UNITED STATES DEPARTMENT OF THE INTERIOR
RAY LYMAN WILBUR, Secretary
GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

Water-Supply Paper 630

SURFACE WATER SUPPLY *of the* UNITED STATES

1926

PART X
THE GREAT BASIN

NATHAN C. GROVER, Chief Hydraulic Engineer
A. B. PURTON, H. D. McGLASHAN, F. F. HENSHAW, C. G. PAULSEN
and ROBERT FOLLANSBEE
District Engineers

Prepared in cooperation with the States of
UTAH, NEVADA, CALIFORNIA, OREGON, IDAHO, and WYOMING

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SURFACE WATER SUPPLY OF THE GREAT BASIN, 1926

AUTHORIZATION AND SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of flow made on streams in the United States during the year ending September 30, 1926.

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 year ending June 30, 1895–1926

1895	$12, 500. 00	1918	$175, 000. 00
1896	24, 500. 00	1919	148, 244. 10
1897–1899	50, 000. 00	1920	175, 000. 00
1900	70, 000. 00	1921	180, 000. 00
1901–1902	100, 000. 00	1922	180, 000. 00
1903–1906	200, 000. 00	1923	180, 000. 00
1907	150, 000. 00	1924–1925	170, 000. 00
1908–1910	100, 000. 00	1926	165, 000. 00
1911–1917	150, 000. 00	1927	151, 000. 00

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

Measurements of stream flow have been made at about 5,250 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July, 1926, 1,730 gaging stations were being maintained by the Geological Survey and the cooperating organizations. Many miscellaneous discharge measurements are made at other points. In connection with this work data were also collected in

regard to precipitation, evaporation, storage reservoirs, river profiles, and water power in many sections of the country and will be made available in water-supply papers from time to time.

DEFINITION OF TERMS

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

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

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

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

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

The following terms not in common use are here defined.

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

"Control," a term used to designate the section or sections of the stream below the gage which determines the stage-discharge relation at the gage. It should be noted that the control may not be the same section or sections at all stages.

The "point of zero flow" for a gaging station is that point on the gage—the gage height—at which water ceases to flow over the control.

EXPLANATION OF DATA

The data presented in this report cover the year beginning October 1, 1925, and ending September 30, 1926. 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 ground 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

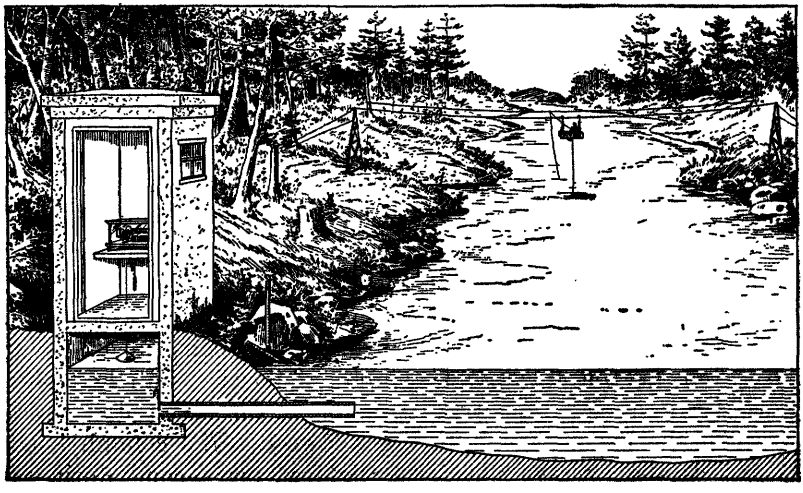

FIGURE 1.—Typical gaging station

direct readings 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. The general methods are 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.

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

If the base data are insufficient to determine the daily discharge, tables giving daily gage heights and results of discharge measurements are published.

The description of the station gives, in addition to statements regarding location and equipment, information in regard to any condition that may affect the permanence of the stage-discharge relation, covering such subjects as the occurrence of ice, the use of the stream for log driving, shifting of control, and the cause and effect of backwater. It gives also 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 table of daily discharge gives, in general, the discharge in second-feet corresponding to the mean of the gage heights read each day. 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 operating on the principle of the planimeter and containing as an essential element the rating curve of the station.

In the table of monthly discharge the column headed "Maximum" gives the mean flow for the day when the mean gage height was highest. As the gage height is the mean for the day it does not indicate correctly the stage when the water surface was at crest height, and the corresponding discharge was consequently larger than given in the maximum column. Likewise, in the column headed "Minimum" the quantity given is the mean flow for the day when the mean gage height was lowest. 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.

A paragraph in the description of the station gives information regarding the (1) permanence of the stage-discharge relation, (2) precision with which the discharge rating curve is defined, (3) refinement of gage readings, (4) frequency of gage readings, and (5) methods of applying daily gage heights to the rating table to obtain the daily discharge.

For the rating tables "well defined" indicates, in general, that the rating is probably accurate within 5 per cent; "fairly well defined," within 10 per cent; "poorly defined" within 15 to 25 per cent. These notes are very general and are based on the plotting of the individual measurements with reference to the main rating curve.

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. All figures representing "second-feet per square mile" and "run-off in inches" published by the Geological Survey in earlier reports should be used with caution because of possible inherent but unknown sources of error.

Many gaging stations on streams in the irrigated areas of the United States are situated above most of the diversions from those streams, and the discharge recorded does not show the water supply available for further development, as prior appropriations below the stations must first be satisfied. To give an idea of the amount of prior appropriations, a paragraph on diversions is presented in each station description. The figures given can not be considered exact but represent the best information available.

The table of monthly discharge gives only a general idea of the flow at the station and should not be used for other than preliminary estimates; the tables of daily discharge allow 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.

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 bulletins, professional papers, annual reports, and monographs.

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. Upper Mississippi River and Hudson Bay basins.
VI. Missouri River Basin.
VII. Lower Mississippi River Basin.
VIII. Western Gulf of Mexico basins.
IX. Colorado River Basin.
X. The Great Basin.
XI. Pacific slope basins in California.
XII. North Pacific slope basins, in three 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 furnish lists giving prices.

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

3. Complete 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., 904 Home Savings Bank 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., 1510 Consumers Building.
Madison, Wis., 337N State Capitol.
Thief River Falls, Minn., 618 Knight Avenue north.
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., 104 Agricultural Building, University of Arizona.
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., 45–46 Federal Building.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 303 Customhouse.
Los Angeles, Calif., 600 Federal Building.
Honolulu, Hawaii, Territorial Office Building.

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

Stream-flow records have been obtained at about 5,250 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 and 1894.
16th A, pt. 2	Descriptive information only	
B 140	Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11	Gage heights (also gage heights for earlier years)	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895 and 1896.
W 15	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas.	1897.
W 16	Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte, and western United States.	1897.
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also some long-time records).	1897.
W 27	Measurements, ratings, and gage heights, eastern United States, eastern Mississippi River, and Missouri River.	1898.
W 28	Measurements, ratings, and gage heights, Arkansas River and western United States.	1898.
20th A, pt. 4	Monthly discharge (also for many earlier years)	1898.
W 35 to 39	Descriptions, measurements, gage heights, and ratings	1899.
21st A, pt. 4	Monthly discharge	1899.
W 47 to 52	Descriptions, measurements, gage heights, and ratings	1900.
22d A, pt. 4	Monthly discharge	1900.
W 65, 66	Descriptions, measurements, gage heights, and ratings	1901.
W 75	Monthly discharge	1901.
W 82 to 85	Complete data	1902.
W 97 to 100	do	1903.
W 124 to 135	do	1904.
W 165 to 178	do	1905.
W 201 to 214	do	1906.
W 241 to 252	do	1907–8.
W 261 to 272	do	1909.
W 281 to 292	do	1910.
W 301 to 312	do	1911.
W 321 to 332	do	1912.
W 351 to 362	do	1913.
W 381 to 394	do	1914.
W 401 to 414	do	1915.
W 431 to 444	do	1916.
W 451 to 464	do	1917.
W 471 to 484	do	1918.
W 501 to 514	do	1919–20.
W 521 to 534	do	1921.
W 541 to 554	do	1922.
W 561 to 574	do	1923.
W 581 to 594	do	1924.
W 601 to 614	do	1925.
W 621 to 634	do	1926.

The records at most of the stations discussed in these reports extend over a series of years, and miscellaneous measurements at many points other than regular gaging stations have been made each year. An index of the reports containing records obtained prior to 1904 has been published in Water-Supply Paper 119.

The table following gives, by years and drainage basins, the numbers of the papers on surface-water supply published from 1899 to 1926. The data for any particular station will, as a rule, be found in the reports covering the years during which the station was maintained. For example, data for Machias River at Whitneyville, Me., 1903 to 1921, are published in Water-Supply Papers 97, 124, 165, 201, 241, 261, 281, 301, 321, 351, 381, 401, 431, 451, 471, 501, and 521, which contain records for the New England streams from 1903 to 1921. Results of miscellaneous measurements are published by drainage basins.

Numbers of water-supply papers containing results of stream measurements, 1899–1926

[For basins included see p. 5]

Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII		
												A	B	C
1899 [a]	35	[b] 35, 36	36	36	36	[c] 36, 37	37	37	[d] 37, 38	38, [e] 39	38, [f] 39	38	38	38
1900 [g]	48, [h] 48	48	48, [i] 49	49	49	49, [j] 50	50	50	50	51	51	51	51	51
1901	65, 75	65, 75	65, 75	65, 75	[k] 65, 66, 75	66, 75	[k] 65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902	82	[b] 82, 83	83	[l] 82, 83	[k] 83, 85	84	[k] 83, 84	84	85	85	85	85	85	85
1903	97	[b] 97, 98	98	97	[k] 98, 99, [m] 100	99	[k] 98, 99	99	100	100	100	100	100	100
1904	[n] 124, [o] 125, [p] 126	[p] 126, 127	128	129	[k] 128, 130	130, [q] 128	[k] 128, 131	132	133	133, [r] 134	134	135	135	135
1905	[n] 165, [o] 166, [p] 167	[p] 167, 168	169	170	171	172	[k] 169, 173	174	175, [s] 177	176, [r] 177	177	178	178	[t] 177, 178
1906	[n] 201, [o] 202, [p] 203	[p] 203, 204	205	206	207	208	[k] 205, 209	210	211	212, [r] 213	213	214	214	214
1907–8	241	242	243	244	245	246	247	248	249	250, [r] 251	251	252	252	252
1909	261	262	263	264	265	266	267	268	269	270, [r] 271	271	272	272	272
1910	281	282	283	284	285	286	287	288	289	290	291	292	292	292
1911	301	302	303	304	305	306	307	308	309	310	311	312	312	312
1912	321	322	323	324	325	326	327	328	329	330	331	332–A	332–B	332–C
1913	351	352	353	354	355	356	357	358	359	360	361	362–A	362–B	362–C
1914	381	382	383	384	385	386	387	388	389	390	391	392	393	394
1915	401	402	403	404	405	406	407	408	409	410	411	412	413	414
1916	431	432	433	434	435	436	437	438	439	440	441	442	443	444
1917	451	452	453	454	455	456	457	458	459	460	461	462	463	464
1918	471	472	473	474	475	476	477	478	479	480	481	482	483	484
1919–20	501	502	503	504	505	506	507	508	509	510	511	512	513	514
1921	521	522	523	524	525	526	52	528	529	530	531	532	533	534
1922	541	542	543	544	545	546	547	548	549	550	551	552	553	554
1923	561	562	563	564	565	566	567	568	569	570	571	572	573	574
1924	581	582	583	584	585	586	587	588	589	590	591	592	593	594
1925	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1926	621	622	623	624	625	626	627	628	629	630	631	632	633	634

[a] 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.
[b] James River only.
[c] Gallatin River.
[d] Green and Gunnison Rivers and Grand River above junction with Gunnison.
[e] Mohave River only.
[f] Kings and Kerns Rivers and south Pacific slope basins.
[g] Rating tables and index to Water-Supply Papers 47–52 and data on precipitation, wells, and irrigation in California and Utah contained in Water-Supply Paper 52. Tables of monthly discharge for 1900 in Twenty-second Annual Report, Part IV.
[h] Wissahickon and Schuylkill Rivers to James River.
[i] Scioto River.
[j] Loup and Platte Rivers near Columbus, Nebr., and all tributaries below junction with Platte.
[k] Tributaries of Mississippi from east.
[l] Lake Ontario and tributaries to St. Lawrence River proper.
[m] Hudson Bay only.
[n] New England rivers only.
[o] Hudson River to Delaware River, inclusive.
[p] Susquehanna River to Yadkin River, inclusive.
[q] Platte and Kansas Rivers.
[r] Great Basin in California except Truckee and Carson River Basins.
[s] Below junction with Gila.
[t] Rogue, Umpqua, and Siletz Rivers only.

COOPERATION

During the year ending September 30, 1926, the work in Utah, Nevada, California, Oregon, Idaho, 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, State engineer of Nevada; W. F. McClure and Paul Bailey, State engineers of California; the division of water rights, Department of Public Works of the State of California; Rhea Luper, State engineer of Oregon; W. G. Swendsen, commissioner of reclamation of Idaho; and Frank C. Emerson, 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, Sevier River Water Users, and Empire Irrigation Distirct.

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 J. W. Mangan, M. T. Wilson, D. M. Corbett, 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 the 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 stations on Soda Creek in Idaho were collected and prepared for publication under the direction of C. G. Paulsen, district engineer, assisted by F. M. Veatch and Miss E. H. Haugse.

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

The records were reviewed and the manuscript assembled by Otto Lauterhahn.

GAGING-STATION RECORDS

GREAT SALT LAKE BASIN

GAGES ON GREAT SALT LAKE

LOCATION.—At Saltair, on southeast shore of 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.

RECORDS AVAILABLE.—September 14, 1875, to December 15, 1899; March to July, 1904; October 1, 1912, to September 30, 1926.

GAGES.—Midlake gage read August 15, 1902, to September 30, 1926, by Southern Pacific Co. Saltair gage read July 1, 1903, to September 30, 1926, by United States Weather Bureau. Other gages used at various times are described in earlier water-supply papers. Datum of Midlake gage is 4,198.0 feet above mean sea level as determined by comparative readings with other gages in 1916. Datum of Saltair gage is 4,196.8 feet above mean sea level as determined by levels by topographic branch in 1922.

EXTREMES OF STAGE.—Maximum stage recorded during year, 4,204.2 feet above mean sea level May 1 and 15 at Saltair gage; minimum, 4,202.4 feet September 15 at Midlake gage.

1850–1926: Maximum stage recorded, 4,211.3 feet above mean sea level July 12, 1877. Estimated maximum stage, 4,212.5 feet, occurred in 1868 (data furnished by Marcus E. Jones, Salt Lake City); minimum, 4,195.7 feet in 1902.

ACCURACY.—Saltair gage is read to tenths of feet. Midlake gage is read to quarter inches, and reductions have been made to feet and half-tenths. Apparent inconsistencies in readings are probably largely due to the effect of wind, as the two gages are about 40 miles apart.

COOPERATION.—Readings on Midlake gage furnished by Southern Pacific Co.; readings on Saltair gage, by United States Weather Bureau.

Gage height, in feet, of Great Salt Lake, Utah, for the year ending September 30, 1926

Day	Saltair gage	Midlake gage	Day	Saltair gage	Midlake gage	Day	Saltair gage	Midlake gage
Oct. 1	6.4	5.0	Feb. 1	6.7	5.35	June 1	7.3	5.9
Oct. 15	6.4	4.9	Feb. 15	6.9	5.6	June 15	7.1	5.85
Nov. 1	6.4	4.9	Mar. 1	7.0	5.65	July 1	6.9	5.6
Nov. 15	6.4	5.1	Mar. 15	7.2	5.75	July 15	6.8	5.4
Dec. 1	6.5	5.1	Apr. 1	7.2	5.75	Aug. 1	6.5	5.15
Dec. 15	6.6	5.25	Apr. 15	7.3	5.9	Aug. 15	6.4	5.0
Jan. 1	6.6	5.25	May 1	7.4	6.0	Sept. 1	6.0	4.65
Jan. 15	6.6	5.25	May 15	7.4	6.1	Sept. 15	5.8	4.4

BEAR RIVER BASIN

BEAR RIVER NEAR EVANSTON, WYO.

LOCATION.—In sec. 1, T. 15 N., R. 121 W., 300 feet above highway bridge and 3½ miles northwest of Evanston, Uinta County. Nearest tributary, a small stream entering from southwest half a mile above.

DRAINAGE AREA.—645 square miles (measured on base map of Wyoming).

RECORDS AVAILABLE.—October 26, 1913, to September 30, 1926.

GAGE.—Chain gage on left bank 300 feet above bridge; read by Mrs. Alex. Morrow.

DISCHARGE MEASUREMENTS.—Made from cable just below gage or by wading.

CHANNEL AND CONTROL.—Bed composed of coarse gravel. Control at riffle a short distance below gage; slightly shifting at long intervals. Banks subject to overflow at stage of about 5 feet.

EXTREMES OF DISCHARGE.—Maximum stage recorded during year, 4.90 feet at 4.45 p. m. May 21 (discharge, 1,680 second-feet); minimum discharge, 6 second-feet September 14-18 and 22–30.

1914–1926: Maximum stage recorded, 6.35 feet at 6.30 p. m. June 14, 1921 (discharge, 3,690 second-feet); river dry August 9–24 and August 27 to September 30, 1924.

ICE.—Stage-discharge relation seriously affected by ice; observations discontinued.

DIVERSIONS.—Adjudicated diversions for irrigation of 30,300 acres from Bear River above station.

REGULATION.—Diurnal fluctuation during spring caused by alternate melting and freezing of mountain snow. No artificial regulation.

ACCURACY.—Stage-discharge relation practically permanent except when affected by ice. Rating curve used October 1 to December 13 and curve March 16 to September 30 are both well defined. Gage read to quarter tenths twice daily. Daily discharge ascertained by applying mean daily gage height to rating table. Records good except for periods affected by ice, for which they are fair.

The following discharge measurements were made:

May 17, 1926: Gage height, 3.42 feet; discharge, 772 second-feet.

September 26, 1926: Gage height, 0.78 foot; discharge, 5.6 second-feet.

Daily discharge, in second-feet, of Bear River near Evanston, Wyo., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92	77	84	90	110	735	1,090	59	8	8
2	82	77	84	90	94	760	975	59	9	10
3	73	75	60	95	100	920	975	56	12	11
4	73	65	50	100	180	1,000	1,000	58	26	11
5	80	65	49	110	339	1,300	975	59	42	11
6	128	69	84	100	402	1,330	1,030	64	43	9
7	172	67	88	90	449	1,120	1,000	73	47	9
8	135	62	88	100	376	810	892	92	52	8
9	130	66	82	150	301	810	865	104	53	8
10	126	80	69	200	394	785	865	121	59	7
11	126	71	71	275	329	685	785	126	63	7
12	128	66	75	300	269	660	660	98	59	7
13	132	62	69	350	269	610	601	88	55	7
14	139	60	------	400	269	588	565	80	53	6
15	126	60	------	500	294	610	470	77	45	6
16	112	62	------	640	343	635	421	63	39	6
17	110	64	------	685	368	735	343	53	35	6
18	112	67	------	838	394	865	305	53	28	6
19	108	70	------	421	425	1,030	262	45	25	7
20	104	70	------	357	482	1,210	229	39	25	7
21	100	72	------	329	470	1,610	202	30	23	7
22	102	74	------	322	516	1,610	167	21	23	6
23	104	77	------	288	529	1,440	137	15	23	6
24	100	62	------	301	534	1,440	106	16	20	6
25	96	77	------	281	556	1,240	88	12	17	6
26	92	92	------	170	606	1,030	77	11	12	6
27	80	90	------	137	650	975	63	9	9	6
28	90	98	------	112	760	920	63	11	8	6
29	92	102	------	119	785	920	52	11	8	6
30	86	98	------	110	785	1,150	52	9	7	6
31	84	------	------	110	------	1,150	------	9	7	------

NOTE.—Stage-discharge relation affected by ice November 3–5, 13–22, December 3,4, Mar. 1–15, 30,31; discharge based on temperature and gage-height records and comparison with records of flow of Hams Fork at Diamondville and Green River at Green River.

Monthly discharge of Bear River near Evanston, Wyo., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	172	73	107	6,580
November	102	60	73.2	4,360
December 1-13	88	49	73.3	1,890
March	838	90	264	16,200
April	785	94	413	24,600
May	1,610	588	990	60,900
June	1,090	52	510	30 300
July	126	9	52.3	3,220
August	63	7	30.2	1,860
September	11	6	7.3	434

BEAR RIVER AT HARER, IDAHO

LOCATION.—In NE. ¼ sec. 22, T. 14 S., R. 45 E., three-fourths mile north of Harer siding on Oregon Short Line Railroad, 7 miles above Dingle, and 14 miles southeast of Montpelier, Bear Lake County.

DRAINAGE AREA.—2,780 square miles (determined by Utah Power & Light Co.).

RECORDS AVAILABLE.—June 21, 1913, to September 30, 1916; January 1, 1919, to September 30, 1926.

GAGE.—Au continuous water-stage recorder on right bank; inspected by Karl Gilgen.

DISCHARGE MEASUREMENTS.—Made by wading or from cable.

CHANNEL AND CONTROL.—Bed clean and firm, hard material; left bank overflowed at extremely high stages. Control fairly permanent.

EXTREMES OF DISCHARGE.—Maximum stage during year, 5.90 feet at 8 a. m. March 20 (discharge, 1,380 second-feet); minimum, 2.82 feet September 16 (discharge, 114 second-feet).

1913–1916, 1919–1926: Maximum stage recorded, 10.51 feet June 2, 1920 (discharge, 3,860 second-feet); minimum, 2.61 feet at 6.25 a. m. September 1, 1919 (discharge, 81 second-feet).

ICE.—Stage-discharge relation seriously affected by ice.

DIVERSIONS.—Numerous diversions for irrigation above station.

REGULATION.—None.

ACCURACY.—Stage-discharge relation affected by ice November 13 to March 23. Rating curves well defined. Water-stage recorder operated satisfactorily. Daily discharge ascertained by applying mean daily gage height to rating table except during ice-affected period and March 27–31, when estimates were based on discharge measurements. Records good.

COOPERATION.—Data collected and records compiled by Utah Power & Light Co. (under supervision of the Geological Survey) in connection with records furnished for Federal Power Commission project 20, Idaho.

Discharge measurements of Bear River at Harer, Idaho, during theye ar ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 2	3.69	366	Feb. 3	[b] 3.80	219	May 10	4.90	931
Oct. 10	3.60	317	Feb. 10	[b] 3.87	242	May 17	4.46	701
Oct. 14	3.69	359	Feb. 16	[b] 3.87	236	May 24	4.32	624
Oct. 21	3.68	359	Feb. 24	[b] 3.87	226	June 19	3.84	423
Oct. 27	3.65	338	Mar. 2	[b] 3.89	234	July 2	3.31	248
Nov. 2	3.60	332	Mar. 10	[a] 4.44	417	July 19	3.54	314
Nov. 7	3.45	292	Mar. 17	[a] 5.61	978	July 29	3.22	214
Nov. 17	[a] 3.65	338	Mar. 24	4.79	858	Aug. 16	3.04	168
Nov. 24	[a] 3.55	307	Mar. 31	4.13	523	Aug. 30	2.90	134
Dec. 1	[a] 3.54	315	Apr. 7	4.24	584	Sept. 4	2.89	129
Dec. 31	[a] 3.48	164	Apr. 13	4.68	800	Sept. 15	2.83	122
Jan. 8	[b] 3.54	208	Apr. 19	4.67	812	Sept. 25	2.84	123
Jan. 14	[b] 3.44	165	Apr. 26	4.80	851	Sept. 30	2.99	153
Jan. 25	[b] 3.68	188	May 3	4.67	791			

[a] Partial ice cover. [b] Complete ice cover.

Daily discharge, in second-feet, of Bear River at Harer, Idaho, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	370	329	315	178	190	228	538	746	756	261	191	119
2	362	325	310	181	200	225	503	746	698	249	189	119
3	355	332	260	200	210	240	490	790	660	243	189	122
4	351	336	220	202	222	250	499	727	646	240	189	126
5	351	336	230	197	225	270	503	732	637	237	186	129
6	351	308	280	202	228	270	516	809	655	234	181	134
7	347	294	310	194	237	320	582	809	619	231	178	137
8	344	283		200	237	360	708	790	592	240	178	137
9	332	297		194	240	405	843	799	587	267	178	137
10	325	325		194	243	402	878	887	582	288	181	137
11	332	332		189	237	402	868	907	596	279	189	134
12	351	322		191	234	431	838	892	596	291	191	129
13	362	280		186	231	503	799	838	596	325	183	124
14	358	247		181	234	628	804	780	582	366	181	122
15	351	237		183	231	746	799	727	560	363	176	116
16	344	280		186	234	828	780	684	538	356	168	114
17	336	325		183	237	931	790	684	507	349	152	119
18	340	318		189	240	931	799	646	486	329	147	126
19	351	280		189	228	1,140	790	614	435	319	144	126
20	355	247	225	178	228	1,320	814	587	409	313	144	124
21	355	237		176	234	1,220	843	578	391	291	139	126
22	355	266			219	1,040	907	578	366	273	142	124
23	355	273			231	926	936	592	342	252	139	122
24	351	300			222	863	917	619	319	234	134	122
25	347	311			210	790	863	722	308	222	122	119
26	344	322		180	225	737	848	980	282	216	139	119
27	344	318			228	700	819	976	282	208	132	122
28	344	314			228	680	727	936	279	213	129	122
29	344	294			-------	670	746	912	279	216	134	126
30	344	304			-------	570	770	878	267	210	134	157
31	336	-------			-------	530	-------	819	-------	197	122	-------

Monthly discharge of Bear River at Harer, Idaho, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	370	325	348	21,400
November	336	237	299	17,800
December	----------	----------	236	14,500
January	202	----------	186	11,400
February	243	190	227	12,600
March	1,320	225	631	38,800
April	936	490	751	44,700
May	980	578	767	47,200
June	756	267	495	29,500
July	366	197	268	16,500
August	191	122	161	9,900
September	157	114	126	7,500
The year	1,320	114	375	272,000

BEAR RIVER AT ALEXANDER, IDAHO

LOCATION.—In NW. ¼ sec. 17, T. 9 S., R. 41 E., 600 feet below Soda hydroelectric plant, half a mile southeast of Alexander, Caribou County, 3 miles above intake of Last Chance Canal, and 6 miles above dam of Utah Power & Light Co. near Grace.

DRAINAGE AREA.—3,840 square miles (measured on Utah Power & Light Co.'s map).

RECORDS AVAILABLE.—March 27, 1911, to September 30, 1916; and April 17, 1919, to September 30, 1926.

GAGE.—Stevens water-stage recorder on right bank; inspected by Karl Gilgen.

DISCHARGE MEASUREMENTS.—Made from cable about 200 feet below gage.

CHANNEL AND CONTROL.—Bed composed of gravel and sand. Moss grows luxuriantly in the summer months since the construction of the Soda reservoir.

EXTREMES OF DISCHARGE.—1911–1916, 1919–1926: Maximum stage recorded, 15.95 feet December 11, 1919, during ice-affected period; maximum discharge, 4,590 second-feet May 9, 1922, at gage height 10.14 feet; minimum stage, 4.35 feet at 2 p. m. March 12, 1925 (discharge, 80 second-feet).

ICE.—Stage-discharge relation not affected by ice.

DIVERSIONS.—Water is diverted above station for irrigation and for storage in Bear Lake.

REGULATION.—Flow regulated by operation of Bear Lake storage reservoir and Soda hydroelectric plant.

ACCURACY.—Stage-discharge relation affected by moss during summer. Rating curves well defined. Water-stage recorder operated successfully during year, except as stated in footnote to table of daily discharge. Daily discharge determined by applying to rating table mean daily gage height ascertained by inspection of recorder graph. Records good.

COOPERATION.—Data collected and records compiled by Utah Power & Light Co. (under supervision of the Geological Survey) in connection with Federal Power Commission, project 20, Idaho.

Discharge measurements of Bear River at Alexander, Idaho, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 9	2.07	881	Jan. 10	0.12	28	Apr. 15	2.04	868
Oct. 16	2.07	883	Jan. 16	1.86	764	Apr. 21	1.97	791
Oct. 23	2.09	896	Jan. 19	1.98	848	Apr. 30	2.20	1,040
Oct. 29	2.08	890	Feb. 13	1.78	717	May 6	2.37	1,230
Nov. 5	2.07	905	Feb. 20	1.86	759	May 14	2.48	1,330
Nov. 13	2.08	928	Feb. 26	2.02	873	May 22	1.92	829
Nov. 19	2.06	894	Mar. 6	1.79	704	June 30	2.44	1,200
Dec. 7	1.94	838	Mar. 13	1.77	704	July 10	2.41	1,080
Dec. 12	1.97	811	Mar. 19	1.78	706	July 27	2.96	1,520
Dec. 17	2.07	902	Mar. 26	1.77	709	Aug. 19	2.63	1,190
Dec. 30	2.17	976	Apr. 3	1.63	599	Sept. 18	2.56	1,190
Jan. 10	.12	30	Apr. 9	1.93	797			

Daily discharge, in second-feet, of Bear River at Alexander, Idaho, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	888	760	821	669	727	760	644	868	1,000	1,160	1,120	1,330
2	888	790	737	688	669	766	626	861	1,140	1,140	1,210	1,300
3	888	770	656	527	694	682	555	1,080	1,050	1,050	1,210	1,290
4	737	760	643	720	669	550	669	1,220	1,030	450	1,220	1,140
5	888	800	582	834	662	632	933	1,220	1,090	410	1,280	1,050
6	793	821	669	733	656	675	840	1,220	1,050	1,240	1,220	1,020
7	786	786	737	746	538	590	834	1,220	1,140	1,160	1,190	1,240
8	682	612	723	753	656	669	773	1,170	1,180	1,170	1,180	1,260
9	779	779	723	766	650	662	773	963	1,220	1,170	900	1,240
10	779	793	709	550	720	656	820	1,210	1,150	1,010	1,110	1,240
11	723	858	709	793	682	669	773	1,180	1,060	688	1,200	1,140
12	779	786	716	727	688	632	834	1,210	1,100	1,060	1,150	1,020
13	772	814	582	868	675	650	890	1,200	1,000	941	1,200	1,220
14	772	821	669	813	614	442	941	1,230	1,100	1,050	1,160	1,270
15	758	835	682	760	733	584	820	1,170	1,130	1,010	933	1,220
16	793	966	807	720	753	580	760	948	1,140	1,130	1,130	1,270
17	702	850	779	714	746	570	883	861	1,180	1,170	1,230	1,190
18	656	814	737	793	753	590	733	890	1,150	1,280	1,150	1,170
19	858	793	744	820	773	644	766	890	1,110	1,310	1,100	1,030
20	800	807	570	820	701	656	854	897	933	1,220	1,210	1,110
21	835	865	643	806	675	511	800	883	1,120	1,250	1,130	1,180
22	835	744	737	773	701	662	760	912	1,130	1,280	993	1,180
23	744	842	695	746	786	669	834	912	1,100	1,220	1,180	1,180
24	730	786	676	688	827	662	800	993	1,140	1,060	1,190	1,210
25	650	807	340	779	779	644	786	1,100	1,090	1,110	1,210	1,210
26	800	786	582	779	786	669	861	1,140	1,060	1,240	1,190	912
27	858	858	588	868	786	656	876	1,090	890	1,190	1,210	1,130
28	730	835	636	827	638	550	868	1,100	1,080	1,280	1,140	1,150
29	723	716	682	773	------	656	904	1,180	1,130	1,280	1,030	1,060
30	730	751	758	669	------	701	926	1,060	1,180	1,300	1,180	1,020
31	1,080	------	814	608	------	675	------	1,000	------	1,230	1,210	------

NOTE.—No gage-height record Nov. 1–4, Mar. 16, 17, June 11–13, July 3–8, July 20 to Aug. 14, Sept. 15–18; discharge determined from gate openings and kilowatt output of Soda power plant.

Monthly discharge of Bear River at Alexander, Idaho, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,080	650	788	48,500
November	966	612	800	47,600
December	821	340	682	41,900
January	868	527	746	45,900
February	827	538	705	39,200
March	766	442	636	39,100
April	941	555	805	47,900
May	1,230	861	1,060	65,200
June	1,220	890	1,100	65,500
July	1,310	410	1,110	68,200
August	1,280	900	1,150	70,700
September	1,330	912	1,170	69,600
The year	1,330	340	896	649,000

BEAR RIVER NEAR WESTON, IDAHO

LOCATION.—In SW. ¼ SE. ¼ sec. 17, T. 16 S., R. 39 E., at Weston-Fairview highway bridge, 3 miles east of Weston, Franklin County.

RECORDS AVAILABLE.—October 21, 1919, to September 30, 1925. Records at this station are comparable with those obtained at gaging station near Preston, Idaho, maintained October 11, 1889, to January 15, 1917.

GAGE.—Au continuous recorder on left bank 50 feet above bridge; inspected by Mrs. Mart Rasmussen.

DISCHARGE MEASUREMENTS.—Made from highway bridge immediately below gage.

CHANNEL AND CONTROL.—Bed composed of gravel and earth. Banks fairly high and covered with brush. One channel at all stages. Low-water control is fairly well defined gravel riffle 200 feet below gage; not permanent.

EXTREMES OF DISCHARGE.—1920–1926: Maximum stage, 12.1 feet May 8 or 9, 1922 (discharge, 6,100 second-feet); minimum mean daily discharge, 100 second-feet November 1, 1925.

ICE.—Stage-discharge relation usually affected by ice.

DIVERSIONS.—Numerous irrigation diversions above. West Cache Canal diverts about 15 miles upstream and carries about 30,000 acre-feet around this station.

REGULATION.—Considerable diurnal fluctuation is caused by operation of Oneida power plant, about 25 miles above, and seasonal flow is affected by storage at Bear Lake, about 160 miles above.

ACCURACY.—Stage-discharge relation changed in January. Rating curves fairly well defined. Operation of water-stage recorder satisfactory, except as stated in footnote to table of daily discharge. Records good when recorder was in operation. Estimated records fair.

COOPERATION.—Data collected and records compiled by Utah Power & Light Co. (under supervision of the Geological Survey) in connection with records furnished for Federal Power Commission, project 20, Idaho.

Discharge measurements of Bear River near Weston, Idaho, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 1	3.96	1,100	June 8	3.12	633	Aug. 21	2.94	595
Nov. 11	2.94	600	June 18	3.44	894	Sept. 9	2.94	632
Mar. 17	2.65	444	July 7	3.30	819	Do	3.11	745
May 6	3.70	875	July 14	3.38	840	Do	3.53	963
May 14	2.78	445	July 15	3.45	906	Sept. 14	2.88	513
May 20	2.84	608	Aug. 20	2.58	393			

Daily discharge, in second-feet, of Bear River near Weston, Idaho, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,120	100		710	742	968	752	788	945	945	1,070	1,190
2	1,000	320		1,000	1,040	945	864	1,080	792	972	842	1,240
3	872	1,340		1,200	1,140	995	936	1,060	819	914	1,080	1,000
4	1,190	1,240		1,750	932	1,180	868	1,100	963	896	1,130	1,060
5	786	1,230		1,810	963	1,360	1,020	1,240	1,120	788	1,240	1,200
6	935	1,070		1,190	1,060	1,290	1,090	1,300	585	837	945	855
7	1,040	1,100		940	882	855	1,400	1,110	518	909	990	1,090
8	1,120	1,060		1,220	914	720	1,540	1,040	1,020	918	1,250	1,030
9	1,110	994		1,020	900	1,050	1,560	1,160	1,060	706	1,160	1,160
10	1,020	965		960	1,310	1,180	1,480	1,020	662	684	1,110	1,160
11	741	994		1,080	832	904	1,220	986	752	742	760	1,160
12	723	1,140		1,350	900	1,020	1,060	1,040	904	585	1,120	1,120
13	1,040	1,220		630	1,240	1,040	1,520	1,320	828	742	1,140	1,080
14	1,010	1,230		980	1,130	810	1,180	1,100	968	778	900	1,180
15	950	1,080		1,390	814	1,040	1,020	981	774	855	995	1,230
16	1,040	831	1,000	1,200	1,000	778	1,340	1,040	940	774	909	1,130
17	1,440	1,270		540	1,090	1,090	1,240	896	936	954	1,160	1,140
18	965	1,270		980	950	1,320	1,180	1,100	936	1,060	940	1,140
19	705	1,220		1,160	850	968	1,260	819	810	1,160	1,330	1,080
20	844	1,220		1,160	1,150	968	1,200	778	765	995	1,070	1,160
21	930	1,250		1,120	1,230	666	1,220	1,090	608	990	995	1,160
22	754	1,050		1,080	932	580	1,360	855	711	958	1,140	1,190
23	1,160	764		1,370	1,040	765	1,300	922	783	1,090	954	1,130
24	1,330	1,180		760	1,090	968	1,400	666	801	850	1,160	1,490
25	1,140	1,780		930	958	760	981	882	774	788	1,040	1,190
26	692	1,080		1,160	1,000	990	882	567	855	936	1,160	886
27	876	984		1,100	1,190	1,050	1,180	770	792	900	1,120	1,280
28	1,130	1,120		1,080	1,100	698	1,200	968	796	1,040	1,240	1,020
29	1,190	728		1,110	-------	850	1,040	968	774	1,040	878	1,150
30	1,640	1,220		1,240	-------	1,040	873	536	810	1,040	1,290	1,140
31	1,160	-------		1,140	-------	832	-------	716	-------	922	1,160	------

NOTE.—No gage-height record Dec. 4–10, 18–31, and Jan. 1–28; discharge estimated by comparison with record of Bear River below Oneida.

Monthly discharge of Bear River near Weston, Idaho, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,640	692	1,020	62,700
November	1,780	100	1,070	63,700
December	----------	----------	[a]1,000	61,500
January	1,810	540	1,110	68,200
February	1,310	742	1,010	56,100
March	1,360	580	957	58,800
April	1,560	752	1,170	69,600
May	1,320	536	964	59,300
June	1,120	518	827	49,200
July	1,160	585	896	55,100
August	1,330	760	1,070	65,800
September	1,490	855	1,130	67,200
The year	1,810	100	1,020	737,000

[a] Estimated.

BEAR RIVER NEAR COLLINSTON, UTAH

LOCATION.—In W. ½ sec. 34, T. 13 N., R. 2 W., a quarter of a mile below power plant of Utah Power & Light Co., at railroad siding called Wheelon, 4 miles north of Collinston, Box Elder County. Little Malad River enters from right 20 miles downstream.

DRAINAGE AREA.—6,000 square miles (measured on topographic and United States Forest Service maps).

RECORDS AVAILABLE.—July 1, 1889, to September 30, 1926.

GAGE.—Friez eight-day water-stage recorder on left bank; inspected by H. O. Durfey.

DISCHARGE MEASUREMENTS.—Made from cable or by wading.

CHANNEL AND CONTROL.—Bed composed of gravel and sand. Left bank high and covered with willows; not subject to overflow. Right bank fairly high and covered with willows; may be overflowed by exceptionally high floods. Control not well defined.

EXTREMES OF DISCHARGE.—Maximum stage during year, 3.93 feet at 8 p. m. April 9 (discharge, 3,380 second-feet); minimum, 0.88 foot June 8 (discharge, 34 second-feet).

1889–1926: Maximum stage recorded, 7.7 feet June 7–10, 1909 (discharge, 11,600 second-feet); minimum, 0.42 foot at midnight August 5, 1920 (discharge practically zero).

ICE.—Stage-discharge relation seldom affected by ice.

DIVERSIONS.—West Side and Hammond Canals divert water on both sides of Bear River about 2 miles above station. Water can be used from either or both of these canals to supply Wheelon power plant. Water passing Wheelon penstocks is used for irrigation or can be returned to river. Numerous ditches farther upstream divert water for irrigation.

REGULATION.—Flow affected by operation of power plants and by storage and release of water at Bear Lake Reservoir.

ACCURACY.—Stage-discharge relation changed slightly during August and again during later part of February. Rating curves well defined. Operation of water-stage recorder satisfactory except October 17–23, December 13–18, January 23, March 21–26, and June 20–25, when daily readings were obtained. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph or daily reading. Records good.

COOPERATION.—Gage-height record and discharge measurements furnished by Utah Power & Light Co.

Discharge measurements of Bear River near Collinston, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 14 [a]	2.65	1,450	Apr. 8 [a]	3.60	2,790	July 16 [a]	1.70	508
Jan. 29 [a]	2.48	1,260	May 18	2.61	1,490	Aug. 17 [a]	1.58	427
Mar. 18 [a]	2.90	1,870	June 11 [a]	1.36	271	Sept. 17 [a]	1.84	625

[a] Made by Utah Power & Light Co.

Daily discharge, in second-feet, of Bear River near Collinston, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,300	1,360	1,500	1,460	1,630	1,680	1,630	2,040	311	76	325	579
2	1,340	860	1,610	1,240	1,380	1,620	1,620	1,900	498	198	290	562
3	1,260	830	1,460	1,420	1,580	1,630	1,640	1,970	421	169	239	588
4	1,080	1,770	1,430	1,510	1,670	1,810	1,760	1,820	318	169	311	579
5	1,310	1,730	1,700	1,400	1,520	2,090	1,720	2,020	406	169	390	527
6	1,050	1,660	1,730	1,290	1,560	2,120	1,890	2,550	477	119	469	596
7	1,220	1,490	1,270	1,460	1,490	2,120	2,400	2,780	271	169	428	544
8	1,310	1,520	1,100	1,470	1,360	1,720	3,010	2,580	76	469	444	562
9	1,360	1,400	1,350	1,450	1,450	1,730	3,220	2,400	226	800	596	614
10	1,320	1,430	1,360	1,360	1,540	2,120	3,230	2,330	360	687	678	632

Daily discharge, in second-feet, of Bear River near Collinston, Utah, for the year ending September 30, 1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
11	1,210	1,410	1,530	1,550	1,840	2,090	3,010	2,110	169	570	544	678
12	1,050	1,310	1,530	1,210	1,470	1,850	2,560	1,980	106	579	493	669
13	1,030	1,530	1,770	1,640	1,410	1,850	2,440	1,890	215	510	588	641
14	1,320	1,560	1,340	1,260	1,680	1,730	2,730	1,950	198	477	623	579
15	1,350	1,530	997	1,190	1,490	1,620	2,330	1,850	169	485	502	588
16	1,260	1,340	1,640	1,440	1,410	1,730	2,260	1,730	124	477	469	641
17	1,310	1,200	1,430	1,400	1,420	1,660	2,580	1,780	169	436	421	669
18	1,570	1,500	1,340	1,200	1,420	1,940	2,560	1,640	264	413	406	705
19	1,310	1,500	1,270	1,050	1,500	2,150	2,560	1,560	264	469	421	715
20	1,010	1,530	1,170	1,440	1,470	1,980	2,680	1,240	198	493	535	705
21	1,010	1,560	1,310	1,320	1,670	1,980	2,700	1,220	144	469	553	696
22	1,190	1,490	1,730	1,400	1,670	1,720	2,610	1,220	40	461	444	743
23	1,010	1,350	1,610	1,450	1,500	1,040	2,700	1,050	40	452	493	850
24	1,370	1,210	1,530	1,400	1,550	1,590	2,700	1,050	40	436	421	830
25	1,520	1,540	1,530	1,410	1,640	1,500	2,640	641	51	375	461	1,050
26	1,300	1,810	1,250	1,230	1,550	1,300	2,190	752	76	284	477	1,030
27	975	1,400	1,140	1,400	1,550	1,720	2,050	535	129	264	502	771
28	1,100	1,530	1,080	1,400	1,730	1,760	2,330	527	102	290	527	900
29	1,310	1,540	1,350	1,280	-------	1,490	2,360	562	69	332	596	820
30	1,360	1,170	1,450	1,280	-------	1,500	2,300	588	72	339	527	1,260
31	1,700	-------	1,540	1,560	-------	1,720	-------	360	-------	368	493	-------

Monthly discharge of Bear River near Collinston, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,700	975	1,250	76,900
November	1,810	830	1,440	85,700
December	1,770	997	1,420	87,300
January	1,640	1,050	1,370	84,200
February	1,840	1,360	1,540	85,500
March	2,150	1,040	1,760	108,000
April	3,230	1,620	2,410	143,000
May	2,780	360	1,570	96,500
June	493	40	200	11,900
July	800	76	387	23,800
August	678	239	473	29,100
September	1,260	527	711	42,300
The year	3,230	40	1,210	874,000

SODA CREEK AT LAU RANCH, NEAR SODA SPRINGS, IDAHO

LOCATION.—In sec. 12, T. 8 S., R. 41 E., 100 feet east of Lau ranch house and 6 miles north of Soda Springs, Caribou County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—April 1, 1923, to October 31, 1926, when station was discontinued.

GAGE.—Vertical staff on left bank; read by George Schmidt.

DISCHARGE MEASUREMENTS.—Made by wading.

CHANNEL AND CONTROL.—Bed composed of lava rock and fine gravel; subject to slight aquatic growth. Control formed by well-defined riffle 20 feet below gage. One channel at all stages.

EXTREMES OF DISCHARGE.—Maximum stage recorded during period September 30, 1925, to October 31, 1926, 2.30 feet March 19 (discharge, about 104 second-feet); minimum discharge (estimated), 1.0 second-foot January 21 to February 5 and October 18–31, 1926.

1923–1926: Maximum stage recorded, 2.88 feet April 14, 1924 (discharge, about 172 second-feet); minimum discharge (estimated), 0.5 second-foot January 1–31 and December 18–31, 1924.

ICE.—Stage-discharge relation seriously affected by ice during winter.

DIVERSIONS.—Schmidt ditch diverts a small amount of water for irrigation 150 feet above gage on right bank.

REGULATION.—Flow affected by placement and removal of flashboards in low earth dam at outlet of Fivemile Meadows, about 400 feet above gage, and by diversion above.

ACCURACY.—Stage-discharge relation changed once during year; affected by ice January 2 to February 13. Rating curve used October 1 to March 19 well defined below 40 second-feet; curve used March 20 to October 31 well defined between 4 and 40 second-feet; above 40 second-feet they are extended. Gage read to hundredths once daily. Daily discharge ascertained by applying daily gage height to rating table except as noted in footnote to table of daily discharge. Records fair except for estimated periods, for which they are poor.

Discharge measurements of Soda Creek at Lau ranch, near Soda Springs, Idaho, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Mar. 22	1.28	19.6	May 23	1.01	9.7	July 27	0.75	3.9
Apr. 28	.56	1.9	June 17	.85	5.6	Sept. 17	.53	1.2

Daily discharge, in second-feet, of Soda Creek at Lau ranch, near Soda Springs, Idaho, for the period October 1, 1925, to October 31, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1	4.5	4.0	4.5	3.1		3.1	12	1.8	6.5	3.8	3.8	2.1	3.2
2	4.5	4.2	4.5			3.1	12	1.8	5.5	3.8	3.6	2.1	3.2
3	4.2	4.2	4.2	2.0	1.0	3.1	12	1.8	5.1	3.5	3.6	1.9	3.2
4	4.2	4.1	4.2			3.1	22	1.9	4.7	3.5	3.6	1.9	3.0
5	4.0	4.1	4.2			3.1	29	3.0	21	3.5	3.6	1.8	3.0
6	4.0	4.0	4.5			3.1	40	6.3	14	3.2	3.5	1.8	2.8
7	4.0	4.0	4.8			3.1	34	6.7	14	3.2	3.5	1.8	2.8
8	4.0	4.0	4.8			3.1	32	7.2	12	3.5	3.5	1.7	2.4
9	4.0	4.0	4.8			3.1	28	1.8	9.2	3.5	3.2	1.7	2.4
10	4.0	3.7	4.8		1.5	3.1	26	1.8	6.7	3.5	3.2	1.7	2.1
11	4.0	3.7	4.8			3.1	23	2.1	8.0	3.2	3.2	1.7	2.1
12	4.0	3.7	4.8			3.1	21	3.0	12	3.2	3.2	1.7	1.8
13	4.0	3.7	4.8	1.5		3.1	18	6.7	12	3.2	3.0	1.7	1.6
14	3.7	3.4	4.8		2.9	3.7	16	8.7	8.7	3.4	3.0	1.7	1.6
15	3.4	3.7	4.8		2.9	4.5	15	10	6.3	3.5	3.0	1.6	1.5
16	3.4	3.7	4.8		2.9	23	15	10	5.9	9.8	3.0	1.6	1.5
17	3.4	3.8	4.8		2.9	44	14	10	5.7	10	3.0	1.5	1.5
18	3.4	4.0	4.8		2.9	69	12	9.8	5.9	5.5	3.0	1.5	
19	3.4	4.2	4.8		2.9	104	1.8	9.8	5.9	4.7	2.9	1.5	
20	3.4	4.2	4.8		2.9	83	1.8	9.8	5.5	4.4	2.9	1.5	
21	3.4	4.2	4.8		3.1	55	2.1	9.2	5.1	4.4	2.9	1.5	
22	3.7	4.2	5.1		3.1	20	6.7	9.2	5.1	4.4	2.9	1.5	
23	3.7	4.2	5.1		3.1	16	9.2	9.5	4.7	4.1	2.8	1.5	
24	3.7	4.2	5.1		3.1	14	15	9.2	4.7	4.1	2.8	1.5	
25	4.0	4.2	5.1		3.1	13	17	9.2	4.7	4.1	2.8	1.5	1.0
26	4.0	4.2	5.1	1.0	3.1	12	15	9.0	4.4	4.0	2.8	1.5	
27	4.0	4.2	4.8		3.1	12	1.8	9.0	4.1	4.0	2.8	1.5	
28	4.0	4.5	4.5		3.1	12	1.8	8.7	3.8	4.0	2.8	1.5	
29	4.0	4.5	4.5		-------	12	1.8	8.7	3.8	3.8	2.5	1.5	
30	4.0	4.5	4.2		-------	12	1.8	8.2	3.8	3.8	2.3	3.2	
31	4.0	-------	4.1		-------	12	-------	7.7	-------	3.8	2.3	-------	

NOTE.—Stage-discharge relation affected by ice Jan. 2 to Feb. 13; water below gage Oct. 18–31, 1926; estimated discharge based on observer's notes and weather records. Braced figures show mean discharge for periods indicated.

Monthly discharge of Soda Creek at Lau ranch, near Soda Springs, Idaho, for the period October 1, 1925, to October 31, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1925–26				
October	4.5	3.4	3.87	238
November	4.5	3.4	4.04	240
December	5.1	4.1	4.70	289
January	3.1	----------	1.44	88.5
February	3.1	----------	2.22	123
March	104	3.1	18.1	1,110
April	40	1.8	15.2	904
May	10	1.8	6.83	420
June	21	3.8	7.29	434
July	10	3.2	4.21	259
August	3.8	2.3	3.06	188
September	3.2	1.5	1.71	102
The year	104	----------	6.08	4,400
1926				
October	3.2	----------	1.73	106

NOTE.—The Schmidt ditch diverted from right bank 150 feet above gage the following amounts of water as determined from water master's notes: June, 86 acre-feet; July, 22 acre-feet. Ditch reported dry except June 1 to July 15.

