280
January.....			* 20	1, 230
February.....			* 15	833
March.....	16	0	12.5	769
April.....	97	0	6.8	405
May.....	577	100	355	21, 800
June.....	633	375	567	33, 700
July.....	635	567	619	38, 100
August.....	618	386	542	33, 300
September.....	597	324	459	27, 300
The year.....	635	0	245	177, 000

\* Estimated.

## HAMMOND (EAST SIDE) CANAL NEAR COLLINSTON, UTAH

LOCATION.—Water-stage recorder in NW.  $\frac{1}{4}$  sec. 34, T. 13 N., R. 2 W., at Wheelon siding on Oregon Short Line Railroad, 400 feet below penstock of Utah Power & Light Co. and 4 miles north of Collinston.

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

REMARKS.—Water is taken from this canal 400 feet above gage for power plant. Flow can be regulated at head gates and by means of a wasteway at power plant forebay. This canal diverts from west side of Bear River in NW.  $\frac{1}{4}$  SW.  $\frac{1}{4}$  sec. 26, T. 13 N., R. 2 W., at same diversion dam as West Side Canal and Wheelon power plant. Records furnished by Utah Power & Light 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	28	8	0	0	0	0	44	76	165	148	154
2-----	41	8	8	0	0	0	0	51	84	165	147	154
3-----	42	8	5	0	0	0	0	54	80	165	147	150
4-----	42	8	0	0	0	0	0	72	80	165	147	145
5-----	36	8	0	0	0	0	0	80	80	165	145	142
6-----	39	8	0	0	0	0	0	80	93	165	147	139
7-----	40	8	0	0	0	0	0	78	112	165	147	140
8-----	39	8	0	0	0	0	0	77	116	165	146	140
9-----	39	8	0	0	0	0	0	77	116	165	146	142
10-----	39	8	0	0	0	0	0	78	111	165	146	140
11-----	38	8	0	0	0	0	0	78	100	165	147	136
12-----	38	8	0	0	0	0	0	81	103	163	147	134
13-----	39	8	0	0	0	0	0	101	109	158	148	119
14-----	39	8	0	0	0	0	0	112	127	154	109	76
15-----	39	8	0	0	0	0	0	112	124	153	107	74
16-----	39	8	0	0	0	0	0	112	132	155	127	74
17-----	39	8	0	0	0	0	0	128	134	154	139	74
18-----	39	8	0	0	0	0	0	136	127	153	145	74
19-----	39	8	0	0	0	0	0	140	130	152	145	74
20-----	39	8	0	0	0	0	0	82	138	150	145	73
21-----	39	8	0	0	0	0	0	82	144	150	145	73
22-----	39	8	0	0	0	0	0	80	145	150	145	75
23-----	39	8	0	0	0	0	0	77	145	150	145	87
24-----	40	8	0	0	0	0	0	58	146	151	147	97
25-----	40	8	0	0	0	0	24	57	146	150	152	96
26-----	40	8	0	0	0	0	22	56	146	150	155	95
27-----	40	8	0	0	0	0	21	60	150	150	154	96
28-----	39	8	0	0	0	0	36	60	150	151	155	95
29-----	40	8	0	0	-----	0	44	60	156	139	154	94
30-----	39	8	0	0	-----	0	44	58	165	134	154	92
31-----	39	-----	0	0	-----	0	-----	59	-----	139	154	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October-----	42	18	38.6	2,370
November-----	28	8	8.7	518
December-----	8	0	.7	43
April-----	44	0	6.4	381
May-----	140	44	80.0	4,920
June-----	165	76	122	7,260
July-----	165	134	156	9,590
August-----	155	107	145	8,920
September-----	154	73	108	6,430
The year-----	165	0	55.8	40,400

## WEBER RIVER BASIN

## WEBER RIVER NEAR OAKLEY, UTAH

**LOCATION.**—Staff gage in NE.  $\frac{1}{4}$  sec. 15, T. 1 S., R. 6 E., near mouth of canyon 3 miles northeast of Oakley. South Fork of Weber River enters 2 miles above station and Beaver or Kamas Creek 6 miles below.

**DRAINAGE AREA.**—163 square miles.

**RECORDS AVAILABLE.**—October, 1904, to September, 1927.

**EXTREMES.**—Maximum discharge during year, 1,790 second-feet June 8 (gage height, 7.5 feet); minimum, 50 second-feet October 29 to November 4 (gage height, 4.1 feet).

1904–1927: Maximum discharge, 4,000 second-feet July 6, 1907, and June 5–7, 1909; minimum, 46 second-feet part of February and March, 1908 (gage height, 4.0 feet).

**REMARKS.**—Records fair. No large diversions above gage. Flow regulated by storage dam at outlet of Fish Lake; during 1927 a small reservoir was constructed on Smith and Morehouse Creeks. Total capacity of both reservoirs, about 1,500 acre-feet.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	68	50	61			56	68	670	510	464	129	87
2	68	50	61			56	74	610	510	421	118	87
3	68	50	61				74	610	560	464	118	85
4	68	50	61				74	610	610	421	140	84
5	65	52	61				74	610	790	380	140	82
6						56						
6	64	52	61				82	610	1,130	341	136	82
7	61	52	61	55			82	670	1,370	304	134	82
8	61	52	61				90	560	1,700	304	129	79
9	61	53	59		55	56	90	421	1,790	286	129	77
10	61	53					90	380	1,700	286	125	90
11							90	380	1,450	236	123	77
12	59	56	55				82	421	1,450	221	118	74
13	59	56				58	74	421	1,370	221	118	74
14	59	56		56			74	560	1,370	206	114	99
15	59	56					74	850	1,370	195	112	90
16							74	1,210	1,370	178	108	90
17	58	56			56	61	74	1,610	1,290	165	108	90
18	58	56					74	1,610	1,610	152	108	90
19	58	58				58	74	1,370	1,610	152	104	90
20	57	58					82	1,210	1,210	152	103	90
21						56	79	850	1,130	178	99	87
22	56	58		55		56	82	670	1,060	165	108	87
23	56	59			56	56	99	560	1,060	165	99	85
24	53	59	52			58	129	510	990	165	95	85
25	53	59				59	165	510	920	192	94	99
26						59	236	560	730	178	90	90
27	52	59				61	341	730	730	165	90	87
28	52	61				61	421	790	790	152	90	85
29	50	61				68	560	670	670	152	90	90
30	50	61				68	610	610	610	152	90	90
31	50					68		560		140	90	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	68	50	58.4	3,590
November	61	50	55.6	3,310
December	61		55.1	3,320
January			55.0	3,380
February			55.4	3,080
March	68		58.5	3,600
April	610	68	143	8,510
May	1,610	380	723	44,500
June	1,790	510	1,120	66,600
July	464	140	237	14,600
August	140	90	111	6,820
September	99	74	86.1	5,120
The year	1,790	50	230	166,000

## WEBER RIVER NEAR COALVILLE, UTAH

LOCATION.—Staff gage in NE.  $\frac{1}{4}$  sec. 20, T. 2 N., R. 5 E., at river bridge above high-water contour for Echo Reservoir,  $1\frac{1}{2}$  miles south of Coalville.

DRAINAGE AREA.—438 square miles.

RECORDS AVAILABLE.—April to September, 1927.

EXTREMES.—Maximum discharge during period, 1,580 second-feet June 10 (gage height, 4.00 feet); minimum, 66 second-feet August 25 (gage height, 0.55 foot).

REMARKS.—Records fair. There are numerous irrigation diversions above and below station. Flow regulated by two small reservoirs above station. Gage-height record furnished by United States Bureau of Reclamation.

*Daily and monthly discharge, in second-feet, 1927*

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1.....	383	928	570	482	97	69	16.....	222	1,190	a 1,490	106	88	143
2.....	461	955	503	441	88	67	17.....	245	1,440	a 1,379	a 97	80	134
3.....	421	955	547	a 380	106	80	18.....	266	1,510	1,510	88	80	128
4.....	433	900	593	a 330	a 110	a 82	19.....	297	1,440	1,440	a 80	83	128
5.....	340	872	740	402	a 105	83	20.....	281	1,250	1,279	72	82	118
6.....	383	a 840	928	297	a 110	75	21.....	a 250	1,100	1,160	80	78	118
7.....	461	845	1,160	a 250	a 120	74	22.....	287	955	1,079	72	80	118
8.....	503	740	1,190	200	a 110	74	23.....	400	845	978	80	82	118
9.....	383	666	1,540	214	106	168	24.....	547	715	875	a 86	78	118
10.....	297	593	1,540	a 200	102	128	25.....	482	641	740	92	66	132
11.....	281	547	1,370	188	a 98	106	26.....	525	a 670	676	a 100	72	132
12.....	266	547	1,190	170	a 94	106	27.....	690	690	670	106	75	128
13.....	251	547	a 1,300	147	a 90	106	28.....	765	765	740	a 106	80	118
14.....	228	666	a 1,400	132	86	152	29.....	900	a 720	715	a 106	77	139
15.....	195	845	1,480	116	86	136	30.....	928	a 650	617	106	77	208
							31.....		641		110	77	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April.....	928	195	412	24,500
May.....	1,510	547	861	52,900
June.....	1,540	503	1,040	61,900
July.....	482	72	175	10,800
August.....	120	66	89.1	5,480
September.....	208	67	116	6,900
The period.....				162,000

a Estimated.

## WEBER RIVER AT ECHO, UTAH

LOCATION.—Staff gage in SE.  $\frac{1}{4}$  NE.  $\frac{1}{4}$  sec. 25, T. 3 N., R. 4 E., one-fourth mile downstream from Echo dam site, one-fourth mile upstream from Echo Creek, and half a mile southeast of Echo.

DRAINAGE AREA.—732 square miles.

RECORDS AVAILABLE.—April to September, 1927.

EXTREMES.—Maximum discharge during period, 2,140 second-feet May 18 (gage height, 3.70 feet); minimum, 87 second-feet August 25 (gage height, 0.27 foot).

REMARKS.—Records fair. There are numerous irrigation diversions above and below station. One small diversion between gage and Echo dam site. Flow regulated by two small reservoirs above station. Gage-height record furnished by United States Bureau of Reclamation.

*Daily and monthly discharge, in second-feet, 1927*

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1.....	353	1,290	835	615	128	92	16.....	281	1,610	* 1,700	154	105	166
2.....	492	1,370	770	530	115	88	17.....	288	1,780	* 1,600	* 140	102	161
3.....	552	1,250	802	* 450	122	102	18.....	302	2,140	1,650	132	102	154
4.....	546	1,170	802	* 400	* 130	* 102	19.....	357	1,870	1,870	* 115	105	154
5.....	415	1,210	905	502	* 125	102	20.....	317	1,610	1,610	98	100	150
6.....	444	* 1,150	1,130	401	* 130	96	21.....	* 280	1,530	1,410	111	105	147
7.....	455	1,170	1,450	* 340	* 140	96	22.....	344	1,290	1,210	109	111	147
8.....	621	1,050	1,530	281	* 135	94	23.....	465	1,130	1,050	111	109	143
9.....	497	870	1,920	281	128	221	24.....	502	961	1,050	* 120	96	136
10.....	* 440	770	1,870	* 264	124	113	25.....	585	905	919	132	87	178
11.....	387	705	1,690	248	* 120	143	26.....	738	* 960	770	* 130	96	171
12.....	298	705	1,610	221	* 115	161	27.....	1,050	1,010	802	143	100	161
13.....	317	770	* 1,650	204	* 110	171	28.....	1,130	1,130	870	* 143	105	156
14.....	278	1,050	* 1,700	196	107	191	29.....	1,210	* 1,100	870	* 143	96	178
15.....	248	1,250	1,870	176	107	178	30.....	1,170	* 960	770	143	98	233
							31.....		870		143	96	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April.....	1,210	248	512	30,500
May.....	2,140	705	1,180	72,600
June.....	1,920	770	1,290	76,800
July.....	615	98	231	14,200
August.....	140	87	111	6,820
September.....	233	88	146	8,690
The period.....	-----	-----	-----	210,000

\* Estimated.

## WEBER RIVER AT DEVILS SLIDE, UTAH

LOCATION.—Staff gage in SW.  $\frac{1}{4}$  sec. 19, T. 4 N., R. 4 E., 300 feet north of hotel, and 500 feet downstream from highway bridge at Devils Slide. Lost Creek enters from right a quarter of a mile above station.

DRAINAGE AREA.—1,090 square miles.

RECORDS AVAILABLE.—February, 1905, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,730 second-feet May 18 (gage height, 5.43 feet); minimum, 88 second-feet January 23 (gage height, 1.80 feet).

1905-1927: Maximum discharge, 6,000 second-feet May 22, 1920 (gage height, 8.0 feet); minimum, 31 second-feet September 3, 1919.

REMARKS.—Records fair; discharge interpolated August 28 and 29. There are numerous diversions above station for irrigation and domestic use. Flow regulated by two small 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.....	118	132	263	139	161	194	563	2,180	1,040	634	148	112
2.....	112	135	259	142	167	216	628	2,100	966	563	136	109
3.....	112	135	267	176	173	238	861	2,030	1,020	465	131	109
4.....	132	135	233	180	173	279	814	1,900	1,000	434	142	109
5.....	118	141	225	180	167	275	628	1,840	1,080	552	134	103
6.....	112	138	211	184	154	287	684	1,820	1,280	429	145	109
7.....	109	138	233	194	154	262	788	1,880	1,540	367	161	107
8.....	118	135	325	148	142	287	882	1,640	1,720	321	154	104
9.....	126	132	173	154	139	326	762	1,410	1,910	313	142	262
10.....	118	141	154	148	120	250	580	1,190	1,930	296	142	180
11.....	112	154	183	161	114	227	563	1,090	1,760	287	136	158
12.....	112	154	222	167	131	212	513	1,050	1,720	258	131	158
13.....	123	170	198	167	128	219	475	1,140	1,730	242	131	167
14.....	121	170	134	161	139	279	450	1,460	1,730	219	125	208
15.....	121	163	120	167	170	317	313	1,780	1,960	204	131	198
16.....	115	163	134	167	170	246	475	2,180	1,830	145	125	187
17.....	121	170	187	161	180	242	424	2,480	1,650	145	122	180
18.....	121	170	204	142	164	223	465	2,730	1,820	128	117	173
19.....	123	176	201	151	158	198	552	2,410	1,760	120	114	173
20.....	126	193	194	167	180	184	497	2,190	1,700	117	114	167
21.....	129	193	142	154	216	216	455	1,910	1,450	120	109	164
22.....	129	176	159	97	254	250	518	1,750	1,280	112	131	161
23.....	129	167	154	88	242	287	684	1,540	1,140	122	117	161
24.....	132	163	142	102	238	317	749	1,330	1,060	120	109	154
25.....	132	218	164	128	246	390	959	1,230	910	142	104	184
26.....	132	233	176	139	254	405	1,190	1,260	808	134	112	194
27.....	129	300	151	170	296	410	1,540	1,340	814	167	109	180
28.....	129	330	164	170	223	507	1,780	1,420	854	161	112	180
29.....	129	292	158	161	-----	524	1,930	1,420	889	167	115	198
30.....	129	263	134	161	-----	558	1,930	1,230	775	161	117	227
31.....	129	-----	142	151	-----	540	-----	1,110	-----	154	114	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	132	109	123	7,560
November.....	330	132	179	10,700
December.....	267	120	184	11,300
January.....	194	88	154	9,470
February.....	296	114	180	10,000
March.....	558	184	302	18,600
April.....	1,930	313	788	46,900
May.....	2,730	1,050	1,680	103,000
June.....	1,960	775	1,370	81,500
July.....	634	112	252	15,500
August.....	161	104	127	7,810
September.....	262	104	163	9,700
The year.....	2,730	88	459	332,000

## WEBER RIVER AT GATEWAY, UTAH

**LOCATION.**—Water-stage recorder in NW.  $\frac{1}{4}$  SW.  $\frac{1}{4}$  sec. 27, T. 5 N., R. 1 E., 300 feet below mouth of Strawberry Creek, 1,400 feet above Union Pacific Railroad bridge, and 4,400 feet above section house at Gateway.

**DRAINAGE AREA.**—1,610 square miles.

**RECORDS AVAILABLE.**—June to September 1919; July, 1920, to September, 1927. October, 1889, to July, 1903, at a station 1 mile downstream, known as Weber River near Uinta, Utah. Records are comparable.

**EXTREMES.**—Maximum discharge during year, 3,810 second-feet May 17 (gage height, 5.58 feet); minimum (estimated), 170 second-feet January 23, 1889–1903, 1919–1927: Maximum discharge, 7,980 second-feet May 31, 1896; minimum, 65 second-feet August 7–13, 1898.

**REMARKS.**—Records good except those for November 16–19, December 9–16, 18–29, December 31 to February 5, February 10–19, June 20–24, July 3–10, August 18–20, and September 11–13, which were estimated. There are numerous diversions for irrigation above and below station. Water is stored on East Canyon Creek above station and 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.....	182	178	369	230	240	350	1,040	3,310	1,600	899	406	307
2.....	188	178	355	240	240	350	1,330	3,230	1,470	814	385	297
3.....	185	180	381	250	250	377	1,490	3,010	1,520	650	373	290
4.....	196	180	366	260	260	462	1,410	2,820	1,540	550	377	293
5.....	196	180	348	260	250	535	1,160	2,690	1,580	650	365	293
6.....	198	178	334	270	247	540	1,160	2,630	1,730	600	369	293
7.....	182	185	341	270	238	511	1,310	2,650	1,060	550	381	293
8.....	190	188	293	230	229	521	1,580	2,420	2,170	500	369	304
9.....	201	185	270	230	218	540	1,460	2,060	2,320	475	365	406
10.....	198	188	240	240	200	453	1,140	1,770	2,360	450	364	418
11.....	190	198	260	240	180	389	1,060	1,700	2,210	436	343	330
12.....	188	215	290	250	190	373	965	1,660	2,140	423	332	310
13.....	193	226	250	250	190	385	861	1,810	2,060	484	335	320
14.....	196	226	240	240	190	511	798	2,140	2,040	493	318	410
15.....	193	224	220	230	210	554	761	2,540	2,300	490	304	380
16.....	190	225	250	240	240	444	830	3,070	2,190	462	307	350
17.....	185	230	241	240	230	423	787	3,520	1,990	444	307	320
18.....	185	230	250	220	230	389	824	3,720	1,850	427	300	300
19.....	182	235	260	230	250	346	905	3,420	2,060	398	295	287
20.....	182	247	270	230	245	324	872	3,060	1,900	394	290	280
21.....	185	256	250	230	398	362	835	2,680	1,750	410	284	270
22.....	185	253	230	190	494	451	916	2,400	1,550	410	284	274
23.....	185	250	220	170	410	493	1,130	2,260	1,400	410	287	274
24.....	182	253	220	180	373	573	1,400	2,020	1,200	431	284	280
25.....	182	310	230	200	394	647	1,700	1,860	1,070	448	284	284
26.....	182	337	240	230	453	662	2,060	1,830	982	480	287	297
27.....	182	464	250	240	507	698	2,510	1,910	948	480	290	293
28.....	180	551	240	250	402	798	2,850	2,020	982	462	293	300
29.....	178	403	230	250	-----	867	3,050	2,010	1,040	440	307	318
30.....	178	369	229	240	-----	1,010	3,090	1,840	992	427	307	369
31.....	178	-----	240	240	-----	938	-----	1,700	-----	410	314	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	201	178	187	11,500
November.....	551	178	251	14,900
December.....	381	220	271	16,700
January.....	270	170	235	14,400
February.....	507	180	286	15,900
March.....	1,010	324	524	32,200
April.....	3,090	761	1,386	52,100
May.....	3,720	1,660	2,446	150,000
June.....	2,360	948	1,700	101,000
July.....	899	394	496	30,500
August.....	406	284	326	20,000
September.....	418	270	315	18,700
The year.....	3,720	170	702	508,000

## WEBER RIVER NEAR PLAIN CITY, UTAH

LOCATION.—Chain gage in SE.  $\frac{1}{4}$  sec. 5, T. 6 N., R. 2 W., at county highway bridge 1 mile south of Plain City, 1 mile below mouth of Fourmile Creek, and 6 miles above point where Weber River empties into Great Salt Lake.

DRAINAGE AREA.—2,060 square miles.

RECORDS AVAILABLE.—May, 1905, to September, 1927. Records obtained in 1904 by State engineer.

EXTREMES.—Maximum discharge during year, 5,030 second-feet May 2 (gage height, 17.40 feet); minimum, 4 second-feet September 1 (gage height, 1.83 feet).

1904-1927: Maximum discharge, 7,580 second-feet June 6, 1909 (gage height, 19.1 feet); river practically dry during later part of several summers since 1915.

REMARKS.—Records fair. In summer practically entire flow of Weber River above station is diverted for irrigation. Flow is slightly regulated by storage in East Canyon Creek Reservoir.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	129	144	437	258	310	705	1,680	4,880	2,000	236	21	4
2	182	150	416	201	321	648	1,780	5,030	1,780	194	21	4
3	185	146	395	281	336	652	2,090	4,570	1,770	160	20	6
4	170	146	384	297	356	750	1,970	4,160	1,760	165	20	8
5	163	145	382	312	364	934	2,060	3,630	1,760	170	16	8
6	162	150	416	327	358	1,070	1,930	3,480	1,780	178	13	7
7	159	151	338	348	342	1,090	2,130	3,530	1,850	231	15	6
8	169	170	342	304	297	1,130	2,310	3,370	1,940	165	18	6
9	160	162	321	295	260	1,180	2,620	2,890	2,050	95	18	6
10	153	162	306	308	267	1,080	2,120	2,510	2,140	74	18	8
11	150	163	270	342	295	871	1,880	2,070	2,060	55	19	25
12	145	170	306	332	312	758	1,770	2,010	1,990	44	22	33
13	144	182	334	330	325	718	1,700	2,120	1,880	28	22	55
14	142	201	264	338	340	752	1,460	2,410	1,860	86	24	56
15	140	201	200	329	426	814	1,390	2,890	2,110	33	25	60
16	139	204	284	348	453	859	1,460	3,590	2,090	31	22	84
17	139	232	308	342	489	793	1,410	4,230	2,000	23	19	96
18	137	255	325	334	503	742	1,350	4,560	1,910	22	20	87
19	130	258	319	323	500	692	1,440	4,560	1,810	22	18	77
20	121	262	325	317	512	620	1,400	4,120	1,670	21	15	60
21	118	264	286	298	524	618	1,380	3,280	1,430	20	14	54
22	122	264	319	245	955	625	1,390	3,190	1,240	20	10	46
23	138	264	310	242	1,000	790	1,720	2,890	994	20	8	44
24	134	272	395	239	698	898	2,150	2,520	745	23	8	39
25	128	308	354	234	735	976	2,640	2,320	553	26	8	35
26	142	376	288	267	728	1,100	2,900	2,370	484	26	7	61
27	151	484	282	300	796	1,170	3,800	2,460	388	27	7	68
28	147	784	276	315	820	1,270	4,390	2,580	372	28	7	82
29	146	580	270	342	-----	1,390	4,740	2,530	334	22	7	187
30	144	462	258	319	-----	1,420	4,770	2,260	289	20	5	231
31	145	-----	257	298	-----	1,619	-----	2,190	-----	24	4	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	185	118	146	8,980
November	784	144	257	15,300
December	437	200	322	19,800
January	348	201	302	18,600
February	1,000	260	486	27,000
March	1,610	618	927	57,000
April	4,770	1,350	2,190	130,000
May	5,030	2,010	3,200	197,000
June	2,140	289	1,500	89,300
July	236	20	73.8	4,540
August	25	4	15.2	935
September	231	4	51.4	3,060
The year	5,030	4	790	572,000



## CHALK CREEK AT COALVILLE, UTAH

LOCATION.—Staff gage in SE.  $\frac{1}{4}$  sec. 8, T. 2 N., R. 5 E., at highway bridge one-fourth mile northwest of Coalville and one-third mile above confluence with Weber River.

DRAINAGE AREA.—253 square miles.

RECORDS AVAILABLE.—October, 1904, to December, 1905; April to September, 1927.

EXTREMES.—Maximum discharge during year, 655 second-feet May 16 or 17 (gage height, 4.0 feet); minimum, 8 second-feet August 25–27 (gage height, 1.70 feet).

REMARKS.—Records fair. No large diversions below station. Flow regulated by irrigation diversions above. Gage-height record furnished by United States Bureau of Reclamation.

*Daily and monthly discharge, in second-feet, 1927*

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1.....	56	253	201	86	14	11	16.....	46	432	290	48	10	27
2.....	62	253	201	76	11	11	17.....	37	498	250	30	10	26
3.....	82	253	201	76	12	13	18.....	37	475	218	14	10	26
4.....	82	253	218	76	12	12	19.....	58	390	218	14	10	26
5.....	59	253	201	76	12	11	20.....	46	309	186	13	10	26
6.....	64	200	235	69	12	11	21.....	55	271	186	13	10	23
7.....	68		271	69	11	15	22.....	64	253	156	13	11	24
8.....	137		309	69	11	14	23.....	91	235	140	13	11	24
9.....	91		235	61	11	31	24.....	130	201	127	13	10	24
10.....	56	156	253	60	9	21	25.....	130	228	117	13	8	26
11.....	61	156	253	58	9	15	26.....	170	250	95	13	8	24
12.....	31	156	218	55	10	21	27.....	201	271	95	13	8	23
13.....	37	201	250	55	11	17	28.....	218	309	86	13	11	22
14.....	34	290	290	48	11	21	29.....	290	280	117	13	11	26
15.....	26	329	329	55	11	27	30.....	235	250	106	13	11	31
							31.....		218		13	11	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April.....	290	26	91.8	5,460
May.....	498		265	16,300
June.....	329	86	202	12,000
July.....	86	13	40.4	2,480
August.....	14	8	10.5	646
September.....	31	11	21.0	1,250
The period.....				38,100

\* Estimated.

## LOST CREEK AT DEVILS SLIDE, UTAH

LOCATION.—Water-stage recorder in SE.  $\frac{1}{4}$  sec. 19, T. 4 N., R. 4 E., a quarter of a mile above confluence with Weber River and half a mile east of Devils Slide.

DRAINAGE AREA.—228 square miles.

RECORDS AVAILABLE.—April, 1921, to September, 1927, at present site; February to December, 1905, at a site 150 feet above mouth of creek (published as "Lost Creek near Croyden, Utah").

EXTREMES.—Maximum discharge during year, 810 second-feet May 1 (gage height, 3.38 feet); minimum, 6 second-feet October 1-12.

1905, 1921-1927: Maximum discharge, about 1,390 second-feet May 11, 1923 (gage height, 4.39 feet); minimum, that of October 1-12, 1926.

REMARKS.—Records good except those for estimated periods, which are fair. Practically all the water is diverted above gage during late irrigation season.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	6	16	20		20	27	62	760	171	22	14	10
2.....	6	16	20		21	28	74	705	164	23	14	10
3.....	6	16	20		21	29	94	620	164	22	14	9
4.....	6	17	20		21	29	88	566	161	25	14	9
5.....	6	16	20		21	30	82	544	158	27	13	9
6.....	6	16	20		21	31	88	548	136	27	12	9
7.....	6	16	20		21	31	98	566	120	27	12	9
8.....	6	17	21		18	31	120	499	106	25	12	9
9.....	6	16	20		16	32	115	406	100	22	12	9
10.....	6	16	17		17	27	106	338	94	24	12	9
11.....	6	15	19		16	27	106	305	84	23	12	10
12.....	6	16	20		16	24	100	309	84	21	12	9
13.....	7	16	17		18	27	96	375	80	20	12	10
14.....	7	16	14		19	29	94	499	70	20	12	10
15.....	7	17	* 14	* 15	21	31	88	566	67	19	12	10
16.....	8	17	* 14		21	30	92	602	68	18	12	10
17.....	10	17	* 15		21	32	86	620	62	18	12	10
18.....	11	17	15		22	31	84	544	57	18	11	10
19.....	13	17	18		23	27	94	426	59	19	11	10
20.....	13	17	17		25	26	96	379	54	18	10	10
21.....	14	17	16		28	33	98	316	46	17	10	10
22.....	14	18	15		29	33	111	201	38	16	10	9
23.....	15	18	* 13		28	33	141	281	31	15	10	9
24.....	16	18	* 12		28	35	205	245	28	17	9	9
25.....	16	20	11		28	37	291	235	26	18	9	9
26.....	16	20	* 11		31	38	422	245	23	17	9	9
27.....	16	21	* 11		31	40	571	245	21	17	9	9
28.....	16	22	* 11		29	44	661	242	20	16	10	10
29.....	16	21	* 10	18		47	705	217	23	16	9	10
30.....	16	21	* 10	19		54	720	188	23	15	10	10
31.....	16		* 10	19		57		174		15	10	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	16	6	10.3	633
November.....	22	15	17.4	1,040
December.....	21	10	15.8	972
January.....			15.4	947
February.....	31	16	22.5	1,250
March.....	57	24	33.2	2,040
April.....	720	62	193	11,500
May.....	760	174	414	25,500
June.....	171	20	77.9	4,640
July.....	27	15	19.9	1,220
August.....	14	9	11.3	695
September.....	10	9	9.5	565
The year.....	760	6	70.4	51,000

## SOUTH FORK OF OGDEN RIVER NEAR HUNTSVILLE, UTAH

LOCATION.—Water-stage recorder in SE. ¼ sec. 12, T. 6 N., R. 2 E., half a mile below mouth of Magpie Creek, 1 mile above heading of Huntsville Mountain Canal, and 5½ miles east of Huntsville.

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

EXTREMES.—Maximum discharge during year, 1,220 second-feet April 30 (gage height, 4.80 feet); minimum, 35 second-feet November 9 and 10.

1921-1927: Maximum discharge, 1,450 second-feet May 10, 1923 (gage height, 5.4 feet); minimum, 30 second-feet October 5, 1924, and August 30, 1926.

REMARKS.—Records good except those for December 12, 13, 19, January 22, 23, and February 12-19, which were estimated. No large diversions above gage.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	40	36	43	40	41	64	184	1,080	306	97	56	46
2.	39	36	43	40	42	65	272	972	316	92	55	46
3.	41	36	42	40	43	71	308	804	318	90	55	46
4.	40	36	42	40	44	80	242	736	314	91	54	46
5.	38	36	42	40	45	90	212	701	311	90	53	46
6.	38	36	42	40	45	101	221	698	314	86	53	46
7.	38	36	42	42	45	100	247	743	311	85	53	47
8.	39	36	42	42	44	106	314	598	306	83	53	47
9.	38	35	39	42	47	102	258	498	304	79	52	49
10.	38	35	38	42	46	90	221	422	258	78	51	55
11.	38	36	40	42	45	83	212	402	241	75	51	50
12.	38	38	39	42		77	192	439	230	74	50	49
13.	38	38	38	42		78	175	582	218	71	50	51
14.	38	37	37	42		90	158	786	214	70	50	51
15.	38	36	37	42		95	149	912	202	67	50	50
16.	37	38	37	42	47	90	153	1,020	191	66	49	47
17.	37	36	37	42		87	142	1,040	182	64	49	47
18.	37	37	38	42		84	140	920	171	63	48	46
19.	37	38	40	42		77	153	750	160	60	48	46
20.	37	38	41	44	49	74	153	617	151	60	48	46
21.	38	38	42	40	75	73	160	519	141	59	47	46
22.	38	38	42	42	82	77	188	453	136	59	47	46
23.	37	37	42	44	66	84	277	394	130	58	47	46
24.	37	38	43	47	63	100	410	352	125	59	46	47
25.	37	44	43	49	64	111	550	352	120	59	46	48
26.	37	41	42	48	71	121	715	402	117	58	46	48
27.	37	54	42	44	75	132	900	453	112	58	46	48
28.	37	48	42	42	67	153	1,000	465	108	58	47	51
29.	37	45	42	42		160	1,000	408	105	57	49	52
30.	37	44	42	42		186	1,040	352	101	57	47	53
31.	36		41	42		190		324		57	47	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	41	36	37.8	2,320
November	54	35	38.6	2,300
December	43	37	40.7	2,500
January	49	40	42.3	2,600
February	82	41	52.7	2,930
March	190	64	99.7	6,130
April	1,040	140	345	20,500
May	1,080	324	620	38,100
June	318	101	207	12,300
July	97	57	70.3	4,320
August	56	46	49.8	3,660
September	55	46	48.1	2,800
The year	1,080	35	138	99,900

## JORDAN RIVER BASIN

## JORDAN RIVER NEAR LEHI, UTAH

LOCATION.—Water-stage recorder in sec. 25, T. 5 S., R. 1 W., 800 feet below pumping station at outlet of Utah Lake and 4 miles southwest of Lehi.

DRAINAGE AREA.—2,570 square miles.

RECORDS AVAILABLE.—May to December, 1904; July, 1913, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 750 second-feet August 7 and 8 (gage height, 5.63 feet); stream dry March 13–21.

1913–1927: Maximum mean daily discharge, 1,370 second-feet June 8, 1923 (gage height, 7.78 feet); river dry for several short periods.

REMARKS.—Records fair. Flow represents pumped outflow from Utah Lake and is controlled by operation of gates and pumping plant 800 feet above gage. Records of mean daily gage height furnished by W. A. Knight, water commissioner.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	423	101	89	93	92	90	88	281	555	664	739	656
2	438	101	92	93	93	89	84	292	555	667	739	656
3	389	101	92	93	93	88	83	301	565	662	742	649
4	387	99	92	93	96	86	83	313	624	667	739	654
5	387	99	92	94	93	89	83	551	644	664	742	656
6	399	99	92	94	93	88	83	598	644	667	747	654
7	334	93	92	94	97	91	82	583	641	667	750	644
8	270	97	92	94	97	90	83	576	646	662	750	644
9	211	97	93	96	93	90	83	576	646	685	745	626
10	118	94	89	92	93	90	82	574	646	708	737	632
11	113	94	93	92	93	89	83	572	636	708	734	639
12	105	92	92	92	93	59	81	370	604	716	737	639
13	101	81	92	92	93	0	86	598	616	739	737	612
14	100	88	93	90	93	0	80	525	612	739	732	582
15	99	96	93	91	93	0	93	616	546	734	737	565
16	99	89	93	91	84	0	108	614	469	732	742	551
17	97	88	93	90	67	0	111	614	469	732	742	525
18	93	88	93	91	84	0	101	622	482	726	742	527
19	84	94	93	91	64	0	98	599	500	737	737	532
20	99	99	92	90	67	0	98	589	506	724	713	532
21	100	101	93	88	84	0	100	565	531	734	706	527
22	102	101	90	85	64	17	98	497	567	734	706	475
23	105	101	90	90	84	76	98	443	562	732	708	460
24	108	102	89	90	84	84	103	466	602	729	708	475
25	109	101	93	90	84	89	99	504	639	729	708	455
26	109	101	93	90	84	97	97	560	652	726	672	436
27	103	100	93	91	84	97	116	565	641	726	652	432
28	98	95	93	92	84	97	108	558	652	719	656	415
29	98	92	93	92	-----	97	186	567	662	724	659	354
30	105	94	93	92	-----	97	261	565	672	729	662	302
31	106	-----	93	92	-----	98	-----	563	-----	729	659	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	438	84	177	10,900
November	102	81	95.9	5,710
December	93	83	91.8	5,640
January	94	85	91.5	5,630
February	97	64	86.4	4,800
March	68	0	60.9	3,740
April	201	89	101	6,010
May	625	281	533	32,800
June	672	469	594	35,300
July	739	662	710	43,700
August	750	652	719	44,200
September	656	362	550	32,700
The year	750	0	319	231,000

## SALT CREEK NEAR NEPHI, UTAH

LOCATION.—Staff gage in NW.  $\frac{1}{4}$  sec. 1, T. 13 S., R. 1 E., 50 feet below tailrace of Nephi municipal power plant, 100 feet above intake of Nephi Plaster Co.'s canal,  $2\frac{1}{2}$  miles below mouth of South Fork, and  $3\frac{1}{2}$  miles east of Nephi.

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

EXTREMES.—Maximum discharge during year, 184 second-feet May 17 (gage height, 1.50 feet); minimum, 11 second-feet February 10 and 11 (gage height, -0.04 foot).

1925-1927: Maximum discharge, 199 second-feet April 7 and May 6.

1926 (gage height, 1.6 feet); minimum, 6 second-feet January 2<sup>d</sup>-27, 1926.

REMARKS.—Records fair. There are a few small 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.....	17	14	16	14	13	15	23	149	51	46	22	18
2.....	17	14	16	14	13	15	29	133	48	42	21	18
3.....	17	14	16	14	13	16	30	130	53	40	21	16
4.....	18	14	14	14	13	16	29	112	57	40	21	16
5.....	18	14	16	14	13	19	29	107	70	38	21	16
6.....	16	14	16	13	13	18	30	104	81	38	21	16
7.....	16	14	16	13	14	17	31	101	91	38	20	16
8.....	16	14	16	13	14	16	36	94	89	38	20	16
9.....	16	14	16	13	12	16	39	75	91	38	20	16
10.....	16	14	16	13	11	16	37	68	91	38	19	16
11.....	16	14	15	13	12	16	33	61	92	42	19	16
12.....	16	14	14	14	13	17	32	64	84	39	19	16
13.....	16	14	14	14	13	17	29	77	78	38	19	19
14.....	16	14	13	14	13	17	29	84	92	36	19	16
15.....	16	14	13	14	14	17	28	94	83	36	18	16
16.....	16	14	13	14	14	18	32	133	76	33	18	16
17.....	16	14	14	14	14	17	27	175	68	29	17	16
18.....	16	14	14	13	14	16	29	166	68	29	17	16
19.....	14	14	14	13	14	16	29	121	79	29	16	16
20.....	14	14	14	13	14	16	29	98	68	29	16	16
21.....	14	14	14	12	14	16	30	74	61	27	16	16
22.....	14	14	14	12	13	17	38	74	59	26	16	26
23.....	14	14	14	12	14	18	43	68	58	26	16	19
24.....	14	16	14	12	15	22	70	66	57	26	16	21
25.....	14	16	14	13	15	23	96	57	56	43	16	16
26.....	14	16	14	13	16	23	146	55	56	31	16	17
27.....	14	20	14	12	17	24	156	55	55	29	19	16
28.....	14	21	14	12	18	24	173	55	53	26	19	16
29.....	14	18	14	12	-----	25	158	55	55	26	18	16
30.....	14	15	14	13	-----	31	156	55	48	25	18	16
31.....	14	-----	15	13	-----	25	-----	53	-----	22	18	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	18	14	15.4	947
November.....	21	14	14.8	881
December.....	16	13	14.5	892
January.....	14	12	13.1	806
February.....	18	11	13.8	766
March.....	31	15	18.7	1,150
April.....	173	23	55.9	3,330
May.....	175	53	90.7	5,580
June.....	92	48	68.9	4,100
July.....	46	22	33.6	2,070
August.....	22	16	18.5	1,140
September.....	26	16	16.9	1,010
The year.....	175	11	31.3	22,700

## PROVO RIVER AT FORKS, UTAH

LOCATION.—Staff gage in sec. 26, T. 5 S., R. 3 E., at Vivian Park summer resort, just above Forks, and 400 feet above South Fork.

DRAINAGE AREA.—600 square miles.

RECORDS AVAILABLE.—November, 1911, to September, 1927. Records have been obtained at various points below mouth of South Fork since 1890.

EXTREMES.—Maximum discharge during year, 1,960 second-feet May 18 (gage height, 5.35 feet); minimum, 159 second-feet February 10.

1911-1927: Maximum discharge, 3,180 second-feet June 11, 1921 (gage height, 6.13 feet); minimum, 122 second-feet September 18, 1924.

REMARKS.—Records fair. Station is below diversions for irrigation in Heber Valley and above those in vicinity of Provo. A number of small lakes at headwaters have been utilized as storage reservoirs and flow is slightly regulated. Results of seven discharge measurements furnished by Utah Power & Light Co.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	180	183	299	228	228	270	513	1,380	574	441	285	235
2.....	180	183	299	248	228	270	615	1,380	555	394	277	228
3.....	189	183	307	242	228	277	699	1,330	565	367	270	216
4.....	200	183	307	242	228	300	737	1,260	555	367	255	209
5.....	194	183	315	242	228	316	560	1,100	592	376	248	216
6.....	189	180	292	242	231	333	550	1,080	694	350	245	212
7.....	189	180	322	248	228	333	602	1,140	885	350	259	206
8.....	200	180	307	209	222	341	648	1,100	1,030	341	259	209
9.....	194	180	307	235	197	546	704	900	1,050	341	252	212
10.....	194	180	262	235	159	394	560	737	1,290	325	252	206
11.....	189	183	255	248	197	333	555	638	1,050	320	262	206
12.....	216	197	277	242	235	308	508	565	935	308	262	209
13.....	216	212	248	235	235	316	460	565	960	308	262	222
14.....	206	206	242	242	216	359	422	737	920	300	262	262
15.....	203	200	203	235	255	403	403	1,020	1,140	316	262	248
16.....	197	231	228	235	255	345	469	1,290	996	312	259	248
17.....	194	219	266	235	285	325	469	1,540	910	329	259	255
18.....	189	212	277	231	270	300	479	1,880	960	320	245	255
19.....	189	238	277	216	255	270	460	1,820	910	304	245	248
20.....	189	245	269	242	248	277	441	1,500	860	312	245	242
21.....	191	235	235	242	270	292	417	1,370	771	312	248	238
22.....	189	228	248	216	292	316	436	990	713	312	248	245
23.....	189	228	228	167	277	367	493	786	629	316	242	231
24.....	189	228	186	175	277	385	579	675	565	320	228	238
25.....	186	444	228	209	285	508	680	611	508	329	228	245
26.....	186	307	252	316	285	450	830	611	431	329	222	259
27.....	183	593	242	242	292	450	984	713	422	329	212	248
28.....	183	436	235	228	285	460	1,130	761	431	312	219	252
29.....	183	338	216	235	-----	479	1,210	800	493	316	225	255
30.....	183	315	228	235	-----	498	1,280	713	479	304	219	262
31.....	183	-----	231	235	-----	498	-----	620	-----	304	235	-----

Month	Discharge in second feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	216	180	192	11,800
November.....	593	180	244	14,500
December.....	322	186	261	16,000
January.....	316	167	233	14,300
February.....	292	159	246	13,700
March.....	546	270	365	22,400
April.....	1,280	403	630	37,500
May.....	1,880	565	1,020	62,700
June.....	1,290	422	762	45,300
July.....	441	300	331	20,400
August.....	285	212	248	15,200
September.....	262	206	234	13,900
The year.....	1,880	159	398	288,000

## SOUTH FORK OF PROVO RIVER AT FORKS, UTAH

LOCATION.—Staff gage in sec. 26, T. 5 S., R. 3 E., at Vivian Park summer resort, just above Forks, and a quarter of a mile above confluence with Provo River.

DRAINAGE AREA.—30 square miles.

RECORDS AVAILABLE.—November, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, 83 second-feet May 18; minimum, 20 second-feet during parts of January and February.

1911-1927: Maximum discharge, 123 second-feet May 27, 1922; minimum, 14 second-feet April 17, 1925.

REMARKS.—Records fair. Station below all diversions. Flow regulated by diversions above. Results of seven discharge measurements furnished by Utah Power & Light Co.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	24	23	26	23	20	23	26	52	29	30	27	30
2.....	23	23	26	23	21	23	30	49	30	30	27	30
3.....	24	23	26	23	21	23	29	49	30	30	27	30
4.....	27	23	26	23	21	24	28	48	29	30	27	30
5.....	27	23	26	23	21	24	27	48	29	22	27	30
6.....	26	23	26	23	21	24	26	46	30	22	30	30
7.....	26	23	26	23	21	23	26	53	43	21	29	32
8.....	27	23	26	23	21	23	26	52	58	23	29	32
9.....	27	23	26	23	21	24	26	48	71	34	29	32
10.....	26	23	26	22	20	23	26	40	76	29	29	32
11.....	26	22	26	22	21	23	26	35	68	28	23	30
12.....	26	22	26	22	21	23	26	34	56	30	23	30
13.....	26	22	24	22	21	23	24	34	52	30	24	30
14.....	26	22	24	22	21	23	24	39	44	30	24	37
15.....	26	22	24	22	21	23	24	43	43	30	24	36
16.....	26	22	24	23	22	23	24	57	43	30	26	34
17.....	24	22	24	23	22	23	26	77	44	29	29	34
18.....	24	22	24	23	22	23	27	83	40	29	29	34
19.....	24	22	24	22	21	23	26	74	43	30	30	34
20.....	24	22	24	22	21	23	27	72	37	29	30	34
21.....	24	23	24	22	21	23	26	55	38	30	30	34
22.....	24	23	23	22	22	23	26	44	38	29	30	34
23.....	24	23	23	21	22	23	27	41	34	29	32	34
24.....	23	23	24	20	21	23	28	36	34	33	32	34
25.....	23	28	24	21	21	23	28	37	35	35	32	26
26.....	23	28	24	21	22	23	33	36	35	35	32	26
27.....	23	36	24	20	22	23	36	34	36	35	32	26
28.....	23	30	23	20	22	24	42	34	34	27	34	26
29.....	23	28	23	20	-----	25	43	35	33	27	32	27
30.....	23	26	23	20	-----	26	46	35	33	27	30	27
31.....	23	-----	23	20	-----	26	-----	32	-----	27	30	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	27	23	24.7	1,520
November.....	36	22	23.9	1,420
December.....	26	23	24.6	1,516
January.....	23	20	21.9	1,350
February.....	22	20	21.2	1,180
March.....	26	23	23.4	1,440
April.....	46	24	28.6	1,700
May.....	83	32	46.8	2,880
June.....	76	29	41.5	2,470
July.....	35	21	29.0	1,780
August.....	34	23	28.7	1,760
September.....	37	26	31.2	1,860
The year.....	83	26	28.8	20,900

## SEVIER LAKE BASIN

## SEVIER RIVER AT HATCH, UTAH

LOCATION.—Water-stage recorder in SE. ¼ sec. 28, T. 36 S., R. 5 W., at county bridge at Hatch, 2 miles below confluence of Asay and Mammoth Creeks which form Sevier River.

DRAINAGE AREA.—260 square miles.

RECORDS AVAILABLE.—June, 1911, to September, 1927; fragmentary.

EXTREMES.—Maximum and minimum discharge during year not determined.

1911-1927: Maximum discharge not determined, occurred May 25, 1914, owing to failure of Hatchtown Dam; maximum recorded discharge, 1,490 second-feet May 26, 1922 (gage height, 5.25 feet); minimum, 10 second-feet on several days in 1912 when water was being stored at reservoir upstream.

REMARKS.—Records poor; gage-height record fragmentary.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun?	July	Aug.	Sept.
1.	68	60	60	60	62	60	78			92		74
2.	70											
3.	68											
4.	67											
5.	67								212			71
6.	70	58				60						74
7.	73	60										86
8.	73	60						273				79
9.	74	61	61		62		98					74
10.	74	62				62						73
11.	73	64							152			73
12.	71	64			62				155			122
13.	71	64				65			174			386
14.	71	61				67			176	67		118
15.	68	61				67			172	76		107
16.		62			61	72			155	67		157
17.		60				73	73		148	72		130
18.		61				66				76	79	109
19.		65			60	60		542				103
20.		62	60			54						103
21.		61				58						103
22.		60		63	60	64						116
23.		60				65	128	342				133
24.	62	61				65						
25.						70						
26.					61	84						120
27.					61	79					78	
28.		60			60	74						
29.												
30.				64								
31.				63		76	345			71		
				63				246			74	

Month	Mean discharge in second-feet	Run-off in acre-feet	Month	Mean discharge in second-feet	Run-off in acre-feet
October	66.3	4,080	May	• 350	21,500
November	60.9	3,620	June	• 155	9,220
December	60.0	3,690	July	• 75	4,610
January	61.6	3,790	August	• 76	4,670
February	61.3	3,400	September	112	6,660
March	65.9	4,050			
April	• 135	8,030	The year	107	77,300

• Estimated.



## SEVIER RIVER NEAR CIRCLEVILLE, UTAH

LOCATION.—Water-stage recorder in sec. 29, T. 31 S., R. 4 W., 2½ miles above mouth of Pine Creek and 8 miles southwest of Circleville.

DRAINAGE AREA.—950 square miles.

RECORDS AVAILABLE.—May to September, 1912; April, 1914, to September, 1927; fragmentary for 1923 and 1925–1927.

EXTREMES.—Maximum discharge during year, not determined; minimum, 38 second-feet July 19 (gage height, 1.92 feet).

1912, 1914–1927: Maximum discharge determined, 1,600 second-feet August 6, 1916, and May 30, 1922; a greater discharge occurred in 1914 during flood resulting from failure of Hatchtown Dam; minimum discharge, that of July 19, 1927.

REMARKS.—Records fair. There are several diversions for Hatchtown project and Panguitch Valley above station. Station maintained and records compiled in cooperation with Sevier River water commissioner.

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

Day	Oct.	Nov.	Dec.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	77	85	119	-----	128	293	121	63	65	93
2.....	79	86	121	-----	123	299	139	60	66	-----
3.....	81	84	124	134	134	284	-----	-----	55	-----
4.....	76	84	123	142	162	274	-----	-----	53	-----
5.....	76	85	123	128	153	293	-----	57	69	-----
6.....	76	88	-----	124	145	336	-----	-----	80	-----
7.....	76	92	-----	124	150	369	128	-----	-----	91
8.....	76	90	-----	124	152	-----	116	-----	-----	-----
9.....	76	91	-----	124	142	-----	105	-----	80	-----
10.....	85	94	-----	123	134	-----	93	-----	-----	-----
11.....	84	101	-----	113	134	-----	96	-----	-----	-----
12.....	76	98	-----	100	127	-----	126	48	-----	-----
13.....	77	98	-----	113	130	-----	163	-----	-----	-----
14.....	77	98	-----	130	128	-----	132	42	-----	-----
15.....	78	94	-----	145	127	280	-----	-----	-----	-----
16.....	86	97	-----	123	126	284	-----	-----	43	-----
17.....	81	94	-----	120	123	295	109	-----	44	-----
18.....	77	96	-----	112	121	312	106	-----	48	259
19.....	77	108	-----	101	119	314	-----	38	52	-----
20.....	77	119	-----	98	116	320	-----	39	54	-----
21.....	77	120	-----	107	114	310	82	42	-----	-----
22.....	78	123	-----	111	119	303	82	44	-----	-----
23.....	81	120	-----	136	126	-----	82	69	54	-----
24.....	84	120	-----	148	144	-----	-----	70	-----	-----
25.....	88	123	-----	184	169	-----	-----	-----	-----	-----
26.....	89	123	-----	178	186	-----	-----	70	-----	-----
27.....	90	130	-----	168	213	-----	-----	80	-----	-----
28.....	90	133	-----	145	239	-----	64	82	-----	158
29.....	90	119	-----	142	261	-----	67	76	-----	-----
30.....	88	121	-----	139	274	147	65	68	109	-----
31.....	84	-----	-----	139	-----	139	-----	64	-----	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	90	76	80.9	4,970
November.....	133	84	104	6,190
March 3–31.....	184	98	130	7,480
April.....	274	114	151	8,980

## SEVIER RIVER NEAR KINGSTON, UTAH

LOCATION.—Water-stage recorder in NW.  $\frac{1}{4}$  sec. 16, T. 30 S., R. 3 W., 1 mile west of Kingston and 2 miles above mouth of East Fork.

DRAINAGE AREA.—1,110 square miles.

RECORDS AVAILABLE.—June, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, not determined, occurred during flood of September; minimum, 15 second-feet June 29 and 30.

1914-1927: Maximum discharge, 1,460 second-feet May 21, 1922 (gage height, 4.92 feet); minimum, 11 second-feet July 4, 1924 (gage height 0.70 foot).

REMARKS.—Records good except those for estimated periods, which are fair. Numerous diversions above station; none between gage and mouth of East Fork. Station maintained and records compiled in cooperation with Sevier River water commissioner.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun?	July	Aug.	Sept.
1.....	38	46	108	}	}	<sup>a</sup> 160	162	201	3?	18	20	53
2.....	41	46	108			155	152	219	38	20	19	51
3.....	36	47	110			168	149	191	}	23	19	47
4.....	32	47	110			177	171	171		24	17	41
5.....	35	49	115			177	177	165		23	18	36
6.....	41	51	115	}	}	171	162	181	44	20	21	33
7.....	44	51	132			165	165	223	44	20	26	33
8.....	47	47	123			165	171	245	41	23	29	
9.....	46	46	121			168	168	249	35	70	35	}
10.....	47	46	121			168	162	226	28	58	36	
11.....	46	47	126	}	}	146	155	188	24	36	33	33
12.....	35	46	126			137	152	155	35	35	29	
13.....	<sup>a</sup> 34	51	112			149	137		79	29	26	
14.....	<sup>a</sup> 34	55	108			158	137		68	24	23	}
15.....	33	75	102			171	143	}	83	21	21	
16.....	35	79	100	}	}	158	135		81	19	20	
17.....	32	79	<sup>a</sup> 106			146	135		102	75	18	346
18.....	29	90	<sup>a</sup> 112			146	132		112	55	18	277
19.....	30	90	118			143	131		126	35	18	219
20.....	35	90				137	112		132	30	19	201
21.....	39	88	}	}	}	135	108	129	28	19	20	191
22.....	43	92				137	108	}	23	20	20	191
23.....	44	90				158	108		112	21	19	223
24.....	49	83				177	110		105	20	19	234
25.....	51	88				191	126			19	19	191
26.....	46	88	}	}	}	191	135	}	17	28	28	188
27.....	46	98				191	126		19	46	47	181
28.....	46	118				191	146		19	38	51	168
29.....	46	105				174	168		15	25	49	162
30.....	46	102				174	181		58	15	24	158
31.....	47			<sup>a</sup> 129		177		56		21	49	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	51	29	40.4	2,480
November.....	118	46	71.0	4,230
December.....	132		117	7,190
January.....			122	7,500
February.....			152	8,440
March.....	191	135	163	10,000
April.....	181	108	144	8,570
May.....	249	56	141	8,670
June.....	83	15	37.6	2,240
July.....	70	18	26.3	1,620
August.....	51	18	27.3	1,680
September.....			189	11,200
The year.....		15	102	73,800

<sup>a</sup> Estimated.

PIUTE RESERVOIR NEAR MARYSVALE, UTAH

REMARKS.—Gage-height record furnished by Pict.

Daily contents, in acre-feet, 1903

Daily contents, in acre-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,800	0	1,070	10,500	21,000	30,800	40,000	28,500	19,400	19,800	6,680	
2	1,880	0	1,180	10,800	21,200	31,200	40,200	27,800	19,200	19,400	6,520	
3	1,850	0	1,280	11,200	21,600	31,600	40,500	27,200	19,000	19,200	6,360	
4	1,920	0	1,480	11,600	21,900	32,000	40,700	26,500	18,900	18,900	6,240	
5	1,960	0	1,680	11,900	22,200	32,400	40,900	26,000	18,800	18,500	6,120	
6	2,040	0	1,840	12,300	22,500	32,900	41,000	25,500	17,700	17,900	6,000	
7	2,080	0	2,040	12,700	22,900	33,300	41,200	25,100	18,500	17,500	6,080	
8	2,060	0	2,200	13,100	23,200	33,500	41,200	25,000	18,400	17,100	6,240	
9	2,060	0	2,450	13,400	23,600	33,800	41,000	24,800	18,300	16,800	6,480	
10	2,060	0	2,700	13,800	24,000	34,100	40,700	24,800	18,300	16,500	6,680	
11	2,060	0	3,240	14,200	24,300	34,200	40,500	24,700	18,200	16,000	6,960	
12	2,060	0	3,600	14,600	24,600	34,400	40,300	24,600	18,200	15,500	6,720	
13	2,000	0	4,020	14,900	24,900	34,700	40,000	24,300	18,300	14,900	6,480	
14	1,900	0	4,380	15,200	25,200	35,100	39,800	23,700	18,600	14,200	5,680	
15	1,750	0	4,570	15,500	25,600	35,490	39,300	23,100	19,000	13,700	4,850	
16	1,660	0	4,920	15,800	26,000	35,700	38,800	22,500	19,500	13,300	4,200	
17	1,540	0	5,360	16,200	26,400	35,900	38,300	21,900	20,000	12,600	3,540	
18	1,380	0	5,840	16,600	26,800	36,200	37,800	21,300	20,500	12,300	2,880	
19	1,260	0	6,200	16,900	27,300	36,400	37,100	21,400	21,000	12,000	2,350	
20	1,130	0	6,560	17,200	27,600	36,400	36,500	21,100	21,200	11,800	1,880	
21	1,010	0	6,960	17,500	27,900	36,400	35,900	20,900	21,400	10,000	1,700	
22	880	0	7,360	17,800	28,200	36,500	35,100	20,700	21,500	9,300	1,250	
23	740	0	7,780	18,000	28,500	36,600	34,600	20,500	21,700	8,600	720	
24	630	0	8,230	18,300	28,900	36,800	33,600	20,000	21,500	8,050	420	
25	530	0	8,700	18,500	29,200	37,100	32,900	19,700	21,200	7,600	0	
26	440	10	8,950	18,900	29,600	37,400	32,200	19,400	21,000	7,200	0	
27	100	400	9,100	19,300	30,000	37,800	31,300	19,300	20,700	7,080	0	
28	0	600	9,350	19,600	30,400	38,400	30,300	19,400	20,600	7,000	0	
29	0	800	9,600	19,900	30,800	39,000	29,700	19,400	20,300	7,080	0	
30	0	950	9,900	20,300	31,200	39,600	29,100	19,400	20,100	7,000	0	
31	0	0	10,200	20,600	31,600	39,600	19,400	19,400	19,400	6,880	0	

## SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UTAH

LOCATION.—Water-stage recorder in sec. 34, T. 28 S., R. 3 W., 700 yards below dam of Piute Reservoir and 11 miles south of Marysville.