SODA CREEK NEAR SODA SPRINGS, IDAHO

LOCATION.—In sec. 24, T. 8 S., R. 41 E., at George Schmidt ranch, one-eighth of a mile below confluence of two branches of creek and 5 miles north of Soda Springs, Caribou County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—March 5, 1913, to October 31, 1926, when station was discontinued.

GAGE.—Vertical staff set in concrete on left bank a quarter of a mile south of ranch house; read by George Schmidt.

DISCHARGE MEASUREMENTS.—Made by wading.

CHANNEL AND CONTROL.—Bed composed of lava rock. Control is a reef about 15 feet below gage. Stage-discharge relation affected by aquatic growth.

EXTREMES OF DISCHARGE.—Maximum stage recorded during period October 1, 1925, to October 31, 1926, 1.24 feet March 19 (discharge, 140 second-feet); minimum discharge, 43 second-feet September 20–29.

1913–1926: Maximum stage recorded, 5.3 feet April 6, 1913 (discharge, 324 second-feet); minimum discharge, 38 second-feet January 8 and 12–15, 1919 (stage, 3.95 feet).

ICE.—Stage-discharge relation not affected by ice.

DIVERSIONS.—Schmidt ditch diverts water above station; a small ditch diverts water just below gage.

ACCURACY.—Stage-discharge relation not permanent on account of effect of aquatic growth, but flow is uniform. Gage read to hundredths once daily. Daily discharge ascertained by using shifting-control method throughout the year, based on standard rating curve and several curves parallel to it. Records April to September good; others fair.

Discharge measurements of Soda Creek near Soda Springs, Idaho, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Mar. 22	0.88	73.0	May 23	0.83	55.8	July 27	0.85	49.3
Apr. 28	.79	49.9	June 17	.84	50.8	Sept. 17	.83	43.9

Daily discharge, in second-feet, of Soda Creek near Soda Springs, Idaho, for the period October 1, 1925, to October 31, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1	52	52	53	49	51	52	67	53	51	47	48	46	46
2	52	52	53	49	49	52	67	52	48	47	48	45	46
3	52	52	52	49	49	52	67	52	48	47	48	45	46
4	52	51	52	49	49	52	73	52	47	47	47	45	46
5	52	51	52	49	49	52	83	53	47	47	47	44	45
6	52	51	52	49	49	52	87	53	58	47	47	44	45
7	52	51	52	49	49	52	84	54	58	47	47	45	44
8	52	51	52	49	49	52	81	54	55	47	47	45	44
9	52	49	52	49	49	52	81	52	54	47	47	45	44
10	52	49	52	49	49	52	78	51	53	47	47	45	45
11	52	49	52	49	49	52	73	52	52	46	47	44	45
12	52	49	52	49	49	52	73	52	54	46	47	44	45
13	52	49	52	49	49	52	70	53	54	46	47	44	45
14	51	49	52	49	49	59	70	53	54	46	47	44	45
15	51	48	52	49	49	70	67	53	53	46	47	44	45
16	52	49	53	51	49	89	66	53	51	46	48	44	46
17	51	49	53	51	49	103	66	53	51	51	48	44	46
18	51	48	53	51	49	119	63	53	51	49	48	44	45
19	51	48	53	51	49	140	60	53	51	49	49	44	45
20	51	48	53	51	49	123	54	53	51	49	49	43	45
21	51	48	53	51	51	100	54	53	48	51	48	43	45
22	51	48	53	51	51	73	57	54	48	51	48	43	45
23	51	48	53	51	51	73	59	55	48	51	48	43	45
24	51	48	53	49	51	70	60	55	47	51	48	43	45
25	51	48	53	49	51	70	66	54	47	49	47	43	45
26	51	48	53	49	51	69	63	53	47	49	47	43	45
27	51	48	53	49	51	69	60	53	47	49	47	43	45
28	51	51	51	49	51	69	51	53	47	49	47	43	45
29	51	51	51	49	-------	69	52	53	47	49	47	43	45
30	51	52	49	49	-------	69	52	53	47	49	47	45	45
31	51	-------	49	49	-------	69	-------	52	-------	49	46	-------	45

NOTE.—Discharge interpolated Feb. 26, 27, and July 26.

Monthly discharge of Soda Creek near Soda Springs, Idaho, for the period October 1, 1925, to October 31, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1925–26				
October	52	51	51.5	3,170
November	52	48	49.5	2,950
December	53	49	52.2	3,210
January	51	49	49.5	3,040
February	51	49	49.6	2,750
March	140	52	70.3	4,320
April	87	51	66.8	3,970
May	55	51	53.0	3,260
June	58	47	50.5	3,000
July	51	46	48.1	2,960
August	49	46	47.4	2,910
September	46	43	44.0	2,620
The year	140	43	52.7	38,200
1926				
October	46	44	45.1	2,770

LOGAN RIVER ABOVE STATE DAM NEAR LOGAN, UTAH

LOCATION.—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, Cache County.

DRAINAGE AREA.—218 square miles (measured on topographic map).

RECORDS AVAILABLE.—May 7, 1913, to September 30, 1926. June 1, 1896, to July 17, 1903, and April 14, 1904, to December 31, 1912, at old station a quarter of a mile downstream; flow at present station plus that of tailrace comparable to that at old station.

GAGE.—Stevens continuous water-stage recorder on right bank about 100 feet west of power house; inspected by operator of power plant.

DISCHARGE MEASUREMENTS.—Made by wading at gage; high-water measurements made from cable 400 feet downstream and flow in tailrace deducted.

CHANNEL AND CONTROL.—Banks high and clean and not subject to overflow; right bank is dry rubble retaining wall. Control is concrete cut-off wall about 6 feet below gage, rebuilt during August, 1924.

EXTREMES OF DISCHARGE.—Maximum stage during year not recorded; minimum stage, 1.92 feet August 10 (discharge, 12 second-feet).

1913–1926: Maximum stage recorded, 5.6 feet at 9.30 a. m. March 21, 1916 (discharge (estimated), 2,000 second-feet); minimum discharge, 8 second-feet December 11, 1915.

ICE.—Stage-discharge relation seldom affected by ice.

DIVERSIONS.—Utah Power & Light Co. diverts water above station for power, and Logan, Hyde Park & Smithfield Canal diverts for irrigation. Logan has a municipal power plant about 2 miles above station, but water is returned to river above two diversions noted. Logan is entitled to divert for municipal supply from 4 to 10 second-feet from springs in sec. 22, T. 12 N., R. 2 E., the quantity depending on the flow in the river.

REGULATION.—Some diurnal fluctuation is caused at times by operation of two power plants.

ACCURACY.—Stage-discharge relation permanent. Rating curve well defined below 600 second-feet. Water-stage recorder operated staisfactorily except May 5–9. Daily discharge ascertained by applying mean daily gage height to rating table; estimated May 5–9. Records good.

COOPERATION.—Gage-height record and 7 discharge measurements furnished by Utah Power & Light Co.

Discharge measurements of Logan River above State dam near Logan, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 1	2.11	24.5	Apr. 6	2.18	32.4	Sept. 7	2.02	17.0
Nov. 12	2.02	18.3	May 20	2.95	175	Sept. 15	2.02	19.6
Jan. 27	2.02	19.9	June 9	2.19	31.2			
Mar. 18	2.06	21.4	July 15	1.97	15.3			

Daily discharge, in second-feet, of Logan River above State dam near Logan, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	21	17	19	18	20	20	232	90	17	15	18
2	22	22	18	20	18	19	20	214	81	17	15	18
3	20	22	17	19	18	18	19	206	67	17	15	18
4	20	20	16	19	18	17	19	217	62	18	14	18
5	22	19	16	19	18	20	19	350	57	17	14	18
6	22	18	16	20	19	19	38	350	50	17	14	18
7	20	18	16	19	19	20	28	250	41	18	13	18
8	21	18	19	20	18	21	39	225	35	20	13	18
9	21	18	19	20	18	22	34	170	35	19	13	18
10	21	18	18	20	20	21	33	139	41	23	12	18

Daily discharge, in second-feet, of Logan River above State dam near Logan, Utah, for the year ending September 30, 1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
11	22	18	19	20	19	21	35	111	41	28	13	17
12	23	18	19	19	18	21	50	147	29	18	13	17
13	22	18	19	20	18	23	48	167	25	16	14	17
14	24	18	18	20	18	26	51	160	22	16	16	17
15	26	17	18	20	18	30	57	164	25	16	22	18
16	22	17	18	19	20	26	90	197	23	14	20	18
17	22	17	18	19	18	22	120	200	18	14	20	17
18	22	17	20	20	18	20	125	183	16	15	22	16
19	22	17	20	19	18	21	135	178	15	16	22	15
20	23	17	20	18	18	20	172	186	15	16	23	16
21	22	18	19	19	17	20	183	211	15	16	22	16
22	24	18	19	18	18	20	178	206	17	17	20	17
23	22	18	19	19	18	20	123	194	16	16	17	17
24	21	17	19	20	18	22	92	189	17	17	17	16
25	21	18	18	20	18	21	100	164	16	16	18	16
26	20	18	18	19	18	20	129	130	16	16	17	16
27	20	17	18	18	18	20	170	116	19	16	17	15
28	20	17	18	18	18	20	170	103	18	16	19	15
29	20	17	18	18	------	19	186	98	16	16	18	15
30	20	18	18	19	------	20	226	103	16	15	18	16
31	21	------	18	19	------	20	------	100	------	15	18	------

Monthly discharge of Logan River above State dam near Logan, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	27	20	21.8	1,340
November	22	17	18.1	1,080
December	20	16	18.2	1,120
January	20	18	19.2	1,180
February	20	17	18.2	1,010
March	30	17	20.9	1,290
April	226	19	90.3	5,370
May	350	98	182	11,200
June	90	15	31.8	1,890
July	28	14	17.0	1,050
August	23	12	16.9	1,040
September	18	15	16.9	1,010
The year	350	12	39.5	28,600

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

LOCATION.—In NE. ¼ sec. 36, T. 12 N., R. 1 E., 100 feet below power house of Utah Power & Light Co. and 2½ miles east of Logan, Cache County.

RECORDS AVAILABLE.—May 7, 1913, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on right bank just above weir; inspected by plant operators.

DISCHARGE MEASUREMENTS.—Made from footbridge just above gage.

CHANNEL AND CONTROL.—A rectangular wooden weir, having metal crest strip, just below gage acts as control. Length of crest, 17.7 feet. Capacity of channel above weir not sufficient to eliminate all velocity of approach. Stage of zero flow, zero on gage.

ICE.—Stage-discharge relation not affected by ice.

REGULATION.—Flow affected by operation of power plant.

ACCURACY.—Stage-discharge relation permanent. Rating curve well defined. Operation of water-stage recorder satisfactory. Daily discharge ascertained by applying mean daily gage height to rating table. Records good.

COOPERATION.—Gage-height record and 8 discharge measurements furnished by Utah Power & Light Co.

Canal diverts water from right bank of Logan River in SE. ¼ SW. ¼ sec. 29, T. 12 N., R. 2 E. Water is returned to river 125 feet below gaging station on Logan River above State dam in NE. ¼ sec. 36, T. 12 N., R. 1 E. Water is used for power development.

Discharge measurements of Utah Power & Light Co.'s tailrace near Logan, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 9	1.42	110	May 20	1.97	189	Sept. 7	1.22	84.4
Jan. 27	1.18	81.6	June 9	1.96	189	Sept. 15	1.20	83.1
Mar. 18	1.57	134	July 15	1.66	144			
Apr. 6	1.90	181	Aug. 18	1.30	94.0			

Daily discharge, in second-feet, of Utah Power & Light Co.'s tailrace near Logan, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	112	114	100	82	90	78	111	188	191	158	111	96
2	117	117	101	89	88	80	104	185	191	156	113	96
3	117	120	105	89	86	82	104	188	191	155	113	95
4	116	117	105	89	86	86	104	186	190	156	113	91
5	116	116	105	85	85	91	118	188	190	156	113	91
6	120	116	102	86	85	91	155	186	191	155	112	92
7	119	110	100	88	85	85	172	188	190	155	108	89
8	115	110	97	85	85	89	188	188	190	155	108	86
9	114	111	95	84	85	90	188	188	190	154	109	89
10	112	110	95	83	84	90	191	190	185	155	111	86
11	112	110	95	84	88	95	193	190	186	152	111	88
12	117	111	95	84	86	92	191	191	186	152	109	84
13	120	105	95	83	88	95	191	191	186	148	108	82
14	116	105	95	84	88	97	193	191	188	143	104	84
15	112	105	95	83	88	97	194	191	186	143	96	84
16	115	106	95	84	89	107	193	191	186	139	96	83
17	117	108	95	83	88	125	193	191	186	135	96	86
18	120	106	96	83	86	135	191	191	186	131	96	84
19	116	105	96	85	83	124	191	191	185	125	98	82
20	116	103	96	80	81	122	191	191	182	128	97	82
21	112	101	96	81	82	120	191	190	178	127	96	82
22	110	101	96	84	82	125	191	191	175	127	98	84
23	111	103	95	82	84	131	191	191	175	125	98	84
24	101	102	93	84	83	141	191	191	174	124	96	86
25	92	102	92	85	78	132	190	191	174	122	95	88
26	92	101	91	85	81	127	190	191	166	122	94	88
27	92	102	91	83	77	122	190	191	158	116	91	86
28	92	102	91	85	78	120	188	191	160	116	94	85
29	105	101	91	91	-------	112	188	191	160	114	95	84
30	114	101	88	92	-------	106	188	191	158	112	95	91
31	114	-------	82	90	-------	114	-------	191	-------	111	96	-------

Monthly discharge of Utah Power & Light Co.'s tailrace near Logan, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	120	92	111	6,820
November	120	101	107	6,370
December	105	82	95.6	5,880
January	92	80	85.0	5,230
February	90	77	84.6	4,700
March	141	78	106	6,520
April	194	104	175	10,400
May	191	185	190	11,700
June	191	158	181	10,800
July	158	111	137	8,420
August	113	91	102	6,270
September	96	82	86.9	5,170
The year	194	77	122	88,300

LOGAN, HYDE PARK & SMITHFIELD CANAL NEAR LOGAN, UTAH

LOCATION.—In SE. ¼ sec. 25, T. 12 N., R. 1 E., at concrete rating flume 1¼ miles below head of canal and 2½ miles east of Logan, Cache County.

RECORDS AVAILABLE.—Fragmentary records 1904 to 1926.

GAGE.—Stevens continuous water-stage recorder on right bank at rating flume; inspected by employees of Logan, Hyde Park & Smithfield Canal Co.

DISCHARGE MEASUREMENTS.—Made from foot plank at flume or by wading.

CHANNEL AND CONTROL.—Rectangular concrete rating flume. Stage of zero flow at zero on gage.

ICE.—None.

DIVERSIONS.—None above gage.

REGULATIONS.—Flow regulated by head gates at diversion works.

ACCURACY.—Stage-discharge relation permanent during year. Rating curve well defined. Operation of water-stage recorder satisfactory except as noted in footnote to table of daily discharge. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records good; estimates fair.

COOPERATION.—Gage-height record furnished by Logan, Hyde Park & Smithfield Canal Co.

Canal diverts water from Logan River in NE. ¼ NE. ¼ sec. 31, T. 12 N., R. 2 E., for irrigation and domestic use in territory north of Logan.

Discharge measurements of Logan, Hyde Park & Smithfield Canal near Logan, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 1	0.46	14.8	May 20	2.03	114	Aug. 18	0.64	24.7
Dec. 7	.18	3.3	June 9	2.01	102	Sept. 7	.62	27.6
May 6	1.89	96.3	July 15	.74	31	Sept. 15	.62	22.0

Daily discharge, in second-feet, of Logan, Hyde Park & Smithfield Canal near Logan, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14		4	3	3	3	2	116	111	43	31	26
2	14		3	3	3	3	2	117	111	40	31	26
3	14		3	3	3	3	2	118	116	37	34	26
4	14		4	3	3	3	2	114	112	36	32	26
5	14		4	3		3	2	113	109	35	31	26
6	16		4	3		3	2	105	112	36	30	26
7	16		4	3		3		98	113	36	30	26
8	15		3	3		3		97	111	51	30	26
9	15		3	3		3		94	109	46	30	26
10	14		3	3		3		92	95	31	30	26
11	13	4	3	3		3		90	83	23	29	26
12	13		3	3		3		54	85	34	29	26
13	13		3	3		2	2	36	80	34	28	25
14	13		3	3		2		36	78	34	28	25
15	8		3	3		2		21	65	33	28	25
16			2	3	3	2		4	65	32	29	25
17			2	3		3		46	62	32	27	27
18			3	3		3		80	49	32	26	29
19			3	3		2		100	50	32	27	29
20			3	3		2	26	115	51	34	27	28
21			3	3		2	46	116	48	34	27	28
22		4	3	3		2	65	113	49	34	27	28
23		4	3	3		2	70	111	46	33	26	25
24	4	4	3	3		2	87	113	45	32	26	24
25		4	3	3		2	103	115	41	32	26	24
26		4	3	3		2	109	111	43	33	27	23
27		4	3	4		2	102	113	45	32	27	23
28		4	2	4		2	106	119	43	32	27	23
29		4	3	2		2	113	118	42	32	27	24
30		4	2	3		2	114	117	40	31	26	27
31			3	3		2		116		32	26	

NOTE.—No gage-height record, discharge estimated, Oct. 12 to Nov. 21, Dec. 24–26, Feb. 5 to Mar. 3, Apr. 7–9, and July 13. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Logan, Hyde Park & Smithfield Canal near Logan, Utah for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	16		8.7	535
November			4.0	238
December	4	2	3.0	184
January	4	2	3.0	184
February			3.0	167
March	3	2	2.5	154
April	114		32.6	1,940
May	119	4	93.8	5,770
June	116	40	73.6	4,380
July	51	23	34.5	2,120
August	34	26	28.4	1,750
September	29	23	25.8	1,540
The year	119		26.2	19,000

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

LOCATION.—In NE. ¼ sec. 8, T. 10 N., R. 2 E., 1 mile above diversion dam, 3½ miles above power plant of Utah Power & Light Co., and 6 miles east of Hyrum, Cache County.

DRAINAGE AREA.—260 square miles (measured on topographic maps and map of Cache National Forest).

RECORDS AVAILABLE.—July 19, 1900, to December 31, 1902, and November 28, 1913, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on left bank 500 feet above wagon bridge and nearly a mile above dam; inspected by watchman at dam.

DISCHARGE MEASUREMENTS.—Made by wading or from cable 1 mile above gage.

CHANNEL AND CONTROL.—Bed rough but fairly permanent; one channel at all stages.

EXTREMES OF DISCHARGE.—Maximum stage during year, 2.36 feet April 6 (discharge, 264 second-feet); minimum, 1.28 feet March 7 (discharge, 63 second-feet).

1913–1926: Maximum stage determined by levels from high-water mark in well, 6.5 feet May 15, 1917 (discharge estimated by extending rating curve, 1,620 second-feet); minimum stage recorded, 0.85 foot at 6 a. m. February 6, 1916 (discharge estimated from extension of rating curve, 22 second-feet).

ICE.—Stage-discharge relation not affected by ice.

DIVERSIONS.—Above all important diversions.

REGULATION.—None.

ACCURACY.—Stage-discharge relation permanent during year. Rating curve well defined. Operation of water-stage recorder satisfactory, except as indicated in footnote to table of daily discharge. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records good.

COOPERATION.—Gage-height record and 9 discharge measurements furnished by Utah Power & Light Co.

Discharge measurements of Blacksmith Fork above Utah Power & Light Co.'s dam near Hyrum, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 12	1.49	87.2	May 3	1.87	144	Aug. 18	1.40	76.3
Jan. 27	1.35	75.0	May 19	1.68	113	Sept. 8	1.40	72.3
Mar. 19	1.53	95.0	June 10	1.58	91.0	Sept. 16	1.37	70.1
Apr. 6	1.98	175	July 15	1.46	77.0			

Daily discharge, in second-feet, of Blacksmith Fork above Utah Power & Light Co.'s dam near Hyrum, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	91	85	71	81		70	68	155	98	82	87	75
2	88	87	77	82		70	68	153	95	82	90	75
3	90	88	75	83		70	76	151	95	82	90	75
4	91	88	75	85		72	88	149	95	82	88	75
5	95	88	77	83		75	109	188	94	85	87	75
6	103	87	80			69	177	182	94	85	87	75
7	100	87	81			66	207	168	94	85	88	75
8	100	86	82			66	210	159	94	85	91	74
9	98	86	80			68	202	151	94	85	88	74
10	97	86	85			72	198	143	98	86	91	73
11	97	86	90			71	195	137	95	85	85	72
12	95	86	93		70	69	195	133	94	84	83	71
13	97	86	94	80		82	195	133	93	84	80	71
14	94	85	91			94	198	128	93	83	77	72
15	93	85	91			91	202	122	93	82	77	72
16	90	83	87			95	205	122	91	83	77	72
17	91	83	87			104	207	121	90	82	75	73
18	91	82	90			114	205	115	90	83	75	73
19	90	81	81			98	200	112	91	83	76	73
20	90	80	82			97	198	112	90	83	77	73
21	87	79	81			91	202	109	89	83	77	73
22	83	77	81			94	198	107	88	82	76	73
23	80	76	81		68	100	182	106	87	82	74	74
24	80	75	81		68	100	175	104	83	83	74	73
25	79	75	80		69	87	168	104	82	83	74	75
26	77	76	80	75	69	80	170	101	82	82	74	76
27	80	76	81		69	75	166	101	82	83	75	76
28	81	75	81		70	73	166	100	83	83	79	75
29	79	73	80		-------	70	162	100	83	86	77	76
30	80	72	80		-------	69	159	101	83	86	75	83
31	82	-------	80		-------	71	-------	100	-------	87	75	-------

NOTE.—No gage-height record Nov. 26, Jan. 6 to Feb. 25, June 20–22, July 7, 8, 11–14, Aug. 31, Sept. 1-6, 13–15; discharge estimated. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Blacksmith Fork above Utah Power & Light Co.'s dam near Hyrum, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	103	77	89.3	5,490
November	88	72	82.0	4,880
December	94	71	82.4	5,070
January	85	----------	78.7	4,840
February	----------	----------	69.8	3,880
March	114	66	81.4	5,010
April	210	68	172	10,200
May	188	100	128	7,870
June	98	82	90.4	5,380
July	87	82	83.6	5,140
August	91	74	80.6	4,960
September	83	71	74.1	4,410
The year	210	66	92.7	67,100

WEST SIDE CANAL NEAR COLLINSTON, UTAH

LOCATION.—In NW. ¼ 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, Box Elder County.

RECORDS AVAILABLE.—June 1, 1912, to September 30, 1926.

GAGE.—Friez water-stage recorder on left bank.

DISCHARGE MEASUREMENTS.—Made from footbridge at gage or by wading.

CHANNEL AND CONTROL.—Bed composed of earth and gravel. Banks steep and clean. Control not well defined; stage-discharge relation is probably affected by aquatic vegetation and slight silt deposit.

ICE.—Stage-discharge relation seriously affected at times by ice.

DIVERSIONS.—Water is taken out of canal about 600 feet above gage for power plant; and, if necessary, water can also be siphoned across river to Hammond Canal.

REGULATION.—Flow can be regulated at head gates and also at forebay of power plant.

COOPERATION.—Records furnished by Utah Power & Light Co.

Canal diverts water from west side of Bear River in SW. ¼ sec. 23, T. 13 N., R. 2 W., by means of low diversion dam. Part of water is used through Wheelon plant of Utah Power & Light Co. about 1½ miles below; the rest of that which passes gaging station is used for irrigation on west side of river. When cleaning or repairing Hammond Canal in canyon, water can be siphoned across the river at power plant from West Side Canal.

Discharge measurements of West Side Canal near Collinston, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 14	3.50	156	May 8	3.94	198	July 16	5.94	466
Jan. 29	[a] 2.04	28	May 18	4.62	283	Aug. 17	6.35	518
Mar. 18	1.04	12.2	June 11	6.70	589	Sept. 18	6.05	477

[a] Stage-discharge relation affected by ice.

Daily discharge, in second-feet, of West Side Canal near Collinston, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	316	202	78	32	30	16		0	566	596	542	556
2	334	212	81	30	30	16		104	571	599	570	556
3	337	168	82	32	30	16		163	568	599	572	556
4	333	148	81	30	30	16		210	574	595	566	547
5	333	144	79	30	30	16		219	577	598	570	541
6	333	146	81	30	30	16		198	571	598	571	546
7	310	146	81	30	30	16		198	574	598	547	508
8	304	146	81	30	30	16		193	568	422	547	490
9	306	140	81	30	5	16		198	560	319	546	484
10	310	142	81	30	8	16		193	590	357	524	482
11	307	143	78	30	19	16		173	590	364	494	481
12	277	143	81	30	19	16		173	585	378	494	480
13	260	146	78	30	19	16		210	598	414	498	481
14	264	151	78	30	16	16		237	596	415	499	481
15	275	150	78	30	16	16		233	599	444	498	482
16	275	156	78	30	19	16	0	235	598	468	514	484
17	258	159	78	30	19	16		253	599	504	528	484
18	259	157	58	30	16	16		276	598	547	562	482
19	260	156	58	30	16	6		285	599	546	560	484
20	248	151	53	30	18			348	603	547	560	478
21	260	151	58	30	19			384	603	546	558	480
22	255	146	53	30	18			418	595	546	560	456
23	253	146	56	30	16			454	593	544	560	409
24	265	151	56	30	16			463	604	540	560	408
25	243	151	58	30	16	0		482	604	536	560	408
26	240	153	58	30	16			520	601	538	558	409
27	254	153	53	30	16			514	601	526	558	421
28	244	156	58	30	16			510	595	542	560	438
29	243	156	58	30	------			544	588	538	554	439
30	255	117	58	30	------			541	593	536	552	355
31	193	------	38	30	------			560	------	540	554	------

Monthly discharge of West Side Canal near Collinston, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	337	193	278	17,100
November	212	117	153	9,100
December	82	38	68.6	4,220
January	32	30	30.1	1,850
February	30	5	20.1	1,120
March	16	0	9.5	584
April	0	0	0	0
May	560	0	306	18,800
June	604	566	590	35,100
July	599	319	511	31,400
August	572	494	545	33,500
September	556	355	477	28,400
The year	604	0	250	181,000

HAMMOND (EAST SIDE) CANAL NEAR COLLINSTON, UTAH

LOCATION.—In NW. ¼ 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, Box Elder County.

RECORDS AVAILABLE.—June 1, 1912, to September 30, 1926.

GAGE.—Friez water-stage recorder on right bank.

DISCHARGE MEASUREMENTS.—Made from footbridge at gage or by wading.

CHANNEL AND CONTROL.—Bed composed of earth and gravel. Control not well defined.

DIVERSIONS.—Water is taken from this canal 400 feet above gage for power plant.

REGULATION.—Flow can be regulated at head gates and by means of a waste-way at power-plant forebay; also affected by operation of plant.

COOPERATION.—Records furnished by Utah Power & Light Co.

Canal diverts water on east side of Bear River in SW. ¼ sec. 23, T. 13 N., R. 2 W., at same diversion dam as West Side Canal. Part of water is used by Wheelon plant of Utah Power & Light Co., and remainder is either wasted into river or passes gaging station for use in irrigation.

Discharge measurements of Hammond (East Side) Canal near Collinston, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 14	1.88	13	June 11	4.70	137	Sept. 18	4.32	121
May 8	2.74	37	July 17	4.66	134			
May 18	3.86	90	Aug. 17	4.55	129			

Daily discharge, in second-feet, of Hammond (East Side) Canal near Collinston, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Apr.	May	June	July	Aug.	Sept.
1	16	13	5		29	118	141	144	123
2	53	12	5		42	119	145	144	122
3	71	12	5		64	116	145	142	124
4	71	12	5		73	134	145	144	122
5	70	12	5		59	143	145	144	122
6	67	12	5		51	136	141	141	122
7	48	12	5		34	136	140	137	118
8	47	12	5		41	122	84	136	114
9	47	12	5		40	139	63	136	113
10	47	12	2		50	138	83	130	111
11	47	12			60	136	124	121	110
12	41	12			69	141	124	121	109
13	32	12			90	141	123	121	108
14	31	13			92	146	124	118	108
15	32	13			73	140	128	132	110
16	32	13			72	142	142	131	109
17	32	5			74	143	137	131	110
18	32	5			86	144	140	136	113
19	32	5			98	142	142	136	112
20	32	5			104	143	147	134	110
21	32	5			102	142	147	132	110
22	31	5			101	128	146	132	99
23	32	5			101	128	146	132	86
24	30	5			102	139	147	131	85
25	28	5		23	106	143	144	129	84
26	28	5		39	115	147	144	130	83
27	25	5		35	118	144	142	125	82
28	24	5		36	120	139	141	124	82
29	22	5		37	121	142	141	123	82
30	21	5		43	118	142	145	122	82
31	17				116		145	124	

NOTE.—Canal dry Dec. 11 to Apr. 24.

Monthly discharge of Hammond (East Side) Canal near Collinston, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	71	16	37.8	2,320
November	13	5	8.9	530
December	5	0	1.5	92
January	0	0	.0	0
February	0	0	.0	0
March	0	0	.0	0
April	43	0	7.1	422
May	121	29	81.3	5,000
June	147	116	137	8,150
July	147	63	134	8,240
August	144	118	132	8,120
September	124	82	106	6,310
The year	147	0	54.1	39,200

WEBER RIVER BASIN

WEBER RIVER NEAR OAKLEY, UTAH

LOCATION.—In NE. ¼ sec. 15, T. 1 S., R. 6 E., near mouth of canyon, 3 miles northeast of Oakley, Summit County. South Fork of Weber River enters 2 miles above station, and Beaver or Kamas Creek 6 miles downstream.

DRAINAGE AREA.—163 square miles (measured on topographic maps).

RECORDS AVAILABLE.—October 22, 1904, to September 30, 1926.

GAGE.—Inclined staff on left bank a quarter of a mile above diversion dam of New Field & North Bench Irrigation Co.'s canal; read by John Franson.

DISCHARGE MEASUREMENTS.—Made from cable just above dam or by wading.

CHANNEL AND CONTROL.—Bed composed of gravel and boulders. One channel at all stages; steep and rough but fairly permanent.

EXTREMES OF DISCHARGE.—Maximum stage recorded during year, 7.3 feet at 9 a. m. May 21 (discharge, 1,610 second-feet); minimum discharge, probably less than 50 second-feet during ice-affected period.

1904–1926: Maximum discharge recorded, 4,000 second-feet July 6, 1907, and June 5–7, 1909; minimum stage, 4.0 feet for periods during February and March, 1908 (discharge, 46 second-feet).

ICE.—Stage-discharge relation seriously affected by ice every winter.

DIVERSIONS.—Above all important diversions.

REGULATION.—In 1925 a dam was built at the outlet to Fish Lake, in sec. 4, T. 1 S., R. 9 E., creating a small reservoir. About 800 acre-feet was stored during 1926 and released in July and August.

ACCURACY.—Stage-discharge relation permanent. Rating curve well defined below 1,200 second-feet; extended above. Gage read to quarter-tenths once a day except as stated in footnote to table of daily discharge. Daily discharge determined by applying daily gage height to rating table. Records good for October and July 1 to September 30; fair for rest of year.

Discharge measurements of Weber River near Oakley, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Jan. 9	[a]4.48	50.0	July 27	4.30	78.8
May 25	6.20	78.8	Sept. 22	4.11	51.2

[a] Stage-discharge relation affected by ice.

Daily discharge, in second feet, of Weber River near Oakley, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1		87	72				95	560	850	161	104	58
2	90	95	72			65	104	560	790	156	99	58
3		87	72				104	610	850	156	109	58
4	87	87	79			65	104	670	990	151	104	58
5	95	84	79	50	55	65	104	920	920	151	95	58
6	208	82	79			65	113	730	920	149	92	58
7	156	79	78			65	113	560	920	149	99	58
8	133	79	77			65	123	510	730	145	99	55
9	113	79	76	50		65	123	419	610	145	95	55
10	113	79			65	65	133	419	585	145	106	52
11	113	79				68	133	419	560	133	95	52
12	113	77				69	133	419	510	133	89	55
13	113	76				69	156	378	463	123	84	55
14	113	76			65	72	181	378	419	117	81	55
15	109	76	70			72	208	419	378	113	79	55
16	108	76				79	238	463	340	109	73	55
17	104				65	79	270	610	304	104	71	55
18	104					87	304	760	287	99	72	55
19	104					87	340	920	270	95	72	55
20	104			50		87	378	1,290	254	95	68	52
21	100	72			65	95	378	1,610	238	92	68	52
22	99					95	378	1,370	223	87	68	52
23	95					95	398	1,370	223	82	66	52
24	95					104	398	1,370	208	79	68	55
25	95				65	104	419	850	194	79	65	55
26	92	72	60			95	441	850	181	79	62	55
27	92	72			65	95	463	850	168	79	62	55
28	91	72				95	525	850	168	123	62	55
29	91	65			-------	95	560	920	164	123	61	55
30	87	65			-------	95	560	920	161	117	60	72
31	87	-------			-------	95	-------	850	-------	113	58	-------

NOTE.—Stage-discharge relation affected by ice Nov. 17–25 and Dec. 10 to Feb. 4; discharge estimated from temperature chart, 1 meter measurement, and comparison with Devils Slide record. No gage-height record Oct. 1–3, Nov. 12, 20, Dec. 7, 8, Feb. 5–9, 11–16, 18–24, 26–28, Mar. 1–3, 5, 6, June 6, and July 25; discharge interpolated. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Weber River near Oakley, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	208	87	106	6,520
November	95	65	76.4	4,550
December	79	----------	68.2	4,190
January	----------	----------	[a]50	3,070
February	----------	----------	61.8	3,430
March	104	----------	80.1	4,930
April	560	95	266	15,800
May	1,610	378	769	47,300
June	990	161	463	27,600
July	161	79	119	7,320
August	109	58	80.2	4,930
September	72	52	55.7	3,310
The year	1,610	----------	184	133,000

[a] Estimated.

WEBER RIVER AT DEVILS SLIDE, UTAH

LOCATION.—In SW. ¼ sec. 19, T. 4 N., R. 4 E., 300 feet north of hotel and 500 feet downstream from highway bridge at Devils Slide, Morgan County. Lost Creek enters from right a quarter of a mile upstream.

DRAINAGE AREA.—1,090 square miles (measured on topographic and United States Forest Service maps).

RECORDS AVAILABLE.—February 1, 1905, to September 30, 1926.

GAGE.—Vertical staff on left bank; read by A. E. Lucas.

DISCHARGE MEASUREMENTS.—Made from cable or by wading.

CHANNEL AND CONTROL.—Bed composed of gravel and sand; shifts occasionally. One channel at all stages.

EXTREMES OF DISCHARGE.—Maximum stage recorded during year, 4.35 feet at noon May 21 (discharge, 1,600 second-feet); minimum, 1.69 feet September 22 and 23 (discharge, 51 second-feet).

1905–1926: Maximum stage recorded, 8.0 feet at 6 p. m. May 22, 1920 (discharge, 6,000 second-feet); minimum discharge, 31 second-feet September 3, 1919.

ICE.—Stage-discharge relation seldom affected by ice.

DIVERSIONS.—A number of canals divert water above this station for irrigation and domestic use.

REGULATION.—Diversions for irrigation only.

ACCURACY.—Stage-discharge relation permanent. Rating curve fairly well defined. Gage read to hundredths once daily except February 28 and May 24. Daily discharge ascertained by applying daily gage height to rating table; discharge interpolated February 28 and May 24. Records good.

Discharge measurements of Weber River at Devils Slide, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 24	2.31	229	July 22	1.92	109
June 9	3.08	594	Sept. 21	1.70	52.1

Daily discharge, in second-feet, of Weber River at Devils Slide, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	190	204	218	160	154	173	252	1,010	966	160	68	57
2	186	215	252	170	160	186	252	966	852	123	71	60
3	180	292	237	183	163	204	308	950	875	141	126	66
4	173	256	160	193	167	225	407	1,050	852	135	123	71
5	186	240	197	109	154	256	517	1,170	852	138	101	71
6	275	218	233	173	180	186	653	1,260	800	160	107	68
7	279	229	233	193	180	173	717	1,110	786	176	138	71
8	256	229	200	207	180	193	571	1,160	629	193	416	71
9	240	229	183	183	186	229	594	1,030	594	342	248	71
10	229	233	197	148	186	296	528	905	594	317	193	71
11	229	225	186	144	215	379	517	875	571	300	190	66
12	248	225	193	135	160	365	517	838	517	233	160	66
13	248	233	204	129	173	388	517	786	445	200	141	62
14	267	186	167	126	173	629	538	751	426	190	132	62
15	256	186	148	135	170	629	583	691	388	176	123	57
16	240	229	197	121	186	583	730	704	312	154	112	55
17	240	225	180	129	173	647	765	800	267	141	112	53
18	233	225	200	157	123	800	815	920	244	141	107	53
19	235	204	197	163	141	724	875	998	215	129	107	55
20	229	180	190	151	186	476	928	1,130	186	126	112	53
21	225	193	148	121	141	431	950	1,600	173	121	107	53
22	225	200	200	160	135	421	1,010	1,530	157	107	107	51
23	229	204	200	129	167	426	966	1,550	144	123	101	51
24	225	229	197	138	148	476	905	1,370	123	98	96	53
25	222	211	204	144	151	365	920	1,190	109	96	83	53
26	222	211	180	132	148	312	998	966	107	91	75	55
27	218	207	173	138	160	312	1,050	890	112	91	73	57
28	218	207	141	129	166	275	1,030	845	129	88	75	57
29	218	204	112	115	------	200	1,060	890	132	91	66	55
30	211	207	121	160	------	252	1,070	935	215	80	62	101
31	200	------	107	112	------	292	------	1,070	------	75	62	------

Monthly discharge of Weber River at Devils Slide, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	279	173	227	14,000
November	292	180	218	13,000
December	252	107	186	11,400
January	207	112	148	9,100
February	215	123	165	9,160
March	800	173	371	22,800
April	1,070	252	718	42,700
May	1,600	691	1,030	63,300
June	966	107	426	25,300
July	342	75	153	9,410
August	416	62	122	7,500
September	101	51	61.5	3,660
The year	1,600	51	320	231,000

WEBER RIVER AT GATEWAY, UTAH

LOCATION.—In NW. ¼ SW. ¼ sec. 27, T. 5 N., R. 1 E., 300 feet below mouth of Strawberry Creek, 1,400 feet above Union Pacific Railroad bridge across Weber River, and 4,400 feet above section house at Gateway, Morgan County. East Canyon Creek enters from left 9 miles upstream, and Ogden River from right 16 miles downstream.

DRAINAGE AREA.—1,610 square miles (measured on Utah Water Storage Association map of 1919).

RECORDS AVAILABLE.—June 22 to September 17, 1919, and July 26, 1920, to September 30, 1926. Records were obtained from October, 1889, to July, 1903, at a station 1 mile downstream known as Weber River near Uinta, Utah. Records at these stations are comparable, as there were no diversions and no important tributaries between the two points.

GAGE.—Stevens continuous water-stage recorder on right bank; inspected by William Poll.

DISCHARGE MEASUREMENTS.—From cable 1,000 feet above gage or by wading. Flow of Strawberry Creek is added when cable is used.

CHANNEL AND CONTROL.—Bed composed of gravel and cobblestones. Right bank high. At high stages river overflows a bar opposite gage.

EXTREMES OF DISCHARGE.—Maximum stage during year, 4.02 feet at 8 a. m. April 6 (discharge, 2,460 second-feet); minimum, —0.04 foot at 4 p. m. September 23 (discharge, 92 second-feet).

1889–1903, 1919–1926: Maximum discharge recorded, 7,980 second-feet May 31, 1896; minimum, 65 second-feet August 7–13, 1898.

ICE.—Affected by ice usually only for short periods.

DIVERSIONS.—Numerous diversions from Weber River and tributaries for irrigation above Gateway. Davis & Weber Canal, 3 miles below station, diverts water for irrigation on bench lands south of Ogden. Entire low-water flow is diverted by several canals during irrigation season, so that river is practically dry at Plain City station.

REGULATION.—Water stored by Davis & Weber Canal Co. on East Canyon Creek is released during the summer and passes gaging station.

ACCURACY.—Stage-discharge relation permanent; affected by ice part of December and January. Rating curve well defined. Operation of water-stage recorder satisfactory, except for periods stated in footnote to table of daily discharge. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records good, except estimated figures, which are fair.

Discharge measurements of Weber River at Gateway, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Jan. 14	0.64	228	June 8	1.70	678	July 22	0.68	262
May 17	2.47	1,170	July 17	.75	291	Sept. 21	—.01	96.1

Daily discharge, in second-feet, of Weber River at Gateway, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	275	293	313	260	195	287	455	1,640	1,020	280	207	118
2	285	327	439	268	198	306	439	1,540	946	270	209	112
3	290	392	415	281	218	337	583	1,460	868	260	218	111
4	297	373	320	277	229	362	736	1,460	850	250	232	111
5	303	344	317	210	253	400	910	1,980	821	250	230	111
6	362	320	351	260	262	366	1,800	2,150	786	270	240	109
7	407	330	351	280	268	334	1,850	1,800	770	290	256	112
8	384	323	327	290	277	351	1,460	1,720	704	350	392	112
9	366	334	306	260	284	396	1,390	1,620	662	515	384	112
10	351	340	306	240	290	464	1,200	1,380	641	400	284	112
11	344	340	297	235	306	593	1,160	1,280	626	334	320	112
12	348	335	290	230	290	641	1,160	1,230	583	290	306	109
13	362	340	306	225	290	827	1,160	1,200	542	287	287	109
14	359	303	287	220	281	1,170	1,180	1,110	500	287	275	107
15	362	290	253	225	256	1,260	1,300	1,070	450	320	262	107

Daily discharge, in second-feet, of Weber River at Gateway, Utah, for the year ending September 30, 1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
16	348	310	277	210	274	1,220	1,390	1,090	400	306	259	103
17	337	325	274	220	256	1,280	1,560	1,160	360	290	244	102
18	337	320	281	240	221	1,450	1,620	1,230	390	284	238	100
19	337	310	287	245	229	1,090	1,730	1,280	420	280	235	100
20	334	290	277	230	265	922	1,800	1,400	450	275	232	98
21	330	280	256	210	262	838	1,900	1,700	400	270	232	96
22	327	285	284	240	256	798	1,900	1,720	330	262	238	96
23	330	290	306	210	281	792	1,780	1,640	260	250	229	95
24	327	303	303	210	274	775	1,650	1,600	250	232	226	96
25	323	310	297	220	268	687	1,640	1,430	240	232	215	98
26	323	303	268	210	262	607	1,720	1,160	230	229	207	103
27	313	306	250	215	262	583	1,790	1,020	240	226	204	105
28	313	303	235	200	262	528	1,740	960	240	226	198	111
29	310	300	230	190	-------	451	1,730	898	230	221	201	112
30	303	306	210	230	-------	451	1,710	952	280	218	188	170
31	297	-------	250	190	-------	472	-------	1,040	-------	209	150	-------

NOTE.—No gage-height record Oct. 1–3, Nov. 10–13, 15–23, May 28, June 14–18, 20–26, 28–30, July 1–8, 19–21, Aug. 4, 5, 14, 31; stage-discharge relation affected by ice Dec. 27 to Jan. 1 and Jan. 4 to Feb. 1; discharge estimated by comparative hydrographs, using station at Devils Slide and Utah Power & Light Co.'s station at mouth of canyon.

Monthly discharge of Weber River at Gateway, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	407	275	332	20,400
November	392	280	318	18,900
December	439	210	296	18,200
January	290	190	233	14,300
February	306	195	260	14,400
March	1,450	287	679	41,800
April	1,900	439	1,410	83,900
May	2,150	898	1,390	85,500
June	1,020	230	516	30,700
July	515	209	279	17,200
August	392	150	245	15,100
September	170	95	108	6,430
The year	2,150	95	506	367,000

WEBER RIVER NEAR PLAIN CITY, UTAH

LOCATION.—In SE. ¼ sec. 5, T. 6 N., R. 2 W., at county highway bridge 1 mile south of Plain City, Weber County, on road to Ogden, 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 (measured on topographic and United States Forest Service maps).

RECORDS AVAILABLE.—May 14, 1905, to September 30, 1926. Records obtained at this point in 1904 by State engineer.

GAGE.—Tape gage on upstream side of highway bridge; read by W. E. Davies.

DISCHARGE MEASUREMENTS.—Made from bridge or by wading; conditions fair.

CHANNEL AND CONTROL.—Bed composed of sand and mud; shifting. One channel at all stages. Banks are high.

EXTREMES OF DISCHARGE.—Maximum stage recorded during year, 14.32 feet April 7 (discharge, 3,410 second-feet); minimum discharge not recorded (less than 5 second-feet).

1904–1926: Maximum stage recorded, 19.1 feet June 6, 1909 (discharge, 7,580 second-feet); river practically dry during later part of several summers since 1915.

ICE.—Stage-discharge relation usually affected by ice.

DIVERSIONS.—In summer practically entire flow of Weber River above station is diverted for irrigation.

REGULATION.—Flow affected by diversions.

ACCURACY.—Stage-discharge relation changed during high water in April. Rating curves fairly well defined. Gage read to hundredths once a day. Daily discharge ascertained by applying daily gage height to rating table. Discharge estimated for extremely low periods when water did not reach gage. Records fair.

Discharge measurements of Weber River near Plain City, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Dec. 5	5.12	427	June 7	4.79	282
Apr. 16	11.65	2,290	Aug. 24	2.14	[a]7

[a] Estimated.

Daily discharge, in second-feet, of Weber River near Plain City, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	308	317	357	335	323	450	876	1,990	442		34	21
2	290	329	787	351	367	459	855	1,830	420		29	56
3	276	445	682	401	374	473	948	1,730	397		26	57
4	277	434	592	401	405	498	1,260	1,430	372		26	57
5	285	427	434	395	412	539	1,550	2,610	327	5	28	59
6	292	399	416	390	410	546	2,640	2,650	295		23	29
7	329	370	432	382	401	498	3,410	2,790	281		25	20
8	374	374	450	353	484	477	2,840	2,780	282		21	22
9	365	374	416	321	527	486	2,540	2,270	225	50	124	19
10	363	378	401	317	496	469	2,430	2,040	197	120	51	18
11	361	376	430	341	484	663	2,190	1,750	164	78	120	22
12	370	395	430	325	484	778	2,200	1,640	163	49	28	22
13	382	382	412	310	480	951	2,130	1,550	152	35	26	
14	386	365	423	287	491	1,070	2,140	1,410	145	27	22	
15	380	386	405	302	486	1,350	2,160	1,350	116	26	21	
16	380	393	401	313	480	1,440	2,310	1,260	91	20	20	8
17	370	405	401	287	475	1,570	2,470	1,250	84	16		
18	363	403	405	300	434	1,690	2,570	1,260	74	18		
19	347	399	412	325	405	1,560	2,600	1,270	66	17		
20	343	382	416	345	461	1,340	2,690	1,220			8	18
21	339	382	416	370	401	1,300	2,830	1,310				42
22	339	388	393	317	401	1,280	2,840	1,240		5		49
23	337	386	399	321	405	1,160	2,670	1,160				50
24	339	386	401	313	430	1,170	2,560	1,110			8	44
25	339	393	399	365	401	1,170	2,440	865	5			53
26	337	401	395	387	390	1,030	2,450	672		43		55
27	335	380	395	290	434	960	2,470	555		23	8	58
28	331	370	390	292	438	942	2,370	524		21		60
29	323	361	365	345	------	858	2,280	444		26		66
30	321	357	341	337	------	804	2,310	455		30		105
31	319	------	317	304	------	930	------	496	------	34	19	------

NOTE.—Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Weber River near Plain City, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	386	276	339	20,800
November	445	317	385	22,900
December	787	317	429	26,400
January	401	287	333	20,500
February	527	323	435	24,200
March	1,690	450	933	57,400
April	3,410	855	2,270	135,000
May	2,790	444	1,450	89,200
June	442	----------	145	8,630
July	120	----------	22.6	1,390
August	124	----------	24.4	1,500
September	105	----------	35.3	2,100
The year	3,410	----------	566	410,000

LOST CREEK AT DEVILS SLIDE, UTAH

LOCATION.—In SE. ¼ 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, Morgan County.

DRAINAGE AREA.—228 square miles (measured on maps of United States Bureau of Reclamation).

RECORDS AVAILABLE.—April 1, 1921, to September 30, 1926, at present site. February 2 to December 31, 1905, at a site 150 feet above mouth of creek (published as "Lost Creek near Croyden, Utah").

GAGE.—Stevens continuous recorder on right bank; inspected by A. E. Lucas.

DISCHARGE MEASUREMENTS.—Made by wading near gage.

CHANNEL AND CONTROL.—Bed consists of gravel; rocky at gage. Straight for 100 feet above and below gage. Most of water at this point, except during spring high water, is seepage and from springs. One channel at all stages. Some moss on rocks at control. Control shifts occasionally.

EXTREMES OF DISCHARGE.—Maximum stage during year, 2.14 feet at 2 a. m. April 22 (discharge, 277 second-feet); minimum, 0.59 foot at 6 p. m. September 28 (discharge, 5.7 second-feet).

1905, 1921–1926: Maximum stage, 4.39 feet from 4 to 6 a. m. May 11, 1923 (discharge from extension of rating curve, 1,390 second-feet); minimum, that of September 28, 1926.

ICE.—Stage-discharge relation not often affected by ice.

DIVERSIONS.—Below all diversions.

REGULATION.—None.

ACCURACY.—Stage-discharge relation permanent throughout year. Rating curve well defined. Water-stage recorder successfully operated except as indicated in footnote to table of daily discharge. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records good.