DRAINAGE AREA.—2,440 square miles.

RECORDS AVAILABLE.—May to August, 1911; May, 1912, to September, 1927.

EXTREMES.—1911-1927: Maximum discharge, 2,600 second-feet part of May 23 and 24, 1922 (gage height, 4.45 feet); practically no flow when reservoir gates are closed.

REMARKS.—Records good except those for estimated periods, which represent seepage when reservoir gates were closed. No diversion between gage and Piute Reservoir. Flow regulated by operation of gates in dam. Station maintained and records compiled in cooperation with Sevier River water commissioner.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	121	106	109				29	534	311	377	175	127
2.....	84	115	108				28	534	315	394	175	123
3.....	83	113	106				28	534	331	394	175	117
4.....	75	115	108				36	534	331	417	172	111
5.....	74	119	108			4	86	534	331	430	172	108
6.....	72	115	108	3			113	534	331	455	162	109
7.....	80	111	108				125	534	331	475	84	111
8.....	111	111	108			32	191	534	327	496	49	117
9.....	109	109	94			58	223	534	311	502	27	113
10.....	109	102	29			59	278	534	285	502	27	104
11.....	109	106	23			60	293	534	285	507	56	104
12.....	123	111	23	36		60	307	534	271	507	238	113
13.....	123	119	23	53		59	323	534	226	502	289	167
14.....	127	117	23	51		58	343	534	167	502	339	191
15.....	145	152	22	51	4	56	394	534	108	502	373	80
16.....	145	154				56	390	534	94	502	390	69
17.....	145	152	16	21		58	399	534	92	490	300	54
18.....	145	157				58	422	529	94	485	264	54
19.....	145	159				72	450	529	127	480	248	96
20.....	142	157				96	470	512	145	475	241	97
21.....	140	152				76	475	450	142	470	248	97
22.....	142	149				56	475	455	162	470	241	99
23.....	140	149				56	480	455	186	460	220	108
24.....	140	149	2	3		53	496	455	27	315	194	94
25.....	140	149				37	512	455	300	300	142	84
26.....	142	131				14	529	455	306	275	149	84
27.....	138	127					529	368	296	205	159	94
28.....	109	119					534	315	293	203	161	97
29.....	104	113				4	534	315	307	186	159	119
30.....	102	109					584	315	347	159	154	295
31.....	102					18		315		183	131	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	145	72	118	7,260
November.....	159	102	128	7,620
December.....	109		36.9	2,270
January.....	53		9.4	578
February.....			4.0	222
March.....	96		36.6	2,250
April.....	534	28	334	19,900
May.....	534	315	484	29,800
June.....	347	92	247	14,700
July.....	507	159	407	25,000
August.....	390	27	191	11,700
September.....	295	54	111	6,600
The year.....	534		177	128,000

## SEVIER RIVER AT SEVIER, UTAH

LOCATION.—Water-stage recorder in E. ½ sec. 32, T. 25 S., R. 4 W., at Sevier, 100 yards above railroad bridge on Y spur of Denver & Rio Grande Western Railroad. Clear Creek enters immediately above station; prior to November 15, 1916, it entered 45 yards below station.

DRAINAGE AREA.—2,850 square miles, including area of Clear Creek.

RECORDS AVAILABLE.—May, 1911, to September, 1927.

EXTREMES.—1911-1927: Maximum discharge (estimated), 2,800 second-feet during last week in May, 1922; minimum, 10 second-feet November 27, 1919 (gage height, 1.15 feet).

REMARKS.—Records good except those for estimated periods, which are fair. A few small ditches divert between station and Piute Dam. Flow regulated by operation of gates in Piute Dam. Station maintained and records compiled in cooperation with Sevier River water commissioner.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	167	129	137	30	45	44	55	648	401	438	217	150
2.....	132	132	137			45	62	635	404	434	211	145
3.....	106	134	137			44	70	642	415	442	199	137
4.....	101	137	137			45	72	648	427	442	193	129
5.....	94	142	137			46	76	654	434	482	190	116
6.....	94	142	137	29	48	45	114	660	438	482	199	116
7.....	94	137	140			44	145	672	450	511	193	121
8.....	101	132	137			45	159	660	491	526	99	119
9.....	127	132	137			57	238	629	516	565	74	132
10.....	127	129	106			74	265	611	486	565	64	119
11.....	127	129	44	32	42	76	321	599	463	553	62	111
12.....	129	129	44	32		79	321	594	463	542	97	114
13.....	145	142		62		81	347	594	468	537	265	176
14.....	145	145		79		81	354	623	401	532	350	262
15.....	153	145		79		79	390	648	347	526	384	205
16.....	170	184	30	76	48	76	412	672	306	521	427	90
17.....	173	176		62		79	404	722	293	505	411	70
18.....	173	184		42		79	423	754	312	505	331	59
19.....	176	190		40		79	442	735	309	505	293	57
20.....	173	190		44		52	472	735	325	500	278	101
21.....	170	187	42	53	48	106	482	672	300	516	275	104
22.....	167	184		57		94	491	605	296	505	284	111
23.....	170	181		50		81	505	576	312	511	268	119
24.....	170	178		46		81	516	559	350	463	232	124
25.....	170	178		48		81	553	553	411	350	202	99
26.....	170	178	39	48	48	79	588	553	423	364	148	87
27.....	173	170		48		68	611	559	427	331	145	89
28.....	156	156		48		55	629	442	427	268	161	106
29.....	129	150		42		53	629	411	408	278	184	116
30.....	124	140		42		52	635	411	408	217	199	247
31.....	124	-----	-----	42	-----	50	-----	401	-----	199	178	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	176	94	143	8,790
November.....	190	129	155	9,220
December.....	140	-----	64.1	3,940
January.....	79	-----	42.3	2,600
February.....	57	-----	47.4	2,630
March.....	106	44	67.4	4,140
April.....	635	55	359	21,400
May.....	754	401	609	37,400
June.....	516	293	397	23,600
July.....	565	199	455	28,000
August.....	427	62	220	13,500
September.....	262	57	124	7,380
The year.....	754	-----	225	163,000

## SEVIER RIVER NEAR VERMILION, UTAH

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  sec. 19, T. 22 S., R. 1 W., at highway bridge half a mile below Rockyford Dam, 2 miles northeast of Vermilion, and 4 miles above mouth of Lost Creek. Gage datum changed slightly January 2, 1927.

DRAINAGE AREA.—3,340 square miles.

RECORDS AVAILABLE.—July to September, 1912; July, 1914, to September, 1927.

EXTREMES.—1914–1927: Maximum discharge, 2,400 second-feet May 30, 1922 (gage height, about 8.1 feet); minimum, about 1 second-foot July 16–18, 1923 (seepage only).

REMARKS.—Records good except those for estimated periods, which are fair. Entire flow usually diverted during low-water season. Flow past station at such times represents seepage and return flow from canals. Flow also regulated by dams and reservoirs above. Station maintained and records compiled in cooperation with Sevier River water commissioner.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	59	55	* 8	* 98	* 130	105	98	13	37	18	28	29
2.....	57	56	8	96		100	103	13	39	10	29	16
3.....	45	62	* 25	* 125		98	103	13	43	8	30	16
4.....	51	73	* 32			100	96	13	41	* 7	30	16
5.....	55	80	59			103	89	13	35		30	18
6.....	62	78	85	* 140	131	100	80	14	27		36	18
7.....	44	81	92		131	96	71	15	24	6	66	18
8.....	46	80	87		128	96	63	16	21	* 6	64	16
9.....	48	80	87		155	125	91	57	16	7	64	16
10.....	44	83	92		117	98	54	16	* 13	7	66	15
11.....	46	71	102		111	98	51	15		7	66	22
12.....	45	71	100		105	100	53	16		6	66	37
13.....	46	73	* 110	103	98	44	15	18	9	56	42	
14.....	45	76		111	103	29	13	18	11	32	49	
15.....	46	78		122	100	32	14	13	10	26	54	
16.....	48	78		122	134	96	34	14	39	7	22	60
17.....	48	80		138	94	35	16	91	7	20	64	
18.....	* 50	80	141	94	30	22	91	7	16	68		
19.....		87	162	96	26	32	* 85	6	14	64		
20.....		68	155	96	20	37	* 82	6	14	60		
21.....		9	134	100	16	37	78	6	13	43		
22.....			117	108	14	40		5	15	35		
23.....	* 52		111	108	14	32		5	15	32		
24.....			108	108	13	35	* 50	5	16	32		
25.....			103	108	13	39		5	16	32		
26.....		* 52	* 6	* 110	98	98		13	49	5	15	34
27.....				* 120	100	96		13	43	5	21	32
28.....				103	96	13	43	23	17	50		
29.....					96	13	43	* 22	18	60		
30.....	51		100	128		94	13	41	* 20	20	46	28
31.....	52		100	* 128		84		39		30	28	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	62	44	50.0	3,070
November.....	87		51.8	3,080
December.....		8	92.2	5,670
January.....			124	7,620
February.....	162	98	123	6,830
March.....	108	84	98.6	6,060
April.....	103	13	43.4	2,580
May.....	49	13	25.1	1,540
June.....	91		41.0	2,440
July.....	30	5	9.0	553
August.....	66	13	34.5	2,120
September.....	68	15	33.8	2,010
The year.....	162	5	60.2	43,600

\* Estimated.

## SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UTAH

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  sec. 14, T. 19 S., R. 1 W., 1,000 feet below mouth of San Pitch River and 3 miles west of Gunnison.

DRAINAGE AREA.—4,880 square miles.

RECORDS AVAILABLE.—October, 1917, to September, 1927. Records obtained at station half a mile above confluence with San Pitch River June, 1900, to September, 1917.

EXTREMES.—1917-1927: Maximum discharge, 2,620 second-feet June 1, 1922 (gage height, 5.32 feet); minimum, 41 second-feet August 25, 1927 (gage height, 1.07 feet).

REMARKS.—Records good except those for estimated periods, which are fair. Most of flow is diverted above station during irrigation season. Flow regulated by operation of reservoirs and numerous irrigation diversions above. Station maintained and records compiled in cooperation with Sevier River water commissioner.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	112	133	200	200	226	214	210	87	80	76	102	84
2	127	139	200	225	230	210	214	97	76	70	105	78
3	122	139	196		234	241	218	82	72	59	102	72
4	114	141	193		245	245	249	80	82	57	100	72
5	117	147	190		241	245	234	89	80	59	97	74
6	127	160	200	253	249	241	214	87	80	59	97	72
7	139	157	253	234	241	234	196	89	76	74	97	66
8	119	160	270	230	241	230	190	97	97	89	112	63
9	114	163	261	241	237	230	182	82	100	84	122	61
10	114	169	253	241	222	226	160	76	100	80	93	57
11	112	176	245	245	218	226	163	70	93	76	93	53
12	114	169	245	245	230	214	157	68	89	78	93	57
13	114	179	245	245	230	214	150	66	91	66	91	97
14	119	179	241	245	234	218	147	78	95	59	87	204
15	125	169		245	241	226	139	125	97	66	74	130
16	127	173	250	237	261	222	136	139	97	53	64	127
17	133	182		222	282	218	136	147	97	53	70	133
18	136	179	362	222	274	226	141	160	114	48	68	141
19	141	186	299	210	270	230	139	157	109	46	74	127
20	141	196	278	222		226	125	147	105	52	74	133
21	141	190	261	234		222	114	163	102	57	70	133
22	144	125	253	237	255	226	109	139	102	66	64	136
23	147	112	242			226	102	125	93	70	63	125
24	147	105	232			226	107	109	84	72	50	133
25	141	105	222	237			226	112	97	82	97	46
26	147	112				245	234	119	87	74	89	46
27	153	139			245	230	112	91	76	127	46	144
28	147	157		237	241	226	112	93	76	166	55	144
29	141	173	210	236		222	102	84	76	127	84	141
30	139	186		234		230	97	80	78	122	102	141
31	136			226		222		80		107	105	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	153	112	131	8,060
November	196	105	157	9,340
December		190	237	14,600
January		200	233	14,300
February	282	218	245	13,600
March	245	210	227	14,000
April	249	97	153	9,100
May	163	66	102	6,270
June	114	72	89.1	5,300
July	166	46	77.5	4,770
August	122	46	82.1	5,050
September	204	53	110	6,550
The year		46	153	111,000

# SURFACE WATER SUPPLY, 1927, PART X

## SEVIER BRIDGE RESERVOIR NEAR JUAB, UTAH

LOCATION.—Staff gage in NW.  $\frac{1}{4}$  sec. 1, T. 17 S., R. 2 W., at dam of Consolidated Sevier Bridge Reservoir Co. 13 miles southwest of Juab.

RECORDS AVAILABLE.—January, 1914, to September, 1927.

REMARKS.—Gage-height record furnished by Consolidated Sevier Bridge Reservoir Co.

Daily contents, in acre-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	2,870	12,900	25,100	39,500	56,300	68,400	78,200	73,800	35,500	26,300	7,100
2	3,880	13,300	25,500	40,000	56,900	68,300	78,500	72,600	34,700	25,400	6,600
3	4,280	13,800	25,900	40,500	57,300	68,000	78,800	71,300	33,900	24,500	6,100
4	4,720	14,100	26,400	41,100	57,700	67,900	79,100	69,700	33,000	23,600	5,600
5	5,170	14,500	26,700	41,500	58,200	67,800	79,500	68,300	32,600	22,500	5,100
6	5,510	14,900	27,100	41,900	58,500	67,600	80,000	66,400	32,900	21,500	4,600
7	5,880	15,300	27,600	42,300	58,900	67,500	80,300	64,600	33,100	20,500	4,100
8	6,300	15,700	28,200	42,900	59,300	67,800	80,600	62,500	33,200	19,300	3,600
9	6,690	16,200	28,700	43,400	59,700	68,000	80,900	60,400	33,500	18,500	3,100
10	7,090	16,600	29,300	43,900	60,100	68,400	81,200	58,500	33,700	17,600	2,600
11	7,360	17,000	29,800	44,400	60,400	68,800	81,500	56,700	34,000	16,900	2,100
12	7,700	17,600	30,300	44,900	60,800	69,400	81,900	55,200	34,200	15,800	1,600
13	7,940	18,000	30,800	45,400	61,200	69,800	82,100	53,800	34,500	14,800	1,100
14	8,090	18,500	31,100	45,800	61,500	70,200	82,100	51,400	34,700	13,800	600
15	8,320	19,000	31,600	46,200	62,000	70,500	82,200	49,300	34,700	12,900	500
16	8,440	19,400	32,000	46,800	62,500	71,000	82,100	47,000	34,700	12,900	4,320
17	8,650	19,800	32,400	47,100	63,000	71,400	82,100	45,700	34,600	12,900	4,180
18	8,700	20,300	32,800	47,500	63,600	72,000	81,900	47,500	34,300	13,100	4,040
19	8,750	20,700	33,100	47,800	64,200	72,400	81,500	46,200	33,800	13,300	3,780
20	8,880	21,200	33,500	48,200	64,700	72,800	81,000	44,800	33,300	13,400	3,480
21	8,900	21,600	33,900	48,500	65,200	73,300	80,700	44,000	32,900	12,700	2,820
22	8,970	22,000	34,400	48,800	65,700	73,700	80,300	43,300	32,600	12,100	1,800
23	9,020	22,300	34,900	49,200	66,300	74,100	79,900	42,600	32,200	11,500	1,300
24	9,340	22,600	35,400	49,500	66,700	74,700	79,400	42,400	31,400	10,700	1,300
25	9,800	22,900	35,900	50,200	67,000	75,100	78,900	42,100	30,800	10,000	1,220
26	10,300	23,200	36,500	50,700	67,400	75,500	78,300	41,300	30,100	9,390	1,220
27	10,700	23,600	37,000	51,600	67,800	76,000	77,700	40,300	29,300	8,750	1,100
28	11,200	24,000	37,500	52,600	68,300	76,400	77,100	39,200	28,600	8,330	1,000
29	11,700	24,300	38,000	53,600	68,800	77,000	76,300	38,300	27,800	7,940	1,000
30	12,200	24,700	38,500	54,900	69,300	77,400	75,100	37,400	27,000	7,480	1,000
31	12,500	25,000	39,000	55,800	69,800	77,900	74,000	36,400	26,000	7,180	1,000



## SEVIER LAKE BASIN

45

## SEVIER RIVER NEAR JUAB, UTAH

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  sec. 2, T. 17 S., R. 2 W., 1,600 feet downstream from Sevier Bridge Dam and 13 miles southwest of Juab.

DRAINAGE AREA.—5,120 square miles.

RECORDS AVAILABLE.—September, 1911, to September, 1927.

EXTREMES.—1911-1927: Maximum discharge, 2,140 second-feet June 2, 1922 (gage height, 8.50 feet); no flow March 7, 1918.

REMARKS.—Records good except those for estimated periods, which are fair. No diversions between this station and that near Gunnison. Flow regulated by gates in Sevier Bridge Dam. Station maintained and records compiled in cooperation with Sevier River water commissioner.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.-----	212	3				274	2	689	514	500	294	1
2.-----	5					308	2	696	510	524	289	1
3.-----	4					323	2	801	504	490	286	116
4.-----	4					325		864	417	479	283	231
5.-----	4					328		906	136	476	277	222
6.-----	4	2				328		1,010	6	468	270	215
7.-----	3					200		1,130	5	472	206	206
8.-----	3					12	2	1,130	4	546	152	186
9.-----	3					2		1,090	3	549	152	137
10.-----	3					2		997	3	542	152	87
11.-----	3	2				2		910	2	532	180	85
12.-----	13					2	45	857	2	538	152	78
13.-----	32					2	85	818	2	482	183	85
14.-----	48					2	75	756	67	410	218	125
15.-----	57					2	106	710	119	186	190	171
16.-----	77		2	2	2	2	212	804	164	82	161	174
17.-----	126					2	212	854	264	82	164	168
18.-----	128					2	292	860	325	82	183	161
19.-----	134					2	313	874	323	85	218	164
20.-----	134					2	316	762	325	221	238	161
21.-----	134	2				2	313	598	320	306	199	155
22.-----	136					2	297	472	351	339	137	164
23.-----	66					2	264	375	375	375	103	149
24.-----	5					2	343	350	385	385	92	134
25.-----	4					2	375	405	405	388	80	155
26.-----	4					2	369	524	415	390	80	171
27.-----	4					2	314	584	422	362	44	171
28.-----	4					2	435	594	444	320	42	161
29.-----	4					2	580	605	453	311	1	164
30.-----	4					2	658	594	447	306	1	161
31.-----	4					2		560		297	1	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October-----	212	3	44.1	2,710
November-----			2.2	131
December-----			2.0	123
January-----			2.0	123
February-----	111		5.9	328
March-----	328	2	69.2	4,250
April-----	658	2	188	11,200
May-----	1,130	350	748	46,000
June-----	514	2	257	15,300
July-----	549	82	372	22,900
August-----	294	1	162	9,960
September-----	231	1	145	8,630
The year-----	1,130	1	168	122,000

## SEVIER RIVER AT OASIS, UTAH

LOCATION.—Water-stage recorder in E. ½ sec. 33, T. 17 S., R. 7 W., three-quarters of a mile northwest of Oasis and 1½ miles below county bridge, locally known as Hineckley Bridge.

DRAINAGE AREA.—8,080 square miles.

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

EXTREMES.—1912-1927: Maximum discharge, 1,580 second-feet June 12, 1914; minimum, 0.5 second-foot May 13-19, 1912.

REMARKS.—Records fair; discharge estimated for several periods during year. Numerous diversions above station. Flow regulated by storage reservoirs and diversion dams upstream. Station maintained and records compiled in cooperation with Sevier River water commissioner.

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

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

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	10	5	6.0	369
November	5	4	4.2	250
December	14	4	8.8	541
January	15	7	13.2	812
February	18	9	12.6	700
March	18	7	8.1	498
April	16	6	8.5	506
May	18	8	12.7	781
June	18	9	14.5	863
July	16	5	12.1	744
August	15	4	11.3	695
September	14	3	8.0	476
The year	18	3	10.0	7,240

## EAST FORK OF SEVIER RIVER NEAR KINGSTON, UTAH

LOCATION.—Water-stage recorder in SW.  $\frac{1}{4}$  sec. 13, T. 30 S., R. 3 W., 1 mile below highway bridge and 2 miles east of Kingston.

DRAINAGE AREA.—1,260 square miles.

RECORDS AVAILABLE.—April, 1914, to September, 1927. Records obtained  $1\frac{1}{2}$  miles above Rockyford Bridge March, 1913, to April, 1914; also three-fourths mile north of Kingston May to September, 1912.

EXTREMES.—1913–1927: Maximum discharge, 1,740 second-feet May 8, 1922 (gage height, 6.10 feet); minimum, 8 second-feet September 19–21, 1913 (gage height, 1.00 foot).

REMARKS.—Records fair. Station is above all diversions in vicinity of Kingston. Flow regulated at Otter Creek Reservoir 8 miles above. Station maintained and records compiled in cooperation with Sevier River water commissioner.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39	20				18	16	25	243	230	39	50
2	31	20				18	15	26	243	230	40	48
3	24	20				18		28	250	232	38	45
4	17	20						30	254		36	44
5	16	20				18		70	257	230	36	43
6	18	20						250	265		41	43
7	17	20				18		254	261	229	44	41
8	16	20				18	18	257	257		40	40
9	18	21				20		257	257		39	37
10	18	20				20		257	254	230	39	34
11	18	20				21		257	250		37	37
12	18	20				19		257	243	229	36	40
13	18	23				19		257	243	225	35	92
14	18	21					20	257	247	199	33	135
15	18	21			18		20	254	250		41	112
16	18	23	18	18			21	257		165	39	112
17	19	24					21	261	240		36	115
18	19	25					21	261			35	115
19	20	21				18	21	261	229	130	34	112
20	21	21					20	257		118	35	110
21	21	20					20	254		115	33	110
22	22	19					19	257			32	103
23	21	18					20	257			33	50
24	20					18	21	257	230	80	33	32
25	19						26	257			34	20
26	20					18	28	254		46	45	20
27	18	18					26	257		78	45	19
28	18					18	21	257		67	56	18
29	19					18	21	250		58	59	20
30	19					17	24	250	229	46	56	20
31	20					17		247		41	53	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	39	16	19.9	1,220
November	25		20.1	1,200
December			18	1,110
January			18	1,110
February			18	1,000
March	21	17	18.2	1,120
April	28		20.0	1,190
May	261	25	220	13,500
June	265		242	14,400
July		41	157	9,650
August	59	32	39.7	2,440
September	135	18	60.6	3,610
The year	265		71.2	51,600

## ROCKYFORD CANAL NEAR VERMILION, UTAH

LOCATION.—Water-stage recorder in sec. 19, T. 22 S., R. 1 W., 300 feet below head of canal and 2 miles northeast of Vermilion.

RECORDS AVAILABLE.—July, 1914, to September, 1927..

REMARKS.—Records fair. Gage is a short distance below wasteway which returns surplus water to Sevier River. Flow regulated by head gates and wasteway. This canal diverts from Rockyford Reservoir on Sevier River at Vermilion. Flow is dependent on water stored in reservoir and seepage and return waters below Richfield. Water is used for irrigation north of Vermilion. Station maintained and records compiled in cooperation with Sevier River water commissioner.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	31	30	15		34	40	58	72	57	54	48
2	37	31	29	14		34	40	56	65	69	50	45
3	36	28	28		17		40	53	57	68	47	45
4		28	26					57	62	68	47	43
5		28	24			32		62	62	68	46	47
6	36	29		14	17	30	38	63	62	68	41	45
7		29						67	62	68	28	44
8		29					36	79	62	67	28	43
9		29	25	14			35	72	61	65	28	47
10	36	29			17	34	37	70	58	66	27	50
11		29					39	67	60	67	27	46
12		28	25	19			36	67	61		27	35
13	37	29			17	38	34	65	61		34	35
14		30					31	65	61		54	35
15							38	57	61	66	52	35
16	38		22	24	25	39	45	57	58		49	35
17	38						51	60	50		49	30
18	32							58	48		45	30
19	32							59	48	65	51	27
20	32		20	24	36	40	62	59	48		53	27
21	32							58	48	60	50	38
22	32	30					73	53	47		54	45
23	32			25	35	40		7	47		53	44
24	31							4	46	54	54	44
25	31		18				69	9	46	53	55	44
26	31			21				54	45	56	54	44
27	32				34	40	65	67	46	59	35	44
28	32				34		61	72	45	46	11	49
29	32					40	59	72	46	44	11	48
30	32		17	17			60	73	46	56	31	49
31	32		16	17				72		54	53	---

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October		31	34.5	2,120
November			29.6	1,760
December			22.0	1,350
January			19.2	1,180
February			24.5	1,360
March			37.1	2,280
April		31	49.9	2,970
May	79	4	57.8	3,550
June	72	45	54.7	3,250
July	69	44	61.9	3,810
August	55	11	41.9	2,580
September	50	27	41.4	2,460
The year	79	4	39.6	28,700

## BEAVER RIVER BASIN

## BEAVER RIVER NEAR BEAVER, UTAH

LOCATION.—Water-stage recorder in SE. ¼ sec. 18, T. 29 S., R. 6 W., a quarter of a mile above city diversion dam at mouth of canyon and 4½ miles east of Beaver.

DRAINAGE AREA.—82 square miles.

RECORDS AVAILABLE.—June to September, 1906; March, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, 467 second-feet May 17 (gage height, 5.50 feet); minimum, 8 second-feet October 12 (gage height, 3.00 feet).

1914-1927: Maximum discharge, 785 second-feet May 25, 1922 (gage height, 6.31 feet); minimum, 7 second-feet September 27, 1924.

REMARKS.—Records good except those for estimated periods, which are fair. No irrigation diversions above station. Water is diverted by Beaver River Power Co. but returned to stream several miles upstream. Flow slightly regulated by operation of power plant and storage in Kents Lake.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	24	21	23	* 20	22	24	31	150	111	71	43	33
2.....	25	26	24	* 20	22	24	33	150	108	70	43	31
3.....	25	19	24	* 20	22	25	33	166	105	69	41	31
4.....	25	21	24	20	22	24	35	175	107	70	40	29
5.....	25	22	22	20	22	22	37	180	107	69	39	30
6.....	24	19	26	21	21	21	43	164	108	69	50	30
7.....	24	18	26	21	22	22	49	148	111	66	43	29
8.....	26	19	24	20	21	23	48	125	117	67	52	27
9.....	24	18	24	19	24	22	39	108	117	69	42	27
10.....	23	19	21	21	33	23	36	96	113	64	39	27
11.....	22	21	25	21	36	22	34	95	110	62	37	26
12.....	21	22		21	22	22	32	107	124	56	36	34
13.....	20	23		21	22	22	30	153	124	51	35	47
14.....	24	20		22	22	24	31	208	122	* 48	34	39
15.....	23	19		22	20	23	29	240	113	* 45	34	33
16.....	22	20		21	21	21	29	285	104	* 42	34	36
17.....	23	19		22	20	21	27	352	97	39	34	37
18.....	24	21		22	21	18	28	349	97	39	34	34
19.....	22	21		22	22	17	29	314	92	39	39	
20.....	23	22		22	19	15	33	270	96	39	34	
21.....	23	21	* 20	22	22	18	39	210	83	51	34	* 32
22.....	23	24		23	19	173	49	173	87	43	37	
23.....	24	24		26	22	63	150	90	41	35		
24.....	24	24		30	26	86	142	86	43	34		
25.....	24	22		31	29	103	153	84	45	35		31
26.....	24	24			31	33	116	168	84	59	52	33
27.....	26	25			31	34	127	161	84	56	38	31
28.....	24	22			28	33	142	150	83	* 52	39	31
29.....	24	24				36	146	131	76	* 48	40	33
30.....	24	24				37	142	124	72	* 44	39	32
31.....	21			28		34		119		41	35	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	26	20	23.5	1,440
November.....	26	18	21.5	1,280
December.....	26		21.4	1,320
January.....	28	19	21.5	1,320
February.....	36	19	24.2	1,340
March.....	37	15	24.4	1,500
April.....	146	27	56.6	3,370
May.....	352	95	178	10,900
June.....	124	72	100	5,950
July.....	71	39	53.8	3,310
August.....	52	34	38.7	2,380
September.....	47	26	32.1	1,910
The year.....	352	18	49.8	36,000

\* Estimated.

## BEAVER RIVER AT ADAMSVILLE, UTAH

LOCATION.—Water-stage recorder in S.  $\frac{1}{2}$  sec. 30, T. 29 S., R. 8 W., 100 yards below highway bridge on road from Milford to Beaver, one-fourth mile above mouth of Indian Creek, and three-fourths mile south of Adamsville.

DRAINAGE AREA.—272 square miles.

RECORDS AVAILABLE.—December, 1913, to September, 1927.

EXTREMES.—Maximum discharge during year, 122 second-feet February 17 (gage height, 2.53 feet); minimum, less than 1 second-foot May 14.

1913-1927: Maximum discharge, 796 second-feet May 23, 1920 (gage height, 4.85 feet); practically no flow parts of May, August, September, and October, 1924.

REMARKS.—Records fair. No diversions between station and storage reservoir of Beaver County Irrigation Co. There are a number of ditches above station supplying Adamsville and Beaver districts. Flow is practically all diverted during irrigation season.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a 2	10	40	a 55	39	35	29	23	5	3	8	10
2	a 3	9	39	56	38	33	28	19	5	2	6	11
3	a 4	11	41	49	40	33	28	13	4	2	4	11
4	a 4	18	42	50	36	60	29	10	3	2	4	11
5	5	23	43	50	42	52	27	10	2	2	4	11
6	a 5	26	46	48	50	41	26	9	3	1	11	11
7	a 4	26	69	44	46	37	28	4	3	1	12	10
8	a 4	28	53	42	44	35	33	2	3	2	16	9
9	a 4	26	46	44	43	45	32	2	2	3	13	8
10	a 4	28	44	46	43	49	29	2	2	3	13	6
11	a 4	28	44	50	46	41	32	1	3	3	10	6
12	a 4	27	46	46	49	41	35	1	10	2	10	6
13	a 4	35	45	42	48	45	36	1	10	2	8	20
14	6	34	49	42	50	40	34	1	10	3	7	11
15	6	31	56	42	48	37	33	1	10	3	7	8
16	8	32	63	42	62	36	38	25	9	3	6	11
17	a 8	30	49	42	83	36	39	53	9	3	6	14
18	8	32	49	42	78	35	36	78	8	3	6	11
19	a 8	36	49	41	70	36	33	60	7	4	6	11
20	a 9	36	45	43	68	38	32	57	6	4	6	11
21	9	36	50	43	63	38	31	43	4	4	a 6	12
22	9	41	50	43	65	38	29	26	4	4	a 6	12
23	10	40	46	44	48	36	27	18	4	4	a 6	13
24	10	40	46	44	44	36	26	16	4	3	6	14
25	9	42	46	a 40	42	35	33	15	3	6	6	14
26	9	43	46	40	40	33	35	15	2	8	7	15
27	10	53	a 45	52	41	31	30	9	2	13	8	16
28	13	46	45	45	40	30	33	8	2	11	8	17
29	13	42	42	42	42	27	34	8	2	11	10	16
30	11	41	41	41	41	29	30	8	2	10	10	16
31	10	41	41	40	40	31	31	7	7	8	10	16

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	13	2	6.9	424
November	53	9	31.7	1,890
December	69	39	47.3	2,910
January	56	—	44.5	2,740
February	83	36	50.2	2,790
March	60	27	37.7	2,320
April	39	26	31.5	1,870
May	78	1	17.6	1,080
June	10	2	4.8	283
July	13	1	4.3	264
August	16	4	7.9	486
September	20	6	11.7	686
The year	83	1	24.5	17,500

a Estimated.

## BEAVER RIVER AT ROCKYFORD DAM, NEAR MINERSVILLE, UTAH

LOCATION.—Water-stage recorder in NW.  $\frac{1}{4}$  sec. 11, T. 30 S., R. 9 W., half a mile below Rockyford Dam and 4 miles east of Minersville.

DRAINAGE AREA.—512 square miles.

RECORDS AVAILABLE.—December, 1913, to September, 1927.

EXTREMES.—1913-1927: Maximum discharge, 727 second-feet June 10, 1921 (gage height, 3.53 feet); minimum (estimated), 0.3 second-foot March 19 and 20, 1914.

REMARKS.—Records good. No diversions between dam and gage. Flow regulated by operation of gates at Rockyford Dam. Gage-height record furnished by Beaver County 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	9	8	8	8	8	8	8	96	64	76	36	34
3	9	8	8	8	8	8	8	100	76	76	36	34
2	9	8	8	8	8	8	7	102	95	76	36	34
4	9	8	8	8	8	8	7	102	95	77	36	34
5	9	8	8	8	8	8	7	103	95	82	36	34
6	9	8	8	8	8	8	7	107	85	82	36	34
7	9	8	8	8	8	8	7	107	80	82	36	34
8	9	8	8	8	8	8	7	107	80	82	36	34
9	9	8	8	8	8	8	7	100	80	82	43	34
10	9	8	8	8	8	8	14	98	76	82	53	34
11	9	8	8	8	8	8	39	98	70	82	53	34
12	9	8	8	8	8	8	39	98	68	82	57	34
13	9	8	8	8	8	8	39	98	61	82	61	34
14	9	8	8	8	8	8	38	98	59	82	65	34
15	9	8	8	8	8	8	38	98	58	82	72	16
16	8	8	8	8	8	8	38	98	57	82	72	8
17	8	8	8	8	8	8	38	98	56	82	72	8
18	8	8	8	8	8	8	38	98	39	82	72	8
19	8	8	8	8	8	8	38	98	22	82	72	8
20	8	8	8	8	8	8	38	105	22	82	72	8
21	8	8	8	8	8	8	38	102	22	79	72	8
22	8	8	8	8	8	8	38	91	35	70	59	8
23	8	8	8	8	8	8	38	91	61	70	58	8
24	8	8	8	8	8	8	39	91	66	70	58	8
25	8	8	8	8	8	8	52	95	50	52	58	8
26	8	8	8	8	8	8	52	98	45	36	58	
27	8	8	8	8	8	8	52	98	68	36	42	
28	8	8	8	8	8	8	82	98	71	36	36	8
29	8	8	8	8		8	96	96	76	36	36	8
30	8	8	8	8		8	96	96	76	36	35	8
31	8		8	8		8		82		36	35	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	9	8	8.5	523
November	8	8	8.0	476
December	8	8	8.0	492
January	8	8	8.0	492
February	8	8	8.0	444
March	8	8	8.0	492
April	96	7	34.8	2,070
May	107	82	98.3	6,040
June	95	22	63.6	3,780
July	82	36	70.1	4,310
August	72	35	51.6	3,170
September	34	8	20.4	1,210
The year	107	7	32.5	23,500

## SALTON SINK BASIN

## SNOW CREEK NEAR WHITEWATER, CALIF.

LOCATION.—Water-stage recorder in NW.  $\frac{1}{4}$  NW.  $\frac{1}{4}$  sec. 33, T. 3 S., R. 3 E., 100 feet below intake of Southern Pacific Co.'s ditch, 300 feet below junction of forks and  $3\frac{1}{2}$  miles southwest of Whitewater.

RECORDS AVAILABLE.—July, 1921, to February, 1927.

REMARKS.—Southern Pacific Co.'s ditch diverts 100 feet above gage. Record of daily discharge furnished by Southern Sierras Power Co.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Day	Oct.	Nov.	Dec.	Jan.	Feb.
1-----	0.6	0.6	0.2	3.1	2.9	16-----	0.6	0.6	5.9	4.2	-----
2-----	.6	.6	.2	3.1	2.8	17-----	.6	.6	5.2	3.9	-----
3-----	.6	.6	.2	3.6	2.8	18-----	.6	.5	5.0	3.7	-----
4-----	.6	.6		5.3	2.9	19-----	.6	.5	5.2	3.6	-----
5-----	.6	.6		6.8	3.8	20-----	.6	.6	4.6	3.4	-----
6-----	.6	.6	5.2	6.2	3.3	21-----	.6	.6	5.9	5.0	-----
7-----	.6	.6		6.0	3.2	22-----	.6	.6	5.4	4.3	-----
8-----	.6	.6		5.3	3.1	23-----	.6	.6	4.5	3.9	-----
9-----	.6	.6		5.0	2.9	24-----	.6	2.7	4.2	3.7	-----
10-----	.6	.6		5.7	2.8	25-----	.6	1.3	3.8	3.6	-----
11-----	.6	.6	14.6	6.2	3.1	26-----	.6	.5	3.8	3.4	-----
12-----	.6	.6	13.7	5.3	3.1	27-----	.6	8.5	3.4	3.2	-----
13-----	.6	.6	10.5	5.2	4.7	28-----	.6	2.3	3.3	3.2	-----
14-----	.6	.6	8.5	4.7	5.5	29-----	.6	1.6	3.3	3.1	-----
15-----	.6	.6	7.2	4.3	-----	30-----	.6	.4	3.3	3.1	-----
						31-----	.6	-----	3.3	3.1	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October-----	0.6	0.6	0.60	36.9
November-----	8.5	.4	1.03	61.3
December-----	14.6	.2	5.21	320
January-----	6.8	3.1	4.33	266
February 1-14-----	5.5	2.8	6.89	191
The period-----	-----	-----	-----	875

*Combined daily discharge, in second-feet, of Snow Creek and Southern Pacific Co.'s ditch near Whitewater, Calif., 1926-27*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Day	Oct.	Nov.	Dec.	Jan.	Feb.
1-----	4.4	4.0	5.4	6.8	6.4	16-----	3.8	4.0	9.9	8.0	-----
2-----	4.3	3.8	5.2	6.8	6.3	17-----	4.0	3.8	9.0	7.6	-----
3-----	4.3	3.8	5.0	7.6	6.3	18-----	4.0	3.7	8.8	7.4	-----
4-----	4.1	3.8	2.5	9.8	6.4	19-----	4.1	3.7	9.0	7.1	-----
5-----	3.8	3.8	19.2	11.7	7.8	20-----	4.1	3.8	8.3	6.9	-----
6-----	3.8	3.7	10.6	10.7	7.0	21-----	4.1	3.8	10.0	9.1	-----
7-----	3.8	3.7	10.2	10.7	6.7	22-----	4.1	3.8	9.5	8.1	-----
8-----	4.0	3.7	9.9	9.6	6.6	23-----	4.0	3.8	8.6	7.6	-----
9-----	4.0	3.7	13.1	9.1	6.4	24-----	3.8	6.8	8.2	7.4	-----
10-----	4.0	3.7	12.2	9.8	6.3	25-----	3.8	7.7	7.8	7.3	-----
11-----	4.0	3.7	19.8	10.7	6.6	26-----	3.8	5.2	7.6	6.9	-----
12-----	4.0	4.0	19.5	9.6	6.8	27-----	3.8	2.2	7.1	6.7	-----
13-----	3.8	4.0	15.7	9.7	8.5	28-----	4.0	10.2	7.0	6.7	-----
14-----	4.0	4.0	12.6	9.2	6.6	29-----	4.0	8.2	7.0	6.6	-----
15-----	3.8	4.1	11.3	8.3	-----	30-----	4.0	6.2	7.0	6.6	-----
						31-----	4.0	-----	7.0	6.6	-----



Combined monthly discharge of Snow Creek and Southern Pacific Co.'s ditch near Whitewater, Calif., 1926-27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	4.4	3.8	3.98	245
November.....	22	3.7	5.14	306
December.....	25	5.0	10.5	646
January.....	11.7	6.6	8.28	509
February 1-14.....	66	6.3	11.0	305
The period.....				2,010

SOUTHERN PACIFIC CO.'S DITCH NEAR WHITEWATER, CALIF.

LOCATION.—Water-stage recorder in NW.  $\frac{1}{4}$  NW.  $\frac{1}{4}$  sec. 33, T. 3 S., R. 3 E., 200 feet below intake and  $3\frac{1}{2}$  miles southwest of Whitewater.

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

REMARKS.—Record of daily discharge furnished by Southern Sierras Power Co.

Daily discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3.8	3.4	5.2	3.7	3.5	7.9	14.3	21	14.0	10.8	8.6	7.0
2.....	3.7	3.2	5.0	3.7	3.5	7.9	15.3	22	14.0	11.4	8.3	6.8
3.....	3.7	3.2	4.8	4.0	3.5	9.3	17.9	22	13.7	12.0	7.9	6.6
4.....	3.5	3.2	19.9	4.5	3.5	7.7	18.9	22	15.0	11.7	8.6	6.8
5.....	3.2	3.2	14.0	4.9	4.0	6.0	18.5	22	15.9	11.4	9.1	6.6
6.....	3.2	3.1	5.4	4.5	3.7	4.9	18.5	22	16.3	11.4	8.6	6.4
7.....	3.2	3.1	5.0	4.7	3.5	11.4	19.2	21	16.6	11.4	8.3	6.2
8.....	3.4	3.1	4.7	4.3	3.5	21	19.2	21	16.9	11.4	7.9	6.8
9.....	3.4	3.1	7.9	4.1	3.5	21	18.9	19.5	15.3	12.5	7.7	6.8
10.....	3.4	3.1	7.0	4.1	3.5	21	18.2	19.2	14.0	12.8	7.7	7.5
11.....	3.4	3.1	5.2	4.5	3.5	19.9	17.9	18.5	14.3	12.5	8.1	7.7
12.....	3.4	3.4	5.8	4.3	3.7	17.2	16.9	18.2	14.3	11.7	9.1	7.7
13.....	3.2	3.4	5.2	4.5	3.8	17.2	16.6	18.9	14.0	11.1	7.9	7.7
14.....	3.4	3.4	4.1	4.5	11.1	17.2	16.3	19.9	14.7	11.1	7.5	7.7
15.....	3.2	3.5	4.1	4.0	21	16.9	15.9	20	14.7	11.1	7.7	7.5
16.....	3.2	3.4	4.0	3.8	64	16.6	15.6	19.9	14.7	10.1	8.1	7.7
17.....	3.4	3.2	3.8	3.7	18.9	16.6	15.3	19.5	14.7	9.1	8.8	7.9
18.....	3.4	3.2	3.8	3.7	18.9	16.3	15.0	18.9	15.0	9.3	8.8	8.1
19.....	3.5	3.2	3.8	3.5	18.9	15.0	15.0	17.9	15.0	10.1	8.6	8.1
20.....	3.5	3.2	3.7	3.5	18.9	14.7	15.3	17.2	13.7	12.5	9.1	8.1
21.....	3.5	3.2	4.1	4.1	18.9	14.3	15.6	16.9	13.4	10.1	8.3	8.1
22.....	3.5	3.2	4.1	3.8	18.9	14.3	16.9	15.9	13.4	9.6	7.9	7.7
23.....	3.4	3.2	4.1	3.7	13.7	15.0	20	15.3	13.4	11.4	8.1	7.5
24.....	3.2	4.1	4.0	3.7	14.0	15.9	22	15.0	13.4	11.4	8.3	7.0
25.....	3.2	6.4	4.0	3.7	15.0	17.2	23	15.0	13.7	10.3	7.9	7.2
26.....	3.2	4.7	3.8	3.5	15.0	17.2	23	15.0	13.1	9.6	7.7	6.8
27.....	3.2	14.0	3.7	3.5	12.8	16.6	23	14.7	12.2	9.1	8.1	6.8
28.....	3.4	7.9	3.7	3.5	9.8	15.9	22	16.3	11.4	9.3	7.9	6.6
29.....	3.4	6.6	3.7	3.5	-----	15.9	22	15.9	10.8	10.1	7.7	6.8
30.....	3.4	5.8	3.7	3.5	-----	15.6	21	15.6	10.6	9.6	7.2	6.8
31.....	3.4	-----	3.7	3.5	-----	15.0	-----	15.3	-----	8.8	7.2	-----

*Monthly discharge of Southern Pacific Co.'s ditch near Whitewater, Calif., 1926-27*

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	3.8	3.2	3.38	208
November.....	14.0	3.1	4.13	246
December.....	19.9	3.7	5.32	327
January.....	4.9	3.5	3.95	243
February.....	64	3.5	12.0	666
March.....	21	4.9	14.8	910
April.....	23	14.3	18.2	1,080
May.....	22	14.7	18.4	1,130
June.....	16.9	10.6	14.1	839
July.....	12.8	8.8	10.8	664
August.....	9.1	7.2	8.15	501
September.....	8.1	6.2	7.23	430
The year.....	64	3.1	10.0	7,240

**FALLS CREEK NEAR WHITEWATER, CALIF.**

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  NE.  $\frac{1}{4}$  sec. 33, T. 3 S., R. 3 E.,  $\frac{3}{4}$  miles southwest of Whitewater.

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

REMARKS.—No diversions. Record of daily discharge furnished by Southern Sierras Power Co.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Day	Oct.	Nov.	Dec.	Jan.	Feb.
1.....	2.7	2.4	2.6	3.9	3.6	16.....	2.1	2.5	5.0	4.2	-----
2.....	2.4	2.4	2.5	4.0	3.5	17.....	2.2	2.2	4.7	4.2	-----
3.....	2.4	2.4	2.4	4.3	3.3	18.....	2.3	2.0	4.5	4.1	-----
4.....	2.3	2.4	11.0	4.8	3.5	19.....	2.3	2.0	4.4	4.1	-----
5.....	2.3	2.4	15.7	5.0	3.6	20.....	2.4	2.4	4.3	4.0	-----
6.....	2.3	2.4	8.4	4.9	3.4	21.....	2.4	2.4	4.2	4.2	-----
7.....	2.3	2.4	6.4	4.8	3.3	22.....	2.4	2.4	4.8	4.0	-----
8.....	2.4	2.4	6.9	4.6	3.3	23.....	2.4	2.4	4.5	3.9	-----
9.....	2.4	2.4	9.6	4.6	3.3	24.....	2.3	2.9	4.3	3.8	-----
10.....	2.3	2.4	8.4	4.7	3.3	25.....	2.3	3.2	4.2	3.8	-----
11.....	2.3	2.4	7.5	4.8	3.5	26.....	2.3	2.7	4.2	3.8	-----
12.....	2.3	2.4	7.8	4.7	3.5	27.....	2.3	6.3	4.0	3.7	-----
13.....	2.2	2.4	6.7	4.6	-----	28.....	2.3	3.6	4.0	3.7	-----
14.....	2.3	2.4	5.8	4.4	-----	29.....	2.4	3.0	4.0	3.6	-----
15.....	2.2	2.5	6.2	4.3	-----	30.....	2.4	2.7	4.0	3.6	-----
						31.....	2.4	-----	3.9	3.6	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	2.7	2.1	2.33	143
November.....	6.3	2.0	2.63	166
December.....	15.7	2.4	5.67	349
January.....	5.0	3.6	4.22	259
February 1-12.....	3.6	3.3	3.42	81.4
The period.....	-----	-----	-----	988

## OWENS LAKE BASIN

## OWENS RIVER NEAR ROUND VALLEY, CALIF.

LOCATION.—Water-stage recorder in SE.  $\frac{1}{4}$  sec. 10, T. 6 S., R. 31 E., below Sheep Bridge, 700 feet above mouth of Rock Creek, and 2 miles north of Round Valley.

DRAINAGE AREA.—About 450 square miles.

RECORDS AVAILABLE.—August, 1903, to September, 1923; April to September, 1927.

EXTREMES.—1903-1923, 1927: Maximum discharge, 1,190 second-feet June 30, 1907 (gage height, 4.0 feet); minimum 5.4 second-feet at noon February 13, 1923.

REMARKS.—No diversions above station. Record of daily discharge and results of discharge measurements furnished by the city of Los Angeles.

*Daily and monthly discharge, in second-feet, 1927*

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1		153	281	410	238	134	16		256	500	306	173	203
2		158	303	381	227	130	17		292	530	294	170	245
3		160	303	381	217	122	18		328	552	286	173	210
4		171	288	376	211	136	19		324	570	282	176	207
5		176	307	372	211	134	20		311	570	270	164	191
6		181	320	367	225	136	21		324	558	266	162	170
7		187	345	358	225	138	22	153	316	552	273	160	162
8		193	390	354	222	142	23	150	303	546	286	158	160
9		190	410	354	206	142	24	150	288	546	282	156	160
10		193	405	354	197	154	25	150	284	510	270	156	160
11		198	420	353	191	154	26	150	292	515	278	154	162
12		201	435	352	182	154	27	148	296	505	270	154	162
13		204	445	347	179	152	28	150	288	495	286	154	162
14		223	470	336	176	154	29	150	288	480	270	152	156
15		242	485	326	176	162	30	148	284	425	262	148	156
							31		281		254	138	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April 22-30	153	148	159	2,680
May	328	153	245	15,100
June	570	281	449	26,700
July	410	254	318	19,600
August	238	138	182	11,200
September	245	122	160	9,520
The period				84,800

## OWENS RIVER AT PLEASANT VALLEY, NEAR BISHOP, CALIF.

LOCATION.—Water-stage recorder in NW.  $\frac{1}{4}$  sec. 24, T. 6 S., R. 31 E., 1,000 feet above Owens River Canal intake and 8 miles northwest of Bishop. Rock Creek enters 2 miles above.

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

EXTREMES.—Maximum mean daily discharge during year, 916 second-feet June 17 and 18; minimum, 152 second-feet December 24.

1918-1927: Maximum mean daily discharge, 1,210 second-feet June 21, 1918; minimum, 98 second-feet December 26, 1921.

REMARKS.—Diversions from tributaries above station. Owens River Canal diverts 1,000 feet below gage. Daily-discharge 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.....	163	174	274	182	192	250	297	213	354	506	364	182
2.....	171	174	265	188	192	246	391	230	426	542	346	177
3.....	169	174	266	196	192	246	368	224	378	576	319	180
4.....	169	174	249	196	201	236	411	221	378	600	314	198
5.....	169	174	286	187	195	230	279	282	414	586	332	200
6.....	169	174	221	190	197	236	259	236	455	582	364	292
7.....	169	174	203	184	197	246	251	246	518	561	376	198
8.....	169	176	221	188	195	256	228	256	580	572	362	200
9.....	177	176	180	188	186	265	224	266	601	543	311	200
10.....	182	177	210	184	186	261	221	276	589	575	286	218
11.....	182	177	219	185	186	244	219	266	589	603	263	220
12.....	182	177	210	185	195	261	219	268	598	607	254	217
13.....	183	181	210	185	192	297	219	274	650	607	261	216
14.....	183	176	192	179	201	334	218	314	776	575	246	214
15.....	182	177	188	201	216	271	213	350	854	543	239	214
16.....	183	180	182	199	222	244	207	424	910	522	230	250
17.....	183	177	187	195	220	248	204	476	916	482	226	293
18.....	188	178	195	208	274	316	214	494	916	470	229	286
19.....	188	177	184	167	242	271	204	478	906	461	230	254
20.....	213	189	182	192	210	267	200	452	875	455	226	250
21.....	259	199	184	195	250	316	196	437	860	478	222	243
22.....	201	216	184	186	274	386	191	398	895	530	218	234
23.....	179	254	170	168	269	421	189	374	857	553	214	234
24.....	188	491	152	186	284	427	191	346	825	548	210	235
25.....	181	431	170	186	295	418	192	358	790	507	206	235
26.....	174	401	177	188	275	403	195	364	868	510	202	238
27.....	173	338	172	195	275	370	200	378	846	510	200	240
28.....	171	285	174	190	256	306	197	374	717	532	203	243
29.....	170	262	176	180	-----	265	202	368	610	472	203	239
30.....	170	285	174	202	-----	262	207	356	486	427	198	239
31.....	173	-----	176	195	-----	323	-----	352	-----	391	186	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	259	163	181	11,100
November.....	491	174	224	13,300
December.....	274	152	200	12,300
January.....	208	168	190	11,700
February.....	295	186	225	12,500
March.....	427	230	294	18,100
April.....	411	189	234	13,900
May.....	44	213	332	20,400
June.....	916	354	681	40,500
July.....	607	391	530	32,600
August.....	376	186	259	15,900
September.....	293	177	224	13,300
The year.....	916	152	298	216,000

## OWENS RIVER NEAR BIG PINE, CALIF.

LOCATION.—Water-stage recorder in sec. 2, T. 11 S., R. 34 E., at Charlie Butte, 11 miles southeast of Big Pine.

RECORDS AVAILABLE.—September, 1906, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 1,150 second-feet November 28; minimum, 88 second-feet September 13.

1906-1927: Maximum discharge, about 3,220 second-feet January 26, 1914 (gage height, 11.2 feet); minimum, 36 second-feet June 13-16, 1908 (gage height, -0.05 foot).

REMARKS.—Discharge estimated February 15-18. Considerable diversion above station from Owens River and tributaries. 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.....	102	285	638	334	369	432	378	134	174	450	423	102
2.....	115	283	572	343	369	423	378	126	172	396	387	99
3.....	121	282	530	343	369	405	414	109	215	405	352	94
4.....	129	288	450	360	369	405	441	104	238	460	309	94
5.....	133	287	423	369	360	405	510	99	215	490	276	93
6.....	136	287	378	369	360	405	405	96	215	480	252	93
7.....	141	288	343	369	360	396	343	95	215	460	260	92
8.....	141	280	334	378	352	396	309	95	252	441	268	91
9.....	152	268	292	378	343	396	284	97	260	423	260	91
10.....	154	268	292	387	343	405	260	105	334	432	230	89
11.....	161	268	276	387	334	396	252	123	387	450	200	89
12.....	161	273	292	396	343	387	215	130	396	470	176	90
13.....	163	273	292	396	352	378	195	132	423	490	169	88
14.....	176	270	276	387	369	414	190	134	432	550	139	91
15.....	190	273	309	378	390	432	179	136	510	550	131	91
16.....	195	266	309	387	420	423	170	154	572	520	124	97
17.....	198	270	317	378	450	378	168	187	616	480	118	150
18.....	206	275	334	369	500	369	160	238	638	432	115	238
19.....	210	268	360	369	682	405	159	252	660	414	110	245
20.....	231	264	360	369	660	405	147	230	682	405	177	276
21.....	273	266	360	369	594	387	146	215	682	396	177	268
22.....	319	266	360	369	550	405	135	208	682	510	175	252
23.....	326	268	352	269	540	450	124	200	660	540	176	238
24.....	304	302	334	343	520	500	122	180	638	550	177	222
25.....	316	366	318	343	510	530	117	174	638	594	178	222
26.....	300	726	318	352	500	540	116	160	638	594	175	222
27.....	292	1,050	326	360	470	530	115	160	682	594	177	222
28.....	290	1,150	318	369	460	500	127	164	682	616	176	245
29.....	290	1,100	318	369	-----	441	130	165	638	594	177	284
30.....	288	750	326	369	-----	387	130	177	540	520	176	276
31.....	287	-----	334	369	-----	369	-----	177	-----	480	174	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	326	102	210	12,900
November.....	1,150	264	392	23,300
December.....	638	276	356	21,900
January.....	396	334	369	22,700
February.....	682	334	437	24,300
March.....	540	369	422	25,900
April.....	510	115	227	13,500
May.....	252	95	153	9,410
June.....	682	172	470	28,000
July.....	616	396	490	30,100
August.....	423	104	179	11,000
September.....	284	88	161	9,580
The year.....	1,150	88	321	233,000

## ROCK CREEK AT SHERWIN HILL, NEAR BISHOP, CALIF.

LOCATION.—Water-stage recorder in SW.  $\frac{1}{4}$  SW.  $\frac{1}{4}$  sec. 29, T. 5 S., R. 31 E., at Sherwin Hill, 5 miles northwest of Round Valley and 14 miles northwest of Bishop. Pine Creek enters 3 miles below station.