Discharge measurements of Lost Creek at Devils Slide, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 24	0.93	23.5	July 22	0.70	10.0
June 9	.90	20.2	Sept. 21	.62	6.4

Daily discharge, in second-feet, of Lost Creek at Devils Slide, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	19	23	19	15	23	43	154	23	14	10	10
2	10	20	26	19	14	26	39	130	23	14	10	10
3	10	23	27	20	14	28	46	112	22	14	10	10
4	11	23	23	20	14	31	51	92	19	14	10	10
5	12	23	24	15	14	33	52	101	19	14	10	10
6	12	23	24	21	14	28	84	101	19	15	10	10
7	12	22	24	18	17	27	103	103	19	14	10	10
8	12	22	23	16	17	30	99	107	20	13	10	10
9	12	23	23	15	19	32	103	105	20	13	10	10
10	12	23	23	16	20	32	110	95	19	13	11	9
11	12	23	23	17	20	36	121	88	19	14	11	9
12	12	23	23	14	19	36	123	84	17	14	10	8
13	13	23	23	14	23	48	123	81	16	14	10	8
14	14	22	21	13	22	62	130	66	16	14	9	8
15	16	21	21	12	19	66	142	52	15	13	10	8
16	17	22	23	11	23	66	167	48	15	12	10	7
17	19	23	21	14	22	70	197	30	15	12	10	8
18	19	23	22	14	19	74	203	24	14	13	10	8
19	19	22	22	14	20	62	218	21	14	12	10	7
20	20	21	22	14	23	58	239	19	14	12	10	7
21	20	22	20	12	18	56	261	19	14	12	10	7
22	20	22	22	12	18	58	264	19	16	10	10	7
23	20	23	21	12	20	61	245	18	14	10	10	7
24	21	24	21	}	19	67	227	19	15	10	10	7
25	21	24	20	}	19	62	227	19	14	10	10	6
26	21	24	19	13	19	55	233	20	14	10	10	6
27	21	23	20	}	19	55	230	20	16	10	10	6
28	21	23	18	}	20	49	215	20	14	10	11	6
29	20	23	17	}	-------	39	197	20	14	10	10	6
30	19	23	14	14	-------	44	178	22	14	10	10	7
31	17	-------	14	14	-------	46	-------	22	-------	10	10	-------

NOTE.—No gage-height record Dec. 24–29; mean discharge estimated. Braced figure shows estimated mean discharge for period indicated.

Monthly discharge of Lost Creek at Devils Slide, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	21	10	16.0	984
November	24	19	22.5	1,340
December	27	14	21.5	1,320
January	21	11	14.8	910
February	23	14	18.6	1,030
March	74	23	47.1	2,900
April	264	39	156	9,280
May	154	18	59.1	3,630
June	23	14	16.8	1,000
July	15	10	12.3	756
August	11	9	10.1	621
September	10	6	8.1	482
The year	264	6	33.5	24,300

SOUTH FORK OF OGDEN RIVER NEAR HUNTSVILLE, UTAH

LOCATION.—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, Weber County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—March 21, 1921, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on right bank; inspected by T. L. Pass.

DISCHARGE MEASUREMENTS.—Made by wading a quarter of a mile below gage.

CHANNEL AND CONTROL.—Bed of stream rocky and clean. One channel for all stages. Control of boulders; fairly permanent.

EXTREMES OF DISCHARGE.—Maximum stage during year, 2.85 feet at 11 p. m. April 21 (discharge, 508 second-feet); minimum, 0.35 foot at 8 p. m. August 30 (discharge, 30 second-feet).

1921–1926: Maximum stage, 5.4 feet at 10 p. m. May 10, 1923 (discharge, 1,450 second-feet); minimum discharge, 30 second-feet October 5, 1924, and August 30, 1926.

ICE.—Stage-discharge relation only occasionally affected by ice.

DIVERSIONS.—Above all except a few small ranch diversions.

REGULATIONS.—None.

ACCURACY.—Stage-discharge relation changed September 17; affected by ice December 28 to January 30. Rating curves well defined. Water-stage recorder operated satisfactorily except for periods stated in footnote to table of daily discharge. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records good; estimates fair.

Discharge measurements of South Fork of Ogden River near Huntsville, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 29	0.50	44.5	June 7	0.72	68.5	Sept. 17	0.48	36.4
Dec. 7	.49	44.0	June 22	.59	54.3	Sept. 28	.50	37.0
Mar. 6	.64	57.5	Aug. 9	.44	37.8			
Apr. 14	2.14	324	Aug. 17	.38	33.2			

Daily discharge, in second-feet, of South Fork of Ogden River near Huntsville, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	44	44		36	50	76	340	85	47	37	34
2	45	50	59		36	53	71	312	83	47	37	34
3	45	52	51		36	57	80	290	79	46	37	35
4	46	48	46		35	61	86	277	76	46	36	35
5	49	45	46		36	66	126	335	75	47	37	34
6	51	45	46		35	56	268	308	74	47	37	34
7	49	45	45		36	57	290	270	71	47	41	34
8	47	45	44		37	57	290	249	71	53	44	34
9	47	45	42		37	60	290	235	71	52	40	33
10	47	46	43	38	38	63	290	213	71	47	40	33
11	47	46	44		39	68	312	199	67	44	38	33
12	50	46	44		39	70	324	188	65	42	37	33
13	55	47	43		41	79	324	177	65	42	37	33
14	53	44	41		40	93	312	170	63	42	36	33
15	50	45	41		39	103	359	167	61	41	35	34
16	48	45	42		41	107	410	170	61	39	35	37
17	47	46	42		40	113	451	170	60	38	34	35
18	46	45	42	36	37	125	451	165	59	38	35	35
19	45	42	43		40	113	465	156	57	39	36	35
20	45	42	42		41	107	465	150	56	38	36	34
21	45	42	43		41	103	485	145	55	38	35	35
22	45	43	43		41	104	468	136	53	37	34	36
23	45	43	43		41	110	415	128	53	37	34	36
24	45	44	43		42	118	382	122	52	37	33	37
25	45	44	42	36	42	108	379	118	51	36	33	37
26	45	44	42		43	100	397	112	50	35	33	37
27	45	43	41		44	93	402	107	49	38	34	37
28	45	43			48	86	400	101	49	39	34	37
29	45	43	40		-------	85	384	97	49	40	33	42
30	45	44			-------	77	372	97	48	38	32	51
31	44	-------		38	-------	79	-------	90	-------	38	33	------

NOTE.—No gage-height record Dec. 28–31, Jan. 1–9, 11–17, 19–23, 25–30; stage-discharge relation affected by ice Jan. 10 and 24; discharge estimated by comparison with records of Utah Power & Light Co., at Pioneer Dam, downstream. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of South Fork of Ogden River near Huntsville, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	55	44	46.8	2,880
November	52	42	44.9	2,670
December	59	----------	43.5	2,670
January	----------	----------	37.2	2,290
February	48	35	39.3	2,180
March	125	50	84.5	5,200
April	485	71	327	19,500
May	340	90	187	11,500
June	85	48	62.6	3,720
July	53	35	41.8	2,570
August	44	32	35.9	2,210
September	51	33	35.6	2,120
The year	485	32	82.2	59,500

SOUTH FORK OF OGDEN RIVER AT ARTESIAN PARK, NEAR HUNTSVILLE, UTAH

LOCATION.—In NW. ¼ sec. 14, T. 6 N., R. 1 E., one-third mile above confluence with Middle Fork, one-third mile southeast of Artesian Park, and 2 miles west of Huntsville, Weber County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—June 8, 1925, to September 30, 1926, when station was discontinued.

GAGE.—Au water-stage recorder on left bank March 24 to September 30, 1926. Staff gage at recorder site October 23, 1925, to March 23, 1926, at slightly different datum from the staff gage on opposite bank used prior to October 23, 1925.

DISCHARGE MEASUREMENTS.—Made by wading.

CHANNEL AND CONTROL.—Bed composed of small gravel. Left bank may be overflowed at extremely high stages. Control for low and medium stages is a light riffle just below gage; semipermanent. Channel control probable at higher stages.

EXTREMES OF DISCHARGE.—Maximum stage recorded during period June 8, 1925, to September 30, 1926, 3.70 feet at noon April 6 (discharge, 607 second-feet); minimum uncertain.

ICE.—Stage-discharge relation not affected by ice during period of record.

DIVERSIONS.—Below all diversions for Huntsville district.

REGULATION.—None except that caused by irrigation diversions.

ACCURACY.—Stage-discharge relation changed materially during January, March, and April. Rating curves for medium and high stages not well defined. Curves well defined between 15 and 50 second-feet. Water-stage recorder operated satisfactorily March 24 to May 17 and June 8 to September 17, 1926. Daily staff-gage readings obtained June 17 to October 15, 1925. Flow during winter estimated from current-meter measurements, occasional gage readings, and comparison with flow at gaging station about 8 miles upstream. Records June 17 to October 15, 1925, and June 8 to September 17, 1926, good; remainder of records fair.

COOPERATION.—Gage-height record and discharge measurements up to October 15, 1925, furnished by State engineer.

Discharge measurements of South Fork of Ogden River at Artesian Park, near Huntsville, Utah, during the years ending September 30, 1925 and 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
1925	*Feet*	*Sec.-ft.*	1926	*Feet*	*Sec.-ft.*	1926	*Feet*	*Sec.-ft.*
June 8	1.95	154	Mar. 7	0.98	46.7	Sept. 1	0.48	11.3
July 7	1.05	42.4	Mar. 24	1.36	146	Sept. 28	.53	9.9
July 21	.94	28.6	Apr. 15	2.65	380			
Aug. 26	.78	17.4	June 8	.74	26.5			
Oct. 23	a.77	13.3	June 22	.67	20.8			
Oct. 29	.78	14.4	Aug. 9	.57	13.5			
Nov. 20	.87	18.2	Aug. 24	.49	12.1			

a Datum changed.

Daily discharge, in second-feet, of South Fork of Ogden River at Artesian Park, near Huntsville, Utah, for the years ending September 30, 1925 and 1926

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1925					1925				
1		37	37	16	16	130	27	20	18
2		51	42	16	17	102	27	19	16
3		46	42	16	18	92	26	22	15
4		43	42	16	19	84	26	20	15
5		48	35	16	20	82	27	19	16
6		45	28	13	21	72	30	20	16
7		40	26	16	22	69	35	20	15
8	154	36	26	16	23	67	33	19	16
9		31	26	14	24	63	30	18	13
10		35	25	14	25	59	28	18	16
11		33	25	15	26	49	28	18	13
12	130	31	22	16	27	45	27	20	14
13		33	22	16	28	37	25	18	14
14		32	22	15	29	34	26	15	14
15		29	22	15	30	37	24	17	13
					31		27	16	

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1925-26												
1	14						116	303		17		10
2	17					45	112	248		16		10
3	13			23			119	210		16		10
4	13						133	252	35	17	15	10
5	13					50	180	356		17		10
6	13					48	433	318		17		10
7	13			24		47	464	281		18		10
8	13		22		25	48	412	243	28	22	16	10
9	13					50	380	216	28	24	14	10
10	14	16				55	368	196	30	23	15	10
11	14					60	356	181	32	22	14	9
12	14					70	348	165	31	22	13	10
13	15					85	356	156	30	22	12	9
14	16					100	366	130	29	20	12	9
15	16					115	389	126	30	20	12	9
16						125	433	122	30	18	12	9
17						135	479	118	28	18	12	9
18						155	475		27	18	11	
19	15			24		145	517		25	18	11	
20		19				140	512		25	17	11	9
21						135	552		23	17	11	
22					30	135	538		22	17	10	
23	14		23			140	468		22	16	10	
24						145	424	80	23	16	10	
25		20				139	416		22	16	10	10
26	14					133	424		21	16	10	
27						128	419		19	16	10	
28						122	394		18	16	11	10
29	14				-------	118	361		17	16	10	12
30	14				-------	114	334		17	16	10	15
31	14	-------			-------	117	-------		-------	16	10	-------

NOTE.—No gage-height record June 9–16, Oct. 16–22, 24–28, Oct. 30 to Nov. 19, Nov. 21 to Dec. 6, and Dec. 8–31, 1925, and Jan. 1–6, Jan. 8 to Mar. 6, Mar. 8, 10–23, May 18 to June 7, July 31 to Aug. 8, and Sept. 16, 18–27, 29, and 30, 1926; discharge for these periods determined from comparison of hydrographs for this station and for station on South Fork of Ogden River near Huntsville.

Monthly discharge of South Fork of Ogden River at Artesian Park, near Huntsville Utah, for the years ending September 30, 1925 and 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1925				
June 8–30	154	34	90.7	4,140
July	51	24	32.8	2,020
August	42	15	23.9	1,470
September	18	13	15.1	898
The period				8,530
1925–26				
October			14.3	879
November			17.4	1,040
December			22.5	1,380
January			23.8	1,460
February			27.3	1,520
March	155		97.9	6,020
April	552	112	376	22,400
May	356		153	9,410
June		17	27.4	1,630
July	24	16	18.1	1,110
August		10	12.3	756
September	15		9.9	589
The year	552		66.5	48,200

MIDDLE FORK OF OGDEN RIVER NEAR HUNTSVILLE, UTAH

LOCATION.—In SE. ¼ sec. 11, T. 6 N., R. 1 E., 75 feet downstream from State highway bridge, a quarter of a mile below confluence with Spring Creek, three-quarters of a mile east of Artesian Park, 1 mile above confluence with South Fork, and 1¾ miles northwest of Huntsville, Weber County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—June 22, 1925, to October 28, 1926, when station was discontinued. From June 22 to October 15, 1925, record obtained on Middle Fork above Spring Creek and flow of Spring Creek added.

GAGE.—Stevens continuous water-stage recorder on left bank 75 feet below highway bridge; installed October 23, 1925.

DISCHARGE MEASUREMENTS.—Made by wading or from bridge.

CHANNEL AND CONTROL.—Channel winding, banks low, and right bank overflowed at high stages. Control at low and medium stages is a light riffle just below gage; at higher stages winding channel probably becomes control.

DIVERSIONS.—Below all diversions except two or three small ditches for hay meadows below station.

REGULATION.—None except from diversions.

ACCURACY.—Stage-discharge relation not permanent; changed during winter of 1925–26. Rating curves fairly well defined. Water-stage recorder operated only for periods after each visit by engineer. Daily discharge ascertained by applying mean daily gage height to rating table. Discharge estimated or interpolated for periods of missing gage heights. Records fair.

COOPERATION.—Daily discharge from June 22 to October 15, 1925, furnished by H. W. Browning, Ogden River water commissioner.

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Discharge measurements of Middle Fork of Ogden River near Huntsville, Utah, for the period October 1, 1925, to October 28, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
1925	*Feet*	*Sec.-ft.*	1926	*Feet*	*Sec.-ft.*	1926	*Feet*	*Sec.-ft.*
Oct. 23	0.92	25.4	Mar. 6	0.89	33.8	June 22	0.76	27.0
Oct. 29	.90	24.0	Mar. 7	.75	29.7	Aug. 9	.67	27.3
Nov. 20	.67	16.2	Mar. 24	2.09	90.3	Sept. 17	.16	7.5
			Apr. 14	3.51	214	Oct. 14	.40	13.8
			June 8	.99	35.0			

Daily discharge, in second-feet, of Middle Fork of Ogden River near Huntsville, Utah, for the period June 22, 1925, to October 28, 1926

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1925					1925				
1		41	19	32	16		26	28	27
2		38	17	29	17		26	27	30
3		35	19	31	18		25	29	29
4		34	19	29	19		25	28	34
5		59	18	30	20		25	25	33
6		44	22	30	21		23	25	54
7		40	20	31	22	36	24	26	38
8		37	21	30	23	35	24	26	38
9		29	23	30	24	35	24	24	37
10		28	24	29	25	36	22	23	37
11		26	25	30	26	40	22	24	36
12		25	26	30	27	38	22	48	36
13		24	29	32	28	33	18	32	36
14		24	27	32	29	36	19	27	35
15		25	25	33	30	36	18	28	32
					31		18	29	

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1925-26													
1	34		19				56	180		23		16	26
2	35		55				55	165		22		16	22
3	34		34			20	105	149		22		14	27
4	32		24	14			138	137		20		14	24
5	38		24		13		158	187	40	25	25	16	22
6	41		24			30	213	186		24			23
7	34		23	13		30		167		24			20
8	34		22			32		162	34	42			22
9	29		22		13	33		138	33	38	25		16
10	29	20	22			46	215	121	38	36	26		15
11	36		22			50		117	35	39	24	11	14
12	37		21			56			34	34	24		14
13	36		21			88			38	32	22		14
14	33		19			109	216		38	31	21		14
15	29		18			119	217		34	30	20		14
16			19			134	219		32	29	20		13
17			18			136	220		31	28	20	7	13
18						174	220		30	28	19	7	13
19	27			13	15	119	220		30		20	8	13
20		16				101	220		30		18	8	12
21		16				88	220	75	32		17	9	13
22		16				82	217		30		16	10	12
23	25	15				84	212		28		15	10	12
24	25	16		16		91	207		27		16	11	13
25	25	16				80	206		27	26	15	13	12
26	24	17				69	206		26		14	13	12
27	24	17				62	205		27		15	13	12
28	24	17				57	202		27		17	13	12
29	24	17				49	197		27		16	17	
30	24	18				49	193		25		16	39	
31	24					51					16		

NOTE.—Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Middle Fork of Ogden River near Huntsville, Utah, for the period June 22, 1925, to October 28, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1925				
June 22-30	40	35	36.1	645
July	59	18	28.1	1,730
August	48	17	25.3	1,560
September	54	27	33.0	1,960
The period				5,900
1925-26				
October	41	24	29.7	1,830
November			18.7	1,110
December	55		20.4	1,250
January			13.2	812
February			14.4	800
March	174		68.4	4,210
April	220	55	194	11,500
May	187		104	6,400
June		25	33.1	1,970
July	42	20	27.9	1,720
August		14	20.4	1,250
September	39		12.5	744
The year	220		46.4	33,600
1926				
October 1-28	27	12	16.0	891

JORDAN RIVER BASIN

JORDAN RIVER NEAR LEHI, UTAH

LOCATION.—In sec. 25, T. 5 S., R. 1 W., 800 feet below pump house at outlet of Utah Lake and 4 miles southwest of Lehi, Utah County.

DRAINAGE AREA.—2,570 square miles (measured on topographic maps).

RECORDS AVAILABLE.—May 30 to December 31, 1904; July 22, 1913, to September 30, 1926.

GAGE.—Stevens 8-day water-stage recorder on right bank 25 feet above bridge; operated by W. A. Knight.

DISCHARGE MEASUREMENTS.—Made from cable 400 feet above gage or by wading.

CHANNEL AND CONTROL.—Bed composed of silt and hardpan. Banks clean and low; not subject to overflow. One channel at gage. Area slightly constricted below by highway bridge.

EXTREMES OF DISCHARGE.—Maximum mean daily stage during year, 5.86 feet June 28 (discharge, 845 second-feet); dry March 11–21.

1913–1926: Maximum mean daily stage reported, 7.78 feet June 8, 1923 (discharge, 1,370 second-feet); minimum stage at 6 p. m. December 15, 1915, when river was dry owing to strong north wind that blew water in lake away from outlet gates. River was dry also August 14–15 and September 2, 1919, October 16, 1919, to May 15, 1920, and March 10–21, 1926, because of dam placed in lake outlet.

ICE.—Stage-discharge relation seldom affected by ice.

DIVERSIONS.—None from Jordan River above station. In narrows about 6 miles north (downstream several miles by river) a number of large canals divert for irrigation in Salt Lake Valley and for use by smelters, etc., in vicinity of Garfield.

REGULATION.—During irrigation season, when natural flow from Utah Lake is inadequate for demands below, water is pumped from lake into Jordan River. A pumping plant, capacity about 1,500 second-feet, is at outlet of lake, 800 feet above gage; owned and operated by several canal companies interested in stream. This capacity of 1,500 second-feet includes four units of 200 second-feet installed during winter of 1919–20.

ACCURACY.—Stage-discharge relation affected by backwater from storage at Narrows October 16 to November 13, November 21–23, February 27 and 28. Rating curve well defined. Operation of water-stage recorder satisfactory. Daily discharge ascertained by applying mean daily gage height to rating table. Discharge estimated from one discharge measurement, pump capacities, and weir records at Jordan Narrows when gage heights were affected by backwater. Records fair.

COOPERATION.—Records of mean daily gage height furnished by W. A. Knight, water commissioner.

The following discharge measurement was made:

November 21, 1925: Gage height, 1.81 feet; discharge, 78.7 second-feet.

Daily discharge, in second-feet, of Jordan River near Lehi, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	381		82	88	88	101	97	518	718	840	727	286
2	391		82	88	88	101	97	518	718	840	703	314
3	389		80	88	88	101	97	671	718	815	713	242
4	389		87	88	88	101	97	690	718	835	730	233
5	387		88	88	88	101	97	715	718	835	708	296
6	383		88	88	88	101	97	710	756	838	708	341
7	379	100	88	88	88	101	97	696	756	838	703	373
8	337		88	88	88	101	97	639	744	732	664	242
9	375		88	88	88	101	97	528	744	840	690	219
10	385		88	88	88	77	97	601	751	840	671	330
11	385		88	88	88	0	97	616	751	840	634	395
12	385		88	88	88	0	97	532	751	835	676	459
13	268		88	88	88	0	97	526	763	838	625	365
14	209	101	75	88	88	0	97	522	788	838	664	324
15	124	104	84	88	88	0	159	522	785	830	671	385
16		108	146	88	88	0	243	520	785	820	650	490
17		110	117	88	88	0	252	614	820	785	671	425
18		111	117	88	88	0	252	628	810	763	667	334
19		110	110	88	88	0	250	623	812	751	431	330
20		93	113	88	88	0	248	616	713	761	561	417
21		80	110	88	88	0	248	614	812	763	634	397
22		80	110	88	88	5	247	614	828	763	530	326
23	100	81	110	88	88	10	245	612	812	739	509	235
24		82	110	88	88	10	245	594	815	754	520	103
25		81	110	88	88	10	243	572	818	739	526	166
26		82	99	88	88	18	461	667	835	737	520	301
27		82	88	88	101	50	520	690	835	727	403	343
28		82	88	88	101	97	524	687	845	730	452	417
29		82	88	88	-------	97	522	683	842	715	515	463
30		82	88	88	-------	97	528	706	840	718	484	423
31		-------	88	88	-------	97	-------	718	-------	715	183	------

NOTE.—Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Jordan River near Lehi, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	391	----------	218	13,400
November	111	80	95.0	5,650
December	146	75	95.9	5,900
January	88	88	88.0	5,410
February	101	88	88.9	4,940
March	101	0	47.6	2,930
April	528	97	218	13,000
May	718	518	618	38,000
June	845	713	780	46,400
July	840	715	788	48,500
August	727	183	598	36,800
September	480	103	329	19,600
The year	845	0	332	241,000

SALT CREEK NEAR NEPHI, UTAH

LOCATION.—In NW. ¼ 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, 2½ miles below mouth of South Fork, and 3½ miles east of Nephi, Juab County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—April 27, 1925, to September 30, 1926.

GAGE.—Vertical enameled staff on left bank; read by J. A. Kendall.

DISCHARGE MEASUREMENTS.—Made by wading or from bridge just below gage.

CHANNEL AND CONTROL.—Bed of gravel; wooded banks; one channel at all stages. Control is a coarse-gravel bar.

EXTREMES OF DISCHARGE.—Maximum stage recorded, 1.60 feet at 6 a. m. April 7 and 6 p. m. May 6 (discharge, 199 second-feet); minimum discharge, 6 second-feet, morning readings January 23–27.

1925–26: Maximum and minimum discharge occurred in 1926.

ICE.—Stage-discharge relation not affected.

DIVERSIONS.—A few small diversions above station.

REGULATION.—None.

ACCURACY.—Stage-discharge relation not permanent; changed October 6, December 2, and May 20–22. Rating curves fairly well defined. Gage read to hundredths twice daily. Daily discharge ascertained by applying mean daily gage height to rating table. Records fair.

Discharge measurements of Salt Creek near Nephi, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Dec. 10	0.38	9.7	May 10	1.03	70.2	June 14	0.39	41.4
Mar. 12	.41	12.2	June 8	.50	56.1	Aug. 27	−.01	13.1

Daily discharge, in second-feet, of Salt Creek near Nephi, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	12	14	9	9	11	22	97	70	31	16	14
2	12	14	19	9	9	12	22	95	71	31	23	15
3	12	14	10	9	9	12	24	95	74	29	22	15
4	12	12	8	9	9	13	28	110	72	28	20	15
5	34	11	10	8	9	10	34	160	65	26	18	14
6	37	11	10	8	9	10	132	173	63	25	19	15
7	12	11	11	8	9	10	187	110	62	25	19	17
8	11	11	10	8	9	12	118	122	60	39	19	16
9	11	12	10	9	10	11	81	110	59	46	18	14
10	11	11	10	9	10	13	78	71	58	35	18	14
11	12	11	10	9	9	12	78	58	58	26	18	14
12	12	11	10	9	9	12	78	57	55	25	18	14
13	12	11	10	9	10	11	90	53	50	25	18	14
14	12	11	9	9	10	12	99	55	47	24	18	14
15	12	12	9	9	11	14	114	64	45	23	18	14
16	11	12	8	9	11	18	127	71	44	22	18	14
17	11	11	9	9	7	18	127	83	40	21	17	14
18	11	12	10	8	7	20	125	88	37	20	16	14
19	11	11	10	9	9	20	139	99	36	20	16	14
20	11	11	11	9	10	20	130	116	35	20	16	14
21	11	11	9	8	11	22	130	122	32	19	16	14
22	11	11	9	8	10	26	132	127	32	19	15	14
23	11	12	9	8	10	30	127	130	32	18	14	14
24	11	12	9	7	10	31	127	108	31	18	15	15
25	11	12	9	7	10	32	112	93	28	18	15	16
26	11	12	9	7	10	30	114	83	30	18	15	16
27	11	12	9	7	10	29	112	72	31	19	15	16
28	11	12	9	8	10	27	110	71	32	18	15	16
29	11	12	9	8	------	26	103	68	32	18	15	18
30	12	12	9	8	------	22	101	68	32	17	14	18
31	12	------	9	8	------	22	------	67	------	16	14	------

Monthly discharge of Salt Creek near Nephi, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	37	11	13.0	799
November	14	11	11.7	696
December	19	8	9.9	609
January	9	7	8.4	516
February	11	7	9.5	528
March	32	10	18.3	1,130
April	187	22	100	5,950
May	173	53	93.4	5,740
June	74	28	47.1	2,800
July	46	16	23.8	1,460
August	23	14	17.0	1,050
September	18	14	14.9	887
The year	187	7	30.6	22,200

PROVO RIVER AT FORKS, UTAH

LOCATION.—In sec. 26, T. 5 S., R. 3 E., at Vivian Park summer resort, just above Forks, Utah County. South Fork enters from left 400 feet downstream.

DRAINAGE AREA.—600 square miles (measured on topographic maps).

RECORDS AVAILABLE.—November 17, 1911, to September 30, 1926. Records have been obtained at various points below the mouth of South Fork since 1890.

GAGE.—Vertical staff on right bank, 16 feet above steel bridge; read by J. F. Carter.

DISCHARGE MEASUREMENTS.—Made by wading or from bridge.

CHANNEL AND CONTROL.—Bed composed of gravel and boulders; fairly permanent. Banks fairly high and not subject to overflow; one channel at all stages. Control is gravel riffle; shifting.

EXTREMES OF DISCHARGE.—Maximum stage recorded during year, 4.39 feet at 3 p. m. May 21 (discharge, 1,250 second-feet); minimum discharge, 135 second-feet January 27 and 28.

1922–1926: Maximum stage recorded, 6.13 feet at 7 p. m. June 11, 1921 (discharge, 3,180 second-feet); minimum discharge, 122 second-feet September 18, 1924.

ICE.—Stage-discharge relation seldom affected by ice.

DIVERSIONS.—Station is below diversions for irrigation in Heber Valley and above those in vicinity of Provo.

REGULATION.—A number of small lakes at headwaters have been utilized as storage reservoirs, and flow is regulated to slight extent.

ACCURACY.—Stage-discharge relation assumed to have changed slightly October 1 to November 12, May 6, and June 18 to July 24. Rating curves well defined between 150 and 1,200 second-feet. Gage read to hundredths daily. Daily discharge ascertained by applying daily gage height to rating table except October 1 to November 12 and June 18 to July 24, when shifting-control method was used. Records good.

COOPERATION.—Nine discharge measurements furnished by Utah Power & Light Co.

Discharge measurements of Provo River at Forks, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 5	2.38	260	May 14	2.65	411	July 15	2.17	195
Jan. 7	2.25	200	May 21	4.37	1,240	July 23	2.03	174
Mar. 9	2.37	260	June 2	2.91	499	Aug. 12	2.12	201
Apr. 14	2.88	449	June 15	2.17	218	Sept. 8	1.99	170
May 6	4.00	975	July 1	2.15	202	Sept. 10	1.94	156

Daily discharge, in second-feet, of Provo River at Forks, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	228	211	253	211	215	232	275	540	548	206	177	159
2	228	246	290	239	211	239	297	463	504	203	177	159
3	222	335	305	232	215	253	327	451	465	203	209	159
4	208	290	253	232	205	256	414	463	474	203	203	159
5	215	260	253	225	205	246	455	675	453	200	197	159
6	286	246	242	215	211	239	558	980	394	200	209	159
7	250	242	239	218	215	239	575	780	370	200	222	164
8	239	250	260	211	208	246	584	840	322	200	248	164
9	236	253	253	211	218	253	523	800	299	203	222	159
10	232	250	256	205	267	282	455	639	307	209	216	157
11	239	246	253	205	239	286	463	461	277	222	209	159
12	256	242	253	191	253	293	447	470	255	212	206	162
13	256	256	260	185	260	339	439	465	235	200	203	155
14	256	250	253	178	225	422	443	394	222	194	203	150
15	250	232	225	198	242	472	447	378	219	191	197	145

Daily discharge, in second-feet, of Provo River at Forks, Utah, for the year ending September 30, 1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
16	250	246	246	185	218	463	472	427	219	191	191	141
17	250	239	246	185	215	523	514	453	216	189	194	141
18	242	239	253	211	211	558	540	761	212	191	194	141
19	246	242	253	218	191	455	593	800	216	194	186	143
20	246	232	246	205	208	418	657	861	222	191	180	143
21	246	246	225	153	218	382	675	1,190	219	189	180	141
22	246	246	253	205	222	374	666	1,090	222	175	177	141
23	246	239	250	159	232	378	684	986	219	175	172	141
24	239	260	250	185	211	390	647	923	222	172	167	141
25	228	253	246	191	222	343	638	856	212	177	164	141
26	228	253	242	147	228	305	629	667	203	177	164	143
27	228	253	242	135	218	282	634	566	203	180	162	147
28	228	253	225	135	225	267	624	530	206	197	162	152
29	228	250	225	205	------	260	580	495	203	189	162	152
30	222	250	211	211	------	275	558	530	203	183	162	222
31	222	------	185	205	------	290	------	621	------	177	159	------

Monthly discharge of Provo River at Forks, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	286	208	239	14,700
November	335	211	250	14,900
December	305	185	247	15,200
January	239	135	196	12,100
February	267	191	222	12,300
March	558	232	331	20,400
April	684	275	527	31,400
May	1,190	378	663	40,800
June	548	203	285	17,000
July	222	172	193	11,900
August	248	159	189	11,600
September	222	141	153	9,100
The year	1,190	135	292	211,000

SOUTH FORK OF PROVO RIVER AT FORKS, UTAH

LOCATION.—In sec. 26, T. 5 S., R. 3 E., at Vivian Park summer resort, just above Forks, Utah County, a quarter of a mile above confluence with Provo River, and 12 miles up Provo Canyon on highway and railroad from Provo to Heber.

DRAINAGE AREA.—30 square miles (measured on topographic maps).

RECORDS AVAILABLE.—November 17, 1911, to September 30, 1926.

GAGE.—Vertical staff nailed to cottonwood tree on right bank read by J. F. Carter and G. C. Purvance.

DISCHARGE MEASUREMENTS.—Made from foot log near gage or by wading.

CHANNEL AND CONTROL.—Bed composed of gravel; shifting. One channel at all stages; banks low but rarely overflowed.

EXTREMES OF DISCHARGE.—Maximum discharge recorded during year, 55 second-feet May 5; minimum, 18 second-feet during parts of June and July.

1911–1926: Maximum discharge, 123 second-feet May 27, 1922; minimum, 14 second-feet, April 17, 1925.

ICE.—Stage-discharge relation affected by ice.

DIVERSIONS.—Below all diversions.

REGULATION.—None except by irrigation.

ACCURACY.—Stage-discharge relation changed frequently. Standard rating curve fairly well defined. Gage read to hundredths once a day. Daily discharge ascertained by applying gage height to rating table, using shifting-control method. Records fair.

COOPERATION.—Nine discharge measurements furnished by Utah Power & Light Co.

Discharge measurements of South Fork of Provo River at Forks, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 5	1.32	24.3	May 14	1.31	26.7	Aug. 12	1.32	26.2
Jan. 7	1.30	28.7	May 21	1.38	31.9	Sept. 8	1.27	21.7
Mar. 9	1.28	22.3	June 15	1.24	18.8			
Apr. 14	1.32	25.9	July 15	1.27	22.4			

Daily discharge, in second-feet, of South Fork of Provo River at Forks, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	26	28	29	24	20	22	24	22	18	21	21
2	28	27	31	29	23	20	22	23	20	18	21	21
3	28	30	28	29	23	21	22	23	20	18	21	21
4	29	28	28	29	23	21	22	28	20	18	21	21
5	29	27	28	29	23	21	24	55	20	18	20	21
6	31	27	27	29	23	21	29	40	20	18	20	23
7	31	24	28	29	23	21	29	37	20	18	40	23
8	29	24	29	28	23	21	28	38	18	18	45	22
9	29	26	28	28	22	22	28	37	18	23	35	21
10	29	27	28	29	24	21	28	38	18	22	31	21
11	34	27	28	28	23	21	28	31	18	21	29	21
12	34	26	28	27	23	21	28	29	18	22	28	21
13	34	28	29	27	23	22	28	29	18	22	33	22
14	31	26	28	27	23	22	27	28	18	22	31	22
15	30	26	28	27	23	22	28	26	18	22	31	22
16	29	28	28	27	21	23	28	26	18	22	31	22
17	29	26	28	27	21	23	28	26	18	22	24	22
18	29	28	28	27	21	23	28	25	18	22	22	22
19	27	28	29	26	22	22	28	24	18	22	21	22
20	27	28	28	26	22	22	28	27	18	22	20	22
21	27	28	28	26	22	23	28	31	18	22	20	22
22	27	26	28	26	22	23	28	35	18	22	20	22
23	27	26	28	26	20	23	28	35	18	22	20	22
24	26	27	28	26	20	23	28	35	18	22	22	22
25	26	28	28	26	21	23	27	35	18	22	22	22
26	26	28	28	25	20	22	27	31	19	27	20	22
27	26	28	28	25	20	22	26	29	19	25	20	22
28	26	27	28	24	20	22	26	26	19	23	21	22
29	26	28	28	24	-------	22	26	22	18	23	22	22
30	26	28	28	24	-------	22	26	22	18	22	22	23
31	26	-------	28	24	-------	22	-------	22	-------	22	22	------

Monthly discharge of South Fork of Provo River at Forks, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	34	26	28.5	1,750
November	30	24	27.0	1,610
December	31	27	28.2	1,730
January	29	24	26.9	1,650
February	24	20	22.1	1,230
March	23	20	21.8	1,340
April	29	22	26.8	1,590
May	55	22	30.2	1,860
June	22	18	18.6	1,110
July	27	18	21.3	1,310
August	45	20	25.0	1,540
September	23	21	21.8	1,300
The year	55	18	24.9	18,000

SEVIER LAKE BASIN

SEVIER RIVER AT HATCH, UTAH

LOCATION.—In SE. ¼ sec. 28, T. 36 S., R. 5 W., at county bridge a quarter of a mile east of J. C. Barnhurst's house at Hatch, Garfield County, and 1½ miles below dam site of former Hatchtown Reservoir.

DRAINAGE AREA.—260 square miles (measured on topographic maps).

RECORDS AVAILABLE.—June 3, 1911, to September 30, 1926; fragmentary.

GAGE.—Stevens continuous water-stage recorder on left bank; inspected by J. C. Barnhurst.

DISCHARGE MEASUREMENTS.—Made from bridge or by wading.

CHANNEL AND CONTROL.—One channel at all stages. Bed composed of sand and gravel.

EXTREMES OF DISCHARGE.—Maximum stage during year, 2.98 feet at 2 a. m. May 23 (discharge, 643 second-feet); minimum not recorded.

1911–1926: Maximum stage, about 9 p. m. May 25, 1914, when Hatchtown Reservoir Dam failed (discharge not determined). Maximum stage recorded, 5.25 feet at 4 a. m. May 26, 1922 (discharge, 1,490 second-feet); minimum discharge, 10 second-feet on days in January, March, and April, 1912, while water was being stored at Hatchtown Reservoir.

ICE.—Stage-discharge relation slightly affected by ice.

DIVERSIONS.—Above all diversions, except Hatch Bench Canal and Panguitch Lake ditch, which divert a small quantity of water from Mammoth Creek.

REGULATION.—No regulation since Hatchtown Reservoir Dam failed May 25, 1914.

ACCURACY.—Stage-discharge relation shifted slightly during year. Normal rating curve well defined. Water-stage recorder operated satisfactorily except as stated in footnote to table of daily discharge. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Parallel shift used from October 25 to December 4. Records good; estimates fair.

COOPERATION.—Station maintained and records compiled in cooperation with Sevier River water commissioner.

Discharge measurements of Sevier River at Hatch, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 25	0.80	76.3	May 30	1.82	348	Aug. 11	0.74	75.0
Jan. 31	.62	58.7	June 13	1.28	183	Sept. 1	.70	67.7
Apr. 12	.81	88.3	June 19	1.10	131	Sept. 22	.68	63.7
May 5	2.07	420	July 18	.85	86.8			

Daily discharge, in second-feet, of Sevier River at Hatch, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		70	61	60		70	60	339	352	107	87	68
2		78	64	62		73	58	358	325	114	89	68
3		73	58	65		78	60	349	286	114	86	70
4		68	55		57	76	58	368	264	110	82	70
5		71				74	64	435	255	109	81	71
6		70				70	70	454	249	109	92	70
7		68			57	64	84	427	235	105	87	76
8		68				62	112	380	223	99	92	74
9		68				64	91	352	215	99	91	73
10		68		65		64	81	315	210	99	82	71
11		68				64	81	295	205	96	74	71
12		70				62	84	295	197	94	73	71
13	73	68				61	87	292	184	94	71	68
14		70			58	65	84	305	174	92	89	67
15		68				68	91	332	169	92	91	67
16		70		65		64	103	416	162	92	84	67
17		71				64	120	467	157	92	79	65
18		74	55			65	135	497	150	92	78	65
19		71				64	133	529	141	94	76	65
20		71			60	64	118	572	146	96	76	65
21		71				62	120	589	135	98	76	65
22		71				62	130	591	130	98	76	65
23		71		62		65	152	584	124	98		65
24		70				67	176	557	120	94		65
25	76	71			60	64	200	518	122	94		65
26	74	68				61	250	478	118	96	72	68
27	74	67				60	300	444	114	94		65
28	73	65				58	350	401	110	103		65
29	71	62		60		57	350	389	122	96		74
30	70	62		58		57	350	377	116	89		73
31	70			57		58		365		87		

NOTE.—No gage-height record Oct. 1–24, Dec. 5 to Jan. 2, Jan. 4–15, 17–28, 30, Feb. 1–6, 8–19, 21–28, Mar. 1, Apr. 25–30, and Aug. 23–31; discharge estimated. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Sevier River at Hatch, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October			72.9	4,480
November	78	62	69.4	4,130
December	61		55.6	3,420
January		57	62.9	3,870
February			58.4	3,240
March	78	57	64.7	3,980
April	350	58	138	8,210
May	591	292	422	25,900
June	352	110	184	10,900
July	114	87	98.2	6,040
August	92		79.4	4,880
September	76	65	68.4	4,070
The year	591		115	83,100

SEVIER RIVER NEAR CIRCLEVILLE, UTAH

LOCATION.—In sec. 29, T. 31 S., R. 4 W., 2½ miles above mouth of Pine Creek and 8 miles southwest of Circleville, Piute County.

DRAINAGE AREA.—950 square miles (measured on topographic maps).

RECORDS AVAILABLE.—May 10 to September 19, 1912; April 23, 1914, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder; inspected by J. A. Betenson.

DISCHARGE MEASUREMENTS.—Made from cable or by wading.

CHANNEL AND CONTROL.—One channel at all stages. Bed composed of sand; shifting.

EXTREMES OF DISCHARGE.—Maximum stage during year, 4.45 feet at 7 p. m. May 23 (discharge, 465 second-feet); minimum, 1.99 feet from 10 a. m. to 4 p. m. June 24 (discharge, 45 second-feet).

1912–1926: Maximum stage occurred in 1914 during flood resulting from failure of Hatchtown Dam (discharge not determined). Maximum discharge recorded, 1,600 second-feet August 6, 1916, and May 30, 1922; minimum, 45 second-feet June 19, 1924, and June 24, 1926.

ICE.—Stage-discharge relation affected by ice.

DIVERSIONS.—Above all diversions for Circle Valley; below several diversions for Hatchtown project and Panguitch Valley.

REGULATION.—Flow affected by diversions only.

ACCURACY.—Stage-discharge relation changed slightly August 10–22. Rating curve well defined. Water-stage recorder operated satisfactorily, except as stated in footnote to daily-discharge table. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph; shifting-control method used August 10–22. Records good; estimates fair.

COOPERATION.—Station maintained and records compiled in cooperation with Sevier River water commissioner.

Discharge measurements of Sevier River near Circleville, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 1	2.90	143	May 30	3.30	222	July 19	2.08	50.2
Apr. 11	2.94	145	June 20	2.10	55.5	Aug. 10	2.52	106
May 4	3.91	337	July 3	2.14	56.5	Sept. 24	2.22	63.8

Daily discharge, in second-feet, of Sevier River near Circleville, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	127	134		127	340	205	54	62	64
2	127			133	340	199	53	65	64
3	127			124	344	190	59	62	59
4	158			111	336	175	67	60	60
5	333			116	340	175	86	76	60
6	195			147	384	150	81	85	62
7	197			153	362	140	81	95	66
8	197			189	330	121	75	160	65
9	193			176	300	114	64	240	62
10	197			158	265	108	60	103	61
11	187			147	235	98	59	93	64
12	176			152	200	94	58	93	65
13	176			165	176	87	56	92	64
14	164			162	182	81	54	93	63
15	153			162	178	76	53	101	61

Daily discharge, in second-feet, of Sevier River near Circleville, Utah, for the year ending September 30, 1926—Continued

Day	Oct.	Nov.	Mar.	Apr.	May	June	July	Aug.	Sept.
16	148			169	215	73	56	100	60
17	145			182	257	72	54	97	60
18	140			186	280	64	53	87	61
19	138			203	312	60	52	82	62
20	134			195	347	55	50	80	62
21	132			176	409	52	50	78	61
22	134			176	409	49	48	76	60
23	134			193	432	48	48		64
24	132			213	435	46	48		66
25	128		117	239	396	47	49		71
26	128		117	266	358	47	53	70	76
27	127		111	289	325	46	60		75
28	127		111	310	290	47	94		74
29	130		107	325	255	48	76		76
30	130		107	331	225	51	66		78
31	128		116		219		62	60	

NOTE.—No record Nov. 2 to Mar. 24. No gage-height record May 8–12, 27–29, June 3–7, Aug. 6–9, 23–30, and Sept. 25; discharge estimated. Braced figure shows estimated mean discharge for period indicated.

Monthly discharge of Sevier River near Circleville, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	197	127	156	9,590
April	331	111	189	11,200
May	435	176	306	18,800
June	205	46	93.9	5,590
July	94	48	60.6	3,730
August	240	60	87.1	5,360
September	78	59	64.9	3,860

SEVIER RIVER NEAR KINGSTON, UTAH

LOCATION.—In NW. ¼ sec. 16, T. 30 S., R. 3 W., 1 mile west of Kingston, Piute County, and 2 miles above mouth of East Fork.

DRAINAGE AREA.—1,110 square miles (measured on topographic maps).

RECORDS AVAILABLE.—June 12, 1914, to September 30, 1926; also several miscellaneous measurements in 1911, published in Water-Supply Paper 310 as "South Fork near Junction, Utah."

GAGE.—Stevens continuous water-stage recorder on left bank; inspected by W. S. Price.

DISCHARGE MEASUREMENTS.—Made from cable or by wading.

CHANNEL AND CONTROL.—One channel at all stages. Concrete control 10 feet below gage.

EXTREMES OF DISCHARGE.—Maximum stage during year, 2.01 feet at 3 a. m. October 6 (discharge, 377 second-feet); minimum, 0.71 foot at 5 p. m. July 1 (discharge, 11 second-feet).

1914–1926: Maximum stage recorded, 4.92 feet at 4 p. m. May 21, 1922 (discharge, 1,460 second feet); minimum discharge, 11 second-feet July 4, 1924, and July 1, 1926.

ICE.—Stage-discharge relation usually affected by ice.

DIVERSIONS.—Below all diversions from main stream above Piute Reservoir.

REGULATION.—Flow affected by diversions for irrigation.

ACCURACY.—Stage-discharge relation permanent during year. Rating curve well defined. Operation of water-stage recorder satisfactory, except as stated in footnote to table of daily discharge. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records fair.

COOPERATION.—Station maintained and records compiled in cooperation with Sevier River water commissioner.

Discharge measurements of Sevier River near Kingston, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 24	1.35	131	May 29	1.38	134	Aug. 2	0.80	18.6
Feb. 4	1.38	139	June 18	.84	25.4	Aug. 10	1.08	64.8
Apr. 16	1.51	176	July 2	.79	21.2	Sept. 18	.80	19.6
May 4	1.61	214	July 17	.81	22.0			

Daily discharge, in second-feet, of Sevier River near Kingston, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	62	112	146	137		168	149	219	95	16	20	23
2	53	121	155	137	125	191	162	215	98	17	20	23
3	41	123	149	135		191	162	219	81	19	20	23
4	38	112	140	135	137	194	149	215	62	19	19	23
5	152	110	143	138	134	191	143	212	49	23	20	24
6	273	105	149	143	131	168	152	249		24	24	23
7	149	105	152	135	129	158	177		37	21	29	23
8	149	108	135	129	129	149	184	195		23	40	23
9	152	110	129	123	137	155	215		25	21	130	21
10	158	110	126	123	135	162	194	143	25	21	72	20
11	165	110	123	123	132	155	177	108	25	21	51	19
12	152	112	126		126	152	174	81	26	21	44	19
13	143	105	126		135	155	188	68	25	20	46	20
14	140	105	121		129	174	181	57	23	18	41	23
15	155	100	123	110	136	188	181	55	20	19	39	21
16	140	121	137		143	181	184	60	24	19	47	23
17	129	123	152		137	171	198	123	23	21	46	23
18	123		140	105	121	152	205	140	25	20	36	21
19	115		126		123	137	215	162	24	20	30	23
20	115	135	115		143	137	212	194	20	23	29	23
21	118		115		146	137	191	253	21	24	29	21
22	126		137		137	132	171	277	21	21	28	18
23	126		123	105	137	135	168	298	20	19	28	19
24	126	149	126		129	132	168	306	20	21	26	23
25	121	143	123		135	129	171	302	18	23	26	23
26	115	146	123		135	132	198		17	18	25	23
27	115	140	123		137	129	223	220	17	18	24	25
28	115	143	123	110	149	123	230		18	21	23	26
29	115	137	129			118	234	143	18	20	23	28
30	110	137	135	115		123	226	146	18	20	23	33
31	110		140			129		123		20	23	

NOTE.—No gage-height record Nov. 18-23, Jan. 5, 12-17, 19-27, 29-31, Feb. 1-3, 5, 6, 15, May 7-9, 26-28, June 6-8, Aug. 8, 9; discharge estimated. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Sevier River near Kingston, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	273	38	126	7,750
November	149	100	123	7,320
December	155	115	133	8,180
January	143	----------	117	7,190
February	149	----------	133	7,390
March	194	118	153	9,410
April	234	143	186	11,100
May	306	55	181	11,100
June	98	17	32.3	1,920
July	24	16	20.4	1,250
August	130	19	34.9	2,150
September	33	18	22.7	1,350
The year	306	16	105	76,100

PIUTE RESERVOIR NEAR MARYSVALE, UTAH

LOCATION.—In NW. ¼ sec. 3, T. 29 S., R. 3 W., at Piute Dam, 11 miles south of Marysvale, Piute County.

RECORDS AVAILABLE.—March 22, 1914, to September 30, 1926.

GAGE.—Iron pins driven every foot into rock face at outlet gates; readings between foot marks are measured with a graduated scale.

COOPERATION.—Gage-height record furnished by Piute Reservoir & Irrigation Co.

Daily contents, in acre-feet, of Piute Reservoir near Marysvale, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,400	2,940	9,000	18,300	28,000	37,400	40,400	39,500	38,800	19,300	4,320	125
2	5,680	3,180	9,200	18,700	28,400	37,800	40,300	39,500	38,600	18,400	4,290	160
3	4,920	3,420	9,400	19,000	28,600	38,100	40,500	39,500	38,200	17,600	4,020	175
4	4,200	3,600	9,600	19,400	29,000	38,400	40,500	39,500	37,800	17,000	3,420	170
5	3,600	3,780	9,800	19,700	29,200	38,800	40,600	39,400	37,200	16,600	3,000	180
6	3,540	3,900	10,000	20,000	29,600	39,100	40,700	39,300	36,600	16,100	2,500	190
7	3,300	4,020	10,300	20,300	30,000	39,500	40,900	39,300	36,200	15,800	2,100	175
8	3,000	4,200	10,600	20,500	30,400	39,600	41,200	39,300	35,800	15,200	1,960	125
9	2,600	4,320	10,900	20,000	30,800	39,800	41,800	39,500	35,500	14,800	1,840	125
10	2,300	4,470	11,200	21,300	31,100	40,100	42,200	39,300	25,000	14,500	1,780	115
11	2,080	4,640	11,600	21,700	31,400	40,300	42,400	39,000	34,500	14,000	1,920	100
12	1,900	4,850	12,000	21,900	31,800	40,500	42,400	38,700	34,200	13,600	2,100	70
13	1,720	4,990	12,400	22,200	32,000	40,600	42,300	38,400	34,000	13,200	2,040	40
14	1,720	5,160	12,600	22,600	32,500	40,600	42,100	38,100	33,400	12,600	1,920	10
15	1,800	5,360	12,800	23,000	32,800	40,700	42,000	37,800	32,400	12,200	1,840	0
16	1,880	5,560	13,000	23,400	33,200	40,900	41,800	37,400	32,100	11,700	1,720	360
17	1,960	5,760	13,400	23,800	33,600	41,000	41,600	37,200	31,400	11,300	1,620	500
18	2,000	5,920	13,700	24,200	34,100	40,900	41,300	37,100	30,800	10,900	1,500	640
19	2,020	6,120	14,000	24,400	34,500	41,000	41,200	37,000	30,200	10,500	1,340	750
20	2,040	6,320	14,400	24,800	35,000	41,000	41,100	37,100	29,400	10,100	1,250	1,020
21	2,060	6,520	14,700	24,900	35,400	41,000	40,700	37,600	28,600	9,700	1,040	1,190
22	2,080	6,760	15,100	25,100	35,700	41,100	40,600	38,100	28,000	9,200	750	1,370
23	2,100	7,000	15,500	25,400	36,000	40,900	40,100	38,600	27,000	8,600	600	1,640
24	2,140	7,240	15,900	25,600	36,200	40,900	39,700	39,000	26,200	7,960	540	1,860
25	2,200	7,520	16,300	26,000	36,400	40,800	39,400	39,500	25,500	7,360	340	2,040
26	2,300	7,780	16,700	26,200	36,600	40,700	39,200	39,600	24,400	6,720	200	2,100
27	2,400	8,000	16,900	26,600	36,700	40,700	39,300	39,600	23,600	5,920	155	1,980
28	2,480	8,280	17,100	26,800	37,100	40,600	39,400	39,600	22,500	5,280	160	1,920
29	2,550	8,500	17,400	27,200	--------	40,500	39,500	39,500	21,400	4,710	135	1,880
30	2,620	8,750	17,700	27,400	--------	40,300	39,500	39,300	20,400	4,500	130	1,860
31	2,700	--------	18,000	27,800	--------	40,300	--------	39,100	--------	4,410	100	--------

SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UTAH

LOCATION.—In sec. 34, T. 28 S., R. 3 W., 700 yards below dam of Piute Reservoir and 11 miles south of Marysvale, Piute County.