RECORDS AVAILABLE.—August, 1922, to September, 1927. A station was maintained 3 miles below, just above mouth of Pine Creek, from August, 1903, to November, 1923.

EXTREMES.—Maximum mean daily discharge during year, 162 second-feet June 17; minimum, 4.5 second-feet October 16.

1922-1927: Maximum mean daily discharge, that of June 17, 1927; minimum, 2.4 second-feet December 10, 1923.

REMARKS.—No diversions. Daily discharge record 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.....	10.0	12	20	14	14	15	20	44	49	78	65	18
2.....	11	12	18	14	14	16	21	45	53	86	56	14
3.....	11	12	10	14	14	14	22	49	50	96	53	13
4.....	11	12	12	14	14	12	18	47	51	102	51	14
5.....	12	12	10	14	18	13	17	45	54	100	51	14
6.....	11	11	10	13	24	13	15	44	61	93	52	14
7.....	11	10	10	14	18	14	14	42	77	90	53	13
8.....	11	10	10	14	19	14	14	40	90	90	51	14
9.....	11	10	10	15	21	12	14	38	89	93	44	16
10.....	11	9.5	12	14	22	12	13	37	84	98	42	17
11.....	10	9	12	12	24	12	15	38	80	113	39	17
12.....	8.5	9.5	9	16	16	14	14	39	80	120	37	17
13.....	8.5	13	14	14	12	15	15	41	88	122	36	17
14.....	7.5	9.5	14	14	12	16	14	55	125	115	35	16
15.....	6	12	14	13	18	12	13	69	150	106	34	16
16.....	4.5	12	14	12	14	16	16	67	146	97	33	22
17.....	4.7	12	14	17	11	16	16	88	132	91	30	24
18.....	4.9	12	12	17	19	14	20	100	157	91	29	23
19.....	5.5	12	14	17	18	14	21	98	156	92	30	23
20.....	10	11	14	13	20	9.5	22	84	140	91	30	21
21.....	12	10	14	14	20	16	23	74	147	95	30	20
22.....	11	12	14	14	20	16	26	62	138	103	29	19
23.....	12	12	14	14	18	16	26	54	134	108	29	19
24.....	12	17	14	14	19	17	29	48	139	104	29	18
25.....	12	13	14	15	18	16	32	44	122	99	26	18
26.....	13	15	14	15	18	18	33	42	138	94	24	19
27.....	13	13	14	16	17	18	37	41	142	92	24	19
28.....	13	23	14	16	15	17	40	39	112	87	23	18
29.....	12	25	14	10	-----	19	40	54	92	80	20	17
30.....	12	21	14	15	-----	22	43	51	80	68	17	18
31.....	12	-----	14	20	-----	22	-----	49	-----	66	18	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	13	4.5	10.1	621
November.....	25	9	12.8	762
December.....	20	9	13.1	806
January.....	20	10	14.5	892
February.....	24	11	17.4	966
March.....	22	9.5	15.2	935
April.....	43	13	22.2	1,320
May.....	100	37	53.8	3,310
June.....	162	49	106	6,310
July.....	122	66	95.5	5,870
August.....	65	17	36.1	2,220
September.....	24	13	17.6	1,050
The year.....	162	4.5	34.6	25,100

## PINE CREEK AT DIVISION BOX NEAR BISHOP, CALIF.

LOCATION.—Water-stage recorder in NW.  $\frac{1}{4}$  sec. 19, T. 6 S., R. 31 E., a quarter of a mile above division box and forks of creek, 4 miles west of Round Valley, and 13 miles northwest of Bishop.

RECORDS AVAILABLE.—October, 1921, to September, 1927. A station was maintained at the mouth, 3 miles northwest, near Round Valley, from August, 1903, to November, 1923.

EXTREMES.—Maximum mean daily discharge during year, 262 second-feet June 17; minimum, 17 second-feet part of October and November.

1921-1927: Maximum mean daily discharge, 286 second-feet June 20, 1922; minimum, 13 second-feet part of September, October, and December, 1924, and January, 1926.

REMARKS.—No diversions. Daily-discharge record 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	18	17	23	19	19	20	22	54	69	163	100	41
2	18	17	23	19	18	20	19	54	69	171	94	40
3	18	17	23	19	18	19	21	60	68	166	92	39
4	18	17	23	20	18	19	21	66	80	160	88	39
5	18	17	23	20	19	18	21	70	110	154	86	38
6	17	17	23	19	18	18	21	65	142	151	85	37
7	17	17	23	20	18	18	21	55	157	154	85	36
8	17	17	22	19	18	19	21	50	141	159	84	36
9	17	17	21	19	18	19	19	45	129	170	78	35
10	17	17	21	19	18	18	19	44	130	179	76	34
11	17	18	21	19	18	18	19	46	145	177	72	34
12	17	18	21	19	18	18	19	54	158	180	68	33
13	17	17	20	19	18	19	19	76	179	182	63	35
14	17	17	19	19	18	19	19	92	186	176	62	31
15	17	17	20	18	18	19	19	98	183	164	59	30
16	17	17	20	18	19	19	19	124	249	156	57	38
17	17	17	20	18	21	19	20	128	262	156	56	35
18	17	17	20	18	23	19	21	115	258	155	55	37
19	17	17	20	18	22	19	21	107	257	150	54	36
20	21	17	21	18	21	18	23	97	234	150	56	35
21	24	18	20	19	22	18	24	76	222	153	53	34
22	20	19	20	20	22	19	26	66	218	158	53	38
23	19	19	20	20	22	19	29	62	217	162	51	32
24	19	23	19	20	21	21	32	69	226	160	49	32
25	19	20	20	19	20	21	39	89	230	154	47	32
26	19	20	20	19	20	20	42	94	236	148	46	31
27	19	21	20	19	20	20	44	87	208	144	45	30
28	19	22	19	19	20	20	47	72	180	135	45	30
29	17	23	19	19	19	20	51	66	154	121	45	29
30	17	23	19	19	19	22	54	63	150	110	45	28
31	17	19	19	19	19	21	21	65	106	44	44	---

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	24	17	18.0	1,110
November	23	17	18.3	1,090
December	23	19	20.7	1,270
January	20	18	19.0	1,170
February	23	18	19.5	1,080
March	22	18	19.2	1,180
April	54	19	26.4	1,570
May	128	44	74.5	4,580
June	262	68	175	10,400
July	182	106	156	9,590
August	100	44	64.3	3,950
September	41	28	34.5	2,050
The year	262	17	53.9	39,000

## ANTELOPE VALLEY BASIN

## ROCK CREEK NEAR VALYERMO, CALIF.

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  sec. 20, T. 4 N., P. 9 W.,  $1\frac{1}{4}$  miles southeast of Valyermo.

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

EXTREMES.—Maximum discharge during year, 510 second-feet February 16 (gage height, 3.70 feet); minimum, 5.5 second-feet part of October and November.

1923-1927: Maximum discharge, that of February 16, 1927; minimum, 1.2 second-feet August 22, 1925.

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-----	6.5	5.5	9	10	11	53	29	40	26	20	14	10
2-----	6.5	5.5	8.5	10	10	49	29	39	28	20	14	10
3-----	6.5	5.5	8.5	11	10	50	31	40	27	19	14	11
4-----	6.5	5.5	10	11	11	44	33	39	27	18	14	11
5-----	6	5.5	21	12	11	41	33	39	26	18	14	11
6-----	5.5	5.5	17	13	11	39	33	38	26	18	14	11
7-----	5.5	5.5	16	13	11	37	34	38	26	18	13	11
8-----	5.5	5.5	15	13	10	38	34	36	25	17	14	12
9-----	5.5	5.5	15	13	10	38	34	35	25	17	14	12
10-----	5.5	6	14	13	10	36	34	35	24	17	14	12
11-----	5.5	5.5	14	14	10	34	33	35	24	17	14	11
12-----	6	6	14	13	10	34	31	35	24	17	14	10
13-----	6	6.5	14	13	12	34	31	36	23	17	14	10
14-----	6	6.5	13	13	27	34	31	37	22	17	13	10
15-----	6	6.5	13	13	89	34	32	37	22	17	12	9
16-----	6	6.5	12	13	433	34	32	37	22	16	11	9
17-----	6	6.5	12	13	186	34	32	36	22	16	11	8.5
18-----	6	6.5	12	13	120	34	31	35	22	16	11	8.5
19-----	6	6.5	12	12	102	34	31	35	22	16	11	8
20-----	6	6.5	12	13	82	32	32	35	22	16	11	8
21-----	6.5	6.5	12	13	77	31	34	35	22	16	11	8
22-----	6.5	6	12	12	75	31	36	34	22	15	10	8
23-----	6	6	12	12	68	31	40	34	22	15	10	8
24-----	6	7	11	12	72	31	41	34	22	15	10	8
25-----	5.5	6.5	11	12	75	32	44	34	22	15	10	8
26-----	5.5	26	11	12	72	33	44	34	22	15	10	8.5
27-----	5.5	36	10	12	65	33	44	34	22	15	9	8.5
28-----	5.5	12	10	11	58	32	41	33	21	15	9	9
29-----	5.5	11	10	11	-----	32	41	30	20	14	9	9
30-----	5.5	9.5	10	11	-----	31	41	30	20	14	9.5	9
31-----	5.5	-----	10	11	-----	30	-----	29	-----	14	10	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October-----	6.5	5.5	5.89	362
November-----	36	5.5	8.18	487
December-----	21	8.5	12.3	756
January-----	14	10	12.2	750
February-----	433	10	62.1	3,450
March-----	53	30	35.8	2,200
April-----	44	29	34.9	2,080
May-----	40	29	35.4	2,180
June-----	29	20	23.4	1,390
July-----	20	14	16.5	1,010
August-----	14	9	11.9	732
September-----	12	8	9.57	569
The year-----	433	5.5	22.0	16,000



## MONO LAKE BASIN

## MONO LAKE NEAR MONO LAKE, CALIF.

**LOCATION.**—Staff gage in lot 6, SE.  $\frac{1}{4}$  NE.  $\frac{1}{4}$  sec. 31, T. 2 N., R. 26 E., 2 miles south of Mono Lake post office.

**RECORDS AVAILABLE.**—June, 1912, to September, 1927 (fragmentary).

**EXTREMES.**—1912-1927: Maximum stage, 13.55 feet July 18, 1919; minimum, 7.93 feet December 11, 1913.

**REMARKS.**—Gage-height record furnished by United States Forest Service.

*Gage height, in feet, of Mono Lake near Mono Lake, Calif., 1926-27*

Oct. 13.....	8.77	Apr. 24.....	9.02
Nov. 20.....	8.46	May 30.....	9.24
Dec. 21.....	8.85	June 30.....	9.33

## WALKER LAKE BASIN

## EAST WALKER RIVER NEAR BRIDGEPORT, CALIF.

LOCATION.—Water-stage recorder in SW.  $\frac{1}{4}$  NE.  $\frac{1}{4}$  sec. 34, T. 6 N., R. 25 E., 1,500 feet downstream from Bridgeport Reservoir and 5 miles north of Bridgeport. Sweetwater Creek enters from left 10 miles downstream.

DRAINAGE AREA.—362 square miles.

RECORDS AVAILABLE.—October, 1921, to September, 1927; also miscellaneous measurements in 1920 and 1921. July, 1911, to September, 1914, at a site  $1\frac{1}{2}$  miles upstream.

REMARKS.—Records fair. Considerable areas of meadow and pasture are irrigated near Bridgeport. Flow is regulated by Bridgeport Reservoir of Walker River Irrigation District; capacity, 42,000 acre-feet.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	2	22	2	2	2	22	185	251	491	365	287
2	40	2	22	2	2	2	22	175	251	470	365	339
3	40	2	22	2	2	2	22	175	251	470	365	339
4	40	3	22	2	2	2	22	175	251	470	365	339
5	40	3	13	2	2	2	22	175	251	470	365	339
6	40	3	13	2	2	2	22	228	251	413	365	297
7	40	3	13	2	2	2	22	251	251	342	365	297
8	40	3	13	2	2	2	22	251	179	193	365	261
9	40	3	13	2	2	2	22	251	179	193	365	261
10	40	4	13	2	2	2	78	251	179	173	365	261
11	40	4	13	2	2	2	78	251	179	173	352	261
12	40	4	13	2	2	2	78	251	179	173	300	261
13	40	4	13	2	2	2	78	251	179	236	300	261
14	40	4	13	2	2	2	78	251	224	236	300	210
15	40	4	13	2	2	2	78	251	224	266	300	206
16	40	13	13	2	2	2	78	251	251	362	300	206
17	40	13	13	2	2	2	78	251	251	295	300	206
18	40	13	13	2	2	2	78	251	251	362	300	133
19	15	13	13	2	2	2	78	251	251	362	300	133
20	15	22	13	2	2	2	78	251	251	347	269	133
21	29	22	13	2	2	2	110	251	251	347	253	133
22	29	22	2	2	2	2	110	251	275	347	269	133
23	29	22	2	2	2	2	110	251	459	347	269	133
24	29	22	2	2	2	11	110	251	459	347	269	102
25	15	22	2	2	2	11	119	251	459	409	269	100
26	15	22	2	2	2	11	152	251	459	409	404	100
27	15	22	2	2	2	11	175	251	459	409	404	100
28	15	22	2	2	2	11	175	251	459	365	287	90
29	15	22	2	2	2	22	175	251	488	365	287	88
30	15	22	2	2	2	22	185	251	488	365	287	88
31	15	2	2	2	2	22	2	251	2	365	287	88

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	40	15	31.3	1,920
November	22	2	11.4	678
December	22	2	10.6	652
January	2	2	2.0	123
February	2	2	2.0	111
March	22	2	5.4	332
April	185	22	83.8	4,990
May	251	175	238	14,600
June	488	179	293	17,400
July	491	173	341	21,000
August	404	253	321	19,700
September	339	88	203	12,100
The year	491	2	129	93,600

## WALKER RIVER NEAR WABUSKA, NEV.

LOCATION.—Staff gage in NE.  $\frac{1}{4}$  sec. 20, T. 15 N., R. 26 E., at bridge at A. E. Parker ranch, half a mile above boundary of Walker River Indian Reservation and 5 miles east of Wabuska.

RECORDS AVAILABLE.—January, 1920, to September, 1927. Comparable records were obtained July, 1902, to July, 1908, at railroad bridge 3 miles upstream.

EXTREMES.—1920-1927: Maximum discharge, 2,220 second-feet June 8, 1922 (gage height, 7.08 feet); no flow in August and September, 1924, and numerous periods from March to September, 1925.

REMARKS.—Records fair. Station is below all diversions, except for Walker River Indian Reservation. Flow regulated by Twin Lakes, Bridgeport, Poor Lake, and Topaz Lake Reservoirs; also by diversions.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	12	122	85	56	77	47	85	219	833	158	42
2	12	12	103	103	56	77	53	85	222	833	136	52
3	19	12	94	94	56	70	56	88	245	785	126	52
4	19	9	85	77	56	70	62	83	275	809	116	128
5	19	9	85	77	56	62	66	77	291	833	97	132
6	12	9	85	70	56	62	70	70	340	785	94	136
7	12	8	94	56	56	56	50	66	489	738	88	143
8	12	8	103	56	56	56	47	62	510	692	83	154
9	19	9	94	50	53	56	44	58	450	603	78	147
10	19	9	94	50	50	50	44	56	411	419	72	136
11	19	9	85	56	50	44	44	50	393	330	65	136
12	15	9	77	56	53	44	44	44	411	236	58	140
13	12	12	70	56	56	44	35	50	430	172	52	143
14	12	12	62	53	56	44	32	56	450	168	50	140
15	12	19	56	53	56	38	32	70	489	163	50	136
16	12	19	56	50	58	38	35	143	510	154	48	136
17	12	19	70	50	58	38	41	165	582	136	47	132
18	12	12	70	50	62	41	44	190	882	106	47	132
19	12	9	85	50	94	44	50	203	1,320	97	47	126
20	19	9	85	56	103	44	50	165	1,520	94	46	116
21	19	9	85	56	112	38	44	165	1,390	87	45	106
22	19	9	77	56	112	32	40	156	1,180	80	44	97
23	19	9	77	62	122	32	38	143	980	77	42	80
24	19	12	70	62	112	30	44	122	980	116	40	65
25	19	19	70	70	103	28	50	101	980	120	38	62
26	19	37	70	70	94	28	62	103	980	128	35	61
27	19	78	70	70	85	26	68	122	980	136	33	65
28	19	138	70	70	85	26	85	143	980	154	32	65
29	19	190	77	62	-----	28	85	165	980	158	30	62
30	19	143	77	56	-----	28	85	190	956	136	34	58
31	12	-----	85	56	-----	33	-----	216	-----	147	40	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	19	12	15.9	978
November	190	8	29.0	1,730
December	122	56	80.7	4,960
January	103	50	62.5	3,840
February	122	50	72.2	4,010
March	77	26	44.6	2,740
April	85	32	51.6	3,070
May	216	44	113	6,950
June	1,520	219	694	41,300
July	833	77	333	20,500
August	158	30	63.6	3,910
September	154	42	106	6,310
The year	1,520	8	138	100,000

## SURFACE WATER SUPPLY, 1927, PART X

## WALKER RIVER AT SCHURZ, NEV.

LOCATION.—Staff gage in sec. 36, T. 13 N., R. 28 E., 50 feet below Southern Pacific Railroad bridge at Schurz, 3 miles above Walker Lake, and 6 miles below diversion dam of Walker River Indian Reservation.

DRAINAGE AREA.—2,850 square miles.

RECORDS AVAILABLE.—July, 1913, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,530 second-feet June 21 (gage height, 5.70 feet); minimum, 1 second-foot October 1–11, March 31, and April 1.

1913–1927: Maximum discharge, 2,530 second-feet June 8 and 9, 1914 (gage height, 11.0 feet); no flow during periods in 1913, 1920–1922, and 1924–1926.

REMARKS.—Records fair. Station is below all diversions. Flow regulated by Twin Lakes, Bridgeport, Poor Lake, and Topaz Lake Reservoirs; also by irrigation diversion.

*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	140	61	61	91	1	25	137	850	100	5
2	1	2	105	71	53	81	2	28	154	718	104	6
3	1	2	88	95	56	78	8	34	163	683	78	8
4	1	2	72	100	56	51	12	32	177	722	71	9
5	1	2	72	125	49	44	10	17	219	742	74	16
6	1	2	75	123	46	33	11	9	222	746	48	49
7	1	2	81	69	48	29	12	9	242	702	38	67
8	1	2	75	54	51	27	7	10	328	671	31	91
9	1	2	72	51	46	22	4	11	408	502	23	105
10	1	2	93	64	39	21	5	11	454	383	21	104
11	1	2	86	53	35	18	6	10	377	277	25	117
12	2	2	78	67	40	18	7	6	302	219	21	123
13	2	2	88	54	37	12	4	3	314	170	20	125
14	2	2	121	61	46	9	4	2	319	121	11	113
15	2	2	40	53	42	8	6	2	358	109	9	98
16	2	2	48	41	44	9	8	6	399	98	8	68
17	2	2	81	45	39	11	7	52	405	85	8	69
18	2	2	96	42	48	12	7	109	516	78	8	78
19	2	2	64	41	40	14	6	78	830	58	8	95
20	2	2	61	52	51	19	7	133	1,300	49	8	86
21	2	2	49	42	72	11	4	119	1,480	39	9	69
22	2	2	56	13	113	8	5	96	1,320	29	7	52
23	2	3	51	11	109	7	4	89	1,040	22	5	48
24	2	2	20	22	140	7	4	69	925	23	4	33
25	2	2	19	25	142	5	3	58	890	21	7	28
26	2	2	35	29	119	4	3	39	940	37	5	30
27	2	2	41	53	104	2	3	36	955	67	7	25
28	2	2	52	95	95	3	14	48	976	93	7	23
29	2	154	39	67	-----	2	26	85	972	111	7	22
30	2	165	40	54	-----	3	24	113	935	117	7	21
31	2	-----	48	69	-----	1	-----	121	-----	104	6	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	2	1	1.6	98
November	165	2	12.5	744
December	140	19	67.3	4,140
January	125	11	58.1	3,570
February	142	35	65.0	3,610
March	91	1	21.3	1,310
April	26	1	7.5	446
May	133	2	47.1	2,900
June	1,480	137	602	35,800
July	850	21	279	17,200
August	104	4	25.3	1,560
September	125	5	59.4	3,530
The year	1,480	1	103	74,900

## WALKER LAKE BASIN

65

## WEST WALKER RIVER NEAR COLEVILLE, CALIF.

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  sec. 28, T. 8 N., R. 23 E., immediately below Rock Creek (Ross Canyon), at head of Antelope Valley, and 5 miles southeast of Coleville. East Fork enters from right 10 miles upstream.

DRAINAGE AREA.—245 square miles.

RECORDS AVAILABLE.—June, 1915, to September, 1927. October, 1902, to July, 1908, at a site half a mile upstream.

EXTREMES.—Maximum discharge during year, 2,350 second-feet about June 16 (gage height, 5.7 feet); minimum, 8 second-feet November 14 (gage height, 1.27 feet).

1915-1927: Maximum discharge, 2,710 second-feet June 12, 1921 (gage height, 5.74 feet); minimum, 5 second-feet December 3, 1924 (gage height, 1.21 feet).

REMARKS.—Records good except those for estimated periods, which are fair. Station is above all diversions except one small canal  $1\frac{1}{2}$  miles upstream, which diverts a maximum of 3 second-feet. Very slight regulation from storage in Poor Lake Reservoir, 17 miles upstream; capacity unknown.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	29	26	96	52	59	121	166	792	743	1,020	269	93
2	30	26	102	52	60	117	188	761	677	1,130	247	88
3	31	26	96	70	59	113	218	818	737	1,050	247	82
4	29	26	89	76	47	111	201	863	934	908	244	89
5	29	27	84	77	49	109	190	980	1,230	856	232	91
6	28	27	81	70	59	107	188	960	1,470	870	229	84
7	26	27	77	54	55	109	186	761	1,760	830	226	79
8	25	28	49	56	54	115	183	611	1,520	824	226	76
9	24	29	64	58	50	105	166	548	1,340	824	209	71
10	26	30	70		55	107	162	571	1,470	889	196	66
11	29	29	71	58	50	102	150	647	1,510	922	180	62
12	29	30	68		58	105	152	773	1,530	856	168	60
13	28	28	59		54	123	145	1,090	1,730	818	157	58
14	27	24	52		55	135	150	1,380	1,800	761	150	55
15	27	35	58		39	117	162	1,380	1,900	683	148	54
16	27	36	58	58	42	107	162	1,580	2,000	582	144	51
17	27	34	62		35	111	142	1,720	1,800	559	137	51
18	28	35	56		89	104	162	1,410	1,620	554	150	51
19	29	38	55	60	107	96	183	1,190	1,510	543	206	50
20	30	45	49		115	96	201	954		500	171	46
21	32	39	52		146	104	229	785		490	146	43
22	31	52	55		137	115	292	647	1,480	471	135	40
23	30	55	54	64	125	137	387	635		495	123	39
24	30	109	54	76	140	162	500	785		466	119	38
25	30	100	54	65	150	180	635	994		425	115	38
26	29	80	54	60	155	204	779	1,140	1,450	425	111	37
27	28	60		54	144	206	844	974	1,090	438	107	37
28	29	52		59	123	198	755	773	889	362	104	35
29	28	100	53	50		190	811	647	749	339	102	34
30	24	107		52		183	844	611	837	317	100	33
31	25			59		173		677		289	95	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	32	24	28.2	1,730
November	109	24	45.3	2,700
December	102	49	64.0	3,940
January	77	50	60.3	3,710
February	155	35	82.5	4,580
March	206	96	131	8,060
April	844	142	318	18,900
May	1,720	548	918	56,400
June	2,000	677	1,370	81,500
July	1,130	289	661	40,600
August	269	95	167	10,300
September	93	33	57.7	3,430
The year	2,000	24	326	236,000

\* Estimated.

## WEST WALKER RIVER AT HOYE BRIDGE, NEAR WELLINGTON, NEV.

LOCATION.—Water-stage recorder in SE. ¼ sec. 17, T. 10 N., R. 23 E., at Hoyer Bridge, 2 miles above Saroni Canal and 4 miles southwest of Wellington.

DRAINAGE AREA.—504 square miles.

RECORDS AVAILABLE.—April to August, 1910; March, 1924, to September, 1927 (fragmentary). Record obtained ¾ miles downstream December, 1917, to May, 1924.

EXTREMES.—Maximum mean daily discharge during year, 1,520 second-feet June 18 (gage height, 10.05 feet); minimum, 15 second-feet November 18–21 (gage height, 3.04 feet).

1924–1927: Maximum discharge, that of June 18, 1927; minimum, 6 second-feet December 19, 1925 (gage height, 2.49 feet).

REMARKS.—Records good except those for estimated periods, which are fair. Station is below all diversions in Antelope Valley and above all diversions in Smith Valley. Flow is regulated by storage in Poor Lake and Topaz Lake Reservoirs. Gage-height record and results of two discharge measurements furnished by Walker River 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	51	28	34		19	32	74	632	646	706	366	319
2	51	20	31		20	30	74	620	692	780	339	307
3	52	19	28		22	29	79	634	675	790	305	298
4	53	18	27		31	29	90	641	706	750	301	288
5	53	18	27		38	28	81	692	740	718	286	269
6	53	17	26	29	28	27	77	730	820	706	303	230
7	52	17			24	25	109	668	860	637	290	204
8	50	17			22	24	114	604	952	610	325	196
9	48	17			20	23	109	564	865	587	309	190
10	46	17			19	24	108	562	778	594	303	143
11	46	17	22		28	23	108	627	812	658	301	122
12	46	17		18	18	22	100	658	828	644	321	122
13	45	17			18	22	99	738	892	620	325	133
14	45	17			20	22	104	795	948	585	311	149
15	47	17			22	22	162	848	972	541	323	154
16	48	16			23	22	159	860	1,140	493	303	172
17	46	16		26	38	20	160	985	1,480	460	300	165
18	46	15	19		104	18	168	965	1,520	449	303	159
19	42	15	20		108	17	167	800	1,490	443	305	160
20	34	15			56	16	160	768	1,380	445	265	157
21	34	15			46	16	179	728	1,120	476	239	155
22	34	18			38	16	241	641	1,070	505	236	138
23	34	21			36	16	298	613	968	651	236	115
24	34	31			41	17	391	649	950	665	243	90
25	34	42	22		41	20	454	755	932	622	230	66
26	34	70			36	23	507	792	925	585	269	66
27	33	118			34	27	580	770	910	574	263	65
28	33	96			33	36	580	723	865	541	262	68
29	34	48				64	600	711	838	495	273	70
30	36	38				72	639	718	656	450	329	72
31	36					79		709		410	321	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	53	33	42.9	2,640
November	118	15	28.2	1,680
December	34		23.2	1,430
January			25	1,540
February	108	18	35.1	1,950
March	79	16	27.8	1,710
April	639	74	226	13,400
May	985	562	715	44,000
June	1,520	646	948	56,400
July	790	410	587	36,100
August	366	230	293	18,000
September	319	65	160	9,520
The year	1,520	15	260	188,000

• Estimated.

## HUMBOLDT-CARSON SINK BASIN

## CARSON RIVER BASIN

## EAST FORK OF CARSON RIVER NEAR MARKLEEVILLE, CALIF.

LOCATION.—Staff gage in NE.  $\frac{1}{4}$  sec. 27, T. 10 N., R. 20 E., at Hangmans Bridge 2 miles east of Markleeville. Indian Creek enters 100 feet above gage and Markleeville Creek  $\frac{1}{4}$  miles below.

RECORDS AVAILABLE.—November, 1910, to September, 1927 (fragmentary).

EXTREMES.—Maximum discharge during year, 2,300 second-feet June 12 (gage height, 7.60 feet); minimum, 26 second-feet October 22 and November 9.

1910-1927: Maximum stage, 7.7 feet June 7, 1911 (discharge not determined); minimum discharge, 6 second-feet September 20, 1913.

REMARKS.—Records fair. No diversions. Low-water flow is augmented by storage developed on Silver Creek above station. Gage-height record furnished by United States Forest Service.

*Daily discharge, in second-feet, 1926-27*

Day	Oct.	Nov.	Apr.	May	June	July	Aug.	Sept.
1								83
2						575		
3								
4	33							
5				1,650				
6				1,220				
7			295		1,590			
8						385		
9		26				575		
10				860				
11				860	1,350		116	
12				1,090	2,300			
13	35						116	
14								
15						430		
16					1,670	340		
17				1,750	1,750			
18				1,590				
19	33			1,210	1,350			
20	32		295					
21	33			800				
22	26						76	
23					1,210			
24				535	1,280			
25				575	1,350			
26								
27				575				
28								
29					705		83	
30					705			
31				535				

## EAST FORK OF CARSON RIVER NEAR GARDNERVILLE, NEV.

LOCATION.—Staff gage in sec. 25, T. 12 N., R. 20 E., 300 feet below dam of Douglas Power Co., 1,000 feet above highway bridge, half a mile southwest of Rodenbah ranch, and 5 miles southeast of Gardnerville.

DRAINAGE AREA.—381 square miles.

RECORDS AVAILABLE.—April, 1890, to December, 1893; October, 1900, to December, 1906; March, 1908, to December, 1910; June to October, 1917; December, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 3,150 second-feet May 17 (gage height, 4.00 feet); minimum, 37 second-feet November 4 (gage height, 0.30 foot).

1890–1893, 1900–1906, 1908–1910, 1917, 1924–1927: Maximum discharge, estimated, 5,540 second-feet December 25, 1892; minimum, 8 second-feet December 4–10 and 19–23, 1904.

REMARKS.—Records fair; discharge estimated November 17–19, November 27 to January 31, February 14–16, and August 19. Station is above all diversions in Carson Valley except Rodenbah pump ditch. Flow affected to some extent by operation of Douglas Power Co.'s plant. Gage-height record furnished by Douglas 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	43	41			116	405	324	1,530	943	952	225	102
2	43	39			124	364	550	1,370	925	907	206	102
3	45	39			133	344	826	1,490	1,066	952	206	94
4	45	37			144	324	541	1,500	1,436	925	189	86
5	43	39			130	301	517	1,700	1,546	782	189	89
6	43	41			121	289	494	1,620	1,850	772	176	96
7	43	43			118	324	471	1,320	1,830	764	172	94
8	45	45			116	324	471	1,100	1,910	676	158	84
9	45	47			113	301	426	988	1,990	676	150	86
10	47	57			104	277	344	1,020	1,780	668	147	86
11	47	57			99	235	295	1,150	1,980	625	144	84
12	47	57			94	245	324	1,260	2,180	616	144	82
13	47	59			89	289	306	1,620	2,046	608	144	79
14	49	64			100	338	318	1,910	1,926	583	136	89
15	49	64			150	295	318	1,840	1,776	502	133	86
16	49	64	65	75	200	255	318	2,470	1,900	486	127	82
17	51	65			283	240	318	2,540	1,830	494	127	82
18	53	70			642	215	318	1,826	1,856	471	172	79
19	53	80			344	210	412	1,510	1,880	455	150	82
20	53	99			616	206	463	1,340	1,516	419	127	82
21	53	113			1,100	215	525	1,100	1,470	397	113	77
22	53	107			591	255	702	979	1,546	405	113	75
23	53	150			455	331	934	925	1,650	390	110	77
24	49	318			558	397	1,080	1,080	1,490	376	113	77
25	49	250			558	448	1,290	1,520	1,420	338	127	77
26	47	210			510	471	1,550	1,640	1,370	338	130	82
27	47	150			494	471	1,500	1,080	1,210	364	130	79
28	43	100			426	412	1,390	934	1,030	301	124	77
29	43	80				397	1,550	826	898	277	124	77
30	41	75				376	1,640	746	925	245	118	75
31	41					390		764		245	113	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	53	41	47.1	2,900
November	318	37	88.7	5,280
December			65	4,000
January			75	4,610
February	1,100	89	305	16,900
March	471	206	321	19,700
April	1,640	295	684	40,700
May	2,540	746	1,380	84,800
June	2,180	898	1,570	93,400
July	952	245	549	33,800
August	225	110	146	8,980
September	102	75	84.0	5,000
The year	2,540	37	442	320,000



## CARSON RIVER NEAR FORT CHURCHILL, NEV.

LOCATION.—Water-stage recorder in sec. 5, T. 16 N., R. 23 E., 1 mile west of Clifton station on Mound House-Churchill branch of Southern Pacific Railroad, 9 miles west of Fort Churchill, and 10 miles east of Dayton.

DRAINAGE AREA.—1,200 square miles.

RECORDS AVAILABLE.—April, 1911, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 2,430 second-feet May 18 (gage height, 7.17 feet); no flow during October.

1911–1927: Maximum discharge, 6,150 second-feet January 26, 1914 (gage height, 11.5 feet); no flow during periods in 1923, 1924, and 1926.

REMARKS.—Carson and Dayton Valleys are irrigated above station. Record of daily discharge furnished by United States Bureau of Reclamation.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	15	519	176	205	631	476	1,820	1,090	794	68	7
2	0	16	439	213	208	588	480	1,730	965	746	60	7
3	0	19	431	255	225	558	727	1,610	981	765	59	6
4	0	22	427	353	264	525	955	1,630	1,160	713	46	7
5	0	23	391	291	326	488	832	1,670	1,290	658	38	7
6	0	24	360	353	295	462	667	1,750	1,450	636	34	5
7	0	25	335	325	261	445	600	1,800	1,670	600	30	9
8	0	28	332	280	255	437	566	1,450	1,940	537	29	10
9	0	29	302	243	238	448	537	1,190	1,690	480	25	10
10	0	30	255	249	223	422	508	1,030	1,720	422	24	9
11	0	30	240	235	215	411	484	1,040	1,770	404	22	10
12	0	30	243	229	205	382	456	1,090	1,840	422	21	12
13	0	32	255	235	205	368	437	1,180	1,900	404	20	10
14	0	39	226	243	213	411	411	1,420	1,980	351	18	10
15	0	49	226	264	223	456	375	1,770	1,940	316	19	10
16	0	52	218	283	247	382	372	1,950	2,010	289	18	11
17	0	52	218	296	348	375	407	2,150	2,000	236	18	12
18	0	54	229	264	606	358	400	2,430	1,990	220	21	13
19	0	60	235	232	1,190	329	400	2,330	1,980	194	32	12
20	0	63	226	240	981	307	126	1,950	1,770	152	19	13
21	0	63	213	252	981	301	64	1,690	1,540	126	13	14
22	0	73	203	226	1,280	301	545	1,330	1,460	107	13	14
23	0	77	205	203	1,010	316	741	1,140	1,480	104	12	12
24	0	95	176	200	737	316	955	1,010	1,420	130	12	12
25	0	213	176	216	760	342	1,140	1,030	1,420	140	10	12
26	0	542	190	221	774	365	1,360	832	1,400	142	10	16
27	0	696	188	221	770	411	1,500	751	1,330	180	9	16
28	0	834	176	232	667	418	1,690	704	1,110	164	10	15
29	0	542	147	246	-----	407	1,690	784	930	150	10	14
30	0	505	183	224	-----	418	1,740	915	881	109	9	15
31	0	-----	188	210	-----	418	-----	1,060	-----	85	7	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
November	834	15	144	8,570
December	519	147	263	16,200
January	391	176	252	15,500
February	1,280	205	497	27,600
March	631	301	413	25,000
April	1,740	372	745	44,300
May	2,430	704	1,430	87,900
June	2,010	881	1,540	91,600
July	794	85	348	21,400
August	68	7	23.7	1,460
September	16	5	11.0	655
The year	2,430	0	470	341,000

MARKLEEVILLE CREEK<sup>1</sup> ABOVE MARKLEEVILLE, CALIF.

LOCATION.—Staff gage in sec. 29, T. 10 N., R. 20 E., at highway bridge above mouth of Pleasant Valley Creek, three-fourths mile above Markleeville.

RECORDS AVAILABLE.—November, 1911, to September, 1927 (fragmentary).

EXTREMES.—Maximum discharge during year, 690 second-foot June 12 (gage height, 3.80 feet); minimum, 1.0 second-foot several days during August and September.

1911-1927: Maximum discharge, that of June 12, 1927; minimum, 0.05 second-foot September 5, 1921.

REMARKS.—Records fair. Town ditch, heading above gage, furnishes water for irrigation and domestic supply at Markleeville. A small ditch also diverts water for irrigation on Hot Springs ranch. Gage-height record furnished by United States Forest Service.

*Daily discharge, in second-feet, 1926-27*

Day	Oct.	Nov.	Apr.	May	June	July	Aug.	Sept.
1								1.0
2					120		4.5	1.0
3					164			1.0
4				242				
5					450			
6			51	248	305			1.0
7				176				1.0
8		1.3						1.0
9		1.4		146				
10				153				
11			40	138	305			
12				188	690		4.5	
13	1.4			248	450			
14				188	392			
15					228			
16		1.9			272			
17								1.0
18			42	272				
19				209				
20				164				
21			58	120				
22			82					
23	1.3			100				
24				106				
25	1.0			112				
26	1.0			110				
27	1.3			106		18		
28				104				
29								
30			242				1.0	
31				100			1.0	

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

<sup>1</sup> Known locally as Hot Springs Creek.

## MARKLEEVILLE CREEK AT MARKLEEVILLE, CALIF.

LOCATION.—Staff gage in SE.  $\frac{1}{4}$  sec. 21, T. 10 N., R. 20 E., at highway bridge at Markleeville, three-fourths mile below junction with Pleasant Valley Creek.

RECORDS AVAILABLE.—November, 1910, to September, 1927 (fragmentary).

EXTREMES.—Maximum discharge during year, 860 second-feet May 16 (gage height, 4.50 feet); minimum, 3.2 second-feet October 22, November 9 and 10. 1910-1927: Maximum discharge, 915 second-feet June 15, 1912 (gage height, 5.3 feet); minimum, 2.0 second-feet September 6, 1920.

The flood of March, 1907, reached a stage of about 9 feet.

REMARKS.—Records fair. Diversions from main river and Pleasant Valley Creek above station for irrigation and domestic use. Some regulation caused by storage on Pleasant Valley Creek. Gage-height record furnished by United States Forest Service.

*Daily discharge, in second-feet, 1926-27*

Day	Oct.	Nov.	Apr.	May	June	July	Aug.	Sept.
1								6
2					292	176		
3					464			
4			118	464				
5			110	507				
6				507				
7				352	650			
8						96		
9		32		292		96		6
10		32		320				
11			96	387	600		15	
12				486				
13	40			552	650		6	
14				320				
15						96		
16		6		860	600	73		
17				805	576			
18			141	650	464			
19	45			507	552			
20	42		118	370				
21			141					
22	32		197					
23	45						6	
24	38			292				
25	45			552	320			
26				600				
27				424				
28								
29								
30			507		176			
31				292				

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

## HUMBOLDT RIVER BASIN

## HUMBOLDT RIVER AT PALISADE, NEV.

LOCATION.—Chain gage in sec. 36, T. 32 N., R. 51 E., at highway bridge at Palisade, 100 feet below Southern Pacific Railroad bridge, and 1 mile above mouth of Pine Creek.

DRAINAGE AREA.—5,010 square miles.

RECORDS AVAILABLE.—November, 1902, to October, 1906; July, 1911, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,820 second-feet June 20 (gage height, 5.84 feet); minimum, 14 second-feet September 8-11.

1902-1906, 1911-1927: Maximum discharge, 4,300 second-feet March 3, 1921 (gage height, 8.6 feet); minimum, 6 second-feet August 3 and 5, 1926 (gage height, 1.02 feet).

REMARKS.—Records good except those for December 12-25 and January 20-28, which were estimated because of ice. Some water is diverted for irrigation in valleys 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.....	23	28	51	45	124	745	563	755	854	735	51	18
2.....	24	27	54	43	289	675	581	745	821	725	51	17
3.....	23	27	49	40	184	617	646	766	788	572	48	17
4.....	22	28	43	42	175	533	636	788	715	504	46	16
5.....	23	30	42	43	162	480	627	788	705	480	43	16
6.....	22	28	43	42	124	465	627	821	715	435	42	15
7.....	22	27	43	40	117	450	655	898	777	385	40	15
8.....	23	28	42	40	107	435	665	992	843	345	40	14
9.....	23	28	40	43	104	435	646	980	944	319	39	14
10.....	22	30	38	43	98	413	636	1,030	1,020	266	38	14
11.....	20	28	36	45	98	420	646	1,020	1,050	249	35	14
12.....	18	32	49	101	406	655	1,000	1,120	233	33	15	15
13.....	18	35	61	93	402	665	909	1,170	218	32	16	16
14.....	17	30	67	82	392	627	887	1,260	189	32	17	17
15.....	16	28	72	84	358	608	865	1,440	154	32	16	16
16.....	16	30	67	93	341	599	854	1,750	143	31	17	17
17.....	15	28	68	128	319	599	865	1,730	128	31	19	19
18.....	16	29	58	944	319	590	832	1,730	117	30	20	20
19.....	17	31	61	512	307	572	1,020	1,790	107	30	20	20
20.....	16	32	581	301	537	537	1,100	1,820	104	28	19	19
21.....	18	30	1,430	301	488	1,170	1,750	93	28	18	18	18
22.....	21	32	1,430	289	472	1,260	1,690	82	27	18	18	18
23.....	25	33	1,050	301	457	1,400	1,540	77	25	19	19	19
24.....	24	35	865	319	450	1,550	1,260	72	25	20	20	20
25.....	26	36	799	364	465	1,660	1,120	70	24	21	21	21
26.....	27	39	36	788	420	537	1,680	876	63	23	21	21
27.....	28	42	39	799	457	572	1,520	788	61	22	22	22
28.....	28	45	42	777	480	655	1,510	766	59	22	24	24
29.....	30	46	49	65	496	705	1,170	745	56	20	23	23
30.....	31	48	52	65	512	745	1,030	735	54	19	24	24
31.....	30	49	82	537	537	932	52	19	19	19	19	19

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	31	15	22.1	1,360
November.....	48	27	32.3	1,920
December.....	54	-----	39.9	2,450
January.....	82	40	55.4	3,410
February.....	1,430	82	434	24,100
March.....	745	289	429	26,400
April.....	745	450	598	35,600
May.....	1,680	745	1,050	64,600
June.....	1,820	705	1,150	68,400
July.....	735	52	231	14,200
August.....	51	19	32.5	2,000
September.....	24	14	18.0	1,070
The year.....	1,820	14	339	245,000

## HUMBOLDT RIVER NEAR OREANA, NEV.

LOCATION.—Water-stage recorder in sec. 2, T. 28 N., R. 32 E., 2 miles above highway bridge near J. J. McCarthy ranch and 2 miles southwest of Oreana.

DRAINAGE AREA.—13,800 square miles.

RECORDS AVAILABLE.—January, 1896, to December, 1909; September, 1910, to September, 1922; September, 1924, to September, 1927 (fragmentary).

EXTREMES.—Maximum discharge during year, 370 second-feet June 16 (gage height, 3.05 feet); minimum, not determined.

1896–1922, 1924–1927: Maximum discharge, 3,050 second-feet May 12, 1897 (gage height, 12.0 feet); no flow during periods in 1905, 1915, and 1918–1920.

REMARKS.—Records fair. Station is above all diversions for Lovelock district, but considerable water is diverted above station for irrigation and storage. Flow is affected by operations at reservoirs of Humboldt-Lovelock Irrigation, Light & Power Co., near Humboldt.

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

Day	Nov.	Mar.	Apr.	May	June	July	Aug.
1			72	194	247	264	146
2			66	191	225	275	139
3			62	191	258	275	136
4			59	177	262	307	130
5		5	53	170	245	314	118
6			53	160	266	316	109
7			138	150	273	331	97
8		6	165	139	291	314	87
9		10	209	130	309	277	76
10		74	227	121	319	219	66
11		148	245	114	302	202	54
12		168	258	125	307	186	50
13		186	260	128	314	186	46
14		192	264	116	328	277	44
15		197		98	350	311	-----
16		202		91	361	293	-----
17		200	264	146	295	273	-----
18		199		166	210	300	-----
19		195		174	172	326	-----
20		195	264	177	160	291	-----
21		188	260	183	188	264	-----
22		184	258	203	195	247	-----
23		192	243	212	254	231	-----
24	3	186	212	219	295	219	-----
25		158	205	229	309	207	-----
26		133	174	212	288	197	-----
27		118	170	216	260	188	-----
28		107	176	218	231	178	-----
29		98	237	218	227	170	-----
30		91	218	237	223	162	-----
31		80	-----	245	-----	154	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
March	202	-----	114	7,010
April	-----	53	196	11,700
May	245	91	173	10,600
June	361	160	265	13,800
July	331	154	250	13,400
August 1-14	146	44	92.7	2,570

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

## HUMBOLDT RIVER NEAR LOVELOCK, NEV.

LOCATION.—Staff gage in NW.  $\frac{1}{4}$  sec. 11, T. 25 N., R. 31 E., 1,500 feet below dam and reservoir on Big 5 ranch and 9 miles south of Lovelock.

DRAINAGE AREA.—14,200 square miles.

RECORDS AVAILABLE.—February, 1912, to September, 1927 (fragmentary).

EXTREMES.—1912-1927: Maximum discharge, 1,700 second-feet May 29 and 30, 1922 (gage height, 5.90 feet); stream dry for periods in nearly every year.

REMARKS.—Station is below all irrigation diversions. Stream dry during the entire year.

## MARYS RIVER NEAR DEETH, NEV.

LOCATION.—Staff gage in NW.  $\frac{1}{4}$  sec. 31, T. 40 N., R. 60 E., at bridge 300 feet east of Mala Vista ranch house and 19 miles north of Deeth.

DRAINAGE AREA.—355 square miles.

RECORDS AVAILABLE.—November, 1902, to July, 1903; January, 1912, to September, 1927.

EXTREMES.—Maximum discharge during year, 428 second-feet May 21 (gage height, 6.55 feet); minimum, less than 1 second-foot during parts of August and September.

1912-1927: Maximum discharge, 616 second-feet May 8, 1922 (gage height, 7.70 feet); practically no flow part of August and September, 1924.

REMARKS.—Records fair. Station is below all diversions except one small ditch on Mala Vista ranch and diversions on Cross ranch, 12 miles below.

*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	5			23	48	376	150	41	5	
2	1	2	6			27	51	384	144	34	5	
3	1	2	6			30	54	347	150	28		
4	1	2	6			31	59	347	150	26	3	
5	1	2	6			29	64	340	155	24	3	
6	1	2	7		10	27	68	347	172	22	3	
7	1	2	8			26	69	340	190	19	3	
8	1	2	8			26	69	298	202	16	2	
9	1	2	8			26	90	265	214	15	2	
10	1	2	8			27	73	232	220	14	2	
11	1	2	8			26	73	208	226	13	2	
12	1	2	8		10	26	73	214	226	12	2	
13	1	3	8		10	26	73	220	226	11	2	
14	1	3			11	27	73	226	214	10	2	
15	1	3			10	26	73	291	202	10	2	
16	1	3		8	10	25	75	354	196	9	1	
17	1	3			10	25	78	391	184	9	1	
18	1	3			11	25	82	406	178	9	1	
19	1	4			11	25	92	414	166	9	1	
20	1	4			11	27	112	421	155	9	1	
21	1	4			13	31	122	428	144	8	1	
22	1	4	7		14	36	133	406	122	8	1	
23	1	4			15	39	138	347	102	8	1	
24	1	4			17	40	144	291	92	8	1	
25	1	4			18	41	184	226	82	7	1	
26	2	4			20	41	246	190	73	7	1	
27	2	4			22	41	291	178	64	7	1	
28	2	4			22	42	376	172	56	7	1	
29	2	5				41	361	160	48	7	1	
30	2	5				44	361	166	41	7	1	
31	2					45		160		6	1	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	2	1	1.2	74
November	5	2	3.1	184
December		5	7.0	430
January			8	492
February	22		12.3	683
March	45	23	31.3	1,920
April	376	48	127	7,560
May	428	160	295	18,100
June	226	41	151	8,980
July	41	6	13.5	830
August	5	1	1.9	117
September			1	60
The year	428		54.6	39,400

## SOUTH FORK OF HUMBOLDT RIVER NEAR ELKO, NEV.

LOCATION.—Staff gage, installed March 3, 1927, in sec. 30, T. 33 N., R. 55 E., at ranch half a mile below highway bridge, half a mile above head of canyon, and 10 miles southwest of Elko. Prior to February, 1927, a water-stage recorder 1 mile downstream was used.

RECORDS AVAILABLE.—August, 1896, to September, 1922; October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,220 second-feet May 20 (gage height, 6.90 feet); stream practically dry during first part of October.

1896-1922, 1923-1927: Maximum discharge, 2,400 second-feet January 26, 1914; river dry at times in 1915, 1916, 1918, 1919, 1921, and 1924-1926.

REMARKS.—Records fair. Station is below all diversions except those of Hunter & Banks ranch, 3 miles downstream.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.		6	14			90	116	266	184	233	5	4
2.		5	13	26		90	144	266	175	222	5	3
3.		5	13			91	172	266	169	216	5	3
4.		6	13			93	172	259	216	187	5	3
5.		7	13			93	144	248	229	168	6	3
6.		8	13		125	94	144	229	244	137	6	3
7.		8	13			96	139	332	270	130	7	3
8.		8	12			96	139	346	356	12	7	3
9.		8	8	26		94	139	318	400	100	7	4
10.	2	9	9			89	144	308	508	72	7	4
11.		10	13			89	139	229	666	58	6	4
12.		11	12			82	130	226	710	4	6	4
13.		12			108	79	139	222	778	34	6	5
14.		12				86	144	259	778	25	5	5
15.		11				89	155	389	746	20	5	5
16.		11		44		61	163	590	746	19	5	5
17.	4	10				73	166	622	746	13	5	5
18.	4	10				70	150	622	755	7	5	5
19.	4	11	17			70	121	543	746	7	5	5
20.	5	13			393	66	116	1,160	728	6	5	5
21.		5	12			64	118	820	692	6	5	6
22.		5	11			70	121	614	508	5	5	6
23.		5	11	78		82	125	559	423	5	5	6
24.		6	11			89	128	543	337	5	4	6
25.		6	13			100	161	308	308	5	4	7
26.		5	13	20		106	169	262	308	5	4	8
27.		5	16			118	229	212	283	5	4	8
28.		5	18			125	229	216	270	5	4	9
29.		5	16	23		125	244	196	266	5	4	9
30.		5	15		66	108	259	190	259	5	4	10
31.	4					112		181		5	4	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	6		3.4	209
November	18	5	10.6	631
December			16.0	984
March	125	61	90	5,530
April	259	116	155	9,220
May	1,160	181	381	23,400
June	778	169	460	27,400
July	236	5	60.2	3,700
August	7	4	5.2	320
September	10	3	5.2	309

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

## ROCK CREEK NEAR BATTLE MOUNTAIN, NEV.

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  sec. 17, T. 34 N., R. 48 E., at mouth of canyon, half a mile above highway bridge on Old Overland Trail, and 25 miles northeast of Battle Mountain.

RECORDS AVAILABLE.—March, 1918, to September, 1925; March to July, 1927 (fragmentary).

EXTREMES.—1918–1925, 1927: Maximum discharge, 2,240 second-feet February 11, 1921 (gage height, 5.54 feet); no flow during parts of October, July, August, and September nearly every year.

REMARKS.—Records good except those for estimated periods which are fair. There are diversions in valleys upstream. Station is above all diversions in Boulder Flat and is below all tributaries. Flow slightly affected by small reservoir in Squaw Valley, 30 miles upstream.

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

Day	Mar.	Apr.	May	June	July	Day	Mar.	Apr.	May	June	July
1		139	120	20	4	16	68		14	14	
2		160	111	18	5	17	50		14	13	
3		212	98	14	5	18			14	12	
4		242	73	10	5	19			20	9	
5	107	172	56	9	5	20	30	75	29	7	
6	93			8	6	21			34	6	
7	107			8	6	22			37	5	
8	143			8	6	23	102		37	5	
9	114		35	6	7	24	156		32	5	
10	90	75		6		25	182	112	26	4	
11	59			6		26	165	125	17	4	
12	48		20	11		27	141	139	13	4	
13	52		12	12		28	149	143	14	4	
14	131		9	14		29	152	129	14	4	
15	123		8	13		30	145	127	19	4	
						31	147		21		

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
March 5–31	182		99.0	5,300
April	242		104	6,190
May	120	8	34.6	2,130
June	20	4	8.7	518
July 1–9	7	4	5.4	97
The period				14,200

NOTE.—A discharge of 4 second-feet was measured on Nov. 24, 1926.



## LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NEV.

LOCATION.—Water-stage recorder in NE.  $\frac{1}{4}$  sec. 19, T. 41 N., R. 41 E., 300 feet south of Humboldt Hot Springs, 11 miles southeast of Paradise Valley, and 40 miles northeast of Winnemucca.

RECORDS AVAILABLE.—October, 1921, to September, 1927 (fragmentary).

EXTREMES.—Maximum discharge during year, about 500 second-feet February 23 (gage height, 12.1 feet); minimum, 9 second-feet December 16, 17, 26, and 27.

1921-1927: Maximum discharge, that of February 23, 1927; minimum, 5 second-feet December 28, 1924.

REMARKS.—Records fair. Station is above all diversions in Paradise Valley. Bull Head ranch diverts water for irrigation in valley above station.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1.....	11	11	13	10	13	-----	116	234	73	17
2.....	11	11	13	10	15	-----	-----	224	71	17
3.....	11	11	12	10	21	-----	128	210	70	17
4.....	11	11	12	10	24	-----	140	192	65	}
5.....	11	11	12	10	29	-----	-----	176	61	
6.....	11	11	12	10	31	78	-----	164	}	16
7.....	11	11	12	10	25	70	-----	146		
8.....	11	11	12	11	20	67	-----	134		
9.....	11	11	12	10	14	72	-----	135	62	}
10.....	11	11	11	10	13	73	189	127		
11.....	11	11	11	11	13	58	161	119	}	15
12.....	11	11	12	12	13	54	131	107		
13.....	11	11	11	13	13	52	125	95		
14.....	11	11	10	13	13	57	106	89	52	}
15.....	11	11	10	13	13	63	91	83		
16.....	11	11	9	14	30	78	82	86	}	12
17.....	11	11	9	14	24	76	96	88		
18.....	11	11	10	13	-----	60	106	96		
19.....	11	11	10	13	-----	50	94	106	40	}
20.....	11	12	10	13	-----	47	94	119		
21.....	11	11	11	12	-----	42	101	126	}	10
22.....	11	12	10	10	-----	41	104	127		
23.....	11	12	10	10	-----	42	104	124		
24.....	11	12	10	10	-----	56	122	110	28	}
25.....	11	12	10	10	-----	68	-----	98		
26.....	11	12	9	10	-----	84	-----	86	}	10
27.....	11	12	9	10	170	96	-----	77		
28.....	11	12	10	11	170	114	230	73		
29.....	11	13	10	11	-----	108	-----	72	16	}
30.....	11	12	10	11	-----	106	250	75		
31.....	11	-----	10	11	-----	110	-----	76	-----	10

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	11	11	11.0	676
November.....	13	11	11.4	678
December.....	13	9	10.7	658
January.....	14	10	11.2	689
May.....	234	72	122	7,500
June.....	73	-----	45.9	2,730
July.....	17	-----	12.4	762
August.....	-----	-----	a 10	615
September.....	-----	-----	a 12	714

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

a Estimated.

## MARTIN CREEK NEAR PARADISE VALLEY, NEV.

LOCATION.—Water-stage recorder in SE.  $\frac{1}{4}$  NE.  $\frac{1}{4}$  sec. 11, T. 42 N., R. 40 E.  $1\frac{1}{2}$  miles above Silver State flour mill and 8 miles northeast of Paradise Valley.