DRAINAGE AREA.—2,440 square miles (measured on topographic maps).

RECORDS AVAILABLE.—May 17 to August 31, 1911; May 1, 1912, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on left bank; inspected by M. C. Jensen.

DISCHARGE MEASUREMENTS.—Made from cable or by wading.

CHANNEL AND CONTROL.—Bed composed of sand and gravel. One channel at all stages. Control is riffle of heavy gravel and rocks immediately below gage; shifts occasionally.

EXTREMES OF DISCHARGE.—1911–1926: Maximum stage, 4.45 feet between 6 p. m. May 23 and 8 a. m. May 24, 1922 (discharge, 2,600 second-feet); practically no flow when reservoir gates are closed.

ICE.—Stage-discharge relation slightly affected by ice.

DIVERSIONS.—No water diverted between station and Piute Reservoir.

REGULATION.—Flow regulated by operation of gates at dam.

ACCURACY.—Stage-discharge relation changed slightly several times during the year when sediment was deposited in channel, owing to sudden opening of gates at reservoir. Normal rating curve well defined. Operation of water-stage recorder satisfactory. Daily discharge ascertained by applying mean daily gage height to rating table, using shifting-control method from June 18 to August 10 and September 26–30. Records good.

COOPERATION.—Station maintained and records compiled in cooperation with Sevier River water commissioner.

Discharge measurements of Sevier River below Piute Dam, near Marysvale, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Apr. 10	0.90	153	July 20	2.06	528	Aug. 13	1.47	338
May 4	1.40	311	Aug. 2	1.28	250	Sept. 18	.41	62.0
June 21	1.94	517	Aug. 3	1.78	463	Sept. 24	.07	26.4
July 4	2.19	651	Aug. 6	1.67	434			
July 17	2.07	535	Do	1.67	433			

Daily discharge, in second-feet, of Sevier River below Piute Dam, near Marysvale, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	331	129	121			35	162	268	327	658	264	229
2	417	127	121			34	162	264	347	658	251	238
3	430	127	121			34	159	251	377	652	460	241
4	417	127	121			34	108	289	377	652	460	241
5	417	127	113	2		34	80	307	386	652	450	245
6	408	125	89			44	72	307	412	658	435	241
7	390	125	88			64	59	300	368	652	422	235
8	386	125	75			88	48	245	311	600	412	229
9	373	123	75			92	51	248	296	534	399	226
10	360	121	75	19		94	131	241	293	534	282	220
11	351	121	63	31		111	205	232	296	534	229	211
12	347	123	58	10	2	167	226	251	307	534	258	205
13	293	125	58			170	293	268	364	534	335	191
14	220	125	58			167	296	261	377	534	331	186
15	214	125	54	2		197	307	254	377	534	335	162
16	197	125	34			175	327	223	377	534	339	127
17	197	125	33			145	327	220	377	534	339	131
18	197	123	33	15		140	368	226	394	534	335	122
19	194	123	21	26		149	368	197	475	534	335	69
20	194	123		11		157	373	125	480	529	331	70
21	194	125				164	381	76	490	529	335	55
22	197	127				164	360	78	540	534	319	33
23	183	127				164	381	152	570	534	300	26
24	177	127			5	164	377	180	588	529	282	26
25	177	125	2		26	164	364	282	600	518	271	28
26	180	123		2	34	164	319	335	626	490	251	157
27	175	123			34	164	315	335	632	470	238	152
28	170	123			34	170	323	343	652	465	235	145
29	164	123			-------	188	303	356	665	440	229	145
30	164	121			-------	188	264	351	658	285	223	145
31	152	-------			-------	175	-------	356	-------	271	220	-------

NOTE.—Reservoir gates closed, seepage only, Dec. 20 to Jan. 9, Jan. 13–17, and Jan. 21 to Feb. 23. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Sevier River below Piute Dam, near Marysvale, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	430	152	267	16,400
November	129	121	125	7,440
December	121	(a)	46.3	2,850
January	31	(a)	5.2	320
February	34	(a)	6.4	355
March	197	34	129	7,930
April	381	48	250	14,900
May	356	76	252	15,500
June	665	293	445	26,500
July	658	271	537	33,000
August	460	220	320	19,700
September	245	26	158	9,400
The year	665	(a)	212	154,000

a Reservoir gates closed; seepage water only.

SEVIER RIVER AT SEVIER, UTAH

LOCATION.—In E. ½ sec. 32, T. 25 S., R. 4 W., at Sevier, Sevier County, 100 yards above railroad bridge on Y spur of Denver & Rio Grande Western Railroad. Clear Creek enters Sevier River immediately above this station. Prior to November 15, 1916, Clear Creek entered 45 yards below the station.

DRAINAGE AREA.—2,850 square miles, including Clear Creek, which was diverted into Sevier River above this station November 15, 1916; 2,700 square miles exclusive of Clear Creek. Areas measured on topographic maps.

RECORDS AVAILABLE.—May 20, 1911, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on right bank; inspected by R. W. Levie and P. Carter.

DISCHARGE MEASUREMENTS.—Made from cable or by wading.

CHANNEL AND CONTROL.—Channel straight; composed of gravel. Banks seldom overflowed. Control composed of coarse gravel about 75 feet below gage; somewhat shifting.

EXTREMES OF DISCHARGE.—Maximum stage during year, 4.71 feet at noon July 6 (discharge, 742 second-feet); minimum not recorded.

1911–1926: Maximum discharge (estimated), 2,800 second-feet during last week in May, 1922; minimum stage recorded, 1.15 feet at 2 p. m. November 27, 1919 (discharge, 10 second-feet).

ICE.—Stage-discharge relation affected by ice.

DIVERSIONS.—A few small ditches divert between station and Piute Dam.

REGULATION.—Flow largely controlled by operation of gates at Piute Dam, about 27 miles upstream.

ACCURACY.—Stage-discharge relation changed during high water in July. Rating curves well defined. Water-stage recorder operated successfully except for short periods during winter. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records good; estimated periods fair.

COOPERATION.—Station maintained and records compiled in cooperation with Sevier River water commissioner.

Discharge measurements of Sevier River at Sevier, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 27	3.46	209	May 28	4.31	536	July 4	4.67	711
Feb. 5	2.83	39.0	June 2	4.48	600	Sept. 28	3.32	172
Apr. 9	3.11	94.4	June 14	4.29	484			
May 3	4.08	409	June 22	4.49	606			

Daily discharge, in second-feet, of Sevier River at Sevier, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	291	180	140	42	36	68	212	427	611	735	310	246
2	384	163	143			70	205	423	599	729	294	258
3	434	159	137			68	205	415	623	722	354	266
4	434	159	119	40		64	201	427	617	716	450	272
5	442	159	125		38	68	140	500	599	722	472	272
6	431	159	128	40	38	64	122	505	617	735	442	275
7	427	159	114		38	70	122	477	605	735	434	269
8	412	159	109		36	86	114	434	570	729	434	266
9	398	159	98		36	98	98	387	482	678	415	256
10	387	152	96	60	36	106	101	370	459	660	398	256
11	387	146	96	60	38	106	222	360	442	648	272	253
12	364	144	88	40	36	119	263	354	431	635	266	246
13	380	142	86		40	159	304	364	434	611	310	233
14	304	141	82		38	205	341	370	482	605	360	215
15	272	140	78	36	38	222	350	377	482	599	357	212
16	266	140	74		40	256	380	390	472	588	360	173
17	246	140	70	36	35	219	401	398	459	594	360	143
18	239	140	70	34	35	201	415	431	454	582	360	143
19	239	140	60	33	42	201	446	454	500	576	354	128
20	239	140	60	50	43	212	442	486	565	576	350	93
21	239	140	60	40	42	215	450	415	570	570	344	77
22	239	140		33	36	215	442	412	599	565	350	64
23	239	140		33	38	215	450	431	635	565	332	50
24	233	141		33	38	215	468	427	660	565	313	47
25	226	142	54			212	491	446	660	553	297	43
26	208	143			65	208	486	521	678	537	288	68
27	205	143		35		205	459	495	691	505	269	180
28	205	140				201	477	495	710	491	259	176
29	205	137	48		-------	215	486	521	722	495	256	169
30	205	140	46		-------	229	463	526	735	419	250	169
31	205	-------	44		-------	233	-------	553	-------	319	243	------

NOTE.—No gage-height record Nov. 12–14, 16–21, 23–25, Dec. 15, 16, 18, 19, 22–28, 30, 31, Jan. 1–3, 5–9, 11–16, 18, 20–23, 25–30, Feb. 1–4, 25–28; discharge estimated. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Sevier River at Sevier, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	442	205	303	18,600
November	180	137	148	8,810
December	143	----------	82.2	5,050
January	----------	----------	38.9	2,390
February	----------	----------	41.6	2,310
March	256	64	162	9,960
April	491	98	325	19,300
May	553	354	438	26,900
June	735	431	572	34,000
July	735	319	605	37,200
August	472	243	340	20,900
September	275	43	184	10,900
The year	735	----------	272	196,000

SEVIER RIVER NEAR VERMILION, UTAH

LOCATION.—In NE. ¼ sec. 19, T. 22 S., R. 1 W., at highway bridge half a mile below Rockyford Dam, 2 miles below Vermilion, Sevier County, and 4 miles above mouth of Lost Creek.

DRAINAGE AREA.—3,340 square miles (measured on topographic maps).

RECORDS AVAILABLE.—July 15 to September 23, 1912; July 31, 1914, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on right bank; inspected by Orson Wilkinson.

DISCHARGE MEASUREMENTS.—Made by wading or from highway bridge.

CHANNEL AND CONTROL.—Fairly permanent.

EXTREMES OF DISCHARGE.—1914–1926: Maximum stage, about 8.1 feet May 30, 1922 (discharge, 2,400 second-feet); minimum discharge, about 1 second-foot July 16–18, 1923 (seepage only).

ICE.—Stage-discharge relation seldom affected by ice.

DIVERSIONS.—Entire flow usually diverted above station during low-water season. Flow past station at such times represents seepage and return flow from canals.

REGULATION.—Flow regulated to large extent by dams and reservoirs above.

ACCURACY.—Slight changes in stage-discharge relation for low stages. Normal rating curve well defined. Water-stage recorder operated satisfactorily for intermittent periods. (See footnote to table of daily discharge.) Daily discharge ascertained by applying mean daily gage height to rating table. Discharge estimated for periods of missing gage heights by comparison with other Sevier River and canal stations. Records of daily discharge good; estimates fair.

COOPERATION.—Station maintained and records compiled in cooperation with Sevier River water commissioner.

Discharge measurements of Sevier River near Vermilion, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 15	3.88	63.6	June 11	3.56	25.2	Aug. 1	4.26	100
Apr. 8	3.74	42.0	June 23	3.70	34.6	Aug. 17	4.00	62.3
May 3	3.28	9.5	July 5	39.7	62.3			

Daily discharge, in second-feet, of Sevier River near Vermilion, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	66	109	104		62	15	10	9	27	102	10
2	32	70	109	102			15	10	9	36	102	8
3	32	70	109	102	96	68	16	10	17	45	100	15
4	32	71	111	100			16	10	27	52	98	15
5	35	71	111	100		74	17	16	25	59	98	28
6	40	73	113	100	98	74	24	33	26	65	94	43
7	43	74	115	100	98	71	31	48	25	65	83	42
8	44	76	115	100	98	76	42	62	28	70	54	40
9	55	66	113	100		81	66	55	44	73	66	39
10	62	89	120	98		83	180	59	51	76	73	38
11	62	111	127	98	98	81	92	65	59	81	83	37
12	63	160	129			102	57	47	63	76	89	30
13	63	188	129			113	55	10	63	60	90	32
14	63	180	129	98	98	104	54	9	65	51	85	32
15	63	160	127		-------	104	32	27	63	55	76	45
16	63	117	115		-------	102	10	36	57	70	70	66
17	63	117	111	98	-------	100	10	27	62	71	46	
18	63	117	109	98	-------	98	10	17	59	56	39	58
19	63	117	107	98	-------	92	10	14	54	42	45	
20	63	129	102		-------	81		13	38	42	51	50
21	63	117	102		15	60	10	12	45	56	51	
22	63	115	100		-------	47		12	45	78	48	
23	63	115	102		-------	47		12	36	74	47	51
24	63	115	102		-------	46		11	31	73	38	
25	63	113	102	96	-------	-------	10	10	25	80	35	
26	63	113	102		-------	-------		10	32	81	29	52
27	63	109	102		-------	-------		10	33	82	21	54
28	65	107	102		-------	-------	10	9	32	83	18	55
29	65	107	102		-------	15		9	21	87	17	56
30	65	109	102		-------	15		8	21	89	17	57
31	66	-------	102	94	-------	15	-------	8	-------	94	14	-------

NOTE.—No gage-height record Oct. 1–3, Jan. 12–16, 20–30, Feb. 1–5, 9–13, Mar. 2–4, Apr. 16–18, 20–24, 26–30, May 1, 2, July 26, 27, Sept. 17–19, 21–25, 28–30; discharge estimated. Braced figures show estimated mean discharge for periods indicated. No record Feb. 15–20, 22–28, and Mar. 25–28.

Monthly discharge of Sevier River near Vermilion, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	66	32	56.1	3,450
November	188	66	108	6,430
December	129	100	111	6,820
January	104	94	98.0	6,030
February	98	----------	* 76.7	4,260
March	113	15	* 66.0	4,060
April	180	----------	28.7	1,710
May	65	8	22.2	1,360
June	65	9	38.8	2,310
July	94	27	66.1	4,060
August	102	14	60.6	3,730
September	66	8	42.4	2,520
The year	188	8	64.5	46,700

* Estimated.

SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UTAH

LOCATION.—In NE. ¼ sec. 14, T. 19 S., R. 1 W., 1,000 feet below mouth of San Pitch River and 3 miles west of Gunnison, Sanpete County.

DRAINAGE AREA.—4,880 square miles (measured on topographic maps).

RECORDS AVAILABLE.—October 1, 1917, to September 30, 1926. Records of Sevier River near Gunnison, above confluence with San Pitch River, were obtained June 29, 1900, to September 30, 1917. Combined flow of Sevier River near Gunnison with flow of San Pitch River near Gunnison is comparable with flow at present station.

GAGE.—Stevens continuous water-stage recorder on left bank; inspected by L. D. and Ruben Christensen.

DISCHARGE MEASUREMENTS.—Made from cable 250 feet above gage or by wading.

CHANNEL AND CONTROL.—One channel at all stages. Bed composed of fine sand and gravel; shifts occasionally.

EXTREMES OF DISCHARGE.—Maximum stage during year, 2.56 feet at 11.30 p. m. September 11 (discharge, 562 second-feet); minimum, 1.15 feet September 6 (discharge, 46 second-feet).

1918–1926: Maximum stage, 5.32 feet at 2 a. m. June 1, 1922 (discharge, 2,620 second-feet); minimum discharge, that of September 6, 1926.

ICE.—Stage-discharge relation seldom affected by ice.

DIVERSIONS.—During irrigation season greater part of flow is diverted above station.

REGULATION.—Flow at gage is affected by operation of reservoirs and numerous irrigation diversions above.

ACCURACY.—Stage-discharge relation permanent during year. Rating curve well defined. Operation of water-stage recorder satisfactory except as indicated in footnote to table of daily discharge. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records good.

COOPERATION.—Station maintained and records compiled in cooperation with Sevier River water commissioner.

Discharge measurements of Sevier River below San Pitch River, near Gunnison, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 16	1.81	206	May 9	1.68	179	July 17	1.24	67.3
Feb. 7	1.90	256	May 14	1.40	89.3	July 31	1.40	100
Apr. 7	1.54	134	June 2	1.30	73.1	Sept. 2	1.26	67.0
Apr. 15	1.58	138	June 17	1.38	87.4	Sept. 16	1.66	166
May 2	1.47	108	July 1	1.18	52.0			

Daily discharge, in second-feet, of Sevier River below San Pitch River, near Gunnison, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	196	234	253	230	218	139	133	72	52	125	64
2	98	200	237	261	230	222	137	119	70	52	127	66
3	100	200	237	261	230	222	136	125	68	55	130	66
4	100	200	230	257	230	234	136	150	63	68	109	66
5	117	196	234	241	237	230	133	193	59	100	117	64
6	196	196	261	237	237	214	141	237	57	112	117	48
7	190	200	249	245	249	186	133	186	57	133	117	52
8	186	207	245	241	249	179	140	190	59	139	245	53
9	193	210	245	237	249	186	150	182	63	153	182	57
10	207	193	245		245	193	176	160	70	160	166	63
11	210	207	245		245	200	234	147	82	153	144	114
12	207	218	249	233	241	196	182	147	89	102	133	230
13	210	261	266		245	218	150	136	93	84	122	130
14	226	257	266		241	237	144	100	95	76	119	119
15	218	241	245		249	237	141	89	102	72	100	141
16	214	234	241	230	266	253	136	107	100	70	97	169
17	210	234	245	226	261	266	122	136	91	64	95	176
18	207	234	253	222	237	253	117	157	100	72	89	160
19	204	234	257	222	237	237	114	163	105	70	72	157
20	200	234	257	218	253	234	112	179	95	64	72	119
21	196	234	249	218	207	226	125	179	91	66	78	102
22	196	230	257	214	179	214	119	200	84	68	74	100
23	200	234	261	218	196	196	125	176	82	78	76	100
24	196	241	253	218	200	200	119	160	76	107	89	102
25	196	249	253	222	214	193	105	133	74	114	84	109
26	196	237	253	226	207	179	107	109	78	117	78	119
27	196	237	249	226	210	173	119	93	76	125	76	117
28	196	234	245	226	214	166	114	82	72	127	70	117
29	196	230	245	226	------	125	125	70	64	133	68	112
30	196	230	245	230	------	130	130	70	50	105	68	107
31	196	------	245	230	------	133	------	72	------	102	66	------

NOTE.—No gage-height record Oct. 2, Jan. 10–15, Feb. 24, Apr. 8, 9; discharge estimated.

Monthly discharge of Sevier River below San Pitch River, near Gunnison, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	226	95	185	11,400
November	261	193	224	13,300
December	266	230	248	15,200
January	261	214	232	14,300
February	266	173	232	12,900
March	266	125	205	12,600
April	234	105	135	8,030
May	237	70	141	8,670
June	105	50	77.9	4,640
July	160	52	96.5	5,930
August	245	66	107	6,580
September	230	48	107	6,370
The year	266	48	166	120,000

SEVIER BRIDGE RESERVOIR NEAR JUAB, UTAH

LOCATION.—In NW. ¼ sec. 1, T. 17 S., R. 2 W., at dam of Consolidated Sevier Bridge Reservoir Co., 13 miles southwest of Juab, Juab County.

RECORDS AVAILABLE.—January 1, 1914, to September 30, 1926.

GAGE.—Inclined staff gage 100 feet upstream from south end of dam.

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

Daily contents, in acre-feet, of Sevier Bridge Reservoir near Juab, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,480	18,700	35,200	52,100	66,400	79,700	91,800	81,200	49,200	26,100	12,700	7,050
2	5,010	19,300	35,700	52,600	67,000	80,100	92,100	79,400	48,800	24,700	12,300	6,780
3	4,430	19,800	36,200	53,000	67,500	80,600	92,300	77,700	47,700	24,900	12,100	6,510
4	3,740	20,400	36,800	53,500	68,000	81,100	92,400	76,300	47,000	25,300	11,900	6,220
5	2,930	20,900	37,400	54,000	68,400	81,500	92,600	74,400	46,800	25,400	11,800	6,220
6	2,550	21,500	37,900	54,500	69,000	81,900	92,800	73,100	47,000	24,800	11,700	6,180
7	3,110	22,000	38,500	55,000	69,500	82,400	93,400	71,700	46,900	24,100	11,600	6,050
8	4,360	22,600	39,000	55,500	70,100	82,700	93,800	70,500	46,700	23,300	11,600	6,000
9	4,750	23,200	39,600	56,100	70,500	83,000	94,100	69,400	46,100	22,400	11,600	5,880
10	5,010	23,700	40,200	56,400	70,900	83,300	94,500	68,300	45,600	21,400	12,400	5,760
11	6,050	24,200	40,800	56,900	71,300	83,600	94,800	67,300	45,500	20,400	12,900	5,510
12	6,650	24,500	41,400	57,400	71,700	83,900	95,200	66,400	45,300	19,400	13,100	5,240
13	7,270	24,800	41,900	57,900	72,300	84,400	95,700	65,400	45,000	18,200	13,300	4,980
14	7,840	25,200	42,400	58,400	72,800	84,900	95,800	64,300	44,800	19,000	13,500	4,980
15	8,860	25,600	43,000	58,900	73,400	85,400	96,200	63,700	44,600	18,200	13,700	4,720
16	9,340	26,200	43,600	59,300	73,900	85,900	96,500	63,000	44,000	17,500	13,800	4,390
17	9,850	26,800	44,200	59,700	74,500	86,300	96,200	62,200	43,300	16,600	13,900	4,180
18	10,400	27,500	44,800	60,200	75,100	86,900	95,500	61,500	42,400	15,900	13,900	4,010
19	11,100	28,400	45,300	60,700	75,600	87,500	94,800	60,700	41,600	15,300	13,800	3,710
20	11,900	28,900	45,700	61,200	76,300	87,900	94,100	59,900	40,400	15,200	13,100	3,420
21	12,500	29,600	46,200	61,700	76,800	88,400	93,600	59,300	39,500	14,800	12,500	2,990
22	13,000	30,200	46,800	62,100	77,000	88,900	92,900	58,700	38,400	14,200	11,800	2,550
23	13,700	30,600	47,500	62,500	77,300	89,400	92,300	57,900	36,900	13,800	11,300	1,840
24	14,400	31,400	47,900	63,000	77,600	89,600	91,200	57,200	35,500	13,400	10,700	2,740
25	15,000	31,900	48,400	63,500	78,000	89,900	90,200	56,200	33,900	13,100	10,200	3,810
26	15,600	32,400	48,900	63,900	78,500	90,400	89,100	55,100	32,600	12,900	9,620	4,500
27	16,200	33,000	49,300	64,300	79,100	90,700	87,900	53,500	31,200	13,000	9,120	4,500
28	16,700	33,500	49,800	64,600	79,700	90,900	86,300	52,300	29,800	13,000	8,600	4,430
29	17,200	34,000	50,200	65,100	-------	91,100	84,600	51,400	28,600	13,000	8,080	4,360
30	17,700	34,500	50,800	65,500	-------	91,400	83,000	50,700	27,500	13,000	7,650	4,070
31	18,100	-------	51,500	66,000	-------	91,800	-------	50,000	-------	12,900	7,320	------

SEVIER RIVER NEAR JUAB, UTAH

LOCATION.—In NE. ¼ sec. 2, T. 17 S., R. 2 W., 1,600 feet downstream from Sevier Bridge Dam and 13 miles southwest of Juab, Juab County.

DRAINAGE AREA.—5,120 square miles (measured on topographic maps).

RECORDS AVAILABLE.—September 23, 1911, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on left bank; inspected by O. E. Howard.

DISCHARGE MEASUREMENTS.—Made from cable 600 feet above gage or by wading.

CHANNEL AND CONTROL.—One channel at all stages. Bed composed of sand, clay, and fine gravel. Artificial control of rocks below gage.

EXTREMES OF DISCHARGE.—1911–1926: Maximum stage recorded, 8.50 feet at 7 p. m. June 2, 1922 (discharge, 2,140 second-feet); no flow March 7, 1918.

ICE.—Stage-discharge relation seldom affected by ice.

DIVERSIONS.—None between this station and that near Gunnison.

REGULATION.—Flow regulated by gates in dam just above station.

ACCURACY.—Stage-discharge relation permanent during year. Rating curve well defined. Water-stage recorder operated satisfactorily except during winter, when only seepage water was passing gage. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Discharge estimated during winter when recorder was not operated. Records good.

COOPERATION.—Station maintained and records compiled in cooperation with Sevier River water commissioner.

Discharge measurements of Sevier River near Juab, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Apr. 17	2.64	347	June 1	3.22	535	July 30	2.03	168
May 1	4.62	1,050	June 9	2.36	261			
May 9	4.00	786	July 16	2.94	454			

Daily discharge, in second-feet, of Sevier River near Juab, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Apr.	May	June	July	Aug.	Sept.
1	294	3		991	537	714	271	201
2	376	2		1,000	520	301	280	198
3	356	2		1,020	510	6	253	195
4	328	2		1,060	406	6	206	134
5	293	2		1,010	5	230	190	101
6	265	2		1,000	73	491	192	111
7	58	2		1,100	199	488	195	101
8	3		2	920	270	576	184	101
9	2			795	259	683	72	101
10	2			781	259	707	5	126
11	2			768	256	662	22	162
12	2			768	212	422	68	190
13	2			741	184	224	71	195
14	2			626	184	399	80	212
15				497	320	449	82	283
16			161	478	517	440	82	280
17			312	491	547	436	82	277
18			379	557	547	430	139	286
19	2	2	462	613	567	265	259	308
20			350	586	596	221	372	321
21			401	553	646	305	353	334
22			449	550	778	305	350	259
23			484	646	848	250	347	159
24			553	710	837	218	340	4
25	2		662	758	826	218	334	4
26	2		700	826	816	187	324	4
27	2		788	820	806	157	312	68
28	2		918	673	785	157	321	96
29	2		960	530	761	157	296	259
30	2		974	427	747	165	262	302
31	2			478		198	206	

NOTE.—Reservoir gates closed from Oct. 7 to Apr. 16; seepage water only (about 2 second-feet) during this period.

Monthly discharge of Sevier River near Juab, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	376	----------	65.0	4,000
November	----------	----------	*2.0	119
December	----------	----------	*2.0	123
January	----------	----------	*2.0	123
February	----------	----------	*2.0	111
March	----------	----------	*2.0	123
April	974	----------	286	17,000
May	1,100	427	735	45,200
June	848	5	494	29,400
July	714	6	338	20,800
August	372	5	211	13,000
September	334	4	179	10,700
The year	1,100	----------	194	141,000

* Estimated; seepage water only.

SEVIER RIVER AT OASIS, UTAH

LOCATION.—In E. ½ sec. 33, T. 17 S., R. 7 W., three-quarters of a mile northwest of Oasis, Millard County, and 1½ miles below county bridge locally known as Hinckley Bridge.

DRAINAGE AREA.—8,080 square miles (measured on topographic maps).

RECORDS AVAILABLE.—April 13, 1912, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on left bank; inspected by Alfred Stanworth.

DISCHARGE MEASUREMENTS.—Made from county bridge or by wading.

CHANNEL AND CONTROL.—Two channels at extremely high water; one channel at low and medium stages. Bed composed of sand with slight aquatic vegetation. Control is fairly permanent.

EXTREMES OF DISCHARGE.—1912–1926: Maximum discharge, 1,580 second-feet June 12, 1914; minimum, 0.5 second-foot May 13–19, 1912.

ICE.—Stage-discharge relation at times affected by ice.

DIVERSIONS.—Numerous diversions above station take practically entire flow during irrigation season; water passing gage at such times is largely seepage or return water entering below Gunnison Bend Reservoir.

REGULATION.—Flow controlled by storage reservoirs and diversion dams above station.

ACCURACY.—Stage-discharge relation affected by backwater from dam after June 17. Rating curves fairly well defined. Water-stage recorder operated satisfactorily. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records fair.

COOPERATION.—Station maintained and records compiled in cooperation with Sevier River water commissioner.

The following discharge measurements were made:

May 18, 1926: Gage height, 1.76 feet; discharge, 24.4 second-feet.

June 27, 1926: Gage height, 2.00 feet; discharge, 25.8 second-feet.

July 15, 1926: Gage height, 1.57 feet; discharge, 12.9 second-feet.

Daily discharge, in second-feet, of Sevier River at Oasis, Utah, for the year ending September 30, 1926

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

Monthly discharge of Sevier River at Oasis, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	19	13	16.7	1,030
November	24	10	16.9	1,010
December	23	9	15.1	928
January	18	11	15.6	959
February	23	10	16.1	894
March	16	7	12.0	738
April	12	7	8.7	518
May	26	12	20.5	1,260
June	20	10	13.7	815
July	18	9	11.0	676
August	21	7	11.5	707
September	14	6	8.4	500
The year	26	6	13.8	10,000

EAST FORK OF SEVIER RIVER NEAR KINGSTON, UTAH

LOCATION.—In SW. ¼ sec. 13, T. 30 S., R. 3 W., 1 mile below highway bridge and 2 miles east of Kingston, Piute County.

DRAINAGE AREA.—1,260 square miles (measured on topographic maps).

RECORDS AVAILABLE.—April 29, 1914, to September 30, 1926. Records obtained 1½ miles above Rockyford Bridge, in SW. ¼ sec. 16, T. 30 S., R. 2½ W., March 27, 1913, to April 28, 1914; also at gage three-fourths mile north of Kingston, in NE. ¼ sec. 10, T. 30 S., R. 3 W., May 11 to September 20, 1912.

GAGE.—Stevens continuous water-stage recorder on right bank 1 mile below highway bridge; inspected by W. S. Price.

DISCHARGE MEASUREMENTS.—Made from cable 2 miles above gage, from highway bridge 1 mile above, or by wading.

CHANNEL AND CONTROL.—One channel at all stages. Right bank is overflowed during high water. Bed composed of gravel. Concrete control 20 feet below gage.

EXTREMES OF DISCHARGE.—1913–1926: Maximum stage recorded, 6.10 feet May 8, 1922 (discharge, 1,740 second-feet); minimum, 1.00 foot September 19–21, 1913 (discharge, 8 second-feet).

ICE.—Stage-discharge relation seriously affected by ice.

DIVERSIONS.—Above all diversions in vicinity of Kingston.

REGULATION.—Flow largely regulated at Otter Creek Reservoir 8 miles above.

ACCURACY.—Stage-discharge relation changed several times during year by deposits of sediment on control; affected by ice December 4–8 and December 15 to February 23. Normal rating curve well defined. Operation of water-stage recorder satisfactory except as indicated in footnote to table of daily discharge. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records fair.

COOPERATION.—Station maintained and computations made in cooperation with Sevier River water commissioner.

Discharge measurements of East Fork of Sevier River near Kingston, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Apr. 11	2.77	36.8	June 21	3.50	157	Aug. 12	3.60	198
Mar. 4	2.73	32.7	July 3	3.84	319	Sept. 18	3.22	103
Mar. 29	3.30	122	July 19	3.93	306	Sept. 21	3.12	76.3
June 1	3.27	112	Aug. 2	3.64	202			

Daily discharge, in second-feet, of East Fork of Sevier River near Kingston, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.
1	37	18	20			20	23	60	112	148	199	199
2	20	18	20			20	28	50	112	157	202	205
3	20	18	20			18	28	40	115	323	202	208
4	20	18	20			19	23	40	115	384	205	212
5	27	18	20			20	20	38	115	388	205	212
6	41	18	20			19	21	31	120	388	205	212
7	26	18	20			19	21	31	120	384	212	205
8	23	18	20			19	20	30	120	372	208	199
9	23		20			20	24	28	120	380	208	192
10	24		20			21	27	29	120	380	205	183
11	24	20	20	18		22	38	32	120	339	202	174
12	24		20		18	23	40	33	120	331	199	162
13	23		20			24	40	34	120	331	199	154
14	23		18			25	48	33	120	327	205	143
15	23	22				26	64	33	120	327	205	132
16	23	23				35	69	33	120	319	212	125
17	23	23				45	61	35	120	315	208	111
18	21	23				36	43	35	135	307	208	97
19	18	24				24	40	100	157	307	208	96
20	18	26				23	29		154	311	205	88
21	18	25				20	31		154	276	202	78
22	18	21	18			14	49		154	239	199	71
23	17	18				23	61		154	208	202	66
24	17	18			18	26	78	122	148	199	199	61
25	15	19			18	18	100		146	199	202	56
26	16	20		16	19	18	140		143	195	202	55
27	16	22			20	18	186		146	195	199	53
28	16	21			20	17	148		148	195	202	53
29	17	21			-------	17	122	122	148	192	199	53
30	18	20			-------	17	99	122	148	189	199	53
31	18	-------			-------	17	-------	122	-------	199	199	------

NOTE.—No gage-height record and discharge estimated Oct. 22, 23, Nov. 4–7, 9–14, Apr. 25, 26, May 1–3, 19–28, and Sept. 17; affected by ice and mean discharge estimated Dec. 4–8 and Dec. 15 to Feb. 23. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of East Fork of Sevier River near Kingston, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	41	15	21.5	1,320
November	26	18	20.3	1,210
December	20		18.8	1,160
January			17.3	1,060
February			18.2	1,010
March	45	14	22.0	1,350
April	186	20	57.4	3,420
May	122	28	71.3	4,380
June	157	112	131	7,800
July	388	148	284	17,500
August	212	199	203	12,500
September	212	53	130	7,740
The year	388	14	83.5	60,400

ROCKYFORD CANAL NEAR VERMILION, UTAH

LOCATION.—In sec. 19, T. 22 S., R. 1 W., 300 feet below head of canal and 2 miles northeast of Vermilion, Sevier County.

RECORDS AVAILABLE.—July 8, 1914, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on left bank; inspected by O. A. Wilkinson.

DISCHARGE MEASUREMENTS.—Made from highway bridge 400 feet downstream or by wading.

CHANNEL AND CONTROL.—Bed composed of gravel and clay; shifts. Banks lined with willows.

ICE.—Stage-discharge relation affected at times by ice.

DIVERSIONS.—None above gage. Gage is a short distance below wasteway that returns surplus water to Sevier River.

REGULATION.—Flow regulated by head gates and wasteway.

ACCURACY.—Stage-discharge relation shifting, affected by backwater from check gate below gage. Normal rating curve used, shifting to measurements. Water-stage recorder operated satisfactorily except for two short periods, during which flow was practically constant. Daily discharge ascertained by applying mean daily gage height to rating table, using shifting-control method. Records fair.

COOPERATION.—Station maintained and records compiled in cooperation with Sevier River water commissioner.

Canal diverts water from Rockyford Reservoir, a small reservoir on Sevier River at Vermilion, in sec. 19, T. 22 S., R. 1 W. Flow dependent on water stored in reservoir and seepage and return waters below Richfield. Water used for irrigation north of Vermilion.

Discharge measurements of Rockyford Canal near Vermilion, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 15	1.58	39.3	May 3	2.39	78.9	July 5	2.37	78.3
Feb. 6	1.32	26.2	June 7	2.39	83.0	Aug. 1	1.88	50.1
Apr. 8	1.48	33.4	June 25	2.42	77.7	Aug. 17	1.84	36.0

Daily discharge, in second-feet, of Rockyford Canal near Vermilion, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	42	27	27	26	20	32	80	74	80	48	
2	44	42	27	27	26	20	32	79	74	81	42	
3	43	42	27	27	26	20	32	81	88	81	42	
4	47	42	27	27	26	20	32	82	88	81	41	52
5	51	42	27	27	26	20	32	55	88	79	41	
6	57	42	27	27	26	20	32	39	88	79	41	
7	59	42	27	27	26	20	34	37	81	79	39	56
8	59	42	27	27	26	20	34	34	76	81	35	57
9	52	31	27	27	26	20	34	38	49	86	36	57
10	39	17	26	27	26	21	34	39	42	81	37	56
11	39	20	26	27	26	21	34	30	42	73	38	55
12	38	29	26	27	26	21	35	0	43	72	38	53
13	38	35	26	27	26	21	35	0	43	70	38	58
14	40	35	26	27	26	20	35	0	43	70	38	62
15	39	35	26	26	26	20	48	26	43	70	37	66
16	39	35	26	26	26	19	70	52	43	72	37	45
17	39	34	26	26	26	19	71	74	43	72	36	45
18	39	34	27	26	26	19	72	74	72	72	41	44
19	39	27	27	26	26	33	72	75	86	72	45	42
20	39	25	27	26	32	56	72	74	81	70	46	41
21	39	26	26	26	45	53	74	74	72	56	44	38
22	39	26	27	27	46	45	75	75	79	44	44	35
23	39	26	26	27	47	44	81	74	79	47	42	36
24	39	26	26	27	35	30	82	73	80	45	42	37
25	39	26	27	27	21	30	82	74	79	47	42	37
26	39	26	27	26	21	32	82	74	78	48	40	37
27	41	26	27	26	21	30	82	74	77	47	38	36
28	41	26	27	26	21	30	82	74	77	46	46	36
29	42	26	27	26	-------	32	81	74	79	47	47	37
30	42	27	27	26	-------	32	81	74	79	48	48	38
31	42	-------	27	26	-------	32	-------	74	-------	48	48	-------

Monthly discharge of Rockyford Canal near Vermilion, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	59	38	42.8	2,630
November	42	17	31.8	1,890
December	27	26	26.6	1,640
January	27	26	26.6	1,640
February	47	21	28.0	1,560
March	56	19	27.1	1,670
April	82	32	55.8	3,320
May	82	0	57.5	3,540
June	88	42	68.9	4,100
July	86	44	65.9	4,050
August	48	35	41.2	2,530
September	66	35	47.2	2,810
The year	88	0	43.3	31,400

BEAVER RIVER BASIN

BEAVER RIVER NEAR BEAVER, UTAH

LOCATION.—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, Beaver County.

DRAINAGE AREA.—82 square miles (measured on topographic maps).

RECORDS AVAILABLE.—June 15 to September 22, 1906; March 15, 1914, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on right bank; inspected by G. W. Valantine.

DISCHARGE MEASUREMENTS.—Made from footbridge 70 feet above gage or by wading.

CHANNEL AND CONTROL.—Bed composed of boulders and coarse gravel. One channel; left bank subject to overflow at extremely high stages. Control composed of boulders; fairly permanent.

EXTREMES OF DISCHARGE.—Maximum stage during year, 6.20 feet at 8 p. m. May 19 (discharge, 740 second-feet); minimum, 3.18 feet at 7 p. m. September 5 (discharge, 16 second-feet).

1914–1926: Maximum stage, 6.31 feet at 6 p. m. May 25, 1922 (discharge, 785 second-feet); minimum, 3.12 feet at 1 p. m. September 27, 1924 (discharge, 7 second-feet).

ICE.—Stage-discharge relation seriously affected.

DIVERSIONS.—Above all irrigation diversions. Above station is a small storage reservoir known as Kents Lake. Water is diverted by Beaver River Power Co. but returned to stream several miles above station.

REGULATION.—Flow may be affected by operation of Beaver River Power Co.'s plants and to some extent by Kents Lake Reservoir.

ACCURACY.—Stage-discharge relation shifted slightly for low-water stages during high water. Rating curves fairly well defined. Water-stage recorder operated successfully except as stated in footnote to daily-discharge table. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph or weekly readings. Discharge estimated or interpolated for period of ice effect and for days of missing gage height. Records fair.

Discharge measurements of Beaver River near Beaver, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Dec. 11	*3.72	26.1	May 7	4.71	221	Aug. 28	3.35	26.8
Dec. 15	*3.76	24.4	June 9	4.30	125			

*Stage-discharge relation affected by ice.

Daily discharge, in second-feet, of Beaver River near Beaver, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	28	27					215	218	62	30	25
2	28	31	29				25	218	203	62	32	24
3	28	31	27			20			188	58	32	24
4	31	26			20		24		176	62	32	24
5	48	27						220	167	67	35	23
6	44	33	26						158	64	33	25
7	34	31			21	17	30	218	151	58	35	24
8	32	25		22				191	149	57	47	25
9	31	32						171	141	56	37	24
10	30	28			22	25		151	127	53	35	24
11	33	28					36	145	122	49	33	24
12	34	28						154	112	48	32	24
13	34	29						158	106	41	31	25
14	31	29			22	35		196	98	39	32	25
15	33						60	250	92	37	32	27
16	29							343	85	37	32	27
17	32				22			418	78	36	33	27
18	31					35	83	456	72	36	32	27
19	31							523	69	35	31	26
20	31							523	64	35	32	25
21	31	28	24		22	34	125	523	66	34	30	27
22	31							493	76	31	27	25
23	31			20				450	72	30	27	25
24	30							365	68	30	27	26
25	30				23	32	174	293	67	30	27	25
26	30							244	63	31	27	27
27	31							226	62	34	27	27
28	31	28			25	29	195	218	62	36	27	24
29	30	26						221	66	34	24	24
30	28	27				28		213	66	32	25	24
31	28							216		30	25	

NOTE.—Stage-discharge relation affected by ice Dec. 4 to Jan. 31; discharge estimated. Recorder not operated but weekly readings obtained Nov. 15–27 and Feb. 1 to May 6; discharge estimated or interpolated between readings. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Beaver River near Beaver, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	48	24	31.6	1,940
November	33		28.4	1,690
December			24.8	1,520
January			21.0	1,290
February			21.9	1,220
March			28.1	1,730
April			88.6	5,270
May	523	145	280	17,200
June	218	62	108	6,430
July	67	30	43.4	2,670
August	47	24	31.0	1,910
September	27	23	25.1	1,490
The year	523		61.3	44,400

BEAVER RIVER AT ADAMSVILLE, UTAH

LOCATION.—In S. ½ sec. 30, T. 29 S., R. 8 W., 100 yards below highway bridge on road from Milford to Beaver, a quarter of a mile above mouth of Indian Creek, and three-quarters of a mile south of Adamsville, Beaver County.

DRAINAGE AREA.—272 square miles (measured on topographic maps).

RECORDS AVAILABLE.—December 16, 1913, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on right bank; inspected by W. A. Rees.

DISCHARGE MEASUREMENTS.—Made from cable at gage or by wading.

CHANNEL AND CONTROL.—Bed composed of fine gravel. Banks low; covered with willows; subject to overflow at extremely high stages. Concrete control constructed July 11, 1916, and rebuilt September 26, 1919.

EXTREMES OF DISCHARGE.—Maximum stage during year, 3.70 feet at 7 a. m. May 20 (discharge, 395 second-feet); minimum discharge, 1 second-foot during part of September.

1914–1926: Maximum stage, 4.85 feet at 6 a. m. May 23, 1920 (discharge, 796 second-feet); practically no flow during parts of May, August, September, and October, 1924.

ICE.—Stage-discharge relation affected by ice for very short periods.

DIVERSIONS.—No diversions between station and storage reservoir of Beaver County Irrigation Co. Several ditches above station supply Adamsville and Beaver districts.

REGULATION.—Flow affected by irrigation diversions.

ACCURACY.—Stage-discharge relation slightly affected at times by moss growth on bar below concrete control. Standard rating curve well defined below 500 second-feet. Water-stage recorder stopped frequently, but variations in stage usually not very great. On account of these breaks in gage-height record discharge records are rated fair.

Discharge measurements of Beaver River at Adamsville, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Dec. 11	1.95	42.9	June 10	1.59	11.9
May 8	2.28	87.8	Aug. 29	1.47	4.6

Daily discharge, in second-feet, of Beaver River at Adamsville, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	39	41	46	36	34	25	111	65	6	5	3
2	15	40	44	44	35	35	26	88	48	7	7	2
3	15	40	49	45	38	35	28	100	41	8	13	1
4	24	41	43	44	36	35	28	125	36	8	12	1
5	52	42	48	45	35	33	33	200	29	31	13	1
6	49	42	49	45	34	30	38	192	23	46	14	2
7	32	43	46	46	33	32	43	117	19	27	14	2
8	30	44	44	50	33	32	43	85	16	21	20	2
9	33	46	42	53	32	34	43	73	13	22	50	2
10	35	47	44	50	31	44	43	62	10	23	40	1
11	41	48	45	49	32	41	45	50	9	20	42	1
12	39	49	45		34	35	47	39	7	17	38	1
13	50	50	48		36	34	49	47	6	15	34	1
14	58	52	45		36	36	51	55	6	12	30	1
15	52	53	52		36	36	47	64	6	11	25	1
16	53	49	54		37	33	44		6	10	21	1
17	53	48	51		37	31	40	155	6	9	20	2
18	54	49	48		37	30	39		6	8	18	2
19	52	52	50		38	30	54	245	6	7	16	2
20	50	51	46		38	46	53	326	6	7	14	2
21	49	51	45	45	39	33	45	330	5	6	13	3
22	49	50	45		40	29	58	306	4	6	12	3
23	49	52	44		42	34	70		4	6	10	3
24	49	52	44		43	39	84	210	4	7	9	2
25	49	58	43		38	38			4	7	8	2
26	49	54	43		34	38	95	129	4	8	7	2
27	49	46	44		30	38		90	4	8	5	2
28	49	44	46		33	34	108	82	5	8	4	2
29	45	42	48		-------	31	136	77	6	8	4	2
30	42	41	49	50	-------	27	136	72	6	6	3	2
31	38	-------	48	37	-------	24	-------	70	-------	6	3	-------

NOTE.—Water-stage recorder stopped frequently; discharge interpolated or estimated for days of missing gage-height record. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Beaver River at Adamsville, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	58	15	42.6	2,620
November	58	39	47.2	2,810
December	54	41	46.3	2,850
January			45.6	2,800
February	43	30	35.8	1,990
March	46	24	34.2	2,100
April	136	25	58.0	3,450
May	330	39	136	8,360
June	65	4	13.7	815
July	46	6	12.6	775
August	50	3	16.9	1,040
September	3	1	1.8	107
The year	330	1	41.1	29,700

BEAVER RIVER AT ROCKYFORD DAM, NEAR MINERSVILLE, UTAH

LOCATION.—In NW. ¼ sec. 11, T. 30 S., R. 9 W., half a mile below Rockyford Dam and 4 miles above Minersville, Beaver County.

DRAINAGE AREA.—512 square miles (measured on topographic maps).

RECORDS AVAILABLE.—December 18, 1913, to September 30, 1926.

GAGE.—Friez water-stage recorder on right bank; inspected by F. B. Robinson.

DISCHARGE MEASUREMENTS.—Made by wading or from cable 1,000 feet below gage.

CHANNEL AND CONTROL.—Bed composed of gravel; some aquatic vegetation. One channel at all stages. Banks not subject to overflow. Concrete control installed November 2–12, 1916.

EXTREMES OF DISCHARGE.—1913–1926: Maximum stage, 3.53 feet at 7 p. m. June 10, 1921 (discharge, 727 second-feet); minimum discharge (estimated), 0.3 second-foot March 19 and 20, 1914.

ICE.—Stage-discharge relation not affected by ice.

DIVERSIONS.—None between dam and station; several above Adamsville.

REGULATION.—Flow regulated by operation of gates at Rockyford Dam.

ACCURACY.—Stage-discharge relation changed during later part of April, when water washed around left end of control. Rating curves well defined. When water-stage recorder was not operating observer supplied record of stage and gate operation from which accurate daily discharge was obtained. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph. Records good.

COOPERATION.—Gage-height record furnished by Beaver County Irrigation Co.

Discharge measurements of Beaver River at Rockyford Dam, near Minersville, Utah, during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Dec. 11	0.81	6.3	June 10	1.51	76.4
May 8	1.46	71.8	Aug. 29	1.59	91.3

Daily discharge, in second-feet, of Beaver River at Rockyford Dam, near Minersville, Utah, for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	6	5	7	8	9	11	65	101	103	37	87
2	11	6	5	7	8	10	11	65	97	103	52	86
3	10	6	6	7	8	10	11	65	96	101	59	86
4	8	6	6	7	8	10	11	68	90	101	59	91
5	7	6	6	7	8	10	11	68	89	87	62	73
6	7	6	6	7	9	10	11	70	89	69	68	72
7	7	6	6	7	9	10	11	70	87	68	69	66
8	7	6	6	7	9	10	11	70	84	68	72	65
9	7	6	6	7	9	10	11	75	84	59	76	65
10	7	6	6	7	9	10	11	75	78	78	76	65
11	7	5	6	7	9	10	11	75	76	90	76	64
12	7	5	6	7	9	10	11	78	72	90	76	63
13	7	5	6	7	9	10	11	79	72	90	76	54
14	7	5	6	7	9	10	11	81	69	97	76	42
15	7	5	6	7	9	10	11	81	68	97	76	41
16	7	5	6	7	10	10	11	81	66	97	76	41
17	7	5	6	7	10	10	11	81	65	97	76	41
18	7	5	6	7	10	10	11	81	66	97	75	41
19	7	5	6	8	10	10	11	90	49	96	75	26
20	7	5	6	8	10	10	11	94	59	96	76	16
21	7	5	6	8	10	10	10	97	65	92	79	16
22	6	5	6	8	10	10	10	99	66	78	79	10
23	6	5	6	8	10	10	29	99	73	69	78	9
24	6	5	6	8	10	10	44	99	81	66	76	9
25	6	5	6	8	9	10	44	99	95	66	78	9
26	6	5	6	8	9	10	44	99	105	65	82	9
27	6	5	6	8	9	10	44	103	105	65	84	9
28	6	5	6	8	9	11	44	103	105	66	89	9
29	6	5	6	8	-------	11	44	103	105	73	89	9
30	6	5	6	8	-------	11	52	103	105	37	89	9
31	6	-------	6	8	-------	11	-------	103	-------	37	87	-------

Monthly discharge of Beaver River at Rockyford Dam, near Minersville, Utah, for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	13	6	7.1	437
November	6	5	5.3	315
December	6	5	5.9	363
January	8	7	7.4	455
February	10	8	9.1	505
March	11	9	10.1	621
April	44	10	19.5	1,160
May	103	65	84.5	5,200
June	105	49	82.1	4,890
July	103	37	80.6	4,960
August	89	37	74.1	4,560
September	87	9	42.4	2,520
The year	105	5	35.9	26,000

SALTON SINK BASIN

SNOW CREEK NEAR WHITEWATER, CALIF.