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

EXTREMES.—Maximum discharge during year, about 1,000 second-feet February 21 or 22 (gage height, about 12 feet); minimum, 6 second-feet several days in July, August, and September.

1921-1927: Maximum discharge, that of February 21 or 22, 1927; minimum, less than 5 second-feet August 16-18, 1923 (gage height, 3.54 feet).

REMARKS.—Records good except those for estimated periods, which are fair. No diversions above gage.

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

Day	Oct.	Nov.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	* 8	9			93	223	93	35		
2.	* 8	9			170	202	90	34		
3.	* 8	9			145	191	94	32		
4.	* 8	9			102	171	103	30	* 6	
5.	* 8	9		59	102	166	115	30		* 6
6.	* 8	* 9			126	163	125	28		
7.	* 8	9		60	150	155	136	27	6	
8.	* 8	* 9			145	142	138	26		
9.	* 8	* 9			112	128	123	24		
10.	8	* 9			88	122	113	23		
11.	8	* 9			88	122	113	21		7
12.	9	* 9		67	76	133	112	19		
13.	9	* 9			72	147	107	19		
14.	9	9		150	76	173	105	19	* 6	
15.	10	* 9		73	90	209	98	19		* 7
16.	10	* 9		55	82	228	88	18		
17.	10	9		55	76	242	83	17		
18.	10			* 30	90	206	78	17		7
19.	10			29	91	185	72			
20.	10			33	90	155	67			
21.	10			51	98	131	64	* 14		
22.	10			102	118	121	59		6	* 7
23.	10			136	128	112	55	21		
24.	9	* 9		160	175	107	53	13		
25.	9			136	221	109	51	11	* 6	7
26.	9			126	264	119	53	9		
27.	9		131	107	280	119	48	8		
28.	9			126	264	118	49	8	6	* 7
29.	9			121	258	111	42	7		
30.	9			126	248	104	38	6	* 6	
31.	9			126		98		6		

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	10	8	8.9	547
November.....			9.0	536
April.....	280	72	138	8,210
May.....	242	98	152	9,350
June.....	138	38	85.5	5,090
July.....	35	6	18.8	1,160
August.....			6.0	369
September.....			6.7	399

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

\* Estimated.

## COTTONWOOD CREEK NEAR PARADISE VALLEY, NEV.

LOCATION.—Staff gage in SW.  $\frac{1}{4}$  sec. 3, T. 42 N., R. 39 E., at Case ranch, 5 miles northwest of Paradise Valley. Gage was moved 75 feet upstream April 7, 1927, and set at independent datum.

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

EXTREMES.—Maximum discharge during year, 75 second-feet April 26; practically no flow during periods in October, November, and September.

1925-1927: Maximum discharge, that of April 26, 1927; practically no flow for several months each year.

REMARKS.—Records fair. There are several diversions above and below 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	1	2	1	2	18	22	48	26	14	2	2
2.....	0	1	2	2	12	13	24	40	26	14	2	0
3.....	1	1	1	9	6	12	23	36	26	13	2	0
4.....	2	1	1	6	10	14	22	36	25	12	2	0
5.....	2	0	1	5	8	11	24	36	29	11	1	0
6.....	2	0	1	4	5	16	<sup>a</sup> 21	38	36	10	1	0
7.....	0	0	1	3	4	13	18	36	36	9	1	0
8.....	0	0	1	2	4	15	19	31	44	10	1	0
9.....	0	0	1	2	5	20	16	28	44	10	1	0
10.....	0	0	1	2	4	11	17	26	40	9	1	1
11.....	0	1	1	2	4	10	16	25	36	8	1	1
12.....	0	1	1	2	4	9	14	26	36	7	1	1
13.....	0	1	1	3	3	15	15	32	36	7	2	1
14.....	0	1	1	3	3	17	14	19	36	6	1	1
15.....	0	1	1	2	2	16	15	44	36	6	2	0
16.....	0	1	1	2	4	15	16	53	32	5	1	0
17.....	0	1	1	2	2	13	18	48	30	5	1	0
18.....	0	1	1	2	18	11	18	46	28	4	1	1
19.....	0	5	1	2	6	<sup>a</sup> 11	18	44	28	4	1	1
20.....	0	4	1	2	58	12	20	39	27	4	1	1
21.....	0	3	1	2	73	<sup>a</sup> 12	20	33	24	4	1	1
22.....	0	2	1	2	22	12	22	29	22	3	1	1
23.....	0	1	1	2	14	14	27	29	20	3	1	1
24.....	0	7	1	2	12	19	53	27	18	3	1	1
25.....	1	2	1	2	10	20	58	29	18	3	1	1
26.....	1	1	1	2	24	22	75	32	19	3	1	1
27.....	1	1	1	1	24	<sup>a</sup> 22	63	20	16	4	1	1
28.....	1	4	1	2	16	21	53	29	16	3	2	1
29.....	1	20	1	2	-----	<sup>a</sup> 20	53	26	15	2	2	2
30.....	1	7	1	2	-----	18	58	26	15	2	2	2
31.....	1	-----	1	2	-----	20	-----	26	-----	2	2	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	2	0	0.5	31
November.....	20	0	2.3	137
December.....	2	1	1.1	68
January.....	9	1	2.5	154
February.....	73	2	12.8	711
March.....	22	9	15.2	935
April.....	75	14	28.4	1,690
May.....	53	19	33.7	2,070
June.....	44	15	28.0	1,670
July.....	14	2	6.5	400
August.....	2	1	1.3	80
September.....	2	0	.7	42
The year.....	75	0	11.0	7,990

<sup>a</sup> Estimated.

## HUMBOLDT-LOVELOCK IRRIGATION, LIGHT &amp; POWER CO.'S FEEDER CANAL NEAR MILL CITY, NEV.

LOCATION.—Water-stage recorder in SW.  $\frac{1}{4}$  sec. 29, T. 33 N., R. 35 E., a quarter of a mile below head of canal and 2 miles north of Mill City.

RECORDS AVAILABLE.—February, 1914, to September, 1927 (fragmentary).

REMARKS.—Records fair. Flow regulated by head gates. This canal diverts from Humboldt River in NW.  $\frac{1}{4}$  sec. 29, T. 33 N., R. 35 E., for storage in Taylor-Pitt Reservoirs near Humboldt. Water is returned to river during irrigation season about 3 miles west of Humboldt, through Humboldt-Love-lock Irrigation, Light & Power Co.'s outlet canal, and carried in natural channel to head gates of canals serving Lovelock district.

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

Day	Nov.	Dec.	Jan.	Feb.	Mar.
1	6	15		26	95
2	7	15		26	113
3		14		22	135
4		14		21	165
5		14		21	199
6		14		20	216
7		14		19	163
8	10	16		17	45
9				14	1
10				16	1
11				15	1
12				16	1
13	13		10	24	1
14				24	
15	13			25	
16				22	
17				21	
18	13			24	
19	15			37	
20	16	10		38	
21	15			39	
22	14			39	
23	13			38	
24	13			40	
25	14			39	
26	14			39	
27	14		23	44	
28	14		23	78	
29	15		24		
30	16		25		
31			28		

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October			* 4	246
November	16		12.1	720
December			11.2	689
January	28		12.4	762
February	78	14	28.7	1,590
March	216	0	36.6	2,250
The year	216	0	8.6	6,260

\* Estimated.

NOTE.—Canal dry except for seepage Mar. 14 to Sept. 30.

## HUMBOLDT-LOVELOCK IRRIGATION, LIGHT &amp; POWER CO.'S OUTLET CANAL NEAR HUMBOLDT, NEV.

LOCATION.—Staff gage and weir in SE.  $\frac{1}{4}$  sec. 30, T. 32 N., R. 33 E., at outlet of lower Taylor-Pitt Reservoir,  $2\frac{1}{2}$  miles west of Humboldt.

RECORDS AVAILABLE.—February, 1914, to September, 1920; October, 1921, to September, 1927.

REMARKS.—Records fair. Flow regulated by reservoir outlet gates a few hundred feet upstream. This canal conducts stored water released from Taylor-Pitt Reservoirs to Humboldt River in SW.  $\frac{1}{4}$  sec. 31, T. 32 N., R. 33 E., for irrigation in Lovelock Valley several miles downstream.

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

Day	Apr.	May	June	July	Aug.
1		32	25		10
2			34		17
3		34	20		20
4		34	15		20
5		34	13		20
6		41	1		25
7		52	1		25
8		55	1		21
9		55	3		21
10		55	6		12
11		55	4	1	1
12		61			1
13		53			5
14		35			6
15		19			2
16		19			
17		19			
18		11			
19		1			
20		6			
21		12	1		1
22		12		4	
23		12		7	
24		25		7	
25		22		7	
26	8	30		7	
27	17	36		4	4
28	16	21		8	4
29	16	24		10	
30	23	24		10	1
31		22		10	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April 26-30	23	8	16.0	159
May	55	1	30.5	1,880
June	25	1	4.4	262
July	10	1	3.0	185
August	25	1	7.4	452
The period				2,940

NOTE.—Canal dry except for seepage (1 second-foot or less) Oct. 1 to Apr. 25 and Sept. 1-30.

## PYRAMID AND WINNEMUCCA LAKES BASIN

## LAKE TAHOE AT TAHOE, CALIF.

LOCATION.—Staff gage in SE.  $\frac{1}{4}$  sec. 6, T. 15 N., R. 17 E., near outlet of lake at Tahoe. Zero of gage is 6,220 feet above sea level. Mean low-water elevation of lake is 6,226.0 feet.

DRAINAGE AREA.—519 square miles (including water surface of lake, which is 193 square miles).

RECORDS AVAILABLE.—1900, to September, 1927.

EXTREMES.—Maximum stage during year, 6.85 feet July 18; minimum, 3.15 feet November 9–11.

1900–1927: Maximum stage, 11.26 feet July 14, 15, 17, and 18, 1907; minimum, 2.84 feet October 26, 1924.

REMARKS.—Records furnished by United States Bureau of Reclamation.

*Daily gage-height, in feet, 1926–27*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.48	3.20	3.67	3.57	3.73	4.41	4.76	5.28	6.02	6.76	6.75	6.14
2	3.50	3.20	3.67	3.57	3.74	4.42	4.83	5.30	6.04	6.76	6.73	6.13
3	3.48	3.19	3.67	3.58	3.76	4.41	4.98	5.32	6.07	6.76	6.72	6.11
4	3.47	3.18	3.68	3.59	3.84	4.41	4.96	5.35	6.09	6.76	6.71	6.10
5	3.46	3.17	3.67	3.59	3.85	4.42	4.96	5.38	6.11	6.76	6.70	6.09
6	3.46	3.17	3.67	3.60	3.88	4.42	4.98	5.39	6.14	6.76	6.69	6.06
7	3.41	3.17	3.69	3.60	3.90	4.43	4.99	5.41	6.16	6.77	6.68	6.02
8	3.42	3.16	3.68	3.64	3.90	4.46	4.99	5.43	6.20	6.80	6.66	5.99
9	3.38	3.15	3.69	3.64	3.90	4.46	5.02	5.45	6.25	6.80	6.64	5.96
10	3.38	3.15	3.68	3.64	3.89	4.46	5.01	5.47	6.28	6.81	6.63	5.94
11	3.36	3.15	3.64	3.67	3.88	4.46	5.00	5.48	6.31	6.82	6.61	5.92
12	3.36	3.18	3.63	3.68	3.88	4.47	5.00	5.50	6.34	6.82	6.58	5.90
13	3.36	3.25	3.63	3.68	3.89	4.48	5.01	5.53	6.40	6.83	6.55	5.88
14	3.35	3.26	3.61	3.68	3.90	4.58	5.01	5.56	6.43	6.84	6.52	5.86
15	3.35	3.25	3.60	3.67	3.95	4.57	5.02	5.59	6.46	6.84	6.50	5.84
16	3.34	3.23	3.60	3.68	4.00	4.58	5.04	5.64	6.50	6.84	6.49	5.82
17	3.34	3.22	3.60	3.68	4.02	4.59	5.04	5.68	6.53	6.84	6.47	5.80
18	3.33	3.20	3.60	3.68	4.16	4.57	5.04	5.72	6.55	6.85	6.46	5.79
19	3.34	3.22	3.60	3.67	4.16	4.60	5.04	5.75	6.58	6.84	6.44	5.78
20	3.31	3.24	3.60	3.68	4.21	4.58	5.05	5.76	6.60	6.83	6.43	5.77
21	3.31	3.24	3.60	3.70	4.31	4.56	5.06	5.79	6.62	6.83	6.41	5.76
22	3.30	3.30	3.61	3.70	4.34	4.56	5.07	5.80	6.66	6.83	6.40	5.74
23	3.30	3.29	3.61	3.69	4.35	4.57	5.08	5.81	6.69	6.83	6.37	5.72
24	3.29	3.40	3.61	3.69	4.36	4.57	5.10	5.83	6.70	6.82	6.34	5.70
25	3.29	3.41	3.61	3.69	4.36	4.58	5.12	5.85	6.71	6.82	6.30	5.68
26	3.29	3.50	3.61	3.68	4.37	4.59	5.14	5.87	6.74	6.81	6.28	5.66
27	3.29	3.55	3.61	3.68	4.40	4.59	5.17	5.88	6.76	6.79	6.26	5.64
28	3.29	3.61	3.60	3.71	4.40	4.60	5.20	5.98	6.76	6.79	6.24	5.62
29	3.29	3.70	3.58	3.71	-----	4.62	5.23	6.00	6.74	6.78	6.21	5.59
30	3.25	3.67	3.58	3.72	-----	4.64	5.27	6.00	6.75	6.78	6.18	5.56
31	3.22	-----	3.58	3.72	-----	4.67	-----	6.01	-----	6.77	6.16	-----

## TRUCKEE RIVER AT TAHOE, CALIF.

LOCATION.—Staff gage in NW.  $\frac{1}{4}$  sec. 7, T. 15 N., R. 17 E., at Tahoe, a short distance below dam at outlet of Lake Tahoe.

DRAINAGE AREA.—519 square miles.

RECORDS AVAILABLE.—July, 1895, to February, 1896; June, 1900, to September, 1927.

EXTREMES.—1895–1896; 1900–1927: Maximum mean daily discharge, 1,340 second-feet July 13–20, 1907 (gage height, 4.3 feet); no flow during parts of 1900, 1901, 1914, and 1918–1927.

REMARKS.—Flow regulated by operation of gates in dam at Lake Tahoe. Daily-discharge record furnished by United States Bureau of Reclamation.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	0	0	23	38	0	0	0	0	0	372	405
2	14	0	0	22	39	0	0	0	0	0	334	405
3	13	0	0	24	40	0	0	0	0	0	334	405
4	12	0	0	0	52	0	0	0	0	0	334	405
5	12	0	0	0	52	0	0	0	0	0	346	405
6	11	0	0	0	54	0	0	0	0	0	346	405
7	4	0	33	0	55	0	0	0	0	0	387	405
8	7	0	32	0	55	0	0	0	0	0	387	405
9	3	0	34	30	55	0	0	0	0	0	387	408
10	3	0	33	30	54	0	0	0	0	0	387	408
11	3	0	28	33	53	0	0	0	0	0	411	411
12	3	0	28	33	53	0	0	0	0	0	411	411
13	3	0	28	33	54	0	0	0	0	31	411	411
14	2	0	25	34	55	0	0	0	0	31	411	411
15	2	0	25	33	65	0	0	0	159	19	411	411
16	2	0	25	34	70	0	0	0	0	32	411	411
17	2	0	25	34	73	0	0	0	0	32	411	411
18	2	0	25	34	95	0	0	0	0	32	399	411
19	2	0	25	33	0	0	0	0	0	36	399	411
20	1	0	25	34	0	0	0	0	0	66	399	411
21	1	0	26	36	0	0	0	0	0	145	381	411
22	0	0	27	35	0	0	0	0	0	265	381	411
23	0	0	27	34	0	0	0	0	0	394	366	411
24	0	0	27	34	0	0	0	0	0	394	366	429
25	0	0	26	33	0	0	0	0	0	394	402	429
26	0	0	26	32	0	0	0	0	0	295	402	429
27	0	0	26	32	0	0	0	0	0	250	402	429
28	0	0	25	34	0	0	0	0	0	250	402	429
29	0	0	24	35	-----	0	0	0	0	304	402	429
30	0	0	23	37	-----	0	0	0	0	357	402	429
31	0	-----	22	37	-----	0	-----	0	-----	357	405	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	14	0	3.7	228
December	34	0	21.6	1,330
January	37	0	27.2	1,670
February	95	0	36.1	2,000
June	-----	0	5.3	315
July	394	0	119	7,320
August	411	334	387	23,800
September	429	405	413	24,600
The year	429	0	84.6	61,300

\* Water released for 4 hours for measurement.

## TRUCKEE RIVER AT ICELAND, CALIF.

LOCATION.—Water-stage recorder in sec. 36, T. 18 N., R. 17 E., above dam of National Ice Co., 400 feet northeast of Southern Pacific Railroad station at Iceland.

DRAINAGE AREA.—937 square miles.

RECORDS AVAILABLE.—August, 1912, to September, 1927. September, 1899, to August, 1912, at Nevada-California State line, 3 miles downstream.

EXTREMES.—1899-1927: Maximum mean daily discharge, 15,300 second-feet March 18, 1907; minimum, 40 second-feet January 19 and 20, 1925.

REMARKS.—Flow regulated by operation of gates in dam at Lake Tahoe. Daily-discharge record furnished by United States Bureau of Reclamation.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	78	61	576	168	276	1,100	1,360	2,690	1,510	983	537	497
2.....	80	61	630	202	297	1,040	1,800	2,450	1,490	983	517	484
3.....	80	61	596	839	327	973	1,720	2,610	1,630	933	517	484
4.....	77	59	458	680	284	938	1,410	2,580	1,850	837	517	497
5.....	77	56	399	480	310	861	1,300	2,730	2,100	781	517	484
6.....	75	56	332	452	310	853	1,320	2,820	2,440	756	504	472
7.....	75	56	327	351	314	895	1,340	2,460	2,620	721	524	484
8.....	73	56	306	327	276	946	1,270	2,030	2,620	665	524	484
9.....	70	58	293	341	288	878	1,150	1,900	2,220	618	524	491
10.....	89	58	248	327	284	836	933	1,930	2,320	580	524	491
11.....	130	61	215	399	264	609	903	1,960	2,570	588	530	497
12.....	87	88	226	341	256	609	837	2,140	2,620	543	530	504
13.....	69	94	186	318	264	820	846	2,450	2,760	550	524	504
14.....	65	84	162	284	272	1,350	903	2,970	2,620	603	517	497
15.....	65	84	179	306	268	1,010	1,040	3,300	2,730	603	524	491
16.....	63	86	192	314	248	836	1,110	3,430	2,650	625	524	484
17.....	63	92	189	256	276	796	1,000	3,470	2,600	504	524	497
18.....	60	94	179	264	511	764	1,060	3,040	2,350	478	517	491
19.....	62	124	168	314	666	609	1,300	2,690	2,050	449	517	491
20.....	65	237	156	306	756	576	1,430	2,330	1,930	431	517	484
21.....	63	162	151	297	1,850	569	1,590	2,050	1,800	466	510	484
22.....	57	244	131	252	2,160	756	2,030	1,680	1,800	537	504	478
23.....	59	499	156	226	1,660	878	2,230	1,540	1,740	680	478	478
24.....	63	964	162	226	1,380	1,050	2,440	1,730	1,830	713	466	497
25.....	62	609	189	226	1,300	1,350	2,830	2,020	1,790	704	491	497
26.....	62	430	195	226	1,460	1,490	3,400	2,240	1,590	625	504	497
27.....	60	341	182	237	1,320	1,490	3,700	2,180	1,300	530	497	497
28.....	62	360	226	252	1,200	1,290	3,180	1,940	1,140	510	484	497
29.....	60	623	248	226	-----	1,240	3,110	1,620	1,020	537	484	497
30.....	56	772	208	222	-----	1,200	3,110	1,430	1,020	573	484	491
31.....	57	-----	205	252	-----	1,200	-----	1,330	-----	565	484	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	130	56	69.8	4,290
November.....	964	56	221	13,200
December.....	630	131	260	16,000
January.....	839	168	320	19,700
February.....	2,160	248	681	37,800
March.....	1,490	569	962	59,200
April.....	3,700	837	1,720	102,000
May.....	3,470	1,330	2,310	142,000
June.....	2,760	1,020	2,020	120,000
July.....	983	431	635	39,000
August.....	537	466	510	31,400
September.....	504	472	491	29,200
The year.....	3,700	56	849	614,000



## ABERT LAKE BASIN

CHEWAUCAN RIVER ABOVE CONN DITCH, NEAR PAISLEY, OREG.

LOCATION.—Water-stage recorder in SW.  $\frac{1}{4}$  sec. 27, T. 33 S., R. 18 E., 200 feet below power plant of R. R. Severin, 500 feet above diversion dam of Conn ditch, a quarter of a mile below mouth of Mill Creek, and  $2\frac{1}{2}$  miles above Paisley.

DRAINAGE AREA.—266 square miles.

RECORDS AVAILABLE.—April to September, 1912; May, 1924, to September, 1927. Records at stations giving practically same yearly run-off are available January, 1905, to December, 1907, and January, 1909, to April, 1912.

EXTREMES.—Maximum discharge during year, 1,450 second-feet May 17 (gage height, 3.69 feet); minimum, 6 second-feet December 14 (gage height, 0.18 foot).

1924-1927: Maximum discharge, that of May 17, 1927; minimum, 4.2 second-feet July 29, 1924 (gage height, 0.17 foot).

REMARKS.—Records fair prior to April 6 and excellent thereafter. About 160 acres are irrigated above station. Slight fluctuations are caused by operations at power plant above gage. Records furnished by State engineer of Oregon.

*Daily discharge, in second-feet, 1926-27*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	21	25	304	° 110	° 60	223	232	828	393	168	49	41
2.....	21	21	347	° 130	72	284	364	665	377	158	49	40
3.....	24	21	405	148	97	205	382	620	405	144	46	40
4.....	22	20	170	143	92	197	294	615	446	146	45	39
5.....	22	20	124	219	70	149	284	630	490	124	44	39
6.....	21	21	116	156	64	170	264	772	565	112	44	39
7.....	21	20	90	74	61	174	240	665	630	107	43	40
8.....	21	21	88	68	51	185	197	590	690	106	43	41
9.....	22	24	° 30	85	42	149	168	531	665	101	43	43
10.....	25	25	° 65	80	54	133	171	565	620	97	43	43
11.....	26	24	° 70	78	54	130	226	565	590	95	43	45
12.....	25	26	63	76	° 53	210	282	610	570	91	41	50
13.....	24	27	59	72	° 52	388	250	745	560	86	41	48
14.....	24	24	° 15	70	° 50	310	210	910	531	82	41	45
15.....	22	25	° 35	67	° 55	189	210	1,110	522	78	43	44
16.....	24	36	° 60	65	° 70	162	190	1,290	482	74	44	44
17.....	° 22	34	° 70	43	° 55	185	190	1,350	459	66	43	43
18.....	21	28	° 55	63	46	146	216	1,200	423	66	41	43
19.....	20	46	45	56	42	119	206	1,080	397	67	40	43
20.....	19	72	46	49	88	136	206	855	357	64	39	41
21.....	20	68	54	° 45	388	170	230	717	337	61	39	40
22.....	19	49	54		241	193	286	630	313	66	39	39
23.....	° 20	56	48		193	210	405	565	294	66	38	39
24.....	° 20	102	43		119	245	508	555	286	58	38	40
25.....	21	90	° 42		236	245	717	575	257	58	38	40
26.....	° 23	59	° 41	° 45	320	232	855	640	240	55	38	40
27.....		46	° 40		232	236	965	625	254	52	38	40
28.....		43	° 42		166	219	938	540	206	56	38	54
29.....		105	° 48		-----	219	938	486	190	46	41	52
30.....		472	° 40		-----	227	882	436	179	50	44	45
31.....		-----	° 30		-----	241	-----	414	-----	46	43	-----

° Estimated.

*Monthly discharge of Chewaucan River above Conn ditch, near Paisley, Oreg., 1926-27*

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	26	19	22.1	1,369
November.....	472	20	55.0	3,270
December.....	405	15	90.7	5,580
January.....	219	-----	75.7	4,650
February.....	388	42	112	6,220
March.....	388	119	203	12,500
April.....	965	168	384	22,800
May.....	1,350	414	722	44,400
June.....	690	179	424	25,200
July.....	168	49	84.8	5,210
August.....	49	38	41.9	2,580
September.....	52	39	42.7	2,540
The year.....	1,350	-----	188	136,000

### SILVER LAKE BASIN

#### SILVER CREEK NEAR SILVER LAKE, OREG.

**LOCATION.**—Staff gage in SW.  $\frac{1}{4}$  sec. 28, T. 28 S., R. 14 E.,  $1\frac{1}{2}$  miles below diversion dam of Silver Lake Irrigation District,  $1\frac{1}{2}$  miles southwest of Silver Lake post office, and 3 miles above mouth of Bridge Creek. During part of each year record is obtained at staff gage in spillway flume at diversion dam or at weir below outlet tunnel of dam, in NE.  $\frac{1}{4}$  sec. 5, T. 29 S., R. 14 E.

**DRAINAGE AREA.**—221 square miles.

**RECORDS AVAILABLE.**—December, 1904, to March, 1907; January, 1909, to September, 1927.

**EXTREMES.**—Maximum discharge during year, 223 second-feet May 16 (river gage height, 3.20 feet); minimum (estimated), 1 second-foot during October.

1904-1907, 1909-1927: Maximum discharge, 910 second-feet November 23, 1909 (river gage height, 6.40 feet); minimum, 0.3 second-foot on days in August and September, 1919 and 1926.

**REMARKS.**—Records good except those for estimated periods, which are fair. Silver Lake Irrigation District Canal diverts water above gages during irrigation season. Diversion dam  $1\frac{1}{2}$  miles above gage impounds about 800 acre-feet. Water is also stored in Thompson Valley Reservoir. Records furnished by State engineer of Oregon.

#### *Observed stage and contents of Thompson Valley Reservoir, 1927*

Date	Gage height	Contents	Date	Gage height	Contents
	<i>Feet</i>	<i>Acre-feet</i>		<i>Feet</i>	<i>Acre-feet</i>
Apr. 6.....	5,077.7	7,310	June 10.....	5,084.0	17,420
Apr. 29.....	5,084.0	17,420	June 16.....	5,083.7	16,830
May 7.....	5,084.5	18,420	June 25.....	5,082.9	15,330
May 12.....	5,084.5	18,420	Sept. 30.....	5,078	7,910

## SILVER LAKE BASIN

87

*Daily and monthly discharge, in second-feet, of Silver Creek near Silver Lake, Oreg., 1926-27*

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....		a 10	a 33	54	66	17	-----	4.7
2.....		11	a 36	60	60	17	6.8	-----
3.....		a 12	39	60	60	19	-----	-----
4.....		a 13	54	66	54	19	-----	-----
5.....		15	} a 45	73	48	19	6.8	4.0
6.....		a 13		73	48	19	-----	-----
7.....		11		73	48	19	6.8	-----
8.....		a 16		80	48	19	-----	4.0
9.....		20		164	48	19	-----	-----
10.....		a 17	30	153	48	19	12.0	-----
11.....		a 14	30	153	48	19	-----	-----
12.....		11	a 30	153	45	15	-----	-----
13.....		a 20	a 30	175	39	15	12.0	4.0
14.....		30	30	216	39	15	-----	-----
15.....		36	a 33	a 220	38	15	-----	-----
16.....		25	36	223	38	15	14.0	4.0
17.....		25	37	216	35	15	-----	-----
18.....		a 25	a 34	204	31	15	-----	-----
19.....		a 25	30	198	23	15	14.0	-----
20.....		25	28	175	23	15	-----	4.0
21.....		a 26	a 30	a 170	25	12	-----	-----
22.....		28	a 32	164	25	12	14.0	-----
23.....		a 29	a 34	153	25	12	-----	-----
24.....		30	36	132	25	12	14.0	-----
25.....		a 30	39	a 130	22	12	-----	4.1
26.....		30	42	127	22	12	4.7	-----
27.....		30	48	118	22	10	-----	-----
28.....	7.6	28	54	108	22	6.8	4.7	4.1
29.....		a 30	60	95	22	6.8	-----	-----
30.....		a 30	54	95	22	6.8	-----	-----
31.....		30	-----	95	-----	6.8	4.7	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October.....	-----	-----	a 1	61
November.....	-----	-----	a 3	178
December.....	-----	-----	a 4	246
January.....	-----	-----	a 6	369
February.....	-----	-----	a 10	555
March.....	36	10	22.4	1,380
April.....	60	28	38.5	2,290
May.....	223	54	135	8,360
June.....	66	22	37.3	2,220
July.....	19	6.8	14.5	892
August.....	-----	-----	9.5	584
September.....	-----	-----	4.1	244
The year.....	223	-----	27.9	17,300

• Estimated.

## WEST FORK OF SILVER CREEK NEAR SILVER LAKE, ORE.

LOCATION.—Water-stage recorder in NW.  $\frac{1}{4}$  sec. 8, T. 29 S., R. 14 E., 1 mile above mouth of West Fork and  $4\frac{1}{2}$  miles southwest of Silver Lake post office.

RECORDS AVAILABLE.—Irrigation seasons, 1919 to 1923, and March, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 65 second-feet May 16 (gage height, 1.68 feet); minimum, 1.9 second-feet August 31 (gage height, 0.20 foot).

1919-1923, 1925-1927: Maximum discharge, 138 second-feet April 11, 1921 (gage height on old gage, 2.24 feet); stream bed nearly dry at times of extremely cold weather.

REMARKS.—Records good except those for estimated periods, which are fair. No diversions. Records furnished by State engineer of Oregon.

*Daily and monthly discharge, in second-feet, 1927*

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1	° 12	19	° 41	24	9	° 5.0	° 2.0
2	13	22	° 38	23	9		
3	14	20	° 35	22	9		
4	15	28	32	22	10		
5	15	31	30	22	10		
6	16	31	36	21	9	4.7	2.3
7	21	32	29	21	9	4.7	
8	18	17	27	20	9	4.5	
9	14	15	26	20	9	4.3	
10	11	15	26	18	8	4.2	
11	18	16	26	19	8	4.2	3.1
12	36	26	27	19	7	4.2	3.8
13	28	35	32	19	7	4.5	4.0
14	18	33	41	19		4.5	3.8
15	12	21	50	19		4.3	3.5
16	12	18	63	17		4.3	3.6
17	12	17	63	17		4.2	3.3
18	12	18	56	17		3.8	3.1
19	10	17	53	15		3.8	3.0
20	11	17	52	14		3.6	3.0
21	21	18	40	13	° 6	3.6	3.0
22	22	21	27	12		3.6	3.0
23	23	26	27	12		3.5	3.1
24	26	32	27	12		3.5	3.1
25	24	41	26	11		3.5	3.1
26	24	56	26	10		3.3	3.0
27	24	56	26	12		3.1	2.9
28	22	° 52	26	10		2.9	3.0
29	21	° 48	25	9		2.5	3.1
30	20	° 44	24	9		2.2	° 3.2
31	19	-----	24	-----		1.9	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
March	36	10	18.2	1,120
April	56	15	28.4	1,690
May	63	24	34.9	2,150
June	24	9	16.6	988
July	10	-----	7.1	437
August	-----	1.9	3.95	243
September	4	-----	2.87	171
The period	-----	-----	-----	6,800

° Estimated.

## SILVER LAKE BASIN

89

## SILVER LAKE IRRIGATION DISTRICT CANAL NEAR SILVER LAKE, OREG.

LOCATION.—Staff gage in NE.  $\frac{1}{4}$  sec. 5, T. 29 S., R. 14 E., at diversion dam of Silver Lake Irrigation District,  $2\frac{1}{2}$  miles southwest of Silver Lake post office.

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

EXTREMES.—Maximum discharge during year, 40 second-feet May 14 (gage height, 2.04 feet); canal dry most of year.

1923-1927: Maximum discharge, 60 second-feet June 26-29, 1923; canal dry most of each year.

REMARKS.—Records fair. This canal diverts water from Silver Creek for irrigation of about 6,500 acres east of Silver Lake post office. Records furnished by State engineer of Oregon.

*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	0	0	0	1	6	29	26	* 14	2
2	0	0	0	0	0	0	0	0	29	24	* 13	0
3	0	0	0	0	0	0	1	10	29	24	* 12	0
4	0	0	0	0	0	0	0	16	29	26	* 12	0
5	0	0	0	0	0	0	0	13	29	26	12	0
6	0	0	0	0	0	0	1	15	29	26	* 12	0
7	0	0	0	0	0	0	* 1	16	29	28	12	0
8	0	0	0	0	0	0	* 1	16	29	29	* 12	0
9	0	0	0	0	0	0	1	16	29	29	* 12	0
10	0	0	0	0	0	0	1	16	29	29	11	0
11	0	0	0	0	0	0	1	16	29	29	* 10	0
12	0	0	0	0	0	0	* 1	19	28	24	* 10	0
13	0	0	0	0	0	0	* 1	20	28	23	10	0
14	0	0	0	0	0	0	3	20	28	* 23	* 10	0
15	0	0	0	0	0	0	* 4	22	29	23	* 10	0
16	0	0	0	0	0	0	4	22	29	* 23	10	0
17	0	0	0	0	0	0	* 4	22	29	* 23	* 10	0
18	0	0	0	0	0	0	5	24	30	23	* 10	0
19	0	0	0	0	0	0	6	26	30	* 23	9	0
20	0	0	0	0	0	0	* 7	* 26	32	24	* 9	0
21	0	0	0	0	0	0	9	24	32	26	* 9	0
22	0	0	0	0	0	0	* 10	23	34	* 26	7	0
23	0	0	0	0	0	0	11	23	30	* 26	* 5	0
24	0	0	0	0	0	0	15	24	30	26	5	0
25	0	0	0	0	0	0	16	* 26	29	* 26	* 5	0
26	0	0	0	0	0	0	17	28	29	22	5	0
27	0	0	0	0	0	1	18	30	29	* 20	* 5	0
28	0	0	0	0	0	1	18	32	29	* 20	5	0
29	0	0	0	0	-----	1	18	32	28	* 20	* 5	0
30	0	0	0	0	-----	1	18	32	26	* 20	* 5	0
31	0	-----	0	0	-----	1	-----	30	-----	16	* 5	-----

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
March	1	0	0.16	10
April	18	0	6.4	381
May	32	0	20.8	1,280
June	34	26	29.2	1,740
July	29	16	24.3	1,490
August	14	5	9.1	560
September	2	0	.07	4
The period	34	0	-----	5,460

\* Estimated.

## MALHEUR AND HARNEY LAKES BASIN

## SILVIES RIVER NEAR BURNS, OREG.

LOCATION.—Water-stage recorder in or near SE.  $\frac{1}{4}$  sec. 25, T. 21 S., R. 29 E. 1 mile below dam site for proposed lower Silvies Reservoir and 15 miles northwest of Burns. Staff gage in sec. 7, T. 22 S., R. 10 E., at Parker ranch, used during winter.

DRAINAGE AREA.—940 square miles.

RECORDS AVAILABLE.—May, 1903, to July, 1906; December, 1908, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,520 second-feet April 29 (gage height, 12.65 feet); minimum, 6 second-feet October 7 (gage height, 1.15 feet). 1903–1906, 1908–1927: Maximum discharge, 4,730 second-feet April 15, 1904 (gage height, 17.12 feet, original datum); minimum 0.6 second-foot September 2, 1924.

REMARKS.—Records fair. A large area on headwaters of Silvies River is irrigated with flood water. Flow at staff gage occasionally affected by operation of Sylvester Dam, half a mile upstream. Records furnished by State engineer.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		7	48	49		155	626	1,450	245	32	17	9
2		7	52	* 52		182	650	1,330	218	75	17	8
3		7	68	54		236	706	1,200	191	68	17	8
4		* 6	7	78		265	678	1,100	182	65	16	8
5			7	82		255	614	1,000	182	59	16	8
6			8	* 75	* 62	245	578	960	175	56	15	9
7		6	8	72	* 62	236	554	888	160	53	14	9
8			8	68		245	554	790	191	51	14	9
9			8	68	* 62	236	542	720	335	47	14	10
10			8	62		218	519	664	475	47	14	10
11			8	62	* 64	200	497	626	566	45	14	11
12			9	62	* 66	218	464	602	566	42	14	12
13			9	62	66	335	442	578	445	39	14	12
14			9	59	69	398	442	542	365	36	13	13
15		* 6	10	56	62	78	365	486	519	308	13	13
16			10	56	* 62	82	325	554	519	255	32	12
17			10	59	62	82	285	590	497	227	29	12
18			11	59	* 62	86	265	614	475	218	27	12
19			11	62	* 62	108	245	626	442	191	25	12
20			14	* 61	62	120	236	590	453	173	24	12
21			19	* 59		146	245	554	442	160	22	11
22			20	58		146	345	542	420	146	22	11
23			21	* 55		150	387	590	431	128	21	10
24			24	* 52		137	442	734	420	112	20	10
25		7	28	49		146	442	980	398	104	20	10
26			29		* 45	150	453	1,250	355	100	20	10
27		* 7	29			150	453	1,450	315	95	19	10
28			29			150	464	1,500	295	92	19	10
29			29	* 45			508	1,520	275	92	18	9
30			38				554	1,700	265	39	17	9
31		7					614		255		17	9

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	7	6	6.3	388
November	38	7	14.7	875
December	82		58.5	3,600
January	69		55.4	3,410
February	150		94.3	5,240
March	614	155	324	19,900
April	1,520	442	732	43,600
May	1,450	255	620	38,100
June	566	89	226	13,400
July	82	17	37.1	2,280
August	17	9	12.6	775
September	14	8	11.5	684
The year	1,520	6	183	132,000

\* Estimated.

## ALVORD LAKE BASIN

## TROUT CREEK NEAR DENIO, OREG.

**LOCATION.**—Water-stage recorder in SW.  $\frac{1}{4}$  sec. 26, T. 39 S., R. 36 E., 800 feet above bridge at mouth of canyon, 5 miles east of Trout Creek ranch, and 14 miles northeast of Denio.

**RECORDS AVAILABLE.**—March, 1911, to March, 1912; April, 1922, to November, 1923; April, 1925, to September, 1927 (fragmentary).

**EXTREMES.**—Maximum discharge during year, 235 second-feet May 18 (gage height, 3.55 feet); minimum, 7 second-feet August 23 and 24.

1911-1912, 1922-1923, 1925-1927: Maximum discharge, that of May 18, 1927; minimum, 0.3 second-foot July 18, 1922 (gage height, 0.72 foot).

**REMARKS.**—Records fair. A little water is diverted for irrigating small ranch fields above station. Large area irrigated below mouth of canyon. Records furnished by State engineer of Oregon.

*Daily and monthly discharge, in second-feet, 1927*

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1.....		116	73	24	9	10	16.....		106	74	18	17	17
2.....		102	71	22		11	17.....		134	71	16	16	17
3.....		93	71	21		11	18.....		207	66	15	15	16
4.....		82	74	20		11	19.....		163	61	15	10	15
5.....		77	83	18		12	20.....		150	59	14	9	15
6.....		74	86	14	12	12	21.....		126	57	14	8	15
7.....		70	92	18		12	22.....		103	54	14	8	14
8.....		60	103	18		13	23.....			53	13	7	14
9.....		50	93	22		14	24.....			51	12	7	14
10.....		45	84	24		19	25.....	50		47	11	11	14
11.....		47	93	25	15	19	26.....	68	93	40	11	11	14
12.....		50	91	24	16	20	27.....	101		34	10	11	
13.....		58	86	24	18	20	28.....	116		31	10	11	
14.....		66	82	25	18	19	29.....	124		28	10	10	
15.....		84	75	23	18	19	30.....	121	78	25	10	11	
							31.....		76		10	11	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April 25-30.....	124	50	96.7	1,150
May.....	207	45	92.5	5,690
June.....	103	25	66.9	3,980
July.....	25	10	16.9	1,040
August.....	18	7	12.1	744
September.....	20	10	14.8	881
The period.....				13,500

## MISCELLANEOUS DISCHARGE MEASUREMENTS

Discharge measurements of streams in the Great Basin at points other than regular gaging stations, made during the year ending September 30, 1927, are listed in the following table:

*Miscellaneous discharge measurements in the Great Basin during the year ending September 30, 1927*

## Bear River Basin

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				<i>Feet</i>	<i>Sec.-ft.</i>
Sept. 21	Bear River .....	Great Salt Lake .....	Sec. 6, T. 12 S., R. 46 E., at Utah Power & Light Co.'s gaging station at Pescadero Siding, 6 miles northwest of Montpelier, Idaho.	6.40	266
21	do .....	do .....	NE. $\frac{1}{4}$ sec. 30, T. 9 S., R. 42 E., at Utah Power & Light Co.'s gaging station, 3 miles south of Soda Springs, Idaho.	.87	366
Oct. 2	do .....	do .....	Sec. 26, T. 13 S., R. 40 E., immediately below junction of Oneida trace with river, near Frank Creek, Idaho.	4.29	1,420
Sept. 22	do .....	do .....	do .....	2.34	369
20	Rainbow inlet canal .....	Bear Lake .....	Sec. 10, T. 14 S., R. 44 E., at Utah Power & Light Co.'s gaging station, 2 miles west of Dingle, Idaho.		48.3
20	Bear Lake outlet canal .....	do .....	Sec. 8, T. 14 S., R. 44 E., at Utah Power & Light Co.'s gaging station, 1,000 feet downstream from dike, near Paris, Idaho.	12.05	74.7
23	West Cache Canal .....	Bear River .....	SW. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 17, T. 16 S., R. 39 E., at Utah Power & Light Co.'s gaging station, 100 feet upstream from Weston-Fairview road, 2 miles east of Weston, Idaho.	10.00	88.9
Apr. 6	Little Bear River .....	do .....	E. $\frac{1}{4}$ sec. 29, T. 10 N., R. 1 E., at County bridge, 1 mile northwest of Paradise, Utah.		170
May 5	do .....	do .....	do .....		361
16	do .....	do .....	do .....		452
31	do .....	do .....	do .....		219
June 27	do .....	do .....	do .....		47.5
May 5	Avon-Paradise Canal .....	East Fork of Little Bear River .....	On line between sec. 10 and sec. 11, T. 9 N., R. 1 E., at highway bridge at Avon, Utah.		52.0
16	do .....	do .....	do .....		59.2
Sept. 26	Logan River .....	Little Bear River .....	NW. $\frac{1}{4}$ sec. 27, T. 12 N., R. 2 E., at Utah Power & Light Co.'s gaging station, upstream from Logan City reservoir, 6 miles east of Logan, Utah.	1.88	152
Oct. 4	Logan, Hyde Park & Smithfield Canal .....	Logan River .....	NW. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 31, T. 12 N., R. 2 E., at former gaging station, half a mile downstream from head of canal, $3\frac{1}{2}$ miles east of Logan, Utah.	.85	22.6
Feb. 22	do .....	do .....	do .....	.54	5.9
Sept. 26	do .....	do .....	NE. $\frac{1}{4}$ sec. 31, T. 12 N., R. 2 E., at head of canal, 4 miles east of Logan, Utah.		38.3



*Miscellaneous discharge measurements in the Great Basin during the year ending September 30, 1927—Continued*

## Weber River Basin

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	Sec.-ft.
Jan. 16	Weber River.....	Great Salt Lake.....	NE. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 8, T. 2 N., R. 5 E., 100 feet downstream from Coal Creek, half a mile northwest of Coalville, Utah.	-----	130
Aug. 31	.....do.....	.....do.....	NE. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 8, T. 2 N., R. 5 E., 300 feet upstream from Chalk Creek, half a mile northwest of Coalville, Utah.	-----	80.1
Jan. 19	.....do.....	.....do.....	NE. $\frac{1}{4}$ sec. 25, T. 3 N., R. 4 E., 500 feet upstream from Echo Creek, half a mile southeast of Echo, Utah.	-----	95.1
19	Chalk Creek.....	Weber River.....	NE. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 8, T. 2 N., R. 5 E., 300 feet upstream from highway bridge at Coalville, Utah.	-----	15.7
Mar. 16	Echo Creek.....	.....do.....	NE. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 25, T. 3 N., R. 4 E., 300 feet upstream from Weber River, half a mile southeast of Echo, Utah.	-----	22.8

## Antelope Valley Basin

Feb. 22	Littlerock Creek.....	Antelope Valley drainage basin.	Above bridge near Littlerock, Calif.	-----	87
Dec. 11	Punch Bowl Creek....	Rock Creek.....	At mouth near Valyermo, Calif.	-----	9.2
Jan. 14	.....do.....	.....do.....	.....do.....	-----	.7
Feb. 22	.....do.....	.....do.....	.....do.....	-----	8.6
Mar. 12	.....do.....	.....do.....	.....do.....	-----	2.2
23	.....do.....	.....do.....	.....do.....	-----	1.5
Apr. 21	.....do.....	.....do.....	.....do.....	-----	1.4
May 29	.....do.....	.....do.....	.....do.....	-----	.5

## Humboldt-Carson Sink Basin

May 18	Humboldt River.....	Humboldt Sink.....	NW. $\frac{1}{4}$ sec. 14, T. 36 N., R. 41 E., at former gaging station at Comus, Nev.	4.34	361
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# INDEX

A		Page			Page
Abert Lake Basin, Oreg., gaging-station record in.....	85-86		Circleville, Utah, Sevier River near.....		37
Accuracy of data and results, degrees of.....	4-5		Coalville, Utah, Chalk Creek at.....		29
Acre-foot, definition of.....	2		Weber River near.....		24
Adamsville, Utah, Beaver River at.....	50		Coleville, Calif., West Walker River near....		65
Alexander, Idaho, Bear River at.....	13		Collinston, Utah, Bear River near.....		15
Alvord Lake Basin, Oreg., gaging-station record in.....	91		Hammond Canal near.....		22
Antelope Valley Basin, Calif., gaging-station record in.....	60, 93		West Side Canal near.....		21
Appropriations, record of.....	1		Computations, results of, accuracy of.....		4-5
Avon, Utah, East Fork of Little Bear River near.....	16		Control, definition of.....		2
Avon-Paradise Canal, Utah, discharge measurements of.....	92		Cooperation, record of.....		9
			Cottonwood Creek near Paradise Valley, Nev.....		79
B			D		
Battle Mountain, Nev., Rock Creek near....	76		Data, accuracy of.....		4-5
Bear Lake outlet canal, Idaho, discharge measurement of.....	92		explanation of.....		2-4
Bear River at Alexander, Idaho.....	13		Deeth, Nev., Marys River near.....		74
at Harer, Idaho.....	12		Denio, Oreg., Trout Creek near.....		91
discharge measurements of.....	92		Devils Slide, Utah, Lost Creek at.....		30
near Collinston, Utah.....	15		Weber River at.....		26
near Evanston, Wyo.....	11				
near Weston, Idaho.....	14		E		
Bear River Basin, Utah-Idaho-Wyo., gaging-station records in.....	11-22, 92		East Side Canal, Utah. See Hammond Canal.		
Beaver River at Adamsville, Utah.....	50		East Walker River near Bridgeport, Calif....		62
at Rockford Dam, near Minersville, Utah.....	51		Echo, Utah, Weber River at.....		25
near Beaver, Utah.....	49		Echo Creek, Utah, discharge measurement of.....		93
Beaver River Basin, Utah, gaging-station records in.....	49-51		Elko, Nev., South Fork of Humboldt River near.....		75
Big Pine, Calif., Owens River near.....	57		Evanston, Wyo., Bear River near.....		11
Bishop, Calif., Owens River near.....	56				
Pine Creek near.....	59		F		
Rock Creek near.....	58		Falls Creek near Whitewater, Calif.....		54
Blacksmith Fork above Utah Power & Light Co.'s dam near Hyrum, Utah.....	20		Forks, Utah, Provo River at.....		34
Bridgeport, Calif., East Walker River near..	62		South Fork of Provo River at.....		35
Burns, Oreg., Silvies River near.....	90		Fort Churchill, Nev., Carson River near....		69
C			G		
Carson River, East Fork of, near Gardner-ville, Nev.....	68		Gardnerville, Nev., East Fork of Carson River near.....		68
East Fork of, near Markleeville, Calif....	67		Gateway, Utah, Weber River at.....		27
near Fort Churchill, Nev.....	69		Great Salt Lake, Utah, gages on.....		10
Carson River Basin, Calif.-Nev., gaging-station records in.....	67-71		Great Salt Lake Basin, Utah-Wyo.-Idaho, gaging-station records in.....		10-35
Chalk Creek at Coalville, Utah.....	29		Gunnison, Utah, Sevier River near.....		43
discharge measurement of.....	93				
Chewaucan River above Conn ditch, near Paisley, Oreg.....	85-86		H		
			Hammond Canal near Collinston, Utah.....		22
			Harer, Idaho, Bear River at.....		12
			Harney and Malheur Lakes Basin Oreg., gaging-station record in.....		90
			Hatch, Utah, Sevier River at.....		36

	Page		Page
Humboldt, Nev., Humboldt-Lovelock Irrigation, Light & Power Co.'s outlet canal near.....	81	Markleeville Creek above Markleeville, Calif.....	70
Humboldt-Carson Sink Basin, Calif.-Nev., gaging-station records in.....	67-81	at Markleeville, Calif.....	71
Humboldt-Lovelock Irrigation, Light & Power Co.'s canal near Mill City, Nev.....	80	Martin Creek near Paradise Valley, Nev.....	78
Humboldt-Lovelock Irrigation, Light & Power Co.'s outlet canal near Humboldt, Nev.....	81	Marys River near Deeth, Nev.....	74
Humboldt River at Palisade, Nev.....	72	Marysvale, Utah, Piute Reservoir near.....	39
discharge measurement of.....	93	Sevier River near.....	40
near Lovelock, Nev.....	74	Mill City, Nev., Humboldt-Lovelock Irrigation, Light & Power Co.'s canal near.....	80
near Oreana, Nev.....	73	Minersville, Utah, Beaver River near.....	51
South Fork of, near Elko, Nev.....	75	Mono Lake near Mono Lake, Calif.....	61
Humboldt River Basin, Nev., gaging-station records in.....	72-81, 93	N	
Huntsville, Utah, South Fork of Ogden River near.....	31	Nephi, Utah, Salt Creek near.....	33
Hyrum, Utah, Blacksmith Fork near.....	20	O	
I		Oakley, Utah, Weber River near.....	23
Iceland, Calif., Truckee River at.....	84	Oasis, Utah, Sevier River at.....	46
J		Ogden River, South Fork of, near Huntsville, Utah.....	31
Jordan River near Lehi, Utah.....	32	Oreana, Nev., Humboldt River near.....	73
Jordan River Basin, Utah, gaging-station record in.....	32-35	Owens Lake Basin, Calif., gaging-station records in.....	55-59
Juab, Utah, Sevier Bridge Reservoir near.....	44	Owens River at Pleasant Valley, near Bishop, Calif.....	56
Sevier River near.....	45	near Big Pine, Calif.....	57
K		near Round Valley, Calif.....	55
Kingston, Utah, East Fork of Sevier River near.....	47	P	
Sevier River near.....	38	Paisley, Oreg., Chewaucan River near.....	85-86
L		Palisade, Nev., Humboldt River at.....	72
Lake Tahoe at Tahoe, Calif.....	82	Paradise Valley, Nev., Cottonwood Creek near.....	79
Lehi, Utah, Jordan River near.....	32	Little Humboldt River near.....	77
Little Bear River, Utah, discharge measurements of.....	92	Martin Creek near.....	78
East Fork of, near Avon, Utah.....	16	Pine Creek at division box near Bishop, Calif.....	59
Little Humboldt River near Paradise Valley, Nev.....	77	Piute Reservoir near Marysvale, Utah.....	39
Littlerock Creek, Calif., discharge measurement of.....	93	Plain City, Utah, Weber River near.....	28
Logan, Utah, Logan, Hyde Park & Smithfield Canal near.....	19	Provo River at Forks, Utah.....	34
Logan River near.....	17	South Fork of, at Forks, Utah.....	35
Utah Power & Light Co.'s tailrace near.....	18	Publications, information concerning.....	5-8
Logan, Hyde Park & Smithfield Canal, Utah, discharge measurements of.....	92	obtaining or consulting of.....	5-6
near Logan, Utah.....	19	on stream flow, lists of.....	6-7, 8
Logan River above State dam near Logan, Utah.....	17	Punch Bowl Creek, Calif., discharge measurements of.....	93
discharge measurement of.....	92	Pyramid and Winnemucca Lakes Basin, Calif., gaging-station records in.....	82-84
Lost Creek at Devils Slide, Utah.....	30	R	
Lovelock, Nev., Humboldt River near.....	74	Rainbow inlet canal, Idaho, discharge measurement of.....	92
M		Rock Creek at Sherwin Hill near Bishop, Calif.....	58
Malheur and Harney Lakes Basin, Oreg., gaging-station record in.....	90	near Battle Mountain, Nev.....	76
Markleeville, Calif., East Fork of Carson River near.....	67	near Valyermo, Calif.....	60
		Rockyford Canal near Vermilion, Utah.....	48
		Round Valley, Calif., Owens River near.....	55
		Run-off in inches, definition of.....	2
		S	
		Salt Creek near Nephi, Utah.....	33
		Salton Sink Basin, Calif., gaging-station records in.....	52-54

	Page		Page
Schurz, Nev., Walker River at.....	64	U	
Second-foot per square mile, definition of....	2	Utah Power & Light Co.'s tailrace near	
Second-foot, definition of.....	2	Logan, Utah.....	18
Sevier Bridge Reservoir near Juab, Utah.....	44		
Sevier Lake Basin, Utah, gaging-station records in.....	36-48	V	
Sevier River at Hatch, Utah.....	36	Valyermo, Calif., Rock Creek near.....	60
at Oasis, Utah.....	46	Vermilion, Utah., Rockyford Canal near.....	48
at Sevier, Utah.....	41		
below Piute Dam, near Marysville, Utah.....	40	W	
below San Pitch River, near Gunnison, Utah.....	43	Wabuska, Nev., Walker River near.....	63
East Fork of, near Kingston, Utah.....	47	Walker Lake Basin, Calif.-Nev., gaging-station records in.....	62-66
near Circleville, Utah.....	37	Walker River at Schurz, Nev.....	64
near Juab, Utah.....	45	near Wabuska, Nev.....	63
near Kingston, Utah.....	38	Weber River at Devils Slide, Utah.....	26
near Vermillion, Utah.....	42	at Echo, Utah.....	25
Silver Creek near Silver Lake, Oreg.....	86-87	at Gateway, Utah.....	27
West Fork of, near Silver Lake, Oreg.....	88	discharge measurements of.....	93
Silver Lake, Oreg., Silver Creek near.....	86-87	near Coalville, Utah.....	24
Silver Lake Irrigation District Canal near.....	89	near Oakley, Utah.....	23
West Fork of Silver Creek near.....	88	near Plain City, Utah.....	28
Silver Lake Basin, Oreg., gaging-station records in.....	86-89	Weber River Basin, Utah, gaging-station records in.....	23-31, 93
Silver Lake Irrigation District Canal near Silver Lake, Oreg.....	89	Wellington, Nev., West Walker River near.....	66
Silvies River near Burns, Oreg.....	90	West Cache Canal, Idaho, discharge measurement of.....	92
Snow Creek near Whitewater, Calif.....	52-53	West Side Canal near Collinston, Utah.....	21
Southern Pacific Co.'s ditch near Whitewater, Calif.....	53-54	West Walker River at Hoyer Bridge, near Wellington, Nev.....	66
Stage-discharge relation, definition of.....	2	near Coleville, Calif.....	65
		Weston, Idaho, Bear River near.....	14
T		Whitewater, Calif., Falls Creek near.....	54
Tahoe, Calif., Lake Tahoe at.....	82	Snow Creek near.....	52-53
Truckee River at.....	83	Southern Pacific Co.'s ditch near.....	53-54
Terms, definition of.....	2	Winnemucca and Pyramid Lakes Basin, Calif., gaging-station records in.....	82-84
Trout Creek near Denio, Oreg.....	91	Work, authorization of.....	1
Truckee River at Iceland, Calif.....	84	division of.....	9
at Tahoe, Calif.....	83	scope of.....	1-2