LOCATION.—In NW. ¼ NW. ¼ 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 3½ miles southwest of Whitewater, Riverside County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—July 21, 1921, to September 30, 1926.

GAGE.—Water-stage recorder on left bank just above weir.

DISCHARGE MEASUREMENTS.—Made from gaging bridge just above intake of Southern Pacific Co.'s ditch or by wading.

CHANNEL AND CONTROL.—Bed consists of boulders and is rough. Control is concrete rectangular compound weir with end contractions and steel plates for crest.

EXTREMES OF STAGE.—Not reported.

DIVERSIONS.—See Southern Pacific Co.'s ditch record (p. 77).

REGULATION.—None.

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

Daily discharge, in second-feet, of Snow Creek near Whitewater, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	June	July	Aug.	Sept.
1	0.5	0.4	0.6	0.4	0.8	0.2	0.6	6.4	2.3	0.4	0.6
2	.5	.4	15.4	.4	.4	.2	.6	6.4	2.2	.4	.6
3	.6	.4	5.9	.4	2.4	.2	.6	6.4	2.2	.5	.6
4	8.3	.5	1.6	.4	.8	.3	-------	6.4	2.3	.6	.5
5	35	.5	.4	.4	.4	.5	-------	6.4	2.5	.6	.5
6	4.2	.5	.1	.4	.4	.4	-------	6.4	1.8	.6	.5
7	1.4	.3	.1	.4	.4	.5	-------	6.4	1.4	.6	.5
8	.4	.3	.1	.4	.5	.8	-------	6.3	1.4	.6	.5
9	.1	.3	.1	.4	.5	.9	-------	5.9	1.4	.6	.5
10	.3	.4	.1	.4	.5	.8	-------	5.0	1.3	.6	.5
11	.3	.4	.1	.4	.4	.6	-------	4.6	1.3	.5	.6
12	.2	.4	.2	.4	3.4	.6	-------	5.0	1.3	.5	.6
13	.2	.4	.2	.4	14.3	.5	-------	4.2	1.2	.5	.6
14	.2	.4	.2	.4	4.7	.6	-------	4.1	1.1	.5	.6
15	.2	.4	.2	.5	2.8	.5	-------	3.7	1.1	.5	.5
16	.2	.4	.2	.4	1.8	.4	-------	3.4	1.1	.5	.5
17	.2	.4	.2	.4	.9	.5	-------	3.4	1.4	.5	.5
18	.2	.4	.2	.4	.6	.6	-------	3.4	1.6	.5	.6
19	.2	.4	.3	.4	.1	.6	-------	3.4	1.4	.5	.6
20	.2	.4	.3	.4	.2	.6	-------	3.4	.8	.6	.6
21	.2	.4	.3	.4	.2	.6	-------	3.1	.3	.6	.6
22	.2	.4	.3	.4	.2	.6	-------	2.8	.3	.5	.5
23	.2	.4	.3	.4	.2	.6	-------	2.7	.3	.5	.5
24	.2	2.7	.2	.4	.2	.6	-------	2.7	.3	.5	.5
25	.2	1.2	.2	.4	.2	.6	-------	2.6	.3	.5	.6
26	.2	.7	.3	.4	.3	.6	-------	2.6	.6	.6	.6
27	.2	.6	.3	.4	.3	.6	-------	2.6	.6	.6	.6
28	.2	.6	.3	.4	.4	.6	-------	2.6	.4	.6	.6
29	.2	.6	.3	.4	-------	.6	-------	2.5	.4	.6	.6
30	.4	.6	.3	.4	-------	.7	-------	2.4	.4	.6	.6
31	.4	-------	.4	1.4	-------	.6	-------	-------	.4	.6	-------

Monthly discharge of Snow Creek near Whitewater, Calif., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	35	0.1	1.81	111
November	2.7	.3	.54	32.1
December	15.4	.1	.96	59.0
January	1.4	.4	.44	27.1
February	14.3	.1	1.37	76.1
March	.9	.2	.55	33.8
April	----------	----------	*6.45	384
May	----------	----------	*6.45	397
June	6.4	2.4	4.24	252
July	2.5	.3	1.14	70.1
August	.6	.4	.54	33.2
September	.6	.5	.56	33.3
The year	----------	.1	2.08	1,510

* Estimated.

Combined daily discharge, in second-feet, of Snow Creek and Southern Pacific Co.'s ditch near Whitewater, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	June	July	Aug.	Sept.
1	3.9	4.7	5.5	6.8	8.0	5.6	6.8	12.0	6.8	5.6	4.6
2	3.9	4.7	28	6.2	6.6	5.6	6.8	12.0	6.5	5.6	4.4
3	4.0	5.3	17.3	6.0	10.5	5.6	6.8	12.0	6.3	6.1	4.4
4	19.1	5.7	11.2	5.8	9.1	5.9	------	12.0	6.3	7.2	4.3
5	53	5.4	8.7	5.6	6.8	6.9	------	12.0	6.3	7.2	4.3
6	14.5	5.2	8.0	5.4	6.2	6.6	------	12.2	6.3	6.6	4.5
7	9.7	5.0	6.9	5.4	6.0	6.7	------	12.0	6.4	6.2	4.5
8	8.3	5.0	6.5	5.3	5.9	7.4	------	11.7	6.6	6.0	4.5
9	6.5	4.8	6.5	5.3	5.7	7.9	------	11.3	6.6	5.6	4.6
10	6.1	4.9	6.3	5.1	5.7	7.8	------	10.4	6.5	5.5	4.6
11	5.9	4.7	5.9	5.1	5.4	7.0	------	9.8	6.5	5.2	4.6
12	5.8	4.9	6.0	5.1	12.2	6.6	------	10.0	6.3	5.2	4.4
13	6.0	4.7	6.0	5.1	27	6.1	------	9.2	6.2	5.0	4.4
14	5.8	4.9	5.8	4.9	15.5	6.2	------	9.0	6.0	5.0	4.3
15	5.8	4.9	5.6	5.0	12.4	6.3	------	8.6	6.0	5.0	4.2
16	5.6	4.9	5.4	4.7	10.9	6.2	------	8.1	6.0	4.8	4.2
17	5.2	4.9	5.4	4.7	9.0	6.5	------	8.1	6.6	4.6	4.3
18	5.1	4.9	5.6	4.7	8.3	6.6	------	8.1	6.8	4.6	4.3
19	5.1	4.9	5.7	4.7	7.2	7.0	------	8.1	6.4	4.6	4.3
20	4.9	4.7	5.7	4.7	7.2	7.2	------	8.1	6.0	4.7	4.1
21	4.9	4.7	5.5	4.5	6.8	7.2	------	7.6	6.1	4.7	4.1
22	5.1	4.7	5.5	4.5	6.6	7.0	------	7.3	5.9	4.5	4.0
23	5.1	4.7	5.5	4.5	6.2	6.8	------	7.2	5.9	4.5	4.2
24	4.9	9.9	5.4	4.5	6.0	7.0	------	7.2	5.9	4.3	4.0
25	4.9	9.5	5.2	4.5	6.0	7.2	------	7.1	5.7	4.3	4.1
26	4.9	7.1	5.3	4.5	5.9	7.4	------	7.1	7.2	4.9	4.1
27	4.7	6.2	5.3	4.5	5.9	7.2	------	7.1	7.4	5.8	4.1
28	4.7	6.0	5.3	4.4	5.8	7.0	------	7.1	6.2	4.9	4.1
29	4.7	5.6	5.7	4.4	------	7.0	------	7.0	5.8	4.7	4.3
30	4.7	5.5	5.5	4.5	------	7.1	------	6.9	5.6	4.7	4.4
31	4.7	------	6.2	8.0	------	6.8	------	------	5.4	4.7	------

Combined monthly discharge of Snow Creek and Southern Pacific Co.'s ditch near Whitewater, Calif., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	53	3.9	7.66	471
November	9.9	4.7	5.43	323
December	28	5.2	7.17	441
January	8.0	4.4	5.11	314
February	27	5.4	8.39	466
March	7.9	5.6	6.75	415
April	------	------	15.2	904
May	------	------	12.9	793
June	12.2	6.9	9.21	548
July	7.4	5.4	6.27	386
August	7.2	4.3	5.24	322
September	4.6	4.0	4.31	256
The year	------	3.9	7.79	5,640

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

LOCATION.—In NW. ¼ NW. ¼ sec. 33, T. 3 S., R. 3 E., 200 feet below intake and 3½ miles southwest of Whitewater, Riverside County.

RECORDS AVAILABLE.—July 20, 1921, to September 30, 1926.

GAGE.—Water-stage recorder on left bank 200 feet below intake.

DISCHARGE MEASUREMENTS.—Made from foot log at gage or by wading.

CHANNEL AND CONTROL.—Bed of channel consists of small boulders and gravel; both banks covered with trees.

EXTREMES OF STAGE.—Not reported.

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

Daily discharge, in second-feet, of Southern Pacific Co.'s ditch near Whitewater, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.4	4.3	4.9	6.4	7.2	5.4	6.2	7.5	5.6	4.5	5.2	4.0
2	3.4	4.3	12.8	5.8	6.2	5.4	6.2	7.5	5.6	4.3	5.2	3.8
3	3.4	4.9	11.4	5.6	8.1	5.4	6.2	7.7	5.6	4.1	5.6	3.8
4	10.8	5.2	9.6	5.4	8.3	5.6	6.2	7.0	5.6	4.0	6.6	3.8
5	17.6	4.9	8.3	5.2	6.4	6.4	22	7.2	5.6	3.8	6.6	3.8
6	10.3	4.7	7.9	5.0	5.8	6.2	28	7.7	5.8	4.5	6.0	4.0
7	8.3	4.7	6.8	5.0	5.6	6.2	11.1	6.8	5.6	5.0	5.6	4.0
8	7.9	4.7	6.4	4.9	5.4	6.6	14.0	6.6	5.4	5.2	5.4	4.0
9	6.4	4.5	6.4	4.9	5.2	7.0	11.1	6.6	5.4	5.2	5.0	4.1
10	5.8	4.5	6.2	4.7	5.2	7.0	7.7	6.4	5.4	5.2	4.9	4.1
11	5.6	4.3	5.8	4.7	5.0	6.4	6.4	6.2	5.2	5.2	4.7	4.0
12	5.6	4.5	5.8	4.7	8.8	6.0	8.1	6.2	5.0	5.0	4.7	3.8
13	5.8	4.3	5.8	4.7	12.5	5.6	7.7	6.2	5.0	5.0	4.5	3.8
14	5.6	4.5	5.6	4.5	10.8	5.6	7.2	6.4	4.9	4.9	4.5	3.7
15	5.6	4.5	5.4	4.5	9.6	5.8	6.6	6.2	4.9	4.9	4.5	3.7
16	5.4	4.5	5.2	4.3	9.1	5.8	6.2	6.4	4.7	4.9	4.3	3.7
17	5.0	4.5	5.2	4.3	8.1	6.0	5.0	6.4	4.7	5.2	4.1	3.8
18	4.9	4.5	5.4	4.3	7.7	6.0	5.0	6.6	4.7	5.2	4.1	3.7
19	4.9	4.5	5.4	4.3	7.2	6.4	5.4	6.6	4.7	5.0	4.1	3.7
20	4.7	4.3	5.4	4.3	7.0	6.6	4.7	6.8	4.7	5.2	4.1	3.5
21	4.7	4.3	5.2	4.1	6.6	6.6	7.7	6.6	4.5	5.8	4.1	3.5
22	4.9	4.3	5.2	4.1	6.4	6.4	7.7	6.4	4.5	5.6	4.0	3.5
23	4.9	4.3	5.2	4.1	6.0	6.2	7.7	6.4	4.5	5.6	4.0	3.7
24	4.7	7.2	5.2	4.1	5.8	6.4	7.7	6.0	4.5	5.6	3.8	3.5
25	4.7	8.3	5.0	4.1	5.8	6.6	8.1	5.8	4.5	5.4	3.8	3.5
26	4.7	6.4	5.0	4.1	5.6	6.8	8.1	5.6	4.5	6.6	4.3	3.5
27	4.5	5.6	5.0	4.1	5.6	6.6	8.1	5.6	4.5	6.8	5.2	3.5
28	4.5	5.4	5.0	4.0	5.4	6.4	8.8	5.6	4.5	5.8	4.3	3.5
29	4.5	5.0	5.4	4.0	------	6.4	8.6	5.6	4.5	5.4	4.1	3.7
30	4.3	4.9	5.2	4.1	------	6.4	8.3	5.6	4.5	5.2	4.1	3.8
31	4.3	------	5.8	6.6	------	6.2	------	5.6	------	5.0	4.1	------

Monthly discharge of Southern Pacific Co.'s ditch near Whitewater, Calif., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	17.6	3.4	5.84	359
November	8.3	4.3	4.89	291
December	12.8	4.9	6.22	382
January	6.6	4.0	4.67	287
February	12.5	5.0	7.01	389
March	7.0	5.4	6.21	382
April	28	4.7	8.73	519
May	7.7	5.6	6.45	397
June	5.8	4.5	4.97	296
July	6.8	3.8	5.13	315
August	6.6	3.8	4.69	288
September	4.1	3.5	3.75	223
The year	28	3.4	5.70	4,130

FALLS CREEK NEAR WHITEWATER, CALIF.

LOCATION.—In NE. ¼ NE. ¼ sec. 33, T. 3 S., R. 3 E., 3¼ miles southwest of Whitewater, Riverside County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—September 1, 1922, to September 30, 1926.

GAGE.—Water-stage recorder on right bank 2¼ miles above junction with Snow Creek.

DISCHARGE MEASUREMENTS.—Made from foot log at gage or by wading.

CHANNEL AND CONTROL.—Channel is composed of boulders and is rough. Trees and brush along each bank collect drift during high stages. Control is a weir just below gage.

EXTREMES OF STAGE.—Not reported.

DIVERSIONS.—None.

REGULATION.—None.

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

Daily discharge, in second-feet, of Falls Creek near Whitewater, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	1.5	1.8	2.2	2.0	1.6	1.7	5.5	3.0	2.4	2.4	2.3
2	.9	1.6	4.0	1.9	1.7	1.6	1.8	7.5	3.0	2.4	2.4	2.3
3	.9	1.6	3.6	1.8	2.1	1.6	1.7	6.0	3.0	2.4	3.1	2.2
4	7.5	1.9	2.7	1.8	1.9	1.8	1.8	5.2	3.0	2.4	3.3	2.2
5	5.1	1.8	2.4	1.7	1.8	1.9	8.2	5.2	3.0	2.3	3.1	2.1
6	4.6	1.8	2.3	1.6	1.7	1.8	21	5.0	2.9	2.3	4.9	2.2
7	3.0	1.8	2.1	1.6	1.7	1.9	12.9	4.7	2.8	2.2	4.6	2.3
8	2.4	1.8	2.0	1.6	1.7	2.0	13	4.5	2.8	2.3	3.0	2.4
9	2.1	1.8	2.0	1.6	1.6	2.0	9.8	4.2	2.7	2.4	2.7	2.4
10	2.0	1.7	1.9	1.6	1.6	1.9		4.2	2.7	2.4	2.6	2.3
11	1.8	1.7	1.8	1.6	1.6	1.8		4.2	2.6	2.4	2.5	2.2
12	1.8	1.8	1.8	1.6	2.4	1.7		4.2	2.8	2.4	2.5	2.2
13	1.8	1.7	1.8	1.6	3.3	1.6		4.1	3.0	2.3	2.5	2.1
14	1.7	1.6	1.8	1.6	2.8	1.6		3.9	2.9	2.2	2.4	2.2
15	1.7	1.6	1.8	1.6	2.6	1.7		3.8	2.8	2.2	2.4	2.2
16	1.6	1.7	1.7	1.6	2.4	1.8	9.0	3.9	2.8	2.2	2.3	2.2
17	1.6	1.7	1.7	1.6	2.3	1.7		3.9	2.9	2.4	2.3	2.3
18	1.6	1.7	1.8	1.6	2.2	1.7		4.0	2.9	2.6	2.4	2.0
19	1.5	1.7	1.8	1.6	2.1	1.8		4.1	2.9	2.6	2.4	2.2
20	1.5	1.7	1.8	1.6	1.9	1.8		4.0	2.9	2.4	2.4	2.1
21	1.4	1.7	1.8	1.5	1.8	1.8		3.9	2.8	2.4	2.4	2.1
22	1.5	1.7	1.8	1.5	1.8	1.8		3.6	2.8	2.4	2.4	1.8
23	1.5	1.7	1.8	1.5	1.8	1.7		3.8	2.7	2.4	2.4	1.7
24	1.4	2.0	1.8	1.5	1.7	1.7	5.4	3.7	2.8	2.4	2.4	1.8
25	1.4	2.3	1.8	1.5	1.7	1.7	5.6	3.6	2.6	2.3	2.4	2.2
26	1.4	2.0	1.6	1.5	1.6	1.8	5.6	3.5	2.5	2.5	2.5	2.4
27	1.4	1.9	1.7	1.5	1.7	1.7	5.6	3.5	2.6	2.6	2.5	2.6
28	1.4	1.9	1.8	1.5	1.7	1.7	5.8	3.5	2.5	2.5	2.4	2.6
29	1.4	1.8	1.8	1.5	------	1.7	5.7	3.5	2.4	2.4	2.4	2.6
30	1.4	1.8	1.8	1.5	------	1.7	5.3	3.5	2.4	2.3	2.4	2.7
31	1.5	------	2.2	2.0	------	1.7	------	3.5	------	2.2	2.3	------

NOTE.—Gage-height record Apr. 10-23 lost in flood; braced figure shows estimated mean discharge for period.

Monthly discharge of Falls Creek near Whitewater, Calif., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	7.5	0.9	1.99	122
November	2.3	1.5	1.77	105
December	4.0	1.6	2.02	124
January	2.2	1.5	1.63	100
February	3.3	1.6	1.97	109
March	2.0	1.6	1.75	108
April	21	1.7	7.90	470
May	7.5	3.5	4.25	261
June	3.0	2.4	2.78	165
July	2.6	2.2	2.37	146
August	4.9	2.3	2.67	164
September	2.7	1.7	2.23	133
The year	21	.9	2.77	2,010

OWENS LAKE BASIN

OWENS RIVER AT PLEASANT VALLEY, NEAR BISHOP, CALIF.

LOCATION.—In NW. ¼ sec. 24, T. 6 S., R. 31 E., 1,000 feet above Owens River Canal intake, 1½ miles east of Round Valley, and 8 miles northwest of Bishop, Inyo County. Rock Creek enters 2 miles above.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—March 9, 1918, to September 30, 1926.

GAGE.—Water-stage recorder on right bank 1,000 feet above Owens River Canal intake.

DISCHARGE MEASUREMENTS.—Made from cable 25 feet above gage or by wading.

CHANNEL AND CONTROL.—Bed of stream rock and gravel. One channel at all stages, straight above and below gage. Banks high and clean, edge of low-water channel covered with young willows.

EXTREMES OF DISCHARGE.—1918–1926: Maximum mean daily discharge recorded, 1,210 second-feet June 21, 1918; minimum, 98 second-feet December 26, 1921.

DIVERSIONS.—Water diverted for irrigation from Rock Creek and Pine Creek above gage.

REGULATION.—No information.

COOPERATION.—Daily discharge record and list of discharge measurements furnished by city of Los Angeles.

Discharge measurements of Owens River at Pleasant Valley, near Bishop, Calif., during the years ending September 30, 1918–1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
1918	*Feet*	*Sec.-ft.*	1922	*Feet*	*Sec.-ft.*	1924	*Feet*	*Sec.-ft.*
Mar. 15	3.33	244	Mar. 29	3.01	297	July 23	2.14	119
May 15	3.10	246	May 27	3.86	463	Aug. 13	2.11	116
June 21	6.47	1,220	June 8	5.34	992	Sept. 3	2.50	123
Aug. 10	2.92	208	June 10	5.09	835	Sept. 23	2.31	135
Sept. 18	3.00	226	June 20	5.70	940	Oct. 14	2.49	145
1919			July 6	5.50	977	Oct. 30	2.65	166
Jan. 16	2.98	237	July 22	4.27	600	Nov. 21	2.78	163
Feb. 26	3.08	246	Aug. 7	3.27	333	Dec. 11	2.66	186
Mar. 15	3.08	243	Sept. 2	3.11	288			
Apr. 1	3.77	379	Sept. 26	2.84	236	1925		
May 30	5.74	990	Nov. 4	2.98	210	Jan. 8	2.66	162
June 26	3.26	339	Dec. 7	2.88	203	Jan. 28	2.82	203
July 23	2.92	212	1923			Feb. 18	2.70	191
Aug. 27	2.71	186	Jan. 12	3.16	239	Mar. 16	2.51	168
1920			Feb. 5	3.17	246	Apr. 9	2.66	158
Mar. 1	3.18	244	Feb. 24	3.63	334	Apr. 15	2.54	141
Mar. 3	3.14	241	Mar. 8	3.28	281	May 8	2.84	169
Aug. 15	2.74	202	Mar. 29	2.97	215	May 29	3.46	279
Aug. 27	3.10	240	Apr. 14	2.87	200	Do	3.40	275
Sept. 25	2.70	174	May 12	3.04	236	June 17	3.43	285
Oct. 2	2.60	177	May 22	3.78	387	July 2	4.62	583
Oct. 22	2.90	223	June 15	3.68	378	July 17	3.58	308
Do	2.95	244	June 26	3.28	306	Aug. 5	3.00	203
Oct. 30	2.86	189	July 9	3.81	421	Aug. 24	2.70	162
Dec. 16	3.06	191	Aug. 13	3.20	275	Sept. 25	2.86	165
1921			Sept. 4	2.98	246	Oct. 8	3.00	181
Jan. 8	3.06	189	Sept. 19	2.92	226	Oct. 29	3.01	188
Feb. 23	3.14	213	Oct. 6	2.96	223	Nov. 19	3.05	178
Mar. 23	2.92	183	Oct. 30	3.06	220	Dec. 8	3.11	187
May 27	3.28	254	Nov. 10	3.37	290	1926		
June 18	4.11	513	Dec. 4	3.00	211	Jan. 20	2.81	148
July 1	4.20	564	1924			Feb. 16	3.12	184
July 18	3.88	402	Jan. 10	3.03	208	Mar. 12	3.46	251
July 30	3.37	266	Jan. 24	2.94	189	Mar. 30	3.06	177
Aug. 25	2.96	192	Feb. 7	3.01	229	Apr. 20	2.95	187
Sept. 13	3.00	210	Feb. 27	2.80	195	May 4	3.49	291
Oct. 23	2.69	173	Mar. 19	2.98	221	May 27	3.68	333
Nov. 8	2.68	200	Apr. 7	2.75	190	June 8	4.16	469
1922			Apr. 29	2.65	164	June 29	3.14	231
Jan. 12	2.82	227	May 14	2.57	166	July 13	2.94	184
Feb. 25	2.88	261	June 2	2.44	155	Aug. 3	2.59	147
			June 20	2.30	129	Aug. 18	2.54	141
			July 3	2.29	135	Sept. 1	2.58	137
						Sept. 30	2.75	152

Daily discharge, in second-feet, of Owens River at Pleasant Valley, near Bishop, Calif., for the years ending September 30, 1918–1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1918												
1							491	272	272	586	260	229
2							551	277	291	558	254	223
3							453	282	310	529	248	217
4							355	300	342	502	240	211
5							401	318	375	474	233	205
6							447	308	446	460	226	199
7							408	298	518	447	219	193
8							370	288	580	414	216	195
9						315	458	278	643	380	214	197
10						322	436	267	732	365	212	199
11						330	415	260	820	350	210	200
12						320	392	253	943	335	208	208
13						310	370	252	1,070	320	226	217
14						301	345	250	1,190	312	244	226
15						303	320	248	1,190	303	240	226
16						309	305	255	1,160	300	235	227
17						315	291	262	1,130	296	232	228
18						348	282	258	1,140	294	230	228
19						380	272	253	1,150	291	229	217
20						362	274	260	1,180	291	228	212
21						345	277	268	1,210	291	226	206
22						345	282	275	1,140	272	225	214
23						345	286	282	1,070	253	224	222
24						356	282	290	995	250	222	230
25						367	277	298	923	248	221	239
26						378	277	299	851	242	220	280
27						390	277	300	779	235	219	321
28						400	262	300	702	243	225	362
29						410	267	301	637	251	230	403
30						420	270	301	614	259	232	444
31						431		286		267	235	
1918–19												
1	532	261	282	192	230	228	408	311	635	246	174	172
2	620	260	277	178	229	222	435	331	588	245	185	171
3	558	258	272	204	228	217	435	352	541	246	196	168
4	496		272	230	227	218	435	372	518	248	223	164
5	458		272	227	226	220	385	386	495	250	250	169
6	420		272	224	240	222	335	400	492	252	276	174
7	398		272	221	253	224	294	413	489	254	228	179
8	375		272	218	252	226	252	415	474	256	181	184
9	369		264	215	251	217	266	412	460	266	190	181
10	363		256	219	250	208	280	410	436	276	200	178
11	343		248	223	242	222	288	410	412	276	206	178
12	323		249	222	235	235	295	425	388	275	202	179
13	332		250	222	238	242	278	430	364	278	199	180
14	341		249	220	241	248	262	442	345	280	198	181
15	350		248	217	243	226	262	454	325	271	196	181
16	339		249	222	246	226	262	466	305	262	201	181
17	328		250	228	248	226	262	478	285	255	206	181
18	312		247	235	226	229	258	489	265	248	210	181
19	296		244	242	204	232	255	478	276	247	214	182
20	290		240	248	217	235	252	466	288	246	210	183
21	284		237	246	230	238	248	535	284	245	206	182
22	278		244	244	232	241	245	593	280	245	205	180
23	272		228	242	235	244	246	623	303	218	204	177
24	270		213	239	266	247	247	653	326	199	195	174
25	267		228	237	222	250	248	703	301	186	187	174
26	270		244	235	244	253	255	753	276	174	186	174
27	272		217	228	239	260	262	804	270	194	186	185
28	267		248	222	234	267	277	854	265	214	185	196
29	262		234	222		315	292	963	256	198	184	208
30	262		220	222		348	307	980	248	181	179	201
31	262		206	226		380		808		174	174	
1919–20												
1	194	214	292	236	265	262	299	186	512	347	262	212
2	187	221	275	234	266	258	295	186	516	341	259	217
3	200	228	258	231	267	255	280	189	521	335	256	232
4	214	224	260	236	274	260	265	192	520	336	259	248
5	212	220	262	241	280	265	258	194	518	338	262	246

Daily discharge, in second-feet, of Owens River at Pleasant Valley, near Bishop, Calif., for the years ending September 30, 1918–1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1919–20												
6	211	222	256	228	266	280	251	196	544	339	245	243
7	204	223	251	214	251	296	248	216	570	328	228	224
8	196	225	252	208	250	302	246	236	588	318	233	206
9	196	226	254	202	249	308	244	234	605	310	238	206
10	196	227	255	212	248	315	241	233	595	301	233	205
11	196	228	252	222	250	322	250	232	585	285	228	202
12	197	230	248	236	252	332	258	231	560	269	222	199
13	197	232	240	250	255	342	240	238	535	274	217	194
14	197	234	231	265	258	351	222	246	520	280	205	190
15	197	234	234	253	260	310	220	247	506	272	193	188
16	198	236	236	241	262	269	219	248	494	263	188	187
17	198	237	231	242	262	267	224	255	483	268	184	186
18	198	238	226	244	262	265	229	262	494	272	184	186
19	198	239	244	246	262	280	232	312	504	248	184	185
20	199	240	262	247	262	296	234	362	540	224	188	184
21	200	241	260	248	262	283	216	364	576	228	192	182
22	201	242	258	250	256	270	199	367	573	231	190	179
23	202	243	256	252	250	258	198	370	570	248	187	195
24	202	244	253	254	245	282	198	372	530	265	227	211
25	211	246	250	255	239	307	192	366	489	252	267	202
26	220	246	248	258	233	276	186	360	466	238	258	193
27	222	245	245	260	240	256	186	392	433	222	248	188
28	224	244	242	262	246	304	187	425	422	205	232	183
29	222	243	240	273	254	364	186	464	412	196	216	181
30	220	268	238	284	------	334	186	504	380	187	211	179
31	217	------	238	274	------	303	------	508	------	224	206	------
1920–21												
1	180	190	202	222	216	350	176	173	293	570	220	171
2	180	190	194	225	220	335	174	177	291	582	230	192
3	190	190	186	223	225	325	170	178	289	582	220	205
4	200	191	178	255	202	292	165	183	291	550	205	195
5	192	191	169	230	180	265	166	187	320	470	213	192
6	185	191	187	220	212	248	174	207	430	425	199	177
7	202	216	205	200	205	243	170	222	590	400	207	173
8	220	240	201	208	230	235	170	205	740	365	235	186
9	216	232	197	196	217	230	165	202	840	355	310	177
10	211	225	204	177	215	230	163	202	985	335	266	173
11	212	228	211	162	225	225	159	212	1,060	340	260	199
12	212	232	208	178	232	215	158	228	1,170	330	239	197
13	210	244	204	202	245	230	214	242	1,180	338	215	173
14	207	259	200	213	242	255	227	295	1,070	325	205	184
15	210	252	196	210	230	245	193	287	950	295	218	173
16	212	245	192	210	218	230	180	270	666	330	205	161
17	217	238	194	213	213	216	177	297	620	406	203	159
18	222	233	197	235	210	202	171	280	500	422	209	148
19	224	228	186	223	205	193	165	289	450	354	195	147
20	227	223	176	210	205	190	153	289	425	302	186	140
21	230	218	188	223	213	205	152	353	430	324	182	138
22	233	215	200	213	205	195	156	340	525	354	188	140
23	224	212	204	213	216	195	150	410	625	377	201	140
24	216	210	208	225	227	206	152	345	610	337	193	132
25	205	207	212	223	250	195	167	265	655	302	182	124
26	197	210	216	226	275	177	165	250	647	266	181	124
27	189	212	219	225	295	194	166	248	670	241	184	124
28	189	207	221	225	335	194	165	287	662	245	175	124
29	190	202	223	217	------	182	172	287	625	243	186	128
30	190	202	226	214	------	175	167	295	585	250	182	130
31	190	------	228	218	------	172	------	308	------	247	179	------
1921–22												
1	170	185	218	331	203	230	327	238	786	1,010	464	358
2	172	188	200	319	199	247	338	232	791	958	491	333
3	175	200	165	250	205	253	396	240	804	948	563	288
4	183	204	180	241	230	244	472	250	843	951	424	286
5	187	204	185	244	256	224	429	266	882	962	385	286
6	196	200	180	230	230	247	328	270	905	965	365	241
7	203	202	175	247	238	241	321	284	919	916	345	244
8	190	202	182	230	258	224	312	288	895	851	330	247
9	185	202	185	215	288	238	303	260	860	818	360	250
10	182	200	182	221	221	230	304	244	854	772	333	248

Daily discharge, in second-feet, of Owens River at Pleasant Valley, near Bishop, Calif., for the years ending September 30, 1918–1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1921–22												
11	184	199	187	215	244	224	355	232	809	740	308	246
12	183	200	191	187	122	203	325	228	772	743	290	250
13	181	185	202	183	181	276	264	248	727	731	274	246
14	174	190	212	191	293	258	315	272	732	727	264	242
15	174	191	199	213	282	241	286	292	691	646	260	244
16	173	180	188	218	302	250	258	305	739	651	254	244
17	174	168	172	256	319	244	220	328	800	646	250	240
18	173	160	199	105	311	238	225	358	857	640	242	244
19	172	185	175	102	302	235	295	378	905	634	236	244
20	174	199	310	163	290	232	388	392	951	628	242	248
21	174	205	235	199	288	232	405	380	979	622	254	250
22	174	235	235	211	261	215	395	365	962	595	246	250
23	176	252	225	227	256	224	509	408	909	545	246	262
24	192	220	220	224	244	256	488	452	919	503	258	254
25	196	204	178	227	241	264	388	506	979	455	284	246
26	200	205	98	227	258	273	388	491	1,040	420	290	238
27	193	208	180	230	258	273	348	482	1,100	392	305	239
28	210	220	210	203	235	273	302	518	1,120	370	315	240
29	212	208	226	193	-------	290	272	551	1,060	350	365	241
30	211	218	252	171	-------	351	254	595	1,040	362	358	242
31	194	-------	285	207	-------	368	-------	662	-------	405	328	------
1922–23												
1	242	226	240	244	252	330	206	182	290	448	284	223
2	241	219	240	257	236	320	198	180	306	501	266	216
3	235	210	244	247	247	284	202	185	278	510	252	223
4	233	215	240	262	254	239	206	185	268	514	244	239
5	231	227	238	264	252	255	206	188	272	488	242	237
6	229	229	246	257	246	302	252	196	276	491	241	232
7	226	233	225	252	239	322	264	199	282	494	228	214
8	219	248	243	246	241	302	262	209	294	447	230	223
9	216	245	239	241	236	280	212	216	315	391	223	225
10	212	241	260	239	207	246	241	230	392	361	219	223
11	211	245	223	242	190	282	296	240	460	361	217	226
12	215	246	223	246	172	292	218	256	466	361	237	230
13	216	249	233	226	154	294	202	260	450	363	286	262
14	208	244	221	228	200	264	199	260	408	413	261	270
15	216	248	255	230	272	254	196	270	382	491	248	255
16	219	249	256	226	272	270	198	296	398	438	255	237
17	217	252	260	233	304	314	206	340	365	383	266	216
18	217	244	255	252	312	304	215	370	330	330	271	219
19	216	238	251	257	310	296	225	375	304	306	284	232
20	216	238	252	264	298	296	182	388	345	290	271	230
21	217	237	246	262	336	258	186	466	315	288	262	228
22	216	233	246	257	360	242	194	405	296	299	250	219
23	219	226	233	250	358	244	193	385	295	306	237	228
24	219	226	243	278	368	247	201	375	294	306	230	226
25	219	226	252	262	374	234	207	370	292	295	226	230
26	220	228	246	247	340	220	206	353	290	295	221	242
27	221	231	249	231	302	218	206	343	312	295	217	224
28	219	234	228	230	322	215	193	345	350	284	217	211
29	216	239	233	241	-------	215	188	338	380	286	230	200
30	219	231	255	244	-------	209	184	318	420	295	226	193
31	225	-------	255	247	-------	207	-------	292	-------	310	225	------
1923–24												
1	190	225	215	165	224	210	196	158	147	106	132	128
2	192	221	205	152	229	214	192	160	141	116	130	133
3	194	225	220	215	234	192	187	167	145	132	131	130
4	192	219	215	237	254	193	180	165	140	140	134	127
5	190	219	217	215	260	194	178	163	133	135	132	134
6	197	219	224	215	277	195	182	163	125	132	130	131
7	226	219	250	219	260	196	187	163	125	132	130	128
8	241	225	207	223	260	158	181	165	130	134	130	130
9	230	250	158	203	292	165	169	163	129	134	127	128
10	215	297	160	219	251	172	172	169	130	138	127	130
11	206	245	186	217	225	178	171	171	125	135	127	131
12	200	232	212	211	231	180	167	163	120	139	121	130
13	202	232	239	209	240	183	174	163	120	137	117	125
14	204	230	232	205	247	186	176	163	123	139	116	130
15	204	230	232	198	247	189	167	154	117	121	118	130

Daily discharge, in second-feet, of Owens River at Pleasant Valley, near Bishop, Calif., for the years ending September 30, 1918–1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1923–24												
16	197	226	224	213	238	185	162	151	119	113	118	127
17	196	226	219	202	238	180	189	147	117	123	120	127
18	198	228	217	200	240	174	181	158	106	127	121	125
19	200	226	217	198	238	242	180	162	109	125	121	124
20	202	228	211	196	236	230	178	162	116	127	124	123
21	207	220	207	194	231	217	174	174	113	131	125	125
22	209	219	185	200	214	205	162	183	110	128	131	128
23	207	220	187	200	218	208	160	187	106	121	126	131
24	211	217	211	200	210	234	158	174	101	118	124	131
25	219	215	217	202	203	234	156	155	102	123	122	127
26	223	212	219	207	196	248	154	151	106	131	119	128
27	225	210	177	209	201	262	165	152	110	130	118	133
28	225	207	200	211	204	240	174	150	109	130	120	136
29	223	220	226	211	207	238	172	148	110	128	123	138
30	223	232	202	213	------	205	169	146	106	128	123	141
31	225	------	155	219	------	208	------	145	------	132	125	------
1924–25												
1	140	167	186	218	190	172	178	148	256	495	194	163
2	140	194	186	197	207	179	184	137	201	588	220	158
3	136	222	186	191	213	170	158	139	220	534	248	167
4	130	192	186	185	211	176	158	164	208	482	216	175
5	134	192	192	180	247	177	182	168	192	439	198	165
6	134	192	184	178	285	167	280	154	190	417	189	161
7	156	186	216	167	250	162	210	162	181	385	180	157
8	144	180	216	167	202	149	170	173	166	348	188	156
9	141	184	218	168	177	146	148	183	148	318	210	157
10	137	246	210	168	186	159	144	183	145	293	298	156
11	152	335	226	159	177	147	150	197	145	295	272	153
12	152	260	204	166	194	147	145	188	146	280	254	152
13	160	216	198	162	192	148	140	190	172	271	234	154
14	154	198	204	168	187	150	140	201	224	263	216	158
15	144	212	204	166	197	146	142	180	256	267	206	156
16	156	212	202	158	197	147	147	159	268	305	195	150
17	162	214	200	171	194	140	167	159	276	292	180	152
18	155	198	174	170	190	147	156	151	274	311	172	153
19	161	214	155	175	190	153	147	152	276	411	168	158
20	164	208	144	178	197	162	140	162	296	436	166	157
21	167	230	164	177	190	175	158	159	323	400	162	159
22	161	212	196	180	194	194	198	146	341	348	158	163
23	161	208	206	184	194	184	169	150	333	290	161	163
24	156	204	178	194	188	151	166	142	355	261	164	165
25	150	192	142	202	183	148	162	143	372	235	158	168
26	154	188	142	192	188	142	166	169	394	210	163	169
27	162	186	143	188	179	137	161	194	414	205	169	161
28	156	180	172	198	172	134	161	228	444	190	158	169
29	192	192	224	209	------	138	164	280	439	176	166	170
30	162	188	280	220	------	151	165	286	450	188	155	175
31	162	------	264	209	------	162	------	280	------	186	169	------
1925–26												
1	176	187	201	170	179	189	159	286	385	218	134	136
2	175	189	210	172	180	186	158	274	416	193	141	135
3	172	190	194	173	189	188	156	276	410	177	148	136
4	177	189	184	170	189	189	152	292	392	164	154	141
5	184	183	187	172	188	192	216	350	385	169	172	142
6	190	186	193	177	184	189	240	335	368	193	199	138
7	186	192	190	175	183	201	193	294	362	210	216	139
8	187	195	186	173	182	206	255	272	455	199	206	146
9	187	196	187	175	180	221	258	266	630	231	204	146
10	192	200	179	170	179	223	232	254	530	263	199	146
11	195	206	179	162	177	223	210	236	440	230	177	139
12	196	199	173	159	194	248	220	223	388	204	169	142
13	196	194	170	154	192	258	201	225	360	184	158	138
14	200	184	154	162	192	290	186	223	335	184	148	135
15	196	180	158	161	187	305	190	236	312	163	140	139
16	193	182	169	155	186	353	199	254	298	154	140	143
17	190	184	173	161	172	374	210	294	282	161	145	141
18	190	183	177	162	189	295	215	315	272	171	149	144
19	190	182	175	156	189	322	211	362	254	168	149	140
20	189	179	177	155	190	307	194	425	240	153	145	142

Daily discharge, in second-feet, of Owens River at Pleasant Valley, near Bishop, Calif., for the years ending September 30, 1918–1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1925–26												
21	187	173	182	156	186	284	194	458	228	137	154	140
22	187	173	187	162	184	277	198	476	232	134	154	140
23	189	180	191	166	183	270	206	451	222	134	153	150
24	189	183	187	160	188	261	216	443	234	134	152	152
25	187	183	183	165	188	252	242	422	213	124	149	151
26	186	190	182	151	190	210	248	378	203	128	148	154
27	184	191	184	153	189	198	282	335	208	131	140	154
28	186	191	182	160	188	184	298	315	220	127	141	154
29	187	191	179	210	------	184	286	308	227	130	138	152
30	187	191	176	174	------	174	278	330	234	129	136	154
31	187	------	173	177	------	169	------	358	------	133	136	------

Monthly discharge of Owens River at Pleasant Valley, near Bishop, Calif., for the years ending September 30, 1918–1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1918				
March 9–31	431	301	352	16,100
April	551	262	346	20,600
May	318	248	279	17,200
June	1,210	272	813	48,400
July	586	235	343	21,100
August	260	208	228	14,000
September	444	193	239	14,200
The period				152,000
1918–19				
October	620	262	349	21,500
November	------	------	[a] 264	15,700
December	282	206	249	15,300
January	248	178	225	13,800
February	266	204	237	13,200
March	380	208	244	15,000
April	435	245	294	17,500
May	980	311	536	33,000
June	635	248	373	22,200
July	280	174	239	14,700
August	276	174	201	12,400
September	208	164	180	10,700
The year	980	------	283	205,000
1919–20				
October	224	187	204	12,500
November	268	214	235	14,000
December	292	226	250	15,400
January	284	202	244	15,000
February	280	233	256	14,700
March	364	255	293	18,000
April	299	186	230	13,700
May	508	186	296	18,200
June	605	380	519	30,900
July	347	187	272	16,700
August	267	184	223	13,700
September	248	179	201	12,000
The year	605	179	268	195,000
1920–21				
October	233	180	206	12,700
November	259	190	218	13,000
December	228	169	201	12,400
January	255	162	214	13,200
February	335	180	227	12,600
March	350	172	227	14,000
April	227	150	170	10,100
May	410	173	258	15,900
June	1,180	289	640	38,100
July	582	241	363	22,300
August	310	175	209	12,900
September	205	124	161	9,580
The year	1,180	124	258	187,000

[a] Estimated.

Monthly discharge of Owens River at Pleasant Valley, near Bishop, Calif., for the years ending September 30, 1918–1926—Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1921–22				
October	212	170	185	11,400
November	252	160	201	12,000
December	310	98	201	12,400
January	331	102	215	13,200
February	319	122	251	13,900
March	368	203	252	15,500
April	509	220	340	20,200
May	662	228	355	21,800
June	1,120	691	888	52,800
July	1,010	350	676	41,600
August	563	236	320	19,700
September	358	238	256	15,200
The year	1,120	98	345	250,000
1922–23				
October	242	208	221	13,600
November	252	210	235	14,000
December	260	221	243	14,900
January	278	226	247	15,200
February	374	154	273	15,200
March	330	207	266	16,400
April	296	182	211	12,600
May	466	180	291	17,900
June	466	268	338	20,100
July	514	284	375	23,100
August	286	217	244	15,000
September	270	193	228	13,600
The year	514	154	264	192,000
1923–24				
October	241	190	209	12,900
November	297	207	226	13,400
December	250	155	208	12,800
January	237	152	206	12,700
February	292	196	235	13,500
March	262	158	204	12,500
April	196	154	174	10,400
May	187	145	161	9,900
June	147	101	120	7,140
July	140	106	129	7,930
August	134	116	125	7,690
September	141	123	130	7,740
The year	297	101	177	129,000
1924–25				
October	192	130	153	9,410
November	335	167	207	12,300
December	280	142	194	11,900
January	220	158	182	11,200
February	285	172	199	11,100
March	194	134	157	9,650
April	280	140	165	9,820
May	286	137	178	10,900
June	450	145	270	16,100
July	588	176	326	20,000
August	298	155	193	11,900
September	175	150	161	9,580
The year	588	130	199	144,000
1925–26				
October	200	172	188	11,600
November	206	173	188	11,200
December	210	154	181	11,100
January	210	151	166	10,200
February	194	172	186	10,300
March	374	169	239	14,700
April	298	152	217	12,900
May	476	223	321	19,700
June	630	203	324	19,300
July	263	124	169	10,400
August	216	134	158	9,720
September	154	135	144	8,570
The year	630	124	207	150,000

OWENS RIVER NEAR BIG PINE, CALIF.

LOCATION.—In sec. 2, T. 11 S., R. 34 E., at Charlies Butte, 11 miles southeast of Big Pine, Inyo County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—September 20, 1906, to September 30, 1926.

GAGE.—Water-stage recorder on left bank.

DISCHARGE MEASUREMENTS.—Made from cable at gage or by wading.

CHANNEL AND CONTROL.—Sand and gravel; shifts slightly. Right bank high; left bank subject to overflow during floods.

EXTREMES OF DISCHARGE.—Maximum mean daily discharge during year, 521 second-feet June 11; minimum, 51 second-feet September 17 and 18.

1906–1926: Maximum stage recorded, 11.2 feet about 9 p. m. January 26, 1914 (discharge, from extension of rating curve, about 3,220 second-feet); minimum, −0.05 foot June 13–16, 1908 (discharge, 36 second-feet).

ICE.—Stage-discharge relation not affected by ice.

DIVERSIONS.—On account of diversions above station, record does not indicate total run-off from drainage area.

REGULATION.—Flow is partly regulated by diversions.

ACCURACY.—Stage-discharge relation not permanent. Standard rating curve fairly well defined. Good record from water-stage recorder. Daily discharge ascertained by applying mean daily gage height to rating table, using shifting-control method. Records good.

COOPERATION.—Gage-height record and discharge measurements furnished by city of Los Angeles.

Discharge measurements of Owens River near Big Pine, Calif., during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 6	1.65	161	Jan. 26	2.48	285	May 11	1.14	95
Oct. 15	2.08	239	Feb. 3	2.81	323	May 24	1.44	133
Oct. 20	2.20	244	Feb. 10	2.83	316	June 1	2.62	309
Oct. 27	2.21	237	Feb. 19	2.70	305	June 11	3.80	522
Nov. 3	2.25	242	Feb. 26	2.53	271	June 21	2.15	212
Nov. 10	2.40	269	Mar. 5	2.59	285	July 9	1.45	134
Nov. 25	2.47	264	Mar. 16	3.10	383	July 16	1.36	124
Dec. 10	2.45	262	Mar. 22	2.80	293	July 27	1.00	89
Dec. 17	2.34	261	Apr. 1	2.20	216	Aug. 11	1.12	95
Dec. 23	2.50	274	Apr. 9	2.15	218	Aug. 27	.76	67
Dec. 30	2.45	273	Apr. 23	1.58	143	Sept. 3	.60	53
Jan. 11	2.40	260	May 3	1.52	144	Sept. 29	.92	89

Daily discharge, in second-feet, of Owens River near Big Pine, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	127	238	270	273	356	285	213	130	322	173	80	56
2	135	238	282	271	342	283	208	130	355	172	83	55
3	143	242	287	270	329	287	206	141	373	163	83	53
4	146	242	283	266	351	287	202	133	375	156	77	53
5	154	242	270	264	346	287	202	124	371	150	78	54
6	161	245	270	261	335	287	220	127	373	149	88	56
7	169	259	276	263	329	287	263	139	368	146	102	59
8	179	270	273	263	319	290	240	127	364	148	99	57
9	184	275	256	259	310	298	218	116	398	134	102	57
10	193	270	256	259	314	312	264	102	460	153	104	57
11	202	273	258	259	314	322	234	95	521	183	100	56
12	211	288	259	253	321	324	222	91	479	180	93	57
13	220	283	261	250	370	333	213	85	436	158	83	57
14	229	273	263	237	394	349	202	73	416	149	79	57
15	238	270	256	243	381	375	183	69	394	143	80	57

Daily discharge, in second-feet, of Owens River near Big Pine, Calif., for the year ending September 30, 1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
16	250	263	254	251	353	400	167	73	356	126	78	54
17	251	258	263	245	328	422	154	76	319	115	73	51
18	254	259	270	248	298	438	145	81	288	112	76	51
19	253	264	270	250	305	454	150	106	237	113	77	55
20	246	261	275	242	302	498	156	106	222	117	79	57
21	251	263	270	240	297	432	149	108	214	117	78	58
22	250	261	268	243	290	295	144	106	206	108	80	61
23	245	259	276	273	285	322	133	117	202	102	80	65
24	240	259	283	282	275	322	114	130	196	98	78	67
25	240	264	283	285	273	300	108	134	196	97	75	73
26	240	268	276	285	271	314	100	125	189	96	72	87
27	237	270	276	282	283	292	103	153	182	92	69	96
28	238	270	275	282	285	270	100	218	172	86	66	94
29	238	273	270	312	------	248	112	208	174	84	64	89
30	240	273	271	370	------	237	121	226	179	80	62	95
31	238	----	271	379	------	226	------	263	------	79	58	------

Monthly discharge of Owens River near Big Pine, Calif., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	254	127	213	13,100
November	288	238	262	15,600
December	287	254	270	16,600
January	379	237	270	16,600
February	394	271	320	17,800
March	498	226	325	20,000
April	264	100	175	10,400
May	263	69	126	7,750
June	521	172	311	18,500
July	183	79	128	7,870
August	104	58	80.5	4,950
September	96	51	63.1	3,750
The year	521	51	211	153,000

ROCK CREEK AT SHERWIN HILL, NEAR BISHOP, CALIF.

LOCATION.—In SW. ¼ SW. ¼ sec. 29, T. 5 S., R. 31 E., at Sherwin Hill, 5 miles northwest of Round Valley and 14 miles northwest of Bishop, Inyo County. Pine Creek enters 3 miles below the station.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—August 1, 1922, to September 30, 1926. A station was maintained 3 miles below, just above mouth of Pine Creek, from August 3, 1903, to November 10, 1923.

GAGE.—Water-stage recorder on left bank just above a brush dam and ditch supplying water for a small generator and a hydraulic ram.

DISCHARGE MEASUREMENTS.—Made from plank bridge at gage or by wading.

CHANNEL AND CONTROL.—Brush dam acts as control. One channel at all stages, slightly curved above and below gage.

EXTREMES OF DISCHARGE.—1922–1926: Maximum mean daily discharge recorded, 134 second-feet June 9, 1926; minimum, 2.4 second-feet December 10, 1923.

DIVERSIONS.—None above gage.

REGULATION.—None.

COOPERATION.—Daily-discharge record and discharge measurements furnished by city of Los Angeles.

Discharge measurements of Rock Creek at Sherwin Hill, near Bishop, Calif., during the years ending September 30, 1922–1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
1922	*Feet*	*Sec.-ft.*	1923	*Feet*	*Sec.-ft.*	1925	*Feet*	*Sec.-ft.*
June 10	[a] 1.30	91	Oct. 10	1.56	15	Mar. 17	1.49	11
June 21	[a] 1.37	127	Oct. 27	1.51	15	Apr. 10	1.58	14
July 12	2.67	82	Nov. 5	1.44	13	May 7	1.95	44
July 21	2.75	93	Dec. 3	1.51	16	May 27	1.95	45
Aug. 9	2.19	91				June 18	1.98	49
Aug. 22	1.69	28	1924			July 2	2.20	69
Sept. 6	1.67	25	Feb. 8	1.41	9.9	July 16	2.00	54
Sept. 26	1.59	20	Feb. 28	1.48	14	Aug. 6	1.75	34
Nov. 8	1.56	16	Mar. 18	1.34	7.8	Aug. 24	1.59	23
Dec. 6	1.55	16	Apr. 8	1.50	15	Sept. 21	1.45	13
			Apr. 30	1.49	16	Oct. 8	1.46	14
1923			May 12	1.72	27	Oct. 29	1.48	12
Jan. 8	1.55	15	June 3	1.62	18	Nov. 19	1.44	10
Jan. 25	1.36	12	June 19	1.63	17	Dec. 7	1.46	10
Feb. 7	1.49	13	July 3	1.64	20			
Feb. 21	1.55	17	July 22	1.50	15	1926		
Mar. 7	1.41	13	Aug. 14	1.42	12	Jan. 20	1.77	9.5
Mar. 24	1.54	15	Sept. 4	1.37	10	Feb. 16	1.44	9.3
Apr. 11	1.46	17	Sept. 22	1.42	10	Mar. 12	1.49	11
Apr. 23	1.51	14	Oct. 16	1.42	11	Mar. 29	1.50	12
May. 9	1.83	38	Oct. 31	1.50	8.2	Apr. 21	1.74	27
May 19	2.01	60	Nov. 21	1.55	8.5	May 4	1.87	40
June 9	1.75	30	Dec. 11	1.67	11	May 27	1.86	39
June 27	1.72	32				June 30	1.67	27
July 11	1.98	50	1925			Aug. 3	1.50	17
Aug. 3	1.82	41	Jan. 7	1.58	12	Aug. 19	1.51	13
Aug. 21	1.66	24	Jan. 28	1.52	12	Sept. 1	1.55	14
Sept. 6	1.66	26	Feb. 19	1.56	13	Sept. 30	1.44	9.6
Sept. 20	1.60	17	Do	1.63	18			

[a] Referred to gage of Sierra Power Co.

Daily discharge, in second-feet, of Rock Creek at Sherwin Hill, near Bishop, Calif., for the years ending September 30, 1922–1926

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1922			1922			1922		
1	60	37	11	60	22	21	26	22
2	62	35	12	42	21	22	26	21
3	59	32	13	38	20	23	26	20
4	56	29	14	35	20	24	26	20
5	53	27	15	32	20	25	25	19
6	64	26	16	31	20	26	25	19
7	75	24	17	30	21	27	27	19
8	86	22	18	29	20	28	29	19
9	98	21	19	28	20	29	36	19
10	79	23	20	27	21	30	42	19
						31	40	

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1922-23												
1	19	13	14	18	20	18	18	20	38	64	47	25
2	18	15	14	18	39	17	18	22	36	74	45	25
3	16	17	15	18	59	16	18	23	34	84	40	25
4	16	19	16	18	39	17	18	24	33	94	35	24
5	17	21	16	18	19	17	18	24	30	104	32	24
6	16	23	17	18	17	14	14	28	28	98	29	25
7	15	21	9	18	14	11	9.5	32	29	91	27	23
8	15	17	14	18	18	16	14	36	30	80	25	22
9	15	17	20	18	27	14	19	39	32	69	24	22
10	15	16	20	18	35	12	19	43	40	64	22	22
11	14	16	20	17	30	14	19	46	49	59	21	22
12	14	14	20	14	26	16	19	49	52	59	25	21
13	14	11	19	10	22	14	19	51	54	56	29	20
14	14	14	17	12	18	11	19	53	49	54	33	21
15	14	17	16	13	17	10	19	56	45	56	36	21

Daily discharge, in second-feet, of Rock Creek at Sherwin Hill, near Bishop, Calif., for the years ending September 30, 1922–1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1922–23												
16	14	11	15	16	17	12	19	60	40	57	33	20
17	14	14	14	19	17	14	20	66	37	56	31	18
18	14	17	14	16	18	15	21	64	33	54	29	18
19	15	16	14	17	18	16	21	62	31	49	28	18
20	15	15	15	18	18	15	20	60	29	45	28	18
21	15	16	16	18	18	15	20	59	29	40	26	16
22	14	17	16	17	17	15	18	56	28	43	24	15
23	14	13	17	18	17	16	15	53	27	45	24	15
24	14	12	17	18	17	17	17	53	26	46	23	14
25	14	12	16	8.5	17	17	18	56	26	47	21	15
26	14	17	16	14	18	17	18	62	27	47	21	16
27	14	22	16	20	17	17	18	52	29	47	21	15
28	14	18	16	20	16	18	18	42	35	47	21	15
29	12	14	17	19	-------	18	19	43	45	47	21	16
30	11	14	17	24	-------	18	19	44	54	47	19	15
31	12	-------	17	29	-------	18	-------	39	-----	47	22	------
1923–24												
1	15	14	8.5	20	14	15	15	18	21	17	17	13
2	14	14	14	19	13	14	14	20	21	20	16	11
3	14	14	19	19	13	13	14	22	21	21	16	10
4	15	14	15	18	12	12	12	24	22	21	15	11
5	14	14	12	18	12	11	10	24	25	19	15	10
6	14	13	15	17	11	10	16	22	32	20	14	10
7	14	12	11	16	11	9.5	16	22	32	22	14	9.5
8	15	14	6.5	16	11	9.0	16	22	32	22	14	9.0
9	15	15	4.4	15	11	10	17	24	30	22	13	9.0
10	15	16	2.4	15	13	11	17	27	27	21	13	12
11	14	16	2.6	13	15	12	18	28	20	20	13	12
12	14	16	2.7	12	17	16	18	28	22	19	12	11
13	15	16	5.0	10	14	20	19	27	20	19	12	10
14	14	16	10	9	12	17	20	26	18	18	12	10
15	13	16	15	7.5	12	14	17	24	17	18	12	10
16	14	15	9.5	11	12	13	13	24	12	17	11	11
17	14	14	3.6	15	12	12	14	25	12	15	11	11
18	16	15	8.5	13	12	10	12	29	14	15	11	10
19	16	15	14	12	12	16	13	30	20	15	12	10
20	16	14	18	15	12	22	19	31	21	15	13	10
21	16	13	22	18	12	28	20	33	19	15	12	10
22	16	15	27	21	13	34	22	34	18	15	12	10
23	16	15	23	18	14	30	22	33	17	15	13	10
24	16	15	20	15	14	27	19	29	16	15	13	9.5
25	17	14	20	14	14	23	18	30	17	15	13	9.5
26	16	14	19	14	14	20	18	28	17	17	13	9.5
27	16	13	19	13	14	16	18	27	17	17	13	9.5
28	15	12	20	13	14	14	20	27	17	17	13	9.5
29	14	11	21	13	14	12	20	24	17	18	13	9.5
30	14	9.5	20	13	-------	13	17	22	17	19	13	9.5
31	14	-------	20	14	-------	14	-------	22	-------	18	13	------
1924–25												
1	9.5	9.0	10	19	13	12	11	23	42	72	31	16
2	9.5	9.5	11	19	13	12	14	26	43	73	31	15
3	9.5	10	11	27	14	12	13	28	43	72	35	15
4	9.5	8.0	9.5	28	13	13	14	30	41	72	40	16
5	9.5	7.5	13	20	14	13	14	32	41	67	37	15
6	9.5	8.0	12	20	14	12	14	34	21	62	35	14
7	10	5.5	10	22	13	12	14	44	21	59	33	13
8	10	7.0	12	30	18	12	15	48	20	58	30	13
9	10	8.0	13	26	15	12	15	45	20	56	31	12
10	9.5	9.5	12	32	11	13	15	32	21	56	31	12
11	9.5	8.5	13	32	15	10	16	28	21	53	31	12
12	11	8.5	12	90	17	14	16	25	22	54	31	14
13	13	10	13	38	16	12	12	24	26	54	31	14
14	11	14	14	43	16	13	13	22	30	50	27	14
15	11	10	13	12	18	13	13	20	41	54	27	14
16	10	9.0	13	47	16	12	16	25	42	54	27	13
17	10	9.5	13	18	14	12	15	26	48	58	26	13
18	10	9.5	13	12	12	12	13	28	41	60	23	12
19	10	8.5	16	13	15	12	15	30	37	67	23	14
20	10	9.5	9.5	11	13	12	14	29	40	70	24	14

Daily discharge, in second-feet, of Rock Creek at Sherwin Hill, near Bishop, Calif., for the years ending September 30, 1922–1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1924–25												
21	9.5	9.5	18	10	10	12	15	26	49	62	23	14
22	8.5	9.5	27	12	13	13	15	26	57	54	18	14
23	8.0	8.5	30	12	13	14	14	26	62	49	18	14
24	8.5	7.5	25	12	11	12	14	28	67	42	20	13
25	6.5	6.5	27	12	12	13	13	31	70	35	20	13
26	7.0	11	24	12	13	13	15	35	73	34	18	14
27	7.5	12	58	12	12	13	14	39	62	34	18	14
28	7.5	11	43	12	12	13	21	46	59	33	16	13
29	8.0	11	35	12	------	14	22	55	57	33	16	13
30	9.5	10	29	12	------	11	21	62	55	32	16	13
31	7.5	------	20	12	------	14	------	54	------	31	18	------
1925–26												
1	13	12	10	3.2	6.0	12	13	35	46	27	15	14
2	13	12	9.5	3.5	6.5	12	13	34	65	26	16	13
3	13	12	9.0	4.8	8.0	11	13	35	72	25	17	12
4	13	11	9.0	4.2	9.5	11	13	42	65	24	17	11
5	14	11	14	4.9	11	11	16	52	62	24	17	11
6	14	14	13	4.5	8.5	10	15	50	69	25	20	11
7	14	16	12	4.5	7.5	10	16	36	76	23	24	11
8	14	16	12	4.1	8.0	10	16	22	106	22	28	11
9	14	14	12	3.8	9.0	9.5	16	22	134	25	29	11
10	14	14	12	4.1	9.5	9.5	17	20	113	24	28	11
11	14	13	12	3.8	10	10	18	20	81	24	26	11
12	14	12	17	4.2	12	10	12	22	63	24	23	10
13	14	13	9.0	4.5	14	10	16	22	55	23	19	10
14	14	13	9.5	6.0	15	10	20	22	50	21	16	10
15	14	13	15	5.5	12	10	21	27	44	21	14	10
16	14	14	15	4.2	14	11	24	33	38	26	13	9.5
17	14	13	12	5.5	16	10	28	48	36	28	12	9.0
18	13	14	8.5	4.4	24	10	29	58	31	31	12	9.0
19	13	12	10	4.2	17	11	28	69	28	30	13	9.0
20	12	12	12	8.5	15	11	28	96	26	27	13	9.0
21	12	13	11	8.5	13	12	28	101	26	21	13	9.0
22	12	15	9.5	6.5	15	13	31	96	27	24	12	9.0
23	12	14	8.5	5.0	13	13	35	91	29	23	12	9.0
24	12	14	7.0	5.5	16	14	41	76	30	21	12	9.5
25	12	14	6.5	4.5	14	14	48	69	31	20	15	9.5
26	12	14	5.0	4.5	14	13	56	52	31	17	14	9.5
27	12	14	5.5	4.8	13	13	63	40	31	16	15	9.5
28	12	13	5.5	4.9	13	13	65	35	31	15	18	9.5
29	12	12	4.9	4.6	------	13	67	31	32	14	18	9.5
30	12	11	4.5	4.6	------	13	50	32	30	12	18	9.5
31	12	------	3.8	5.5	------	13	------	35	------	12	15	------

Monthly discharge of Rock Creek at Sherwin Hill, near Bishop, Calif., for the years ending September 30, 1922–1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1922				
August	98	25	44.3	2,720
September	37	19	22.6	1,340
1922–23				
October	19	11	14.6	898
November	23	11	16.0	952
December	20	9	16.1	990
January	29	8.5	17.3	1,060
February	59	14	22.3	1,240
March	18	10	15.3	941
April	21	9.5	18.0	1,070
May	66	20	45.7	2,810
June	54	26	35.8	2,130
July	104	40	60.3	3,710
August	47	19	27.8	1,710
September	25	14	19.5	1,160
The year	104	8.5	25.8	18,700

Monthly discharge of Rock Creek at Sherwin Hill, near Bishop, Calif., for the years ending September 30, 1922–1926—Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1923–24				
October	17	13	14.9	916
November	16	9.5	14.2	845
December	27	2.4	13.8	848
January	21	7.5	14.7	904
February	17	11	12.9	742
March	34	9.0	16.0	984
April	22	10	16.8	1,000
May	34	18	26.0	1,600
June	32	12	20.4	1,210
July	22	15	18.0	1,110
August	17	11	13.1	806
September	13	9.0	10.2	607
The year	34	2.4	15.9	11,600
1924–25				
October	13	6.5	9.35	575
November	14	5.5	9.18	546
December	58	9.5	18.7	1,150
January	47	10	20.2	1,240
February	18	10	13.8	766
March	14	10	12.5	769
April	22	11	14.9	887
May	62	20	33.1	2,040
June	73	20	39.7	2,360
July	73	31	53.5	3,290
August	40	16	26.0	1,600
September	16	12	13.7	815
The year	73	5.5	22.1	16,000
1925–26				
October	14	12	13.0	799
November	16	11	13.2	786
December	17	3.8	9.81	603
January	8.5	3.2	4.88	300
February	24	6.0	12.3	683
March	14	9.5	11.4	701
April	67	12	28.5	1,700
May	101	20	45.9	2,820
June	134	26	51.9	3,090
July	31	12	22.4	1,380
August	29	12	17.2	1,060
September	14	9.0	10.2	607
The year	134	3.2	20.1	14,500

PINE CREEK AT DIVISION BOX NEAR BISHOP, CALIF.

LOCATION.—In NW. ¼ sec. 19, T. 6 S., R. 31 E., a quarter of a mile above the division box and forks of creek, 4 miles west of Round Valley, and 13 miles northwest of Bishop, Inyo County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—October 21, 1921, to September 30, 1926. A station was maintained at the mouth, 3 miles northwest, near Round Valley, from August 3, 1903, to November 10, 1923.

GAGE.—Water-stage recorder on left bank a quarter of a mile above division box and forks of creek.

DISCHARGE MEASUREMENTS.—Made from plank at gage or by wading.

CHANNEL AND CONTROL.—Large rocks in channel 75 feet below gage act as control. One channel at all stages; straight above and below gage.

EXTREMES OF DISCHARGE.—1921–1926: Maximum mean daily discharge recorded, 286 second-feet June 20, 1922; minimum mean daily discharge recorded, 13 second-feet during September, October, and December, 1924, and January, 1926.

DIVERSIONS.—None.

REGULATION.—None.

COOPERATION.—Daily-discharge record and discharge measurements furnished by city of Los Angeles.

Discharge measurements of Pine Creek at division box near Bishop, Calif., during the years ending September 30, 1921–1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
1921	*Feet*	*Sec.-ft.*	1923	*Feet*	*Sec.-ft.*	1925	*Feet*	*Sec.-ft.*
Apr. 12	-------	21	June 14	2.25	106	Jan. 28	1.11	14
Oct. 22	1.21	17	June 27	2.29	111	Feb. 19	1.12	15
Oct. 29	1.22	17	July 11	2.35	110	Mar. 17	1.11	16
Nov. 27	1.20	16	Aug. 10	1.70	52	Apr. 10	1.15	16
1922			Sept. 18	1.49	36	May 7	2.07	76
Jan. 21	1.11	15	Oct. 27	1.29	25	May 27	2.35	104
Mar. 16	1.22	17	Dec. 8	1.20	19	June 18	2.39	107
Apr. 18	1.24	20	1924			July 2	2.60	129
May 27	2.32	110	Jan. 18	1.15	18	July 16	2.32	96
June 10	2.90	185	Feb. 8	1.13	15	Aug. 6	1.78	49
June 26	3.32	245	Feb. 28	1.12	15	Aug. 24	1.70	46
July 11	3.00	191	Mar. 18	1.12	15	Sept. 21	1.25	20
July 22	2.50	146	Apr. 8	1.11	15	Oct. 8	1.24	19
Aug. 2	1.68	46	Apr. 30	1.39	26	Oct. 29	1.22	17
Aug. 9	2.00	75	May 12	1.75	50	Nov. 19	1.25	18
Sept. 27	1.40	33	June 3	1.65	44	Dec. 7	1.19	15
Nov. 8	1.29	21	June 19	1.31	22	1926		
Dec. 8	1.18	19	July 3	1.31	23	Jan. 20	1.13	13
1923			July 22	1.27	21	Feb. 16	1.18	16
Jan. 8	1.21	21	Aug. 14	1.16	18	Mar. 12	1.17	15
Jan. 27	1.23	18	Sept. 4	1.10	15	Mar. 29	1.19	15
Feb. 15	1.19	18	Sept. 22	1.08	14	Apr. 21	1.63	39
Feb. 26	1.19	17	Oct. 16	1.08	16	May 4	2.30	94
Mar. 24	1.18	18	Oct. 31	1.11	15	May 27	1.87	56
Apr. 11	1.20	19	Nov. 21	1.12	15	June 30	1.87	51
Apr. 30	1.22	23	Dec. 11	1.13	15	Aug. 3	1.40	25
May 15	2.03	87	1925			Aug. 19	1.38	22
May 19	2.21	106	Jan. 7	1.11	14	Sept. 1	1.52	29
						Sept. 30	1.26	18

Daily discharge, in second-feet, of Pine Creek at division box near Bishop, Calif., for the years ending September 30, 1922–1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1921–22												
1	-------	17	17	18	17	17	19	30	179	224	118	54
2	-------	17	17	18	17	17	19	30	173	230	112	49
3	-------	17	17	18	17	17	20	31	199	239	103	50
4	-------	17	17	18	17	17	21	34	216	253	100	49
5	-------	17	17	18	17	17	20	37	227	253	92	47
6	-------	17	17	18	17	17	20	42	224	248	82	47
7	-------	17	17	18	17	17	20	42	218	221	81	46
8	-------	17	17	17	17	17	19	42	204	214	80	45
9	-------	17	17	17	16	17	18	39	191	216	76	41
10	-------	17	17	17	16	17	18	37	188	204	75	41
11	-------	17	17	17	15	17	19	37	192	206	70	40
12	-------	17	17	17	15	17	19	36	197	208	67	38
13	-------	17	17	17	16	17	18	37	202	206	66	37
14	-------	17	17	17	18	17	18	40	206	206	66	37
15	-------	17	17	17	19	17	18	42	210	202	66	37
16	-------	17	17	17	18	17	18	45	215	194	65	47
17	-------	17	17	16	18	17	18	54	232	190	61	36
18	-------	18	17	14	18	18	18	65	244	191	58	36
19	-------	17	18	14	18	18	18	73	264	186	56	35
20	-------	17	18	14	18	18	19	70	286	173	55	35
21	17	17	18	15	18	19	29	71	266	160	53	34
22	17	18	18	17	18	18	25	79	248	141	51	34
23	17	17	18	17	17	19	23	95	246	139	48	33
24	17	17	17	17	17	19	22	112	260	130	52	33
25	17	17	16	17	17	19	22	114	266	124	60	33

Daily discharge, in second-feet, of Pine Creek at division box near Bishop, Calif., for the years ending September 30, 1922-1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1921-22												
26	17	17	17	17	17	19	23	105	275	117	62	33
27	17	17	17	16	17	19	24	122	257	119	60	33
28	17	17	17	17	17	19	25	134	230	117	60	32
29	17	17	17	17	-------	19	25	145	224	110	65	32
30	17	17	18	17	-------	19	26	158	222	111	61	32
31	17	-------	18	17	-------	20	-------	169	-------	114	57	-------
1922-23												
1	32	34	32	20	18	18	18	21	62	162	83	41
2	32	34	32	20	18	18	18	22	54	181	75	42
3	32	34	32	20	18	18	18	24	58	173	74	58
4	32	34	32	20	18	18	18	26	61	166	68	49
5	32	34	32	20	18	18	18	31	66	166	69	45
6	31	34	32	19	18	18	18	35	82	157	70	42
7	29	34	33	19	18	18	18	42	74	139	66	41
8	28	36	32	19	18	18	18	52	85	135	62	38
9	28	36	32	19	18	18	18	64	127	128	60	38
10	28	36	34	19	17	17	18	74	153	134	58	37
11	28	36	34	19	18	17	18	68	157	126	49	31
12	29	35	34	19	16	17	18	76	135	118	66	36
13	30	35	34	18	16	17	18	76	109	124	75	41
14	30	36	34	19	18	17	18	79	99	118	68	43
15	31	36	33	19	18	17	20	96	85	115	66	42
16	31	35	32	18	18	18	21	102	75	110	63	40
17	32	35	32	19	18	18	21	114	72	96	62	38
18	32	34	32	18	18	18	21	104	72	90	57	36
19	33	34	32	19	18	18	22	94	69	85	56	36
20	33	34	31	18	18	18	22	94	72	82	58	33
21	35	34	31	18	18	18	22	73	72	88	46	31
22	34	34	31	19	18	18	22	73	67	94	44	29
23	34	34	31	19	18	18	22	91	69	92	42	29
24	34	33	31	19	18	18	21	120	79	90	41	29
25	34	33	31	18	18	18	22	118	92	84	43	29
26	34	33	31	18	18	18	21	100	99	85	42	29
27	34	33	31	17	18	18	20	94	103	88	41	29
28	34	33	32	17	18	18	19	91	127	85	40	28
29	34	33	32	18	-------	18	20	88	134	84	40	28
30	34	32	32	18	-------	18	20	81	150	85	41	28
31	34	-------	32	18	-------	18	-------	67	-------	100	40	-------
1923-24												
1	28	23	19	17	16	14	15	44	36	22	18	14
2	28	23	20	17	16	14	15	50	38	22	18	15
3	28	23	20	18	16	15	15	51	42	22	18	15
4	27	23	20	17	16	15	14	54	44	23	18	14
5	26	23	20	17	16	15	14	43	48	22	18	14
6	26	23	20	17	16	14	14	44	44	23	17	14
7	26	22	19	17	15	14	14	57	40	23	17	14
8	26	22	18	17	15	15	14	67	38	22	17	14
9	26	23	16	16	16	14	15	73	36	22	17	14
10	26	22	17	16	16	14	16	67	33	22	16	14
11	26	22	18	16	16	14	18	65	31	22	16	14
12	26	22	19	16	16	15	18	57	29	21	17	14
13	26	22	19	16	16	14	20	40	27	21	18	14
14	26	22	18	16	15	14	23	42	26	20	17	14
15	26	22	18	16	15	14	20	52	26	20	16	14
16	26	22	18	16	15	15	20	62	25	20	16	14
17	26	20	18	17	15	15	19	69	25	22	16	14
18	25	21	18	17	15	16	19	65	24	29	16	14
19	24	21	18	17	15	16	19	64	23	28	16	14
20	24	21	18	17	15	15	22	64	22	26	16	14
21	24	21	18	17	15	15	24	62	22	24	16	14
22	24	21	16	17	15	15	29	52	22	22	16	14
23	24	21	17	17	15	16	31	42	22	20	15	14
24	24	20	18	16	15	16	26	39	22	20	15	14
25	24	20	18	16	15	16	21	43	22	20	14	13
26	24	20	18	16	15	17	21	45	22	19	14	14
27	24	20	18	16	15	16	19	40	21	20	14	13
28	24	20	18	16	15	17	19	38	21	20	14	13
29	24	20	18	16	15	16	21	38	21	19	14	13
30	24	20	17	16	-------	16	28	36	21	19	14	13
31	23	-------	17	16	-------	15	-------	36	-------	19	14	-------

Daily discharge, in second-feet, of Pine Creek at division box near Bishop, Calif., for the years ending September 30, 1922–1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1924–25												
1	13	15	16	14	14	15	15	29	74	132	51	28
2	13	16	16	14	14	15	16	37	67	136	51	28
3	13	16	16	14	14	15	15	53	56	127	51	27
4	13	16	16	14	14	15	15	69	46	120	52	27
5	14	16	16	14	15	15	15	79	40	114	52	26
6	14	16	16	14	15	15	15	83	38	114	50	26
7	14	16	16	14	15	15	15	80	36	109	48	25
8	14	16	16	14	15	15	15	73	46	105	47	24
9	14	18	16	14	15	15	15	65	62	103	48	24
10	14	17	16	14	15	15	15	57	72	100	54	24
11	14	16	16	14	15	15	17	49	84	102	52	23
12	14	16	16	14	15	15	18	43	108	92	52	23
13	14	16	16	14	15	15	18	39	128	89	50	22
14	14	16	16	14	15	14	20	34	128	90	46	22
15	14	16	15	14	16	14	21	37	107	100	43	22
16	14	16	15	14	16	14	24	45	101	106	42	22
17	14	16	15	14	15	14	23	50	108	102	39	21
18	14	16	14	14	15	14	22	57	110	111	39	21
19	14	16	13	14	14	14	21	57	119	134	36	20
20	14	16	13	14	15	14	20	50	130	109	35	21
21	14	16	14	14	15	14	20	45	128	96	33	21
22	14	15	15	14	15	14	20	59	121	84	30	20
23	14	15	16	14	15	15	19	67	130	77	38	20
24	14	15	16	14	15	15	19	79	133	71	44	20
25	14	15	14	14	15	15	19	100	136	66	42	19
26	16	15	14	14	15	15	20	115	135	62	38	19
27	17	15	15	14	15	15	22	112	142	62	34	19
28	18	15	15	14	15	15	25	126	136	57	33	19
29	18	15	15	14	-------	16	25	126	128	55	30	19
30	18	16	16	14	-------	15	25	103	136	55	28	19
31	17	-------	15	14	-------	16	-------	80	-------	52	28	------
1925–26												
1	19	17	16	15	14	16	16	68	150	54	26	31
2	19	17	16	14	14	16	16	62	146	49	26	26
3	19	16	16	15	14	16	16	82	122	48	26	22
4	19	17	16	14	14	16	16	97	127	46	26	20
5	19	17	16	14	14	16	17	90	133	47	27	19
6	20	16	16	14	14	16	16	62	127	50	31	18
7	20	16	16	15	14	15	17	52	112	50	44	18
8	20	16	16	14	14	15	17	44	138	47	41	18
9	20	16	16	14	14	15	17	46	122	46	38	18
10	19	16	16	14	14	15	14	43	125	53	36	18
11	20	16	16	15	14	15	15	44	102	51	32	18
12	19	16	15	15	14	15	16	53	97	51	28	18
13	20	16	15	15	14	15	18	66	93	46	26	18
14	20	16	14	15	14	15	22	81	87	43	24	17
15	20	16	15	15	14	15	30	100	79	40	24	17
16	20	16	15	14	14	15	43	124	73	38	22	17
17	18	16	15	15	14	16	56	132	72	38	22	18
18	18	16	16	15	14	16	49	140	71	37	22	18
19	18	16	15	14	15	16	42	149	70	34	22	18
20	17	16	15	14	15	15	37	154	68	32	22	17
21	17	16	15	14	15	15	43	153	69	34	22	18
22	17	16	15	14	15	15	49	146	71	33	22	18
23	17	16	16	14	16	15	57	123	72	32	22	18
24	17	16	16	14	16	15	77	97	70	29	21	18
25	17	16	16	14	16	15	90	72	69	28	21	18
26	17	16	16	13	16	15	82	58	66	28	20	18
27	18	16	15	13	16	15	92	61	66	28	20	18
28	18	16	15	14	16	15	80	73	65	27	20	18
29	17	16	15	15	-------	15	84	88	62	26	20	18
30	17	16	14	14	-------	15	77	118	58	26	24	17
31	17	-------	14	14	-------	16	-------	137	-------	26	32	------

Monthly discharge of Pine Creek at division box near Bishop, Calif., for the years ending September 30, 1922–1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1921–22				
October 21–31	17	17	17.0	371
November	18	17	17.1	1,020
December	18	16	17.2	1,060
January	18	14	16.8	1,030
February	19	15	17.1	950
March	20	17	17.8	1,090
April	29	18	20.7	1,230
May	169	30	69.9	4,300
June	286	173	225	13,400
July	253	110	182	11,200
August	118	48	70.3	4,320
September	54	32	39.2	2,330
The period				42,300
1922–23				
October	35	28	31.9	1,960
November	36	32	34.3	2,040
December	34	31	32.1	1,970
January	20	17	18.7	1,150
February	18	16	17.8	989
March	18	17	17.8	1,090
April	22	18	19.6	1,170
May	120	21	73.9	4,540
June	157	54	92.0	5,470
July	181	82	115	7,070
August	83	40	56.9	3,500
September	58	28	36.7	2,180
The year	181	16	45.8	33,100
1923–24				
October	28	23	25.3	1,560
November	23	20	21.5	1,280
December	20	16	18.2	1,120
January	18	16	16.5	1,010
February	16	15	15.4	886
March	17	14	15.1	928
April	31	14	19.4	1,150
May	73	36	51.6	3,170
June	48	21	29.1	1,730
July	29	19	21.7	1,330
August	18	14	16.1	990
September	15	13	13.9	827
The year	73	13	22.0	16,000
1924–25				
October	18	13	14.5	892
November	18	15	15.8	940
December	16	13	15.3	941
January	14	14	14.0	861
February	16	14	14.9	828
March	16	14	14.8	910
April	25	15	19.0	1,130
May	126	29	67.7	4,160
June	142	36	99.5	5,920
July	136	52	94.6	5,820
August	54	28	42.5	2,610
September	28	19	22.4	1,330
The year	142	13	36.4	26,300
1925–26				
October	20	17	18.5	1,140
November	17	16	16.1	958
December	16	14	15.4	947
January	15	13	14.3	879
February	16	14	14.6	811
March	16	15	15.3	941
April	92	14	40.7	2,420
May	154	43	90.8	5,580
June	150	58	92.7	5,520
July	54	26	39.3	2,420
August	44	20	26.1	1,600
September	31	17	18.8	1,120
The year	154	13	33.6	24,300

ANTELOPE VALLEY BASIN

ROCK CREEK NEAR VALYERMO, CALIF.

LOCATION.—In NE. ¼ sec. 20, T. 4 N., R. 9 W., 1¾ miles southeast of Valyermo, Los Angeles County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—January 17, 1923, to September 30, 1926.

GAGE.—Water-stage recorder in wooden well and shelter on right bank a quarter of a mile south of boundary line of Angeles National Forest.

DISCHARGE MEASUREMENTS.—Made from footbridge 20 feet below the gage or by wading.

CHANNEL AND CONTROL.—Boulders and gravel, which may shift at high stages; fairly permanent at low and medium stages.

EXTREMES OF DISCHARGE.—Maximum stage during year, from water-stage recorder, 3.38 feet at 5.30 p. m. April 7 (discharge, 416 second-feet); minimum, 0.84 foot at 5 p. m. October 1 (discharge, 1.4 second-feet).

1923–1926: Maximum stage recorded, that of April 7, 1926; minimum discharge, 1.2 second-feet at 6 p. m. August 22, 1925.

DIVERSIONS.—None.

REGULATION.—None.

ACCURACY.—Stage-discharge relation not permanent. Standard rating curve fairly well defined. Water-stage recorder record excellent, except from November 26 to December 2, when paper supply was exhausted, and March 11–22, when clock was stopped. Daily discharge ascertained by applying mean daily gage height to rating table, using shifting-control method. Discharge interpolated on days of no gage-height record. Records good.

Discharge measurements of Rock Creek near Valyermo, Calif., during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 7	0.87	1.9	Apr. 16	1.80	60	July 3	1.34	15
Oct. 28	.88	1.8	Apr. 22	1.72	52	July 18	1.32	15
Dec. 3	.94	2.2	May 1	1.73	49	Aug. 7	1.26	12
Jan. 9	1.02	2.7	Do	1.92	89	Aug. 26	1.10	5.8
Feb. 21	1.03	4.2	May 2	1.85	65	Sept. 20	1.08	5.6
Mar. 23	1.14	6.5	May 12	1.66	44			
Mar. 31	1.14	6.6	May 25	1.57	34			

Daily discharge, in second-feet, of Rock Creek near Valyermo, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.6	2.4	2.2	3.2	2.8	6	6	58	32	18	12	6.5
2	1.6	2.4	2.2	3.2	2.6	6	6	66	31	18	12	6.5
3	1.6	2.6	2.2	3.2	3.6	6	6	66	30	17	12	6
4	1.6	2.6	2.4	2.8	3.0	6.5	6.5	63	30	17	12	6
5	2.2	2.6	2.8	2.8	3.0	7	251	61	30	17	11	6.5
6	2.0	2.8	3.2	2.8	3.0	7	224	59	30	17	11	6.5
7	1.8	2.8	3.2	2.6	2.8	7.5	206	56	29	17	11	6.5
8	1.8	2.8	3.0	2.6	3.0	7	236	53	29	17	11	6.5
9	2.0	2.8	3.0	2.6	3.0	7	130	52	28	17	9.5	6.5
10	2.2	3.0	3.0	2.6	3.0	7	92	49	28	16	9	6.5
11	2.4	2.8	3.0	2.8	3.0	7	80	48	27	16	9	6.5
12	3.0	2.8	3.0	2.8	6.5	7	82	47	27	16	9.5	6.5
13	3.2	2.8	2.8	2.6	9	7	80	46	26	16	9.5	6
14	3.2	3.0	2.8	2.6	7	7	79	45	26	15	9.5	6
15	3.2	3.0	2.8	2.8	6	7	79	44	25	15	8.5	6

Daily discharge, in second-feet, of Rock Creek near Valyermo, Calif., for the year ending September 30, 1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
16	3.2	3.2	2.8	2.8	5	7	59	44	25	15	8	6.5
17	3.2	3.0	2.8	2.8	4.7	6.5	55	42	25	15	7.5	6.5
18	2.8	2.8	3.4	3.0	4.4	6.5	60	41	25	14	7.5	6.5
19	2.8	2.8	3.4	3.0	4.4	6.5	56	40	25	14	7.5	6
20	2.6	2.6	3.4	3.0	4.1	6.5	54	40	24	14	7.5	6
21	2.6	2.6	3.4	3.2	4.4	6.5	52	39	24	14	7.5	6.5
22	2.4	2.4	3.4	3.2	4.7	6.5	49	38	23	14	7	6.5
23	2.4	2.8	3.4	3.2	4.4	6.5	48	38	23	14	7	6
24	2.2	3.0	3.2	3.2	4.7	6.5	48	38	22	14	7	6
25	2.2	2.4	3.2	3.2	5	7	48	37	21	14	7	6
26	1.8	2.4	3.2	3.2	5	7	48	36	21	13	7	6
27	1.8	2.4	3.2	3.4	5.5	7	53	36	21	12	6.5	6
28	1.8	2.3	3.4	3.4	6	7	56	35	20	12	6.5	6.5
29	2.2	2.3	3.4	3.4	------	6.5	56	34	20	12	6.5	6.5
30	2.4	2.3	3.2	3.4	------	6.5	55	33	19	12	6.5	7
31	2.4	------	3.2	5.5	------	6.5	------	33	------	12	6.5	------

Monthly discharge of Rock Creek near Valyermo, Calif., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	3.2	1.6	2.33	143
November	3.2	2.3	2.68	159
December	3.4	2.2	3.02	186
January	5.5	2.6	3.06	188
February	9	2.6	4.41	245
March	7.5	6	6.73	414
April	251	6	78.7	4,680
May	66	33	45.7	2,810
June	32	19	25.5	1,520
July	18	12	15.0	922
August	12	6.5	8.69	534
September	7	6	6.32	376
The year	251	1.6	16.8	12,200

MONO LAKE BASIN

MONO LAKE NEAR MONO LAKE, CALIF.

LOCATION.—In lot 6, SE. ¼ NE. ¼ sec. 31, T. 2 N., R. 26 E., 2 miles south of Mono Lake post office, Mono County.

RECORDS AVAILABLE.—June 15, 1912, to September 30, 1926 (fragmentary).

GAGE.—Vertical staff on support of boathouse, installed September, 1912; read once a month by W. E. Green. Original gage was vertical staff fastened to willow tree 400 feet from Hammon's store.

EXTREMES OF STAGE.—1912–1926: Maximum stage recorded, 13.55 feet July 18, 1919; minimum, 7.93 feet December 11, 1913.

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

Gage height, in feet, of Mono Lake near Mono Lake, Calif., during the year ending September 30, 1926

Oct. 17	9.54	Apr. 27	10.04	Aug. 19	9.51
Nov. 17	9.46	May 10	10.05	Sept. 18	9.08
Dec. 15	9.54	June 30	9.94		
Mar. 18	9.97	July 24	9.70		

WALKER LAKE BASIN

EAST WALKER RIVER NEAR BRIDGEPORT, CALIF.

LOCATION.—In SW. ¼ NE. ¼ sec. 34, T. 6 N., R. 25 E., 1,500 feet downstream from Bridgeport Reservoir of Walker River Irrigation District and 4¾ miles north of Bridgeport, Mono County. Sweetwater Creek enters from left 10 miles downstream.

DRAINAGE AREA.—362 square miles (measured on topographic maps).

RECORDS AVAILABLE.—October 1, 1921, to September 30, 1926 (fragmentary), and miscellaneous measurements in 1920 and 1921. 1911–1914 at a site 1½ miles upstream.

GAGE.—Stevens continuous water-stage recorder on right bank; inspected by watchman at dam.

DISCHARGE MEASUREMENTS.—Made by wading or from highway bridge 1½ miles downstream.

CHANNEL AND CONTROL.—Channel straight above gage; bends to right below. Bed of boulders and sand. Control of boulders; fairly permanent.

ICE.—Stage-discharge relation probably seldom affected by ice.

DIVERSIONS.—Considerable areas of meadow and pasture irrigated in Bridgeport Valley above reservoir.

REGULATION.—Flow regulated at Bridgeport Reservoir, capacity 42,000 acre-feet, finished in November, 1924.

ACCURACY.—Stage-discharge relation permanent during year. Rating curve fairly well defined. Daily gage readings obtained when water-stage recorder was not operating except October 4–20. Daily discharge ascertained by applying mean daily gage height or daily gage reading to rating table. Discharge estimated for period of missing gage heights. Records good.

COOPERATION.—Gage-height record furnished by Walker River Irrigation District.

The following discharge measurements were made:

October 21, 1925: Gage height, 2.56 feet; discharge, 32.0 second-feet.

March 24, 1926: Gage height, 2.58 feet; discharge, 31.6 second-feet.

June 2, 1926: Gage height, 3.89 feet; discharge, 252 second-feet.

Daily discharge, in second-feet, of East Walker River near Bridgeport, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	27	21	2	5	5	63	200	249	326	137	108
2	53	27	21	5	5	5	85	210	249	323	137	108
3	31	27	21	5	5	5	97	208	251	321	137	108
4		27	21	5	5	5	95	208	251	321	137	108
5		27	21	5	5	5	80	213	251	321	135	108
6		27	21	5	5	5	63	215	251	313	137	116
7		27	21	5	5	5	63	215	253	300	135	117
8		27	21	5	5	5	64	215	265	300	133	116
9		26	21	5	5	5	64	215	270	295	144	114
10		25	21	5	5	5	64	215	270	295	165	112
11	30	24	21	5	5	5	64	215	265	292	165	111
12		24	21	5	5	5	64	215	249	295	165	109
13		24	21	5	5	5	79	221	244	292	165	109
14		24	21	5	5	5	104	230	244	290	165	66
15		24	21	5	5	5	104	230	268	288	130	66
16		24	21	5	5	5	108	230	280	282	101	66
17		24	21	5	5	5	140	233	285	246	112	66
18		24	21	5	5	14	151	228	305	242	127	65
19		24	21	5	5	14	152	217	326	242	144	65
20		24	21	5	5	14	152	219	329	242	145	63

Daily discharge, in second-feet, of East Walker River near Bridgeport, Calif., for the year ending September 30, 1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
21	30	24	21	5	5	14	163	224	323	244	145	63
22	26	24	21	5	5	14	175	237	308	244	128	63
23	26	22	21	5	5	14	173	235	308	244	111	63
24	26	21	21	5	5	36	175	242	305	196	106	60
25	26	21	21	5	5	66	175	253	305	185	104	60
26	26	21	21	5	5	65	177	251	316	163	104	56
27	26	21	21	5	5	65	179	251	334	163	106	53
28	27	21	21	5	5	64	181	251	334	161	104	53
29	27	21	2	5	------	64	183	249	331	160	104	52
30	27	21	2	5	------	64	189	249	329	160	104	40
31	27	------	2	5	------	64	------	249	------	147	108	------

Monthly discharge of East Walker River near Bridgeport, Calif., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	55	26	30.4	1,870
November	27	21	24.1	1,430
December	21	2	19.2	1,180
January	5	2	4.9	301
February	5	5	5.0	278
March	66	5	21.2	1,300
April	189	63	121	7,200
May	253	200	227	14,000
June	334	244	285	17,000
July	326	147	255	15,700
August	165	101	130	7,990
September	117	40	82.0	4,880
The year	334	2	101	73,100

WALKER RIVER NEAR WABUSKA, NEV.

LOCATION.—In NE. ¼ sec. 20, T. 15 N., R. 26 E., half a mile above boundary line of Walker River Indian Reservation and 5 miles east of Wabuska, Lyon County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—January 15, 1920, to September 30, 1926. Comparable records were obtained July 22, 1902, to July 31, 1908, at railroad bridge 3 miles upstream.

GAGE.—Low-water staff gage on bridge pier formerly used as auxiliary gage to water-stage recorder; read by Mrs. A. E. Parker.

DISCHARGE MEASUREMENTS.—Made by wading.

CHANNEL AND CONTROL.—Banks fairly high and clean. Bed composed of sand. At very high stages abandoned channel on right may carry small quantity of water around gage. At stages below about 20 second-feet stream meanders through sandy bed in two or more channels at gage.

EXTREMES OF DISCHARGE.—1920–1926: Maximum stage recorded, 7.08 feet at 10 a. m. June 8, 1922 (discharge, 2,220 second-feet); no flow in August and September, 1924, and numerous periods from March to September, 1925.

DIVERSIONS.—Below all diversions, except for Walker River Indian Reservation.

REGULATION.—Flow regulated by Bridgeport, Poor Lake, and Topaz Lake Reservoirs; also by diversions.

ACCURACY.—Stage-discharge relation changed slightly July 1; affected by ice December 15 to January 20. Rating curves well defined below 80 second-feet. Staff gage read once daily throughout year. Daily discharge ascertained by applying daily gage height to rating table; discharge estimated December 15 to January 20. Records fair.

Discharge measurements of Walker River near Wabuska, Nev., during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 20	3.40	65.0	May 31	3.30	44.6	July 21	3.20	31.8
Mar. 23	3.00	16.5	July 16	3.10	26.5			

Daily discharge, in second-feet, of Walker River near Wabuska, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	40	37		70	40	24	40	47	62	11	7
2	40	40	40		47	40	40	47	54	62	11	7
3	47	47	40		47	40	47	47	62	62	11	11
4	47	47	34		47	34	54	70	54	62	11	17
5	47	47	34		47	34	62	70	47	35	14	17
6	54	47	34		47	34	70	62	47	47	17	17
7	47	47	34		47	34	70	54	47	62	21	17
8	47	47	34		47	34	62	54	47	54	21	17
9	54	54	34		47	34	62	54	54	54	17	11
10	54	54	34		62	29	62	54	62	47	17	11
11	62	54	34	30	70	29	62	47	98	47	11	11
12	54	54	34		79	29	62	47	119	41	11	11
13	47	47	34		79	29	62	47	108	41	17	11
14	47	47	34		79	24	24	47	98	47	25	11
15	62	54			79	24	24	62	98	35	25	9
16	70	54			88	24	29	62	88	25	25	7
17	70	54			79	24	34	70	47	21	35	7
18	70	47			79	24	34	119	37	21	35	7
19	62	47			79	16	47	119	34	21	30	7
20	62	47			79	16	47	119	24	25	17	7
21	62	47		34	47	16	54	119	16	35	17	7
22	58	40	30	34	47	16	54	119	20	25	11	7
23	58	40		34	47	16	47	108	29	30	11	7
24	54	34		34	47	16	70	108	47	47	7	7
25	47	34		34	47	16	62	79	34	35	7	7
26	47	34		34	47	16	62	65	24	25	7	7
27	47	34		34	44	16	79	62	24	17	6	7
28	47	34		34	40	16	40	62	34	11	7	7
29	47	34		62	------	16	40	54	47	11	7	7
30	40	34		79	------	16	40	54	62	11	17	11
31	40	------		98	------	16	------	47	------	11	11	------

NOTE.—Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Walker River near Wabuska, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	70	34	52.4	3,220
November	54	34	44.7	2,660
December	40	----------	32.3	1,990
January	98	----------	35.8	2,200
February	88	40	59.4	3,300
March	40	16	24.8	1,520
April	79	24	50.9	3,030
May	119	40	69.9	4,300
June	119	16	53.6	3,190
July	62	11	36.4	2,240
August	35	6	15.8	972
September	17	7	9.8	583
The year	119	6	40.3	29,200

WALKER RIVER AT SCHURZ, NEV.

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

DRAINAGE AREA.—2,850 square miles (measured on topographic maps).

RECORDS AVAILABLE.—July 2, 1913, to September 30, 1926.

GAGE.—Inclined staff gage on right bank 50 feet below Southern Pacific Railroad bridge; read by Irving Clark.

DISCHARGE MEASUREMENTS.—Made by wading or from flume half a mile below gage.

CHANNEL AND CONTROL.—Bed composed of loose sand; shifts occasionally. One channel at all stages.

EXTREMES OF DISCHARGE.—Maximum stage recorded, 1.98 feet at 7 a. m. February 5 and 7 p. m. February 17 (discharge, 125 second-feet); river dry during part of October, March, April, May, June, July, and August.

1913–1926: Maximum stage recorded, 11.0 feet June 8 and 9, 1914 (discharge, 2,530 second-feet); no flow during periods in 1913, 1920, 1921, 1922, 1924, 1925, and 1926.

ICE.—Stage-discharge relation affected by ice.

DIVERSIONS.—Below all diversions.

REGULATION.—Flow regulated by Bridgeport, Poor Lake, and Topaz Lake Reservoirs; also by irrigation diversion.

ACCURACY.—Stage-discharge relation changed slightly during February. Rating curves fairly well defined. Gage read to hundredths twice daily. Daily discharge ascertained by applying mean daily gage height to rating table. Records fair.

The following discharge measurements were made:

October 22, 1925: Gage height, 1.50 feet; discharge, 45.2 second-feet.

March 23, 1926: Discharge (estimated), 1.5 second-feet.

May 31, 1926: Gage height, 0.74 foot; discharge, 2.3 second-feet.

Daily discharge, in second-feet, of Walker River at Schurz, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	11	43	23	102	105	0	0	2	0	0	1
2	0	10	45	23	109	91	0	0	2	0	0	1
3	0	8	41	19	117	81	0	0	4	0	0	1
4	0	6	43	16	121	68	0	0	6	0	0	1
5	4	4	36	18	117	51	1	0	8	0	0	1
6	5	4	38	24	109	29	1	0	7	0	0	1
7	5	4	41	25	109	20	1	0	8	0	0	1
8	5	4	36	28	95	18	1	0	8	0	0	1
9	8	3	33	29	107	17	1	0	7	0	0	1
10	8	4	30	31	109	14	0	0	7	0	1	1
11	12	4	32	32	109	13	0	0	7	0	1	1
12	27	4	34	32	105	12	0	0	8	0	1	1
13	27	4	34	34	117	11	0	0	8	0	1	1
14	34	5	30	35	113	9	0	0	60	0	1	1
15	45	5	27	34	115	8	0	0	54	0	1	1
16	48	5	25	34	117	7	0	0	39	0	1	1
17	48	4	27	35	121	4	0	0	17	0	1	1
18	53	4	30	36	109	2	1	0	2	0	1	1
19	52	4	27	38	102	2	0	0	0	0	1	1
20	50	3	27	36	105	1	0	25	0	1	1	1
21	57	3	29	34	109	1	0	36	0	1	1	1
22	45	2	29	32	105	1	0	39	0	1	1	1
23	38	4	30	31	105	1	0	33	0	0	1	1
24	38	2	30	30	102	1	0	37	0	0	1	1
25	43	3	30	30	105	0	0	27	0	0	1	1
26	23	3	30	31	105	0	1	19	0	1	1	1
27	19	3	33	32	102	0	1	8	0	1	1	1
28	15	4	29	41	104	0	1	0	0	0	1	1
29	15	16	27	117	-------	0	2	0	0	1	1	1
30	15	32	25	88	-------	0	1	0	0	0	1	1
31	13	-------	24	102	-------	0	-------	2	-------	0	1	-------

Monthly discharge of Walker River at Schurz, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	57	0	24.3	1,490
November	32	2	5.7	339
December	45	24	32.1	1,970
January	117	16	37.1	2,280
February	121	95	109	6,050
March	105	0	18.3	1,130
April	1	0	.4	24
May	39	0	7.3	449
June	60	0	8.5	506
July	1	0	.2	12
August	1	0	.7	43
September	1	1	1.0	60
The year	121	0	19.8	14,400

WEST WALKER RIVER NEAR COLEVILLE, CALIF.

LOCATION.—In NE. ¼ NW. ¼ sec. 28, T. 8 N., R. 23 E., at mouth of Ross Canyon at head of Antelope Valley, 400 feet east of State highway, 1,100 feet above Terry Canal heading, 1.4 miles above Terry ranch house, 6 miles above Coleville, Mono County, and 40 miles southeast of Gardnerville, Nev.

DRAINAGE AREA.—245 square miles (measured on topographic maps).

RECORDS AVAILABLE.—June 18, 1915, to September 30, 1926. October 5, 1902, to July 31, 1908, at a site half a mile upstream.

GAGE.—Stevens continuous water-stage recorder on left bank; inspected by T. F. Hardy.

DISCHARGE MEASUREMENTS.—Made from cable 1,000 feet downstream or by wading.

CHANNEL AND CONTROL.—Bed composed of large boulders, sand, and gravel; fairly permanent. One channel at all stages. Control composed of large boulders and some loose gravel; fairly permanent.

EXTREMES OF DISCHARGE.—Maximum stage during year, 4.67 feet at 1 a. m. May 20 (discharge, 1,430 second-feet); minimum, 1.43 feet at 4 p. m. February 21 (discharge, 19 second-feet).

1915–1926: Maximum stage recorded, 5.74 feet at 3 a. m. June 12, 1921 (discharge, 2,710 second-feet); minimum, 1.21 feet at 5 p. m. December 3, 1924 (discharge, 5 second-feet).

ICE.—Stage-discharge relation not seriously affected by ice.

DIVERSIONS.—Station is above all diversions except one small canal 1½ miles upstream, which diverts a maximum of 3 second-feet.

REGULATION.—A small reservoir at Poor Lake, 17 miles upstream, capacity unknown, stores water from spring floods and releases it in summer. Regulation is very slight.

ACCURACY.—Stage-discharge relation remained permanent. Rating curve well defined. Water-stage recorder operated satisfactorily except August 28–30. Daily discharge ascertained by applying mean daily gage height to rating table; estimated August 28–30. Records good.

Discharge measurements of West Walker River near Coleville, Calif., during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 21	1.83	62.6	June 1	3.74	756
Mar. 24	2.18	128	Aug. 31	1.74	52.0

Daily discharge, in second-feet, of West Walker River near Coleville, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	59	65	45	43	51	166	737	773	166	39	47
2	46	56	70	52	43	54	162	837	725	155	40	44
3	46	50	54	51	39	54	162	994	689	146	39	43
4	46	51	50	43	45	56	171	1,050	588	137	38	37
5	49	51	59	45	43	59	206	928	629	135	40	32
6	54	55	60	46	50	64	196	617	599	142	45	30
7	55	56	54	43	45	66	190	461	571	121	42	29
8	55	65	50	43	46	71	176	382	915	115	40	28
9	58	59	47	45	49	70	157	351	882	119	37	28
10	59	59	45	44	50	65	168	332	582	115	36	27
11	58	62	45	42	44	62	201	354	476	115	35	26
12	58	56	51	40	42	68	186	412	403	232	33	27
13	70	55	35	40	47	70	218	537	378	159	33	27
14	71	47	33	37	49	81	320	653	339	131	32	26
15	62	58	40	40	47	93	481	779	296	111	31	27
16	64	58	44	35	44	111	641	863	276	98	30	27
17	64	52	51	40	45	123	665	954	276	96	29	28
18	65	52	45	33	52	107	447	974	263	93	28	28
19	65	50	43	39	51	104	416	1,140	253	86	26	28
20	64	51	42	40	50	100	481	1,160	241	81	25	28
21	65	50	55	39	40	100	617	1,040	232	71	35	29
22	70	52	50	39	51	100	701	928	232	65	50	29
23	68	55	47	37	45	113	719	856	229	59	52	29
24	66	54	42	34	51	133	850	594	223	56	52	29
25	65	52	45	36	50	133	967	447	223	54	51	28
26	64	52	45	39	50	135	980	421	215	51	51	28
27	62	54	45	40	50	135	960	511	212	49	50	28
28	62	50	43	44	52	140	987	659	204	49	50	28
29	60	52	43	72	-------	144	915	737	201	46	50	26
30	59	55	43	55	-------	142	811	749	180	44	51	27
31	59	-------	43	47	-------	162	-------	755	-------	40	51	-------

Monthly discharge of West Walker River near Coleville, Calif., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	71	46	59.9	3,680
November	65	47	54.3	3,230
December	70	33	47.9	2,950
January	72	33	42.7	2,630
February	52	39	46.9	2,600
March	162	51	95.7	5,880
April	987	157	477	28,400
May	1,160	332	717	44,100
June	915	180	410	24,400
July	232	40	101	6,210
August	52	25	40.0	2,460
September	47	26	29.9	1,780
The year	1,160	25	177	128,000

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

LOCATION.—In SE. ¼ sec. 17, T. 10 N., R. 23 E., at Hoye Bridge, in Douglas County, 2 miles above head of Saroni Canal and 4 miles southwest of Wellington, Lyon County.

DRAINAGE AREA.—504 square miles (measured on topographic maps).

RECORDS AVAILABLE.—April 26 to August 31, 1910; March 9, 1924, to September 30, 1926 (fragmentary). Record obtained 3¼ miles downstream in sec. 10, T. 10 N., R. 23 E., December 20, 1917, to May 11, 1924.

GAGE.—Stevens continuous water-stage recorder on left bank at upstream side of bridge; inspected by employees of Walker River Irrigation District. Datum changed September 4, 1925.

DISCHARGE MEASUREMENTS.—Made from bridge or by wading.

CHANNEL AND CONTROL.—One channel at all stages. Banks not subject to overflow. Riffle at bridge fairly permanent.

EXTREMES OF DISCHARGE.—1924–1926: Maximum stage, 7.58 feet at 2.30 p. m. September 4, 1925 (discharge, 1,190 second-feet); minimum, 2.49 feet from 7 to 9 a. m. December 19, 1925 (discharge, 6 second-feet).

ICE.—Stage-discharge relation affected by ice.

DIVERSIONS.—Station is below all diversions and return water in Antelope Valley and above all diversions in Smith Valley.

REGULATION.—Flow partly regulated by Poor Lake and Topaz Lake Reservoirs; also by diversions in Antelope Valley.

ACCURACY.—Stage-discharge relation shifted slightly for low stages; affected by ice December and January. Rating curve fairly well defined. Operation of water-stage recorder satisfactory except as stated in footnote to table of daily discharge. Daily discharge ascertained by applying mean daily gage height to rating table. Discharge estimated or interpolated for periods of missing gage heights. Records of daily discharge good; estimates fair.

COOPERATION.—Gage-height record and four discharge measurements furnished by Walker River Irrigation District.

Discharge measurements of West Walker River at Hoye Bridge, near Wellington, Nev., during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 21	3.25	29.4	May 16	7.12	770	Sept. 10	3.65	70.2
Mar. 24	3.43	50.8	June 1	6.87	719			
Apr. 11	4.12	140	Aug. 31	3.91	101			

Daily discharge, in second-feet, of West Walker River at Hoye Bridge, near Wellington, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		25	28		33	29	97	592	675	353	275	104
2		25	28		32	27	110	653	634	351	269	100
3		25	28		33	25	114	733	601		263	96
4		26			52	24	114	762	587		258	93
5		26			43	22	116	772	585		254	90
6		26			34	22	115	687	583		250	85
7		29			32	20	108		564		245	79
8		28			29	20	106	630	564		238	76
9		28			28	19	108		682		232	75
10		27			28	19	130	576	514	325	225	72
11	30	27			26	18	147	574	416		220	70
12		27			25	18	185	608	372		213	69
13		26			25	17	190		360		208	68
14		25			25	17	209	665	343		197	65
15		25			27	17	254		331		175	64
16		25		30	29	17	313	723	335		172	62
17		26	28		32	17	452	699	353	300	184	60
18		26			33	19	445	675	389	323	177	60
19		28			25	20	404	687	383	337	168	58
20		28			31	20	414	687	374	333	168	57
21	30	33			38	20	456	632	368	331	168	56
22		38			38	21	500	569	366	305	160	55
23		26			38	53	539	546	349	279	152	55
24		26			39	51	571	551	346	271	146	56
25	28	28			43	52	580	539	344	267	144	57
26		28			53	56	651	583	341	262	136	56
27		28			45	66	663	646	376	260	130	53
28	25	27			35	89	687	680	393	256	126	52
29	26	26			-------	90	675	704	374	250	121	51
30	25	27			-------	90	615	697	362	247	114	52
31	25	-------			-------	93	-------	687	-------	247	109	-------

NOTE.—No gage-height record Oct. 1–20, 22–27, Nov. 11–15, Dec. 4 to Jan. 31, May 7–9, 13–15, June 24, 25, and July 3–16; discharge estimated. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of West Walker River at Hoye Bridge, near Wellington, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October		25	29.0	1,780
November	38	25	27.2	1,620
December			[a] 28	1,720
January			[a] 30	1,840
February	53	25	34.0	1,890
March	93	17	35.1	2,160
April	687	97	336	20,000
May	772	539	650	40,000
June	682	331	442	26,300
July		247	307	18,900
August	275	109	190	11,700
September	104	51	68.2	4,060
The year	772	17	182	132,000

[a] Estimated.

HUMBOLDT-CARSON SINK BASIN

CARSON RIVER BASIN

EAST FORK OF CARSON RIVER NEAR MARKLEEVILLE, CALIF.

LOCATION.—In NE. ¼ sec. 27, T. 10 N., R. 20 E., at Hangmans Bridge, 2 miles east of Markleeville, Alpine County. Indian Creek enters 100 feet above gage and Markleeville Creek 1¼ miles below.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—November 13, 1910, to September 30, 1926 (fragmentary).

GAGE.—Vertical staff 75 feet below bridge, bolted to rock ledge on right bank; read by W. J. Clark.

DISCHARGE MEASUREMENTS.—Made from cable 400 feet below gage or by wading.

CHANNEL AND CONTROL.—Gravel and small boulders; appear permanent.

EXTREMES OF DISCHARGE.—Maximum discharge recorded during year, 705 second-feet on May 20; minimum, 2.30 feet September 3 (discharge, 15 second-feet).

1910–1926: Maximum stage recorded, 7.7 feet June 7, 1911 (discharge not determined); minimum, 1.45 feet September 20, 1913 (discharge, 6 second-feet).

ICE.—Stage-discharge relation affected by ice.

DIVERSIONS.—No information.

REGULATION.—Low-water flow augmented by storage on Silver Creek above station.

ACCURACY.—Stage-discharge relation changed May 5. Rating curves fairly well defined. Staff gage read to quarter-tenths occasionally when forest ranger passes gage; no ranger at station except during summer. Daily discharge ascertained by applying daily gage height to rating table. Records fair.

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

The following discharge measurement was made:

May 14, 1926: Gage height, 4.28 feet; discharge, 380 second-feet.

Daily discharge, in second-feet, of East Fork of Carson River near Markleeville, Calif., for the year ending September 30, 1926

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1	23		448				
2							
3							15
4			615			58	
5	23						
6			505				
7							
8							
9		126					
10	42			295		23	
11							
12							
13							
14			401	178			
15			385	214			
16							
17			515			26	
18			515				
19							
20			705				
21					63		
22					63		
23						26	
24			355	107	58		
25			340			18	
26				98			
27		535					
28							
29			385				
30							
31			370		63		

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

EAST FORK OF CARSON RIVER NEAR GARDNERVILLE, NEV.

LOCATION.—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, Douglas County.

DRAINAGE AREA.—381 square miles.

RECORDS AVAILABLE.—April 7, 1890, to December 31, 1893; October 17, 1900, to December 31, 1906; March 27, 1908, to December 26, 1910; June 22 to October 31, 1917; and December 17, 1924, to September 30, 1926.

GAGE.—Vertical staff on right bank; read by employees of Douglas Power Co.

DISCHARGE MEASUREMENTS.—Made from highway bridge 1,000 feet below gage or by wading.

CHANNEL AND CONTROL.—Bed composed of large rocks and gravel. One channel at all stages. Banks high and not subject to overflow. Concrete cut-off wall immediately below gage with Cippoletti weir opening of 75 feet. Stage of zero flow, 0.1 foot gage height.

EXTREMES OF DISCHARGE.—Maximum stage recorded during year, 2.14 feet at 7 a. m. April 26 (discharge, 1,230 second-feet); minimum, 0.28 foot for several days in August (discharge, 31 second-feet).

1890–1893, 1900–1906, 1908–1910, 1917, and 1925–26: Maximum discharge, 5,540 second-feet (estimated) December 25, 1892; minimum, 8 second-feet December 4–10 and 19–23, 1904.

ICE.—Stage-discharge relation not affected by ice.

DIVERSIONS.—Above all diversions to Carson Valley except Rodenbah pump ditch.

REGULATION.—Flow affected to some extent by operation of Douglas Power Co.'s plant.

ACCURACY.—Stage-discharge relation permanent. Rating curve well defined below 1,500 second-feet. Gage read to hundredths twice daily except as stated in footnote to table of daily discharge. Daily discharge ascertained by applying mean daily gage heights to rating table. Records fair.

COOPERATION.—Gage-height record furnished by Douglas Power Co.

The following discharge measurements were made:
October 22, 1925: Gage height, 0.44 foot; discharge, 63.8 second-feet.
March 23, 1926: Gage height, 1.01 feet; discharge, 259 second-feet.
June 3, 1926: Gage height, 1.30 feet; discharge, 469 second-feet.

Daily discharge, in second-feet, of East Fork of Carson River near Gardnerville, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	68	73	132		82	123	313	933	513	123	75	
2	68	70	129		80	129	365	923	505	117	77	
3	66	68	102		80	129	392	1,000	497	111	77	
4	64	62	84		82	129	429	1,060	443	111	75	
5	68	62	77		92	154	400	1,040	407	111	70	
6	84	66	80	55	92	139	407	866	407	105	68	
7	80	73	90		97	146	378	672	392	87	68	
8	82	80	92		97	139	372	553	400	80	55	
9	84	82	94		94	129	378	505	429	102	51	
10	82	82	90		94	129	378	481	392	117	41	
11	82	84	84	73	97	129	392	497	359	111	37	
12	82	87	80	70	90	136	392	505	313	105	33	
13	92	84	70	68	87	146	429	528	256	90	31	
14	105	80	64	68	80	172	536	586	221	82	31	
15	94	73	55	73	75	207	594	689	207	73	31	37
16	97	80	57	75	66	221	672	771	194	62	31	
17	97	77	57	82	66	261	790	808	181	55	31	
18	92	80	66	80	70	211	611	781	157	53	31	
19	92	84	62	73	72	194	553	933	154	55	31	
20	90	82	73	70	77	194	645	972	150	62	31	
21	87	77	75	64	90	194	790	942	132	70	31	
22	77	70	73	66	90	190	913	942	126	70	31	
23	82	68	66	64	87	226	846	837	126	70	31	
24	80	68	57	70	87	290	1,090	744	129	68	33	
25	77	70	64	68	90	290	1,130	466	120	68	33	
26	73	70	66	68	94	278	1,140	436	111	68	31	
27	73	73	64	70	102	251	1,000	458	111	68	35	
28	70	73	66	77	108	246	1,060	489	114	66	35	
29	70	77	68	422	-------	246	1,040	497	123	70	33	
30	77	82	66	129	-------	251	972	505	126	70	33	
31	73	-------	57	92	-------	273	-------	528	-------	70	33	-------

NOTE.—Braced figures show estimated mean discharge for periods indicated, when no gage-height record was obtained.

Monthly discharge of East Fork of Carson River near Gardnerville, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	105	64	80.9	4,970
November	87	62	75.2	4,470
December	132	55	76.1	4,680
January	422	----------	79.7	4,900
February	108	66	86.4	4,800
March	290	123	192	11,800
April	1,140	313	647	38,500
May	1,060	436	708	43,500
June	513	111	260	15,500
July	123	53	82.9	5,100
August	77	31	43.0	2,640
September	----------	----------	37.0	2,200
The year	1,140	31	198	143,000

CARSON RIVER NEAR FORT CHURCHILL, NEV.

LOCATION.—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, Lyon County, and 10 miles east of Dayton.

DRAINAGE AREA.—1,200 square miles (measured on topographic maps).

RECORDS AVAILABLE.—April 13, 1911, to September 30, 1926.

GAGE.—Gurley water-stage recorder on left bank a quarter of a mile above inclined staff gage.

DISCHARGE MEASUREMENTS.—Made from suspension bridge 500 feet above gage or by wading.

CHANNEL AND CONTROL.—Bed composed of sand and gravel; shifts occasionally.

EXTREMES OF DISCHARGE.—Maximum mean daily stage during year, 4.71 feet May 6 (discharge, 982 second-feet); no flow from July 18 to September 30.

1911–1926: Maximum stage, 11.5 feet January 26, 1914 (discharge, 6,150 second-feet); no flow August 27 to September 30, 1923, June 28 to October 31, 1924, and July 18 to September 30, 1926.

ICE.—No information.

DIVERSIONS.—Carson and Dayton Valleys are irrigated above station.

REGULATION.—Flow affected by diversions.

COOPERATION.—Records of daily discharge and discharge measurements furnished by United States Bureau of Reclamation.

Discharge measurements of Carson River near Fort Churchill, Nev., during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Dec. 17	2.42	97.6	Feb. 13	2.86	216	Apr. 23	3.91	608
Jan. 9	2.51	142	Mar. 12	2.93	223			
Jan. 26	2.47	115	Apr. 1	2.79	186			

Daily discharge, in second-feet, of Carson River near Fort Churchill, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1	23	116	131	109	249	218	176	707	127	23
2	23	116	143	109	226	213	170	670	141	23
3	23	114	165	105	205	213	176	670	139	23
4	25	110	172	105	203	208	190	750	127	22
5	30	109	150	114	210	205	205	845	116	21
6	37	103	137	114	208	203	335	982	102	21
7	46	103	137	114	198	205	383	816	109	18
8	54	109	147	116	190	205	342	648	133	18
9	63	116	139	112	186	200	335	524	109	18
10	77	131	133	112	183	203	319	452	109	18
11	80	127	133	114	186	203	286	410	97	19
12	80	121	135	112	190	195	292	357	82	17
13	85	121	137	105	188	186	273	308	74	15
14	88	129	133	102	198	181	325	292	69	14
15	85	123	119	107	200	188	398	319	61	12
16	85	119	114	112	216	203	483	339	54	10
17	93	118	114	118	221	232	659	402	43	10
18	97	121	119	121	213	249	723	478	39	
19	102	116	143	116	200	252	591	487	41	
20	105	118	143	103	235	221	456	505	39	
21	102	116	135	97	299	210	474	542	37	
22	109	114	135	107	283	203	487	505	36	
23	109	114	143	105	258	205	519	431	35	
24	102	112	143	116	258	203	547	402	32	
25	109	118	135	114	243	226	601	335	28	0
26	109	121	129	114	243	229	718	296	27	
27	105	123	123	107	252	237	805	255	25	
28	109	123	114	109	240	213	772	226	24	
29	119	123	114	158	-------	213	834	205	24	
30	118	123	114	452	-------	208	778	183	23	
31	114	-------	118	392	-------	181	-------	163	-------	

NOTE.—No flow July 18 to Sept. 30.

Monthly discharge of Carson River near Fort Churchill, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	119	23	80.8	4,970
November	131	103	118	7,020
December	172	114	134	8,240
January	452	97	132	8,120
February	299	183	221	12,300
March	252	181	210	12,900
April	834	170	455	27,100
May	982	163	468	28,800
June	141	23	70.1	4,170
July	23	0	9.7	596
August	0	0	0	0
September	0	0	0	0
The year	982	0	158	114,000

MARKLEEVILLE CREEK [1] ABOVE MARKLEEVILLE, CALIF.

LOCATION.—At highway bridge above mouth of Pleasant Valley Creek, three-fourths mile above Markleeville, Alpine County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—November 7, 1911, to September 30, 1926 (fragmentary).

GAGE.—Vertical staff in two sections on left abutment of bridge; read by W. J. Clark; datum of gage raised 5.71 feet August 18, 1914.

DISCHARGE MEASUREMENTS.—Made from bridge or by wading.

CHANNEL AND CONTROL.—Gravel and small boulders; fairly permanent.

EXTREMES OF DISCHARGE.—Maximum stage recorded during year, 2.35 feet April 16, 17, 24, and 27 (discharge, 176 second-feet); minimum, 0.4 foot August 27 (discharge 0.1 second-foot).

1911–1926: Maximum stage recorded, 3.65 feet at 4.30 p. m. June 15, 1917 (discharge, 602 second-feet); minimum discharge recorded, 0.05 second-foot September 5, 1921.

ICE.—No record obtained during winter.

DIVERSIONS.—Town ditch, which heads above the gage, furnishes water for irrigation and domestic supply at Markleeville. A small ditch also diverts water for irrigation on Hot Springs ranch.

REGULATION.—No information.

ACCURACY.—Stage-discharge relation permanent during year. Rating curve fairly well defined. Staff gage read to quarter-tenths occasionally when ranger is at ranger station. Daily discharge ascertained by applying daily gage height to rating table. Records fair.

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

The following discharge measurement was made:

May 14, 1926: Gage height, 1.89 feet; discharge, 75 second-feet.

[1] Known locally as Hot Springs Creek.

Daily discharge, in second-feet, of Markleeville Creek above Markleeville, Calif., for the year ending September 30, 1926

Day	Oct.	Apr.	May	June	July	Aug.	Sept.
1				36			
2				36			
3						0.5	0.3
4			164				
5			146				
6							
7	10	95	86				
8	10	91	82		1.8		.3
9	12						
10	12			21			
11				16			.3
12			91	18			
13							.4
14		108	74			.6	.4
15		140	104	10			
16		176				.5	
17		176	100				
18			110				
19			153				
20			100	7.5			
21		160					
22		164					
23		153		2.5	.8		
24	13	176		3.5		.3	
25			46	3.5			
26			44			.3	
27		176	46			.1	
28		164	46				
29			46				
30				1.8			
31			40				

MARKLEEVILLE CREEK AT MARKLEEVILLE, CALIF.

LOCATION.—In SE. ¼ sec. 21, T. 10 N., R. 20 E., at highway bridge at Markleeville, Alpine County, three-fourths mile below junction with Pleasant Valley Creek.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—November 11, 1910, to September 30, 1926 (fragmentary).

GAGE.—Vertical staff on left abutment of highway bridge near downstream end; read by W. J. Clark.

DISCHARGE MEASUREMENTS.—Made from bridge or by wading.

CHANNEL AND CONTROL.—Gravel and boulders; somewhat shifting during high water. Banks are high and not subject to overflow.

EXTREMES OF DISCHARGE.—Maximum stage recorded during year, 3.25 feet April 28 and May 4 (discharge, 306 second-feet); minimum, 0.95 foot October 1 (discharge, 7 second-feet).

1910–1926: Maximum stage recorded, 5.3 feet June 15, 1912 (discharge, 915 second-feet); minimum, 0.65 foot September 6, 1920 (discharge, 2.0 second-feet). Flood of March, 1907, reached a stage of about 9 feet.

ICE.—Stage-discharge relation not affected by ice during year.

DIVERSIONS.—See "Markleeville Creek near Markleeville." Water is also diverted from Pleasant Valley Creek for irrigation.

REGULATION.—Diversions partly regulate flow. Some storage has been developed on Pleasant Valley Creek.

ACCURACY.—Stage-discharge relation permanent during year. Rating curve fairly well defined. Staff gage read to hundredths occasionally except during winter, when no observer is available. Daily discharge ascertained by applying daily gage height to rating table. Records fair.

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

The following discharge measurement was made:
May 14, 1926: Gage height, 2.52 feet; discharge 153 second-feet.

Daily discharge, in second-feet, of Markleeville Creek at Markleeville, Calif., for the year ending September 30, 1926

Day	Oct.	Apr.	May	June	July	Day	Oct.	Apr.	May	June	July
1	7		230	84		16		265			
2			265	84		17		292	176		
3			292	73		18			176		
4			306	63		19			141		
5				63	23	20					
6			208			21		241			
7	8.5	103	176			22	8.5	265		13	
8	8.5	96	150	61	10	23	8.5	241			
9	10	84		53	36	24	8.5	292			8.5
10	10		125			25			96		
11				40		26			96		
12						27		278			
13			158	15		28		306			
14		197	141	29		29					
15		197	176			30					
						31			84		

HUMBOLDT RIVER BASIN

HUMBOLDT RIVER AT PALISADE, NEV.

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

DRAINAGE AREA.—5,010 square miles (measured on Land Office maps).

RECORDS AVAILABLE.—November 27, 1902, to October 19, 1906, and July 26, 1911, to September 30, 1926.

GAGE.—Chain gage at highway bridge; vertical staff gage a quarter of a mile downstream used January 4 to April 19; read daily by Mrs. Wendell Jones.

DISCHARGE MEASUREMENTS.—Made from railroad bridge half a mile below gage or by wading.

CHANNEL AND CONTROL.—Bed composed of sand and gravel. One channel at all stages. Control for chain gage at low stages is gravel bar 50 feet below gage; at high stages a pile-bent railroad bridge 300 feet below gage and a rock riffle a few hundred feet farther downstream become effective. Control for staff gage is rock riffle effective for both low and high stages. All controls fairly permanent.

EXTREMES OF DISCHARGE.—Maximum stage recorded during year, 2.73 feet (staff gage) March 17 (discharge, 459 second-feet); minimum, 1.02 feet (chain gage) August 3 and 5 (discharge, 6 second-feet).

1903–1906, 1911–1926: Maximum stage recorded, 8.6 feet at 10 a. m. March 3, 1921 (discharge, 4,300 second-feet); minimum discharge, that of August 3 and 5, 1926.

ICE.—Stage-discharge relation affected by ice.

DIVERSIONS.—Some water diverted for irrigation in valleys above canyon.

REGULATION.—Flow affected by irrigation diversions above.

ACCURACY.—Stage-discharge relation permanent. Rating curves well defined. Gage read to hundredths once daily except as indicated in footnote to table of daily discharge. Daily discharge ascertained by applying daily gage height to rating table. Discharge estimated for days when gage heights were not recorded. Records of daily discharge good, estimates fair.

The following discharge measurements were made. The gage heights refer to the chain gage.

October 27, 1925: Gage height, 2.36 feet; discharge, 125 second-feet.

March 18, 1926: Gage height, 3.39 feet; discharge, 391 second-feet.

May 28, 1926: Gage height, 2.48 feet; discharge, 155 second-feet.

Daily discharge, in second-feet, of Humboldt River at Palisade, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	94	107	176	75	103	344	274	159	70	25	9	9
2	97	110	181		112	358	260	159	65	24	8	8
3	94	117	204		107	351	254	155	63	22	6	9
4	91	117	190	70	107	336	235	121	59	22	9	10
5	94	121	199	70	126	344	260	91	57	20	6	9
6	91	124	204	74	142	358	287	124	56	22	11	8
7	94	131	199	78	169	366	322	139	59	19	10	9
8	97	139	194	74	163	374	329	143	57	20	11	10
9	100	143	185	70	180	390	294	151	63	100	12	11
10	100	151	194	74	198	398	274	143	59	56	12	11
11	103	155	194	70	192	351	287	124	57	40	11	11
12	107	163	199	70	204	344	260	121	57	34	11	11
13	103	163	176	70	216	382	267	124	54	28	11	13
14	100	159	163	74	222	441	267	117	46	26	11	13
15	100	155	147	126	210	424	235	107	43	25	11	14
16	103	163	135	112	222	441	228	97	40	22	10	13
17	103	168	117	103	235	459	222	91	38	20	11	12
18	100	172	135	94	228	419	228	88	38	20	11	13
19	103	163	163	78	204	406	260	85	36	23	9	14
20	100	151	155	67	192	424	239	85	34	25	10	13
21	97	139	143	86	186	441	218	88	36	22	11	14
22	100	131	147	116	192	432	204	91	33	20	10	15
23	103	124	155	103	180	428	194	135	31	19	9	14
24	110	117		82	198	424	181	143	29	18	9	15
25	117	128		78	216	358	163	168	28	17	10	16
26	124	139		70	222	344	172	172	26	16	9	19
27	131	151	130	67	235	336	168	159	29	15	8	17
28	128	155		70	254	351	163	151	30	14	9	18
29	124	163		94	-------	329	159	128	28	13	8	19
30	117	172		107	-------	314	155	110	28	12	9	20
31	110	-------		107	-------	308	-------	94	-------	10	10	-------

NOTE.—No gage-height record. Dec. 24 to Jan. 3, Mar. 23, July 17, 18, 22-31; discharge estimated. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Humboldt River at Palisade, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	131	91	104	6,400
November	172	107	143	8,510
December	204	----------	161	9,900
January	126	67	83.2	5,120
February	254	103	186	10,300
March	459	308	380	23,400
April	329	155	235	14,000
May	172	85	125	7,690
June	70	26	45.0	2,680
July	100	10	24.8	1,520
August	12	6	9.7	596
September	20	8	12.8	762
The year	459	6	126	90,900

HUMBOLDT RIVER AT COMUS, NEV.

LOCATION.—In NW. ¼ sec. 14, T. 36 N., R. 41 E., at Comus, Humboldt County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—September 25, 1917, to June 30, 1923, and May 23, 1925, to May 31, 1926, when station was discontinued.

GAGE.—Inclined staff on left bank 160 feet above Southern Pacific Railroad section house; read by Alex Erguiaga.

DISCHARGE MEASUREMENTS.—Made from cable or by wading near gage.

CHANNEL AND CONTROL.—Bed composed of fine gravel and sand. Channel very uniform in cross section; banks covered with willows. Low-water control is gravel bar 150 feet downstream.

EXTREMES OF DISCHARGE.—Maximum stage recorded during period, 3.9 feet December 30 (discharge, 429 second-feet); minimum, 1.21 feet May 15 (discharge, 11 second-feet).

1917–1926: Maximum stage recorded, 10.9 feet June 24–26, 1921 (discharge, 2,700 second-feet); no flow during periods in 1918, 1919, 1920, and 1924.

ICE.—Stage-discharge relation usually affected by ice.

DIVERSIONS.—Water diverted all along river both above and below station.

REGULATION.—None except by diversion.

ACCURACY.—Stage-discharge relation changed during winter. Rating curve well defined. Gage read to hundredths once daily from October 1 to May 31. Daily discharge ascertained by applying daily gage height to rating table; shifting-control method used December 1 to February 28; parallel shift March 1 to May 31. Records good.

The following discharge measurements were made:

October 17, 1925: Gage height, 1.91 feet; discharge, 88.3 second-feet.

March 19, 1926: Gage height, 3.45 feet; discharge, 344 second-feet.

May 28, 1926: Gage height, 1.49 feet; discharge, 31.6 second-feet.

Daily discharge, in second-feet, of Humboldt River at Comus, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
1	72	101	146	325	321	229	121	129
2	59	118	146	321	325	231	71	113
3	72	101	162	307	337	233	69	96
4	62	101	213	305	355	231	59	86
5	72	119	231	303	339	249	57	83
6	63	119	196	289	341	282	55	82
7	72	132	184	321	319	285	45	72
8	63	119	183	321	305	300	35	69
9	72	116	231	323	303	301	26	68
10	59	121	213	307	305	318	24	59
11	86	119	217	305	319	319	24	57
12	101	121	231	307	303	321	24	55
13	116	119	213	305	301	323	18	46
14	101	132	201	309	265	319	17	34
15	116	148	162	307	233	321	17	11
16	101	164	179	307	231	325	16	12
17	88	150	249	319	229	323	12	12
18	89	137	267	321	215	339	17	24
19	88	148	285	323	231	348	100	16
20	89	137	267	325	229	354	186	17
21	86	148	253	337	215	339	162	17
22	90	148	267	325	217	341	161	12
23	101	137	285	323	229	336	159	14
24	86	135	291	323	231	323	164	58
25	116	137	303	321	233	301	162	45
26	101	148	307	323	233	285	176	44
27	116	135	321	325	235	283	162	36
28	101	148	343	321	233	246	161	33
29	116	135	339	323	-------	195	145	26
30	101	134	429	325	-------	154	130	25
31	116	-------	339	325	-------	129	-------	24

Monthly discharge of Humboldt River at Comus, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	116	59	89.4	5,500
November	164	101	131	7,800
December	429	146	247	15,200
January	337	289	317	19,500
February	355	215	273	15,200
March	354	129	287	17,600
April	186	12	85.8	5,110
May	129	11	47.6	2,930
The period				88,800

HUMBOLDT RIVER NEAR OREANA, NEV.

LOCATION.—In sec. 35, T. 29 N., R. 32 E., 2 miles above highway bridge near J. J. McCarthy's ranch and 2 miles southwest of Oreana, Pershing County.

DRAINAGE AREA.—13,800 square miles (measured on General Land Office map).

RECORDS AVAILABLE.—January 27, 1896, to December 31, 1909; September 7, 1910, to September 30, 1922; and September 24, 1924, to September 30, 1926; fragmentary.

GAGE.—Stevens water-stage recorder on right bank; inspected by John Runner and J. C. Young.

DISCHARGE MEASUREMENTS.—Made from cable 20 feet below gage or by wading.

CHANNEL AND CONTROL.—Bed composed of sand. Right bank high and comparatively clean. Left bank not subject to overflow but subject to caving. Principal control not well defined but is probably about half a mile below gage, where bed is composed of firm clay; fairly permanent. Low-water control is about 50 feet below gage.

EXTREMES OF DISCHARGE.—1896–1926: Maximum stage recorded, 12.0 feet May 12, 1897 (discharge, 3,050 second-feet); no flow during periods in 1905, 1915, 1918, 1919, and 1920.

ICE.—Stage-discharge relation seriously affected by ice every winter.

DIVERSIONS.—Station is above all diversions for Lovelock district, but considerable water is diverted above station for direct irrigation and storage.

REGULATION.—Distribution of flow is affected by water stored in and released from Taylor-Pitt Reservoirs, near Humboldt. Water diverted from river is measured in Humboldt-Lovelock Irrigation, Light & Power Co.'s feeder canal near Mill City. (See p. 124.) Water returned to river is measured in Humboldt-Lovelock Irrigation, Light & Power Co.'s outlet canal near Humboldt. (See p. 125.)

ACCURACY.—Stage-discharge relation shifting. Standard rating curve well defined. Water-stage recorder operated only for intermittent periods. Daily discharge ascertained by shifting-control method. No attempt has been made to estimate mean discharge for periods of missing gage heights. Records of daily discharge given are fair.

The following discharge measurements were made:

October 24, 1925: Gage height, 1.28 feet; discharge, 21.4 second-feet.

March 22, 1926: Gage height, 2.02 feet; discharge, 141 second-feet.

May 30, 1926: Gage height, 1.71 feet; discharge, 99.8 second-feet.

Daily discharge, in second-feet, of Humboldt River near Oreana, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1					42	243	137		113	206
2							135		102	179
3							135		109	165
4							129		115	199
5							127		109	208
6							125		94	215
7							119		104	215
8							113		111	206
9							107		94	202
10		12					92		79	195
11			79				96	255	66	193
12			58				92		56	183
13			58	31	243				55	162
14					253	135			66	158
15									79	156
16									86	153
17									90	140
18									107	127
19									129	131
20									133	123
21									123	113
22						144			139	100
23						158			156	90
24	21	26				155			158	77
25	20					140	201		167	68
26	19		23			139			175	63
27						148		123	181	55
28						148			197	48
29						149			204	
30				48		146		98	204	
31				46		140		111		

NOTE.—No record on days for which discharge is not given. See records of Humboldt-Lovelock Irrigation, Light & Power Co.'s canals.

HUMBOLDT RIVER NEAR LOVELOCK, NEV.

LOCATION.—In NW. ¼ 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, Pershing County.

DRAINAGE AREA—14,200 square miles (measured on General Land Office maps).

RECORDS AVAILABLE.—February 7, 1912, to September 30, 1926, fragmentary.

GAGE.—Vertical staff gage on right bank read by H. F. Sommer.

DISCHARGE MEASUREMENTS.—Made from cable at gage or by wading.

CHANNEL AND CONTROL.—Bed composed of firm clay. Control fairly permanent. One channel at all stages.

EXTREMES OF DISCHARGE.—1912–1926: Maximum stage recorded, 5.90 feet May 29 and 30, 1922 (discharge, 1,700 second-feet); stream dry for periods in nearly every year.

ICE.—Stage-discharge relation seldom affected by ice.

DIVERSIONS.—Below all irrigation diversions but one.

REGULATION.—Flow regulated by irrigation diversions and storage.

Station was visited and flow was estimated at 1 second-foot on March 21, 1926.

Monthly run-off, in acre-feet, of Humboldt River near Lovelock, Nev., for the year ending September 30, 1926

October	972	March	1,090	July	0	
November	0	April	0	August	0	
December	0	May	0	September	0	
January	0	June	0			
February	4,530	July	0	The year	6,590	

MARYS RIVER NEAR DEETH, NEV.

LOCATION.—In NW. ¼ sec. 31, T. 40 N., R. 60 E., at bridge 300 feet east of Mala Vista ranch house of Nevada Land & Livestock Co. and 19 miles north of Deeth, Elko County.

DRAINAGE AREA.—355 square miles (measured on General Land Office map).

RECORDS AVAILABLE.—November 24, 1902, to July 14, 1903; January 17, 1912, to September 30, 1926.

GAGE.—Vertical staff on right bank near downstream side of bridge; read by Herbert Clayton.

DISCHARGE MEASUREMENTS.—Made from bridge at gage or by wading.

CHANNEL AND CONTROL.—Bed composed of gravel and loose sand; banks below gage subject to caving; one channel at all stages. Rock and gravel control 25 feet below gage, slightly shifting.

EXTREMES OF DISCHARGE.—Maximum stage recorded during year, 4.10 feet on April 15, 21–23, and May 5 (discharge, 136 second-feet); minimum discharge, 1 second-foot July 3–11 and August 2 to September 30.

1912–1926: Maximum stage recorded, 7.70 feet at 2 p. m. May 8, 1922 (discharge, 616 second-feet); practically no flow part of August and September, 1924.

ICE.—Stage-discharge relation affected by ice.

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

REGULATION.—During low-water periods flow is affected by diversions.

ACCURACY.—Stage-discharge relation changed May 22; affected by ice December 27 to February 3. Rating curves well defined. Gage read to hundredths once daily except February 21–27. Daily discharge ascertained by applying daily gage height to rating table. Discharge estimated for ice-affected period and for period when no gage heights were obtained. Records fair.

The following discharge measurements were made:

October 14, 1925: Gage height, 2.40 feet; discharge, 8.6 second-feet.

March 17, 1926: Gage height, 3.06 feet; discharge, 40.0 second-feet.

May 25, 1926: Gage height, 3.24 feet; discharge, 37.2 second-feet.

Daily discharge, in second-feet, of Marys River near Deeth, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	7	6			10	35	128	8	2	2	1
2	5	7	6		7	9	34	130	8	2	1	1
3	5	7	6			10	34	132	8	1	1	1
4	5	7	6		7	13	34	134	7	1	1	1
5	5	7	6		7	15	35	136	7	1	1	1
6	6	7	6		7	17	51	132	7	1	1	1
7	6	7	6		7	17	72	126	7	1	1	1
8	6	7	6		6	18	86	106	7	1	1	1
9	6	7	7		7	21	96	91	7	1	1	1
10	6	7	6		7	23	106	91	7	1	1	1
11	6	7	6		8	23	112	91	7	1	1	1
12	6	7	6		7	24	116	43	7	4	1	1
13	6	7	6		7	25	124	30	6	4	1	1
14	7	7	7		7	26	134	30	6	4	1	1
15	6	7	6		6	30	136	30	6	4	1	1
16	6	6	7	6	7	36	112	30	6	4	1	1
17	6	6	6		7	40	114	30	6	4	1	1
18	6	6	6		8	43	120	31	6	4	1	1
19	7	6	6		7	51	126	32	6	4	1	1
20	7	6	6		7	51	134	34	6	3	1	1
21	7	6	6			43	136	36	6	3	1	1
22	7	6	6			40	136	32	6	3	1	1
23	7	6	6			39	136	29	6	3	1	1
24	7	6	6		8	36	132	35	5	3	1	1
25	7	6	6			32	126	37	5	3	1	1
26	7	6	6			32	126	39	4	2	1	1
27	7	6				32	128	35	3	2	1	1
28	7	6			8	32	128	22	2	2	1	1
29	7	6	6			34	126	14	2	2	1	1
30	7	6				32	128	10	2	2	1	1
31	7					32		9		2	1	

NOTE.—Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Marys River near Deeth, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	7	5	6.3	387
November	7	6	6.5	387
December	7	6	6.1	375
January	----------	----------	6.0	369
February	----------	6	7.3	405
March	51	9	28.6	1,760
April	136	34	104	6,190
May	136	9	60.8	3,740
June	8	2	5.9	351
July	4	1	2.4	148
August	2	1	1.0	61
September	1	1	1.0	60
The year	136	1	19.6	14,200

SOUTH FORK OF HUMBOLDT RIVER NEAR ELKO, NEV.

LOCATION.—In sec. 19, T. 33 N., R. 55 E., at head of canyon below Cowling ranch, 4 miles above mouth and 10 miles southwest of Elko, Elko County.

DRAINAGE AREA.—Not measured (1,150 square miles at old station, 1½ miles upstream).

RECORDS AVAILABLE.—August 29, 1896, to December 31, 1909; September 9, 1910, to January 31, 1921; April 1 to November 30, 1921; March 29 to September 30, 1922; and October 1, 1923, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on right bank 1½ miles below highway bridge inspected by Albert Lamori.

DISCHARGE MEASUREMENTS.—Made from cable 110 feet above gage or by wading.

CHANNEL AND CONTROL.—Bed composed of gravel and sand. Basalt dike a short distance below gage affords well-defined control. One channel at all stages.

EXTREMES OF DISCHARGE.—Maximum stage during year, 2.34 feet at 3 p. m. May 21 (discharge, 244 second-feet); stream dry July 21 to September 30. 1896–1926: Maximum discharge recorded, 2,400 second-feet January 26, 1914; river dry at times in 1915, 1916, 1918, 1919, 1921, 1924, 1925, and 1926.

ICE.—Stage-discharge relation seriously affected by ice during winter.

DIVERSIONS.—Below all tributaries and all diversions except those of Hunter & Banks ranch, 3 miles downstream.

REGULATION.—Flow affected by diversions above.

ACCURACY.—Stage-discharge relation permanent during year; affected by ice November 22 to February 14. Rating curve well defined. Water-stage recorder operated satisfactorily October 13–18 and March 16 to July 13; weekly gage reading obtained throughout year. Daily discharge determined by applying to rating table mean daily gage height determined from recorder graph or staff reading. Discharge estimated for periods of missing gage-height record from temperature charts and hydrographic comparison with Humboldt River at Palisade. Records for estimated periods fair; others good.

Discharge measurements of South Fork of Humboldt River near Elko, Nev., during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 13	0.95	23.4	Mar. 16	1.55	83.5
Oct. 26	.91	21.6	May 24	2.19	210

Daily discharge, in second-feet, of South Fork of Humboldt River near Elko, Nev., for the year ending September 30, 1926

Day	Oct.	Mar.	Apr.	May	June	July	Day	Oct.	Mar.	Apr.	May	June	July
1	20		94	173	94	2	16	23	91	108	48	15	1
2	20		90	165	90	2	17	22	92	114	81	13	1
3	21		86	169	80	3	18	23	97	127	100	11	1
4	21	65	85	161	73	3	19		96	138	118	8	1
5			86	188	66	2	20		97	142	161	7	1
6			98	177	57	3	21	25	105	138	216	6	------
7	21	64	98	147	49	2	22		111	136	218	6	------
8			98	110	49	3	23		108	134	216	7	------
9			94	91	55	16	24		111	142	205	7	------
10			91	80	61	7	25	29	110	145	186	7	------
11	21	75	94	60	49	6	26	22	106	153	147	4	------
12	22		105	48	39	14	27		103	151	114	3	------
13	24		102	39	29	2	28		102	163	94	3	------
14	24	82	100	34	23	1	29	25	92	181	78	2	------
15	23	85	102	36	18	1	30		97	194	82	2	------
							31		96	------	88	------	------

NOTE.—Braced figures show estimated mean discharge for periods indicated. Stream dry July 21 to Sept. 30.

Monthly discharge of South Fork of Humboldt River near Elko, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October			23.1	1,420
November			[a] 30	1,790
December			[a] 20	1,230
January			[a] 15	922
February			[a] 35	1,940
March	111		86.6	5,320
April	194	85	120	7,140
May	218	34	124	7,620
June	94	2	31.1	1,850
July	16	0	2.3	141
August	0	0	0	0
September	0	0	0	0
The year	218	0	----------	29,400

[a] Estimated.

LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NEV.

LOCATION.—In NE. ¼ sec. 19, T. 41 N., R. 41 E., 300 feet south of Humboldt Hot Springs, 40 miles northeast of Winnemucca, and 11 miles southeast of Paradise Valley, Humboldt County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—October 1, 1921, to September 30, 1923, and April 1, 1924, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on right bank; inspected by G. E. Nickols.

DISCHARGE MEASUREMENTS.—Made by wading or from bridge 4 miles above gage.

CHANNEL AND CONTROL.—Bed composed of firm sand and clay. One channel for all stages. Control is shale ledge 40 feet below gage.

EXTREMES OF DISCHARGE.—Maximum discharge recorded during year, 66 second-feet on March 7; minimum, 8 second-feet for several days in June.

1921–1926: Maximum stage, 9.30 feet at 8 a. m. May 8, 1922 (discharge, 331 second-feet); minimum discharge recorded, 5 second-feet December 28, 1924.

ICE.—Stage-discharge relation seldom affected by ice.

DIVERSIONS.—Above all diversions in Paradise Valley. Bull Head ranch diverts in valley above.

REGULATION.—Affected by Bull Head irrigation diversion.

ACCURACY.—Stage-discharge relation shifted during year. Normal rating curve fairly well defined. Operation of water-stage recorder satisfactory except as stated in footnote to table of daily discharge. Daily discharge ascertained by applying to rating table mean daily gage height determined from recorder graph, using shifting-control method from October 1 to February 7. Discharge estimated for days of missing gage-height record. Records fair.

The following discharge measurements were made:

October 18, 1925: Gage height, 3.08 feet; discharge, 14.6 second-feet.

March 20, 1926: Gage height, 4.40 feet; discharge, 41.7 second-feet.

May 29, 1926: Gage height, 2.96 feet; discharge, 10.1 second-feet.

Daily discharge, in second-feet, of Little Humboldt River near Paradise Valley, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		15		13	16	43	14	18	10	9	9	9
2				13	17	49	13	19	10	9	9	10
3			20	13	17	55	13	19	10	9	9	9
4				13	17	58	12	19	10	9	9	10
5		15		13	19	60	13	20	9	9	9	9
6			21	13	24	63	15	20	9	9	9	10
7				13	32	66	15	21	8	9	9	9
8		15		13	40	55	15	23	8	9	9	10
9				13	52	50	17	27	8	9	9	9
10	12		20	12	55	50	17	27	8	9	9	10
11		16		12	52	45	17	26	8	9	9	9
12				12	53	44	19	26	8	9	9	10
13			18	12	46	40	21	24	9	9	9	9
14				12	39	39	21	22	10	9	9	10
15		17		12			21	19	9	9	9	10
16			18	13			21	17	9	9	9	10
17				13	30	40	21	17	9	9	9	10
18	15			13			23	17	9	9	9	10
19	16	15		13			25	15	9	9	9	10
20	16		19	13	21	42	27	14	9	9	9	10
21	16			13	21	38	28	13	9	9	9	10
22	16	13		13	21		27	13	8	9	9	10
23				13	22		26	13	8	9	9	10
24			17	14	19		24	12	9	9	9	10
25				14	21	26	24	12	9	9	9	10
		14										
26	16			14	22		23	12	9	9	9	11
27			15	13	30		21	13	8	9	9	11
28				13	36	15	20	13	8	9	9	11
29		15	14	14	-------	15	20	10	8	9	9	11
30		15		14	-------	14	19	10	8	9	9	11
31		-------		16	-------	14	-------	10	-------	9	9	------

NOTE.—No gage-height record Oct. 1–17, 23–31, Nov. 2–7, 9–14, 16–21, 23–28, 31, Dec. 1–5, 7–12, 14–19, 21–26, 28–31, Jan. 1, 2, 12–18, Feb. 13, 15–19, 27, Mar. 5, 6, 8, 15–19, 22–27, and Aug. 4–13; discharge estimated. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Little Humboldt River near Paradise Valley, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October			13.8	848
November			15.0	893
December			18.0	1,110
January	16	12	13.1	806
February	55	16	30.1	1,670
March	66	14	39.1	2,400
April	28	12	19.7	1,170
May	27	10	17.4	1,070
June	10	8	8.8	524
July	9	9	9.0	553
August	9	9	9.0	553
September	11	9	9.9	589
The year	66	8	16.8	12,200

MARTIN CREEK NEAR PARADISE VALLEY, NEV.

LOCATION.—In SE. ¼ NE. ¼ sec. 11, T. 42 N., R. 40 E., 1½ miles above Silver State flour mill and 8 miles northeast of Paradise Valley, Humboldt County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—October 1, 1921, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on right bank; inspected by Edmond Recanzone.

DISCHARGE MEASUREMENTS.—Made from bridge 2½ miles downstream or by wading.

CHANNEL AND CONTROL.—Channel of rock and earth. One channel at all stages. Control is rock and gravel riffle immediately below gage.

EXTREMES OF DISCHARGE.—Maximum stage during year, 6.15 feet March 4 (discharge, about 265 second-feet); minimum discharge, 7 second-feet for several days in July and September.

1921–1926: Maximum stage, about 8.6 feet February 4, 1925 (discharge, about 450 second-feet); minimum, 3.54 feet parts of August 16–18, 1923 (discharge, less than 5 second-feet).

ICE.—Stage-discharge relation slightly affected by ice.

REGULATION.—None.

DIVERSIONS.—None above gage.

ACCURACY.—Stage-discharge relation affected by ice January 4–18; affected by moss during summer and fall. Rating curve well defined below 70 second-feet; extended above. Water-stage recorder operated satisfactorily except as stated in footnote to table of daily discharge. Daily discharge ascertained by applying mean daily gage height or weekly gage reading to rating table, using shifting-control method July 1 to September 30. Discharge interpolated or estimated for days of missing gage heights. Records good; estimates fair.

The following discharge measurements were made:

October 18, 1925: Gage height, 3.78 feet; discharge, 10.4 second-feet.

March 20, 1926: Gage height, 4.27 feet; discharge, 39.2 second-feet.

May 29, 1926: Gage height, 4.12 feet; discharge, 28.2 second-feet.

Daily discharge, in second-feet, of Martin Creek near Paradise Valley, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	11	14	10	13	88	29	94	24	10	8	8
2	8	11	28	10	14	88	27	85	23	9	8	8
3	8	11	18	10	16	78	26	80	22	8	8	8
4	8	11	16		34	110	27	82	21	8	8	8
5	8	10	17		28	78	30	112	20	8	8	8
6	10	10	16		64	50	41	97	20	8	8	8
7	10	10	15		48	42	44	83	19	8	8	8
8	9	10	14		50	42	58	76	18	9	8	8
9	9	10	13		46		54	66	17	9	8	8
10	10	10	13		68		50	63	17	8	8	8
11	12	10	13	10	42	50	55	56	16	8	8	8
12	15	10	13		21		56	54	15	8	8	8
13	18	11	13		21	59	60	55	15	7	8	8
14	14	10	10		18	68	66	54	15	8	8	8
15	12	10	10		18	68	70	54	15	7	8	8
16	12	11	11		17	73	81	55	15	7	8	8
17	11	11	12		16	68	91	55	14	7	8	8
18	11	11	12		16	60	103	53	14	7	8	8
19	11	10	12	10	16	50	96	50	14	7	8	8
20	11	10	9	10	16	40	90	49	14	7	8	7
21	11	9	13	10	16	37	89	46	14	7	8	7
22	11	9	13	10	15	38	89	44	14	7	8	7
23	11	10	12	10	15	44	83	42	13	8	8	7
24	11	11	11	11	18	48	79	41	12	8	8	8
25	11	11	11	10	27	41	79	38	12	8	8	8
26	11	11	11	10	42	36	82	35	11	8	8	8
27	11	12	11	10	68	34	85	33	10	8	8	8
28	11	12	11	10	78	33	87	30	10	8	8	8
29	11	12	10	11	-------	28	88	28	10	8	8	8
30	11	12	9	13	-------	32	90	26	10	8	8	8
31	11	-------	9	13	-------	31	-------	25	-------	8	8	------

NOTE.—Stage-discharge relation affected by ice Jan. 4–18. No gage-height record Jan. 2, Mar. 9–12, 18, 19, June 7–12, 14–19, Sept. 22–25, 27–30; discharge estimated. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Martin River near Paradise Valley, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	18	8	10.8	664
November	12	9	10.6	631
December	28	9	12.9	793
January	13	----------	10.3	633
February	78	13	30.8	1,710
March	110	28	53.7	3,300
April	103	26	66.8	3,970
May	112	25	56.8	3,490
June	24	10	15.5	922
July	10	7	7.9	486
August	8	8	8.0	492
September	8	7	7.9	470
The year	112	7	24.3	17,600

COTTONWOOD CREEK NEAR PARADISE VALLEY, NEV.

LOCATION.—In SW. ¼ sec. 3, T. 42 N., R. 39 E., at Case ranch, 5 miles north of Paradise Valley, Humboldt County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—May 22, 1925, to September 30, 1926.

GAGE.—Vertical enameled staff on left bank; read by J. S. Case.

DISCHARGE MEASUREMENTS.—Made by wading.

CHANNEL AND CONTROL.—Bed of gravel; one channel. Banks not subject to overflow. Control of large boulders.

ICE.—Stage-discharge relation probably affected by ice.

DIVERSIONS.—Several diversions above and below station.

REGULATION.—None, except by diversions.

ACCURACY.—Stage-discharge relation permanent. Rating curve fairly well defined. Gage read to hundredths once or twice a day with occasional omissions. Daily discharge ascertained by applying daily gage height or mean daily gage height to rating table. Discharge interpolated for days of missing gage heights. Records fair.

The following discharge measurements were made:
October 18, 1925: Gage height, 4.24 feet; discharge, 1.7 second-feet.
March 20, 1926: Gage height, 4.55 feet; discharge, 9.0 second-feet.
May 29, 1926: Gage height, 4.54 feet; discharge, 9.1 second-feet.

Daily discharge, in second-feet, of Cottonwood Creek near Paradise Valley, Nev., for the year ending September 30, 1926

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

NOTE.—Flow less than 1 second-foot Oct. 1–5, Nov. 1–9, and July 1 to Sept. 30.

Monthly discharge of Cottonwood Creek near Paradise Valley, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	7	0	1.7	105
November	3	0	1.3	77
December	9	2	3.3	203
January	2	1	1.8	111
February	5	1	2.8	156
March	11	2	7.4	455
April	18	6	14.3	851
May	22	8	13.4	824
June	8	1	2.7	160
July	-------	-------	0.1	8
August	0	0	0	0
September	0	0	0	0
The year	22	0	4.1	2,950

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

LOCATION.—In SW. ¼ sec. 29, T. 33 N., R. 35 E., a quarter of a mile below head of canal and 2 miles north of Mill City, Pershing County.

RECORDS AVAILABLE.—February 19, 1914, to September 30, 1926; fragmentary.

GAGE.—Stevens continuous water-stage recorder on left bank; inspected by G. L. Pitt.

DISCHARGE MEASUREMENTS.—Made from footbridge at gage or by wading.

CHANNEL AND CONTROL.—Earth section. Channel control. Stage-discharge relation affected by growth of aquatic plants and by wash from several small gullies below station.

ICE.—Stage-discharge relation generally affected by ice.

DIVERSIONS.—None.

REGULATION.—Flow regulated by head gates.

ACCURACY.—Stage-discharge relation permanent during year. Rating curve fairly well defined. Water-stage recorder operated satisfactorily while water was in canal except October 8–18 and December 10–14. Discharge obtained by applying mean daily gage height to rating table. Daily-discharge record good; estimates, fair.

Canal diverts from Humboldt River in NW. ¼ 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-Lovelock Irrigation, Light & Power Co.'s outlet canal, and carried in natural channel to head gates of canals serving Lovelock district.

The following discharge measurements were made:

October 19, 1925: Gage height, 3.42 feet, discharge 94.7 second-feet.

March 21, 1926: Gage height, 1.35 feet; discharge 8.9 second-feet.

Daily discharge, in second-feet, of Humboldt-Lovelock Irrigation, Light & Power Co.'s feeder canal near Mill City, Nev., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	------	90	164	115	128	11	16	} 75	124	169	159	22	11
2	------	95	164	128	121	10	17		126	166	158	20	10
3	------	98	159	160	106	10	18		128	134	173	18	9
4	------	103	158	162	94	10	19	94	130	116	167	16	9
5	------	107	158	165	87	10	20	89	134	103	162	16	8
6	------	109	160	164	79	10	21	87	147	99	150	15	8
7	6	107	150	162	73	44	22	84	144	99	138	14	8
8	}	103	143	162	68	80	23	86	143	102	137	13	8
9		97	146	156	66	93	24	92	144	103	149	11	7
10		101	}	151	65	65	25	95	145	100	145	12	1
11	} 75	108	}	154	62	34	26	93	146	99	146	12	------
12		116	160	156	38	21	27	80	146	107	144	12	------
13		120	}	156	33	16	28	74	147	127	143	11	------
14		121	}	151	29	14	29	78	152	134	137	------	------
15	}	123	180	143	24	12	30	84	160	126	132	------	------
							31	89	------	119	132	------	------

NOTE.—Canal dry Oct. 1–6 and Mar. 26 to Sept. 30. Braced figures show estimated mean discharge for periods indicated.

Monthly discharge of Humboldt-Lovelock Irrigation, Light & Power Co.'s feeder canal near Mill City, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	----------	0	63.1	3,880
November	160	90	124	7,380
December	----------	99	138	8,480
January	173	115	150	9,220
February	128	11	45.2	2,510
March	93	0	16.7	1,030
The year	----------	----------	----------	32,500

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

LOCATION.—In SE. ¼ sec. 30, T. 32 N., R. 33 E., at outlet of lower Taylor-Pitt Reservoir, 2½ miles west of Humboldt, Pershing County.

RECORDS AVAILABLE.—February 15, 1914, to September 30, 1920, and October 1, 1921, to September 30, 1926.

GAGE.—Vertical staff gage on right bank 100 feet above weirs; read by employees of reservoir company when gates were open.

DISCHARGE MEASUREMENTS.—Made from footbridge a quarter of a mile downstream or by wading.

CHANNEL AND CONTROL.—Two 8-foot Cippoletti weirs form permanent control. Stage of zero flow, gage-height 0.04 foot; determined April 7, 1917.

ICE.—Gates usually closed during winter.

DIVERSIONS.—None.

REGULATION.—Flow regulated by reservoir outlet gates.

ACCURACY.—Stage-discharge relation permanent. Rating curve well defined below 150 second-feet; extended above. Staff gage read when reservoir gates were open. Daily discharge ascertained by applying daily gage height to rating table. Records good.

Canal conducts stored water released from Taylor-Pitt Reservoirs to Humboldt River in SW. ¼ sec. 31, T. 32 N., R. 33 E., for irrigation in Lovelock Valley, several miles downstream.

The following discharge measurements were made:

March 21, 1926: Gage height, 0.09 foot; discharge, 1.0 second-foot.

May 30, 1926: Gage height, 1.35 feet; discharge, 91.9 second-feet.

June 4, 1926: Gage height, 1.45 feet; discharge, 91.9 second-feet.

Daily discharge, in second-feet, of Humboldt-Lovelock Irrigation, Light & Power Co.'s outlet canal near Humboldt, Nev., for the year ending September 30, 1926

Day	Mar.	Apr.	May	June	July	Aug.	Sept.
1		54	200	79	199	50	23
2		52	207	88	154	52	12
3		50	220	96	221	56	12
4		46	241	96	229	60	16
5		45	250	83	243	60	8
6		34	272	96	243	60	8
7		30	270	97	229	54	8
8		28	267	79	225	56	8
9		13	267	68	212	52	7
10		12	267	44	207	45	6
11		12	259	40	190	23	6
12		12	269	40	170	23	6
13		12	247	57	157	26	6
14		38	223	74	157	32	6
15		64	239	80	150	32	6
16		67	225	84	131	20	6
17		68	198	101	115	23	5
18		81	182	125	125	28	6
19		83	160	127	118	28	6
20		84	145	112	108	24	3
21		90	148	135	90	23	3
22		110	119	157	84	33	3
23	7	115	108	157	67	42	3
24	30	120	108	167	34	44	3
25	38	148	108	183	14	38	3
26	52	170	108	195	6	35	3
27	54	173	100	216	2	35	2
28	54	187	96	225	9	35	1
29	54	190	87	225	22	28	1
30	54	190	89	225	26	23	1
31	54		90		42	23	

NOTE.—Seepage water only, 1 second-foot or less, Oct. 1 to Mar. 22 and Sept. 28-30.

Monthly discharge of Humboldt-Lovelock Irrigation, Light & Power Co.'s outlet canal near Humboldt, Nev., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October			[a] 1	61
November			[a] 1	60
December			[a] 1	61
January			[a] 1	61
February			[a] 1	56
March	54	1	13.5	830
April	190	12	79.3	4,720
May	272	87	186	11,400
June	225	40	118	7,020
July	243	2	128	7,870
August	60	20	37.5	2,310
September	23	1	6.2	369
The year	272		48.2	34,800

[a] Estimated, seepage water only.

PYRAMID AND WINNEMUCCA LAKES BASIN

LAKE TAHOE AT TAHOE, CALIF.

LOCATION.—In SE. ¼ sec. 6, T. 15 N., R. 17 E., near outlet of lake at Tahoe, Placer County.

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

RECORDS AVAILABLE.—1900 to September 30, 1926.

GAGE.—Vertical staff fastened to piling of boat landing near outlet; read once a day by employee of United States Bureau of Reclamation. Datum is 6,220 feet above sea level. Mean low-water elevation of lake is 6,226.0 feet.

EXTREMES OF STAGE.—Maximum stage recorded during year, 5.26 feet June 8–10; minimum, 3.51 feet September 30.

1900–1926: Maximum stage recorded, 11.26 feet July 14, 15, 17, and 18, 1907; minimum, 2.84 feet October 26, 1924.

ACCURACY.—Gage read to hundredths once daily.

COOPERATION.—Record furnished by United States Bureau of Reclamation.

Daily gage height, in feet, of Lake Tahoe at Tahoe, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.52	4.26	4.09	3.98	4.05	4.42	4.44	4.97	5.22	5.03	4.61	4.07
2	4.50	4.24	4.09	3.98	4.07	4.42	4.44	4.98	5.22	5.02	4.60	4.04
3	4.48	4.24	4.09	3.97	4.11	4.42	4.44	5.00	5.22	5.01	4.58	4.03
4	4.47	4.22	4.07	3.96	4.13	4.42	4.45	5.00	5.23	5.00	4.55	4.02
5	4.47	4.20	4.06	3.96	4.14	4.43	4.58	5.05	5.24	4.99	4.55	4.01
6	4.46	4.19	4.05	3.95	4.13	4.43	4.62	5.05	5.24	4.98	4.54	3.99
7	4.46	4.18	4.05	3.95	4.12	4.43	4.63	5.05	5.24	4.95	4.54	3.97
8	4.43	4.17	4.04	3.95	4.13	4.43	4.69	5.07	5.26	4.93	4.52	3.95
9	4.43	4.15	4.04	3.94	4.13	4.44	4.70	5.08	5.26	4.90	4.50	3.94
10	4.43	4.14	4.03	3.94	4.13	4.44	4.70	5.08	5.26	4.92	4.49	3.92
11	4.43	4.12	4.02	3.94	4.15	4.43	4.71	5.08	5.25	4.91	4.46	3.91
12	4.43	4.12	4.01	3.93	4.18	4.43	4.72	5.09	5.25	4.90	4.43	3.88
13	4.40	4.15	4.00	3.93	4.23	4.43	4.73	5.10	5.24	4.89	4.41	3.86
14	4.40	4.16	3.99	4.92	4.30	4.43	4.73	5.11	5.22	4.89	4.40	3.85
15	4.39	4.15	3.98	4.92	4.32	4.43	4.74	5.11	5.20	4.88	4.40	3.82
16	4.38	4.12	3.98	3.91	4.36	4.43	4.75	5.12	5.19	4.86	4.39	3.78
17	4.37	4.13	3.97	3.91	4.36	4.44	4.76	5.13	5.18	4.85	4.36	3.75
18	4.37	4.11	4.01	3.93	4.36	4.44	4.77	5.14	5.17	4.83	4.33	3.74
19	4.36	4.10	4.01	3.93	4.36	4.44	4.78	5.16	5.15	4.81	4.31	3.73
20	4.35	4.10	4.01	3.93	4.43	4.44	4.79	5.16	5.13	4.80	4.31	3.70

Daily gage height, in feet, of Lake Tahoe at Tahoe, Calif., for the year ending September 30, 1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
21	4.35	4.09	4.01	3.92	4.44	4.44	4.80	5.16	5.11	4.78	4.29	3.68
22	4.34	4.08	4.01	3.92	4.45	4.44	4.81	5.17	5.10	4.75	4.29	3.68
23	4.33	4.07	4.01	3.92	4.46	4.43	4.82	5.17	5.10	4.72	4.28	3.66
24	4.32	4.07	4.00	3.91	4.46	4.43	4.83	5.18	5.09	4.73	4.26	3.65
25	4.30	4.07	4.00	3.90	4.46	4.43	4.85	5.18	5.08	4.71	4.26	3.61
26	4.30	4.06	3.99	3.89	4.44	4.43	4.87	5.18	5.07	4.70	4.24	3.61
27	4.29	4.06	3.99	3.89	4.42	4.43	4.88	5.20	5.07	4.68	4.22	3.60
28	4.29	4.06	3.99	3.88	4.42	4.43	4.90	5.20	5.06	4.65	4.19	3.58
29	4.28	4.06	3.99	4.01	-------	4.43	4.92	5.21	5.05	4.63	4.14	3.53
30	4.27	4.07	3.98	4.04	-------	4.44	4.95	5.21	5.05	4.64	4.11	3.51
31	4.27	-------	3.98	4.05	-------	4.44	-------	5.22	-------	4.63	4.09	------

TRUCKEE RIVER AT TAHOE, CALIF.

LOCATION.—In NW. ¼ sec. 7, T. 15 N., R. 17 E., at Tahoe, Placer County, a short distance below dam at outlet of Lake Tahoe.

DRAINAGE AREA.—519 square miles.

RECORDS AVAILABLE.—July 3, 1895, to February 29, 1896; June 17, 1900, to September 30, 1926.

GAGE.—Vertical staff fastened to large cottonwood tree on left bank, 300 feet below dam at outlet of Lake Tahoe. Original gage, 100 feet above, was destroyed by dredging operations July 15, 1912.

DISCHARGE MEASUREMENTS.—Made from cable 140 feet below gage or by wading.

CHANNEL AND CONTROL.—Gravel; practically permanent.

EXTREMES OF DISCHARGE.—1895–1896 and 1900–1926: Maximum mean daily discharge, 1,340 second-feet, July 13–20, 1907 (stage, 4.3 feet); no flow during parts of 1900, 1901, 1914, and 1918–1926.

ICE.—Stage-discharge relation not seriously affected by ice.

DIVERSIONS.—No information.

REGULATION.—Flow regulated by operation of gates in dam at Lake Tahoe.

ACCURACY.—Stage-discharge relation did not change during year. Rating curve well defined. Gage read to hundredths at least once each day. Daily discharge ascertained by United States Bureau of Reclamation by applying mean daily gage height to rating table.

COOPERATION.—Daily-discharge record furnished by United States Bureau of Reclamation.

No discharge measurements were made during the year.

Daily discharge, in second-feet, of Truckee River at Tahoe, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	June	July	Aug.	Sept.
1	148	100	72	60	-------	137	-------	354	189	73
2	147	97	72	60	50	137	-------	351	187	69
3	145	97	72	59	51	102	-------	346	182	70
4	138	93	68	58	72	102	-------	340	173	65
5	138	92	68	58	72	61	-------	334	173	64
6	140	90	67	57	-------	-------	-------	329	171	61
7	140	88	66	57	-------	-------	-------	320	166	60
8	133	87	65	57	-------	-------	-------	315	162	58
9	134	84	65	56	-------	-------	-------	298	157	56
10	134	83	63	56	-------	-------	104	304	155	53
11	134	78	62	56	-------	-------	104	301	149	53
12	134	78	62	54	-------	-------	104	298	143	50
13	129	84	61	54	-------	-------	154	295	136	49
14	129	84	61	52	-------	-------	191	293	134	46
15	127	83	60	52	-------	-------	250	290	132	43

Daily discharge, in second-feet, of Truckee River at Tahoe, Calif., for the year ending September 30, 1926—Continued

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	June	July	Aug.	Sept.
16	125	77	60	51			270	282	128	39
17	123	78	59	51	100		282	277	124	36
18	123	77	62	54	100		280	272	121	35
19	121	75	62	54	100		293	267	117	34
20	120	75	62	54	102		293	262	115	30
21	120	72	62	52	102		293	255	109	29
22	118	71	62	52	102		348	242	106	29
23	114	68	62	52	102		384	230	102	27
24	111	68	61	51	102		381	235	100	26
25	107	68	61	50	102		381	227	97	23
26	107	67	61	49	102		378	225	93	23
27	105	67	61	49	137		375	210	90	22
28	105	67	61	48	137		372	205	89	21
29	104	67	61	62			363	198	81	15
30	102	68	60				360	198	76	15
31	102		60					193	75	

NOTE.—No flow on days for which discharge is not given.

Monthly discharge of Truckee River at Tahoe, Calif., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	148	102	124	7,620
November	100	67	79.4	4,720
December	72	59	63.3	3,890
January	62	0	50.8	3,120
February	137	0	54.8	3,040
March	137	0	17.4	1,070
June	384	0	199	11,800
July	354	193	276	17,000
August	189	75	130	7,990
September	73	15	42.5	2,530
The year	384	0	86.7	62,800

TRUCKEE RIVER AT ICELAND, CALIF.

LOCATION.—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, Nevada County, and 23 miles west of Reno, Nev.

DRAINAGE AREA.—937 square miles.

RECORDS AVAILABLE.—August 1, 1912, to September 30, 1926.

GAGE.—Water-stage recorder on right bank above dam; auxiliary vertical staff fastened to gage well.

DISCHARGE MEASUREMENTS.—Made from cable 130 feet above gage.

CHANNEL AND CONTROL.—Bed consists of small boulders; fairly smooth and permanent. Left bank high; right bank subject to overflow at high stages. Dam of National Ice Co. is the control.

EXTREMES OF DISCHARGE.—1907–1926: Maximum mean daily discharge, 15,300 second-feet March 18, 1907; minimum, 40 second-feet January 19 and 20, 1925.

ICE.—Stage-discharge relation somewhat affected by ice.

DIVERSIONS.—No information.

REGULATION.—See "Truckee River at Tahoe."

ACCURACY.—Stage-discharge relation did not change during year. Rating curve well defined. Mean daily gage heights determined from water-stage recorder sheets. Daily discharge ascertained by United States Bureau of Reclamation by applying mean daily gage height to rating table.

COOPERATION.—Daily-discharge record furnished by United States Bureau of Reclamation.

No discharge measurements were made during the year.

Daily discharge, in second-feet, of Truckee River at Iceland, Calif., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	246	200	454	162	223	342	648	1,360	484	400	266	143
2	237	200	454	162	185	349	572	1,240	462	393	269	128
3	237	206	302	172	203	339	525	1,220	436	382	260	128
4	234	197	243	159	365	355	577	1,280	436	382	254	126
5	240	182	246	165	400	397	1,120	1,440	425	379	249	124
6	254	162	234	165	382	372	1,320	1,030	400	375	254	117
7	240	157	223	159	382	356	1,360	845	382	365	249	112
8	246	170	215	162	362	372	1,260	769	362	355	243	108
9	254	167	209	172	308	379	1,070	708	332	342	240	135
10	266	175	197	175	308	362	899	623	317	349	237	162
11	269	180	200	175	278	332	891	623	335	342	234	143
12	272	195	200	177	275	352	876	608	352	339	229	101
13	257	200	175	180	269	429	1,030	643	365	335	220	99
14	254	195	167	200	257	533	1,080	669	365	326	215	95
15	249	200	175	177	249	608	1,160	685	418	323	209	93
16	237	197	172	195	234	697	1,390	697	422	320	206	89
17	234	192	185	177	203	726	1,280	720	425	314	200	89
18	234	182	188	172	275	618	1,080	762	418	308	200	86
19	229	182	177	180	302	577	998	837	425	302	203	86
20	229	180	162	206	287	623	1,040	907	425	299	200	86
21	226	175	188	243	287	648	1,100	823	410	308	200	84
22	218	172	177	200	323	659	1,130	756	440	293	190	84
23	215	177	172	177	272	714	1,120	702	462	287	188	82
24	212	180	170	175	269	756	1,160	599	454	278	182	82
25	203	182	175	175	266	691	1,280	529	443	266	180	82
26	203	177	175	175	272	643	1,320	512	436	260	177	78
27	200	177	172	188	305	628	1,360	473	433	281	175	78
28	200	177	167	188	317	599	1,340	436	425	278	167	75
29	243	175	172	674	-------	581	1,500	454	418	269	162	75
30	308	229	175	311	-------	554	1,590	500	410	263	154	75
31	302	-------	172	251	-------	623	-------	480	-------	257	148	-------

Monthly discharge of Truckee River at Iceland, Calif., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	308	200	240	14,800
November	229	157	185	11,000
December	454	162	209	12,900
January	674	159	202	12,400
February	400	185	288	16,000
March	756	332	523	32,200
April	1,590	525	1,100	65,500
May	1,440	436	772	47,500
June	484	317	411	24,500
July	400	257	322	19,800
August	269	148	212	13,000
September	162	75	102	6,070
The year	1,590	75	381	276,000

ABERT LAKE BASIN

CHEWAUCAN RIVER ABOVE CONN DITCH NEAR PAISLEY, OREG.

LOCATION.—In SW. ¼ 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, one-fourth mile below mouth of Mill Creek, and 2½ miles above Paisley, Lake County.

DRAINAGE AREA.—266 square miles (measured on map of Fremont National Forest).

RECORDS AVAILABLE.—April 3 to September 30, 1912; May 1, 1924, to September 30, 1926. Records at stations giving practically same yearly run-off are available January 4, 1905, to December 31, 1907, and January 18, 1909, to April 15, 1912.

GAGE.—Stevens 8-day water-stage recorder on left bank; inspected by R. R. Severin.

DISCHARGE MEASUREMENTS.—Made from footbridge at power plant or by wading.

CHANNEL AND CONTROL.—Control of rock and boulders; fairly permanent.

EXTREMES OF DISCHARGE.—Maximum stage during year, from water-stage recorder, 1.78 feet at 9.30 p. m. February 4 (discharge, 584 second-feet); minimum, 0.19 foot at 6 p. m. August 7 (discharge, 6 second-feet).

1924–1926: Maximum stage recorded, 2.40 feet at midnight February 4, and 6 to 7 a. m. May 21, 1925 (discharge, 960 second-feet); minimum, 0.17 foot at 4 p. m. July 29, 1924 (discharge, 4.2 second-feet).

ICE.—Stage-discharge relation not seriously affected by ice.

DIVERSIONS.—About 160 acres shown as irrigated above station on surveys made by State engineer.

REGULATION.—Slight fluctuations caused by power plant above; no appreciable pondage.

ACCURACY.—Stage-discharge relation fairly permanent; affected by ice December 31 to January 5, 8–11, 13, 14, 16, 21–22, and 24–30. Rating curve fairly well defined below 500 second-feet. Operation of water-stage recorder satisfactory except for a few short periods. Daily discharge ascertained by applying to rating table mean daily gage height obtained by inspecting recorder graph. Records good except for flat estimates of discharge, which are fair.

COOPERATION.—Record furnished by State engineer of Oregon.

Discharge measurements of Chewaucan River above Conn ditch near Paisley, Oreg., during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Nov. 29	0.45	37.4	May 17	0.58	54
Jan. 16	.46	39	July 23	.20	5.9

Daily discharge, in second-feet, of Chewaucan River above Conn ditch near Paisley, Oreg., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	25	56	31	36	56		110	36	17	12	20
2	28	30	162	31	37	56		105	34	17	12	19
3	28	27	53	31	36	57	115	102	34	17	12	19
4	28	28	56	31	118	59		102		17	12	17
5	28	28	51	34	130	59	149	108	32	17	12	17
6	48	38	43	36	127	56	146	102			12	17
7	43	42	40	36	102	56	127	105	30		12	16
8	37	42	43	36	83	65	149	100	28			16
9	36	34	38	37	59	54	130	92	26	18		16
10	36	36	38	38	54	48	130	78	25			16
11	36	36	45	40	51	54	133	74	26		12	16
12	37	37	43	40	46	56	143	67	26	19		16
13	34	32	31	40	37	65		65	25	22		17
14	32	26	31	38	38	78	156		24	19		16
15	32	32	40	38	46	92		60	22	15		17
16	31	36	40	38	37	102	170		22	15	13	17
17	31	42	43	36	32	90	162	56	22	12	12	18
18	31	38	38	34	38	76	152	56	24	10	13	17
19	30	30	36	34	43	68	143	54	24	12	17	17
20	28	31	36	30	36	72	133	54	22	9	16	17
21	28	30	38	30	37	68	127	51	24	9	14	17
22	28	34	38	29	40	78	121	49	25	10	13	17
23	27	43	42	31	38	90	116	48	22	12	12	17
24	26	43	42	31	43	92	116	46	22	12	12	17
25	26	43	37	31	48	88	113	46	21	12	12	16
26	27	40	38	31	53	76	113	45	20	12	12	16
27	26	37	36	32	54	78	113	46	18	12	12	21
28	26	34	36	32	56	83	113	45	17	12	12	20
29	26	37	20	34	-------	78	110	42	17	12	15	20
30	25	42	31	34	-------	78	117	40	17	12	17	21
31	24	-------	31	32	-------	78	-------	38	-------	12	20	-------

NOTE.—Water-stage recorder not operating satisfactorily March 30, 31, June 27, Aug. 22, 29, and during periods included in brackets; discharge estimated by interpolation.

Monthly discharge of Chewaucan River above Conn ditch near Paisley, Oreg., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	48	24	30.7	1,890
November	43	25	35.1	2,090
December	162	20	43.6	2,680
January	40	29	34.1	2,100
February	130	32	55.5	3,080
March	102	48	71.2	4,380
April	170	110	132	7,860
May	110	38	67.9	4,180
June	36	17	25.0	1,490
July	22	9	14.6	898
August	20	12	13.0	799
September	21	16	17.4	1,040
The year	170	9	44.8	32,500

SILVER LAKE BASIN

SILVER CREEK NEAR SILVER LAKE, OREG.

LOCATION.—In SW. ¼ sec. 28, T. 28 S., R. 14 E., 1½ miles below diversion dam of Silver Lake Irrigation District, 1½ miles southwest of Silver Lake post office, Lake County, and 3 miles above mouth of Bridge Creek. During part of each year record is obtained in spillway flume at diversion dam or at weir below outlet tunnel of dam, in NE. ¼ sec. 5, T. 29 S., R. 14 E.

DRAINAGE AREA.—221 square miles.

RECORDS AVAILABLE.—December 29, 1904, to March 31, 1907; January 11, 1909, to September 30, 1926.

GAGES.—River gage: Inclined staff on right bank 1½ miles below diversion dam.

Spillway-flume gage: Vertical staff on right side just above weir at lower end of rectangular flume 100 feet long from intake to chute to river.

Outlet tunnel gage: Vertical staff at 7-foot Cippoletti weir just below outlet tunnel in dam; used to measure small quantities of water released through dam. No water released through outlet tunnel of dam when water is passing through spillway flume.

DISCHARGE MEASUREMENTS.—Referred to river gage, made from cable at gage or by wading; to spillway-flume gage, from plank 20 feet upstream. Discharge through outlet tunnel computed from weir formula for 7-foot Cippoletti weir.

CHANNEL AND CONTROL.—At river gage, composed of rocks and gravel; fairly permanent. Spillway flume, built of lumber, is 6.7 feet wide; weir below gage is solid and practically permanent; channel straight 20 feet above and below gage. Control for gage below outlet tunnel in dam is a 7-foot Cippoletti weir.

EXTREMES OF DISCHARGE.—Maximum discharge recorded during year, 47 second-feet at time of discharge measurement May 28 (gage height on spillway-flume gage, 1.40 feet); minimum, 0.3 second-feet August 28, September 4, 11, and 18.

1905–1907, 1909–1926: Maximum stage recorded, 6.40 feet on river gage November 23, 1909 (discharge, 910 second-feet); minimum discharge, 0.3 second-foot August 30, September 2 and 6, 1919, and August 28, September 4, 11, and 18, 1926.

ICE.—Stage-discharge relation not affected by ice.

DIVERSIONS.—Silver Lake Irrigation District Canal diverts water past gages during the irrigation season.

REGULATION.—The diversion dam above gage impounds about 800 acre-feet; during 1925 it was filled, and it has not since been emptied. Water was stored in Thompson Valley Reservoir for Silver Lake Irrigation District for the first time in 1923.

Observed stage and contents of Thompson Valley Reservoir during year ending September 30, 1926

Date	Gage height	Contents	Date	Gage height	Contents
	Feet	*Acre-feet*		*Feet*	*Acre-feet*
Feb. 6	5,072.0	2,783	Apr. 30	5,070.5	2,015
Feb. 20	5,072.5	3,074	May 8	5,070.0	1,795
Mar. 22	5,072.6	3,134	May 30	5,064.0	880
Mar. 27	5,072.8	3,257	June 8	5,062.0	177
Apr. 1	5,072.8	3,257	June 30	5,060.0	89

ACCURACY.—Stage-discharge relation permanent for river gage and spillway-flume gage. Rating curve for river gage fairly well defined. Rating curve for spillway-flume gage fairly well defined. Staff gages read to hundredths once a day during part of April and less often at other times. Daily discharge ascertained by applying daily gage reading to rating table for days read, or estimated by interpolation when gage was read only once each week. Records good except those for periods covered by flat estimates of discharge, which are fair.

COOPERATION.—Record furnished by State engineer of Oregon.

The following discharge measurement, referred to spillway-flume gage, was made:

May 28, 1926: Gage height, 1.39 feet; discharge, 46.8 second-feet.

Daily discharge, in second-feet, of Silver Creek near Silver Lake, Oreg., for the year ending September 30, 1926

Day	Oct.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5		3	7			0.7		0.3
2	5						.7		.3
3	5	2		8	10				.3
4								0.6	.3
5				10		7			
6		2		10	10		.7		
7			3	12				.6	.3
8				12					
9				12		10			
10		3		12		10	.6		
11				13	9	10		.5	.3
12				14		10			
13		3	3	14					
14				14			.6	.4	
15				15					.3
16			3	15	8	8			
17	4						.6		
18							.6	.4	.3
19				15			.6		
20			3				.6		
21		3			9	7	.6	.4	.4
22				7			.6		
23				7			.6		
24			4	12			.5	.4	
25				12		4			.4
26				11	10				
27			5	11			.5		
28			5	11	8			.3	.4
29			5	11		2		.3	
30			5	11	7	2		.3	
31			5		7		.5	.3	

NOTE.—Braced figures show mean discharge for periods indicated; discharge estimated by interpolation.

Monthly discharge of Silver Creek near Silver Lake, Oreg., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October			4.1	252
November			[a] 3	179
December			[a] 2	123
January			[a] 2	123
February	3	2	2.8	156
March	5	3	3.5	215
April	15	7	11.7	696
May	10	7	9.0	553
June	10	2	6.6	393
July	.7	.5	.58	36
August	.6	.3	.45	28
September	.4	.3	.34	20
The year	15	.3	3.83	2,770

[a] Estimated.

WEST FORK OF SILVER CREEK NEAR SILVER LAKE, OREG.

LOCATION.—In NW. ¼ sec. 8, T. 29 S., R. 14 E., 1 mile above mouth of West Fork and 7 miles by road southwest of Silver Lake post office, Lake County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—Irrigation seasons 1919 to 1923, and March 11, 1925, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on left bank, half a mile above location used 1919 to 1921; inspected by G. W. Marvin.

DISCHARGE MEASUREMENTS.—Made by wading.

CHANNEL AND CONTROL.—Stream bed gravel and small boulders. Banks clean but of friable soil and may shift by undercutting.

EXTREMES OF DISCHARGE.—Maximum stage during year, from water-stage recorder, 0.62 foot April 17 (discharge, 11 second-feet); minimum discharge, 0.5 second-foot, estimated as monthly mean discharge during August and September.

1919–1923, 1925–1926: 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.

ICE.—Stage-discharge relation not affected by ice.

DIVERSIONS.—None.

REGULATION.—None.

ACCURACY.—Stage-discharge relation permanent. Rating curve fairly well defined. Water-stage recorder operated October 1 to December 15 and March 8 to June 28; staff gage read February 13, 20, 27, and March 6. Daily discharge ascertained by applying to rating table mean daily gage height obtained by inspection of recorder graph, except as stated in footnote to table of daily discharge. Records good except for periods of no gage-height records, for which they are fair.

COOPERATION.—Record furnished by State engineer of Oregon.

Discharge measurements of West Fork of Silver Creek near Silver Lake, Oreg., during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Oct. 5	0.26	2.1	May 29	0.28	2.3
Mar. 8	.33	2.4	July 21	.06	.75

Daily discharge, in second-feet, of West Fork of Silver Creek near Silver Lake, Oreg., for the year ending September 30, 1926

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

NOTE.—No gage-height record Dec. 16 to Feb. 12, 14–19, 21–26, 28, Mar. 1–5, 7, Apr. 16, June 6–11, 28–30. Discharge estimated by interpolation except Dec. 16 to Feb. 12, when mean discharge was estimated by comparison with record of flow of Silver Creek near Silver Lake. Braced figures show mean discharge for periods indicated.

Monthly discharge of West Fork of Silver Creek near Silver Lake, Oreg., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	2	1	2.0	123
November	4	1	2.2	131
December	4	-------	2.5	154
January	-------	-------	[a]1.0	61
February	-------	-------	2.4	133
March	6	2	3.6	221
April	10	5	6.8	405
May	4	2	3.1	191
June	2	.8	1.31	78
July	-------	-------	[a].8	49
August	-------	-------	[a].5	31
September	-------	-------	[a].5	30
The year	11	-------	2.21	1,610

[a] Estimated.

SILVER LAKE IRRIGATION DISTRICT CANAL NEAR SILVER LAKE, OREG.

LOCATION.—In NE. ¼ sec. 5, T. 29 S., R. 14 E., at diversion dam of Silver Lake Irrigation District, 2½ miles southwest of Silver Lake post office, Lake County.

RECORDS AVAILABLE.—March 30, 1923, to September 30, 1926.

GAGE.—Vertical staff on right side of timber flume 80 feet below head gate.

DISCHARGE MEASUREMENTS.—Made from plank across flume 30 feet upstream, just above a fish wheel.

CHANNEL AND CONTROL.—Rectangular timber flume 6.7 feet wide; channel control.

EXTREMES OF DISCHARGE.—Maximum discharge recorded during year, 40 second-feet, at time of making discharge measurement May 29 (gage height, 2.00 feet); canal dry frequently.

ACCURACY.—Stage-discharge relation changed during winter. Rating curve fairly well defined by 12 discharge measurements made during 1926 and 1927. Staff gage read to hundredths only at time change was made at head gate on May 6, 11, 19, 20, 24, 28, 29, 30, and June 9. Daily discharge ascertained by applying gage reading to rating table and by estimating flow as uniform during periods gage was not read and no change was made at head gate. Records fair.

COOPERATION.—Record furnished by State engineer of Oregon.

The following discharge measurements were made:

May 28, 1926: Gage height, 1.50 feet; discharge, 23.2 second-feet.

May 29, 1926: Gage height, 2.00 feet; discharge, 39.6 second-feet.

Daily discharge, in second-feet, of Silver Lake Irrigation District Canal near Silver Lake, Oreg., for the year ending September 30, 1926

Day	May	June	Day	May	June	Day	May	June
1		22	11	23		21	29	
2		22	12	23		22	29	
3		22	13	23		23	29	
4		22	14	23		24	26	
5		22	15	23		25	26	
6	5	22	16	23		26	26	
7	20	22	17	23		27	26	
8	20	22	18	23		28	23	
9	20	8	19	26		29	24	
10	20		20	29		30	22	
						31	22	

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

Monthly discharge of Silver Lake Irrigation District Canal near Silver Lake, Oreg., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
May	29	0	19.6	1,210
June	22	0	6.13	365
The year				1,580

NOTE.—Water turned into canal May 6 and turned out June 9.

MALHEUR AND HARNEY LAKES BASIN

SILVIES RIVER NEAR BURNS, OREG.

LOCATION.—In or near SE. ¼ sec. 25, T. 21 S., R. 29 E., 1 mile below dam site for proposed lower Silvies Reservoir and 15 miles northwest of Burns, Harney County.

DRAINAGE AREA.—940 square miles (measured on map prepared by United States Bureau of Reclamation).

RECORDS AVAILABLE.—May 10, 1903, to July 24, 1906; December 14, 1908, to September 30, 1926.

GAGE.—Stevens continuous water-stage recorder on left bank, used since April 17, 1922. Staff gage in sec. 7, T. 22 S., R. 10 E., at Parker ranch, used during winter.

DISCHARGE MEASUREMENTS.—Made from cable 1½ miles below recorder, by wading near gage, or from bridge at Parker ranch.

CHANNEL AND CONTROL.—Low-water control is gravel riffle 200 feet below gage; fairly permanent. In times of flood river overflows its banks near both gages.

EXTREMES OF DISCHARGE.—Maximum stage during year, from water-stage recorder, 8.45 feet at 10 a. m. February 8 (discharge, 678 second-feet; stage-discharge relation affected by ice); minimum, 0.87 foot at 7 p. m. August 29 (discharge, 1 second-foot).

1903–1906, 1909–1926: Maximum stage recorded, 17.12 feet on original datum April 15, 1904 (discharge, 4,730 second-feet); minimum discharge, 0.6 second-foot September 2, 1924.

ICE.—Stage-discharge relation at both gages affected by ice.

DIVERSIONS.—Large area on headwaters of Silvies River is irrigated with flood water.

REGULATION.—None at recorder; flow at lower station occasionally affected by operation of Sylvester Dam, half a mile above.

ACCURACY.—Stage-discharge relation affected by ice on control January 2 to February 8 and by drift June 9 to September 30. Rating curves well defined. Staff gage at Parker ranch read to hundredths January 2–31 and February 27 to March 4. Water-stage recorder operated satisfactorily before and after these periods except September 23–30. Daily discharge ascertained by applying mean daily gage height obtained by inspecting recorder graph or daily gage reading to rating table, except January 2 to February 8, when mean discharge was estimated from gage-height record, weather records, and discharge measurement, and June 9 to September 30, when shifting-control method was used. Records fair.

COOPERATION.—Record furnished by State engineer of Oregon.

Discharge measurements of Silvies River near Burns, Oreg., during the year ending September 30, 1926

Date	Gage height	Discharge	Date	Gage height	Discharge	Date	Gage height	Discharge
	Feet	*Sec.-ft.*		*Feet*	*Sec.-ft.*		*Feet*	*Sec.-ft.*
Feb. 1	1.90	30	Apr. 13	4.85	300	June 28	1.02	3.9
Do	[a].65	30	Do	[a]4.44	337			
Mar. 11	[a]2.29	157	May 13	[a]3.58	28			

[a] Referred to gage and discharge measurement made at Parker ranch.

Daily discharge, in second-feet, of Silvies River near Burns, Oreg., for the year ending September 30, 1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	25	36	36	31	247	218	62	24	2	2	4
2	16	26	37		35	255	214	62	22	2	2	4
3	16	26	39		36	239	209	63	20	2	1	4
4	16	26	40		49	247	214	64	19	2	1	4
5	17	26	40		335	190	236	64	18	2	2	4
6	17	27	40		295	137	245	63	18	1	2	4
7	19	30	39		508	137	236	78	16	2	2	4
8	22	31	44		638	137	275	78	15	2	2	4
9	24	31	42		508	142	305	77	14	6	1	4
10	24	31	41		376	146	315	76	12	5	1	4
11	24	31	38		335	146	305	68	11	5	1	4
12	24	31	37		275	137	315	67	11	3	1	4
13	24	31	38		245	142	295	59	10	3	1	4
14	24	31	44		204	182	295	57	10	3	1	4
15	24	31	41		182	255	275	54	9	3	1	4
16	24	31	38	30	155	335	265	50	8	3	1	5
17	24	31	38		128	376	245	48	8	2	1	5
18	24	32	37		112	376	227	45	8	2	2	5
19	24	32	37		108	325	227	45	8	1	2	5
20	25	32	37		96	295	218	41	8	1	3	5
21	25	34	37		96	275	204	36	8	1	3	6
22	25	34	37		89	255	191	35	8	2	2	6
23	25	34	37		90	265	168	29	7	3	2	
24	25	34	37		88	275	142	26	7	3	2	
25	25	34	38		92	265	128	25	6	3	1	
26	25	34	38		173	265	112	25	6	3	1	6
27	25	34	38		183	245	96	25	5	3	1	
28	25	34	38		231	227	92	25	4	3	1	
29	25	35	38		-------	209	76	25	3	3	1	
30	25	35	37		-------	204	65	28	3	2	1	
31	25	-------	37		-------	209	-------	28	-------	2	3	-------

Monthly discharge of Silvies River near Burns, Oreg., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	25	15	22.6	1,380
November	35	25	31.1	1,850
December	44	36	38.6	2,370
January	36	----------	*30.2	1,860
February	638	88	203	11,300
March	376	137	230	14,100
April	315	65	214	12,700
May	78	25	49.3	3,030
June	24	3	10.9	649
July	6	1	2.6	160
August	3	1	1.5	92
September	----------	4	4.8	286
The year	638	1	68.9	49,800

* Estimated.

ALVORD LAKE BASIN

TROUT CREEK NEAR DENIO, OREG.

LOCATION.—In SW. ¼ 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, Harney County.

DRAINAGE AREA.—Not measured.

RECORDS AVAILABLE.—March 25, 1911, to March 31, 1912; April 15, 1922, to November 4, 1923; April 3 to July 3, 1925; and April 30 to September 30, 1926.

GAGE.—Stevens 8-day water-stage recorder on right bank; inspected by Frank Henry.

DISCHARGE MEASUREMENTS.—Made by wading or from bridge.

CHANNEL AND CONTROL.—Control of fairly large gravel and boulders, shifting at high stages. Banks fairly high, covered with willows.

EXTREMES OF DISCHARGE.—Maximum stage during period April 30 to September 30, from water-stage recorder, 2.56 feet at 6 a. m. May 5 (discharge, 85 second-feet); minimum, 0.71 foot at 8 p. m. August 27 (discharge, 0.5 second-foot.)

1911–12, 1922–23, 1925–26: Maximum stage, from water-stage recorder, 3.07 feet May 19, 1922 (discharge, 149 second-feet); minimum discharge recorded, 0.3 second-foot July 18, 1922 (gage height, 0.72 foot).

DIVERSIONS.—A little water diverted for irrigating small ranch fields above station. Large area irrigated below mouth of canyon.

REGULATION.—None.

ACCURACY.—Stage-discharge relation permanent. Rating curve fairly well defined by six discharge measurements made in 1922, 1923, 1925, and 1927. Operation of water-stage recorder satisfactory April 30 to September 30. Daily discharge ascertained by applying to rating table mean daily gage height obtained by inspecting recorder graph. Records fair.

COOPERATION.—Record furnished by State engineer of Oregon.

No discharge measurements were made during the year.

Daily discharge, in second-feet, of Trout Creek near Denio, Oreg., for the year ending September 30, 1926

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	------	60	14	2	1	3	16	------	29	3	1	1	3
2	------	56	12	2	1	5	17	------	30	2	1	1	3
3	------	54	11	2	1	5	18	------	28	2	1	1	3
4	------	57	11	1	1	5	19	------	27	2	1	1	3
5	------	68	10	1	1	4	20	------	26	2	1	2	2
6	------	51	9	1	1	4	21	------	23	2	1	2	2
7	------	45	8	1	1	4	22	------	21	3	1	2	2
8	------	41	7	1	1	3	23	------	18	3	1	1	2
9	------	36	6	1	1	3	24	------	17	3	1	1	2
10	------	32	6	1	1	2	25	------	17	3	1	1	2
11	------	30	5	1	1	2	26	------	16	3	1	1	2
12	------	29	4	1	1	2	27	------	15	2	1	1	2
13	------	29	3	1	1	2	28	------	15	2	1	1	2
14	------	30	3	1	1	2	29	------	15	2	1	1	2
15	------	28	3	1	1	2	30	64	16	2	1	1	2
							31	------	14	------	1	1	------

Monthly discharge of Trout Creek near Denio, Oreg., for the year ending September 30, 1926

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
May	68	15	31.4	1,930
June	14	2	5.0	298
July	2	1	1.1	68
August	2	1	1.1	68
September	5	2	2.7	161
The period	----------	----------	----------	2,520

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, 1926, are listed in the following table:

Miscellaneous discharge measurements in the Great Basin during the year ending September 30, 1926

Bear River Basin

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
Sept. 30	Bear Lake outlet canal.	Bear Lake	Sec. 6, T. 13 S., R. 44 E., 1,000 feet below Montpelier-Ovid road, 3 miles west of Montpelier, Idaho.		430
Oct. 1	West Cache Canal	Bear River	SW. ¼ NW. ¼ sec. 17, T. 16 S., R. 39 E., 100 feet above Weston-Fairview road and 2 miles east of Weston, Idaho.	9.63	70.1
June 17	Tule Lakes outlet	Soda Creek	S. ½ sec. 27 and N. ½ sec. 34, T. 7 S., R. 42 E., at J. Staat ranch, 11 miles northeast of Soda Springs, Idaho.		12.8
17	Formation Springs		SE. ¼ sec. 28, T. 8 S., R. 42 E., at Russell Panning Ranch, 5½ miles northeast of Soda Springs, Idaho.		25.1
May 19	South Fork of Little Bear River.	Little Bear River	SE. ¼ sec. 15, T. 9 N., R. 1 E., 1 mile above confluence with East Fork and 1¼ miles south of Avon, Utah.		114
19	East Fork of Little Bear River.	do	SE. ¼ sec. 11, T. 9 N., R. 1 E., above diversion of Paradise Canal, 1 mile above confluence with South Fork, and three-fourths mile east of Avon, Utah.		56.4
Sept. 7	Logan, Hyde Park & Smithfield Canal.	Logan River	NW. ¼ NE. ¼ sec. 31, T. 12 N., R. 2 E., at former gaging station, 1 mile below head of canal and 3½ miles east of Logan, Utah.	1.05	30.8

Weber River Basin

June 8	North Fork of Ogden River.	Ogden River	SE. ¼ sec. 10, T. 6 N., R. 1 E., at highway bridge 1,500 feet above confluence with Middle Fork and 2½ miles northwest of Huntsville, Utah.		5.9
22	do	do	do	0.75	8.1
Aug. 9	do	do	do	.71	5.7
Oct. 23	do	do	SE. ¼ SE. ¼ sec. 10, T. 6 N., R. 1 E., 500 feet above confluence with Middle Fork, 1,000 feet below highway bridge, and 2½ miles northwest of Huntsville, Utah.	.74	8.2
Mar. 7	do	do	do	.82	15.3
24	do	do	do	1.68	124

Jordan River Basin

July 1	American Fork Creek.	Utah Lake	NE. ¼ sec. 26, T. 4 S., R. 2 E., at Utah Power & Light Co.'s gaging station 1,000 feet above intake at upper plant and 10 miles east of American Forks, Utah.	3.64	66.8
9	Utah Power & Light Co.'s tailrace.	Cottonwood Creek	NE. ¼ sec. 25, T. 2 S., R. 1 E., at Utah Power & Light Co.'s gaging station at lower power plant, 12 miles southeast of Salt Lake City, Utah.	1.32	58.4

Miscellaneous discharge measurements in the Great Basin during the year ending September 30, 1926—Continued

Sevier Lake Basin

Date	Stream	Tributary to or diverting from—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
Sept. 1	Duck Creek		Sec. 12, T. 38 S., R. 8 W., just below Duck Creek Springs, 22 miles southwest of Hatch, Utah.		16.0
May 3	Clear Creek	Sevier River	SE. ¼ sec. 32, T. 25 S., R. 4 W., at former gaging station, 100 yards above confluence with Sevier River, at Sevier, Utah.	2.06	107

Stream in Pavant Valley

May 8	Chalk Creek		Sec. 20, T. 21 S., R. 4 W., at flour mill ¼ mile east of Fillmore, Utah.	1.01	71.4

Escalante Desert Basin

June 12	Center Creek	Little Salt Lake	SE. ¼ sec. 36, T. 34 S., R. 9 W., 50 feet above mouth of East Fork and power canal intake 3 miles south of Parawan, Utah.		21.1
12	East Fork of Center Creek.	Center Creek	SE. ¼ sec. 36, T. 34 S., R. 9 W., 200 feet above confluence with Center Creek and power canal intake and 3 miles south of Parawan, Utah.		3.6
13	Coal Creek		SE. ¼ sec. 17, T. 36 S., R. 10 W., 3½ miles east of Cedar City, Utah.		43.3
Dec. 12	Pinto Creek		E. ½ sec. 21, T. 36 S., R. 15 W., at old Newcastle Reclamation Co.'s heading 1¼ miles southeast of Newcastle, Utah.		4.3

Antelope Valley Basin

Oct. 7	Rock Creek	Antelope Valley drainage basin.	Just above junction with Pallett Creek, near Valyermo, Calif.		2.0
28	do	do	do		1.9
Dec. 3	do	do	do		2.1
Jan. 9	do	do	do		2.1
Feb. 22	do	do	do		5
Mar. 23	do	do	do		4.2
31	do	do	do		1.5
Apr. 16	do	do	do		44
22	do	do	do		56
May 1	do	do	do		63
12	do	do	do		46
25	do	do	do		1.3
Apr. 16	Punch Bowl Creek	Rock Creek	At mouth, one-eighth mile below gaging station on Rock Creek near Valyermo, Calif.		6.2

Mohave River Basin

May 20	Deep Creek	Mohave River	Half a mile above mouth, near Hesperia, Calif.	1.82	38
20	Appleton Land & Water Co.'s canal.	Diverts from Deep Creek.	Intake near Hesperia, Calif.		7.0
20	do	do	Three-fourths mile below intake, near Hesperia, Calif.		6.4

Humboldt-Carson Sink Basin

Mar. 19	Rock Creek	Humboldt River	NE. ¼ sec. 17, T. 34 N., R. 48 E., at regular gaging station, at mouth of canyon, ½ mile above old highway bridge and 25 miles northeast of Battle Mountain, Nev.	1.76	55.7

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