

PLEASE DO NOT DESTROY OR THROW AWAY THIS PUBLICATION. If you have no further use for it, write to the Geological Survey at Washington and ask for a frank to return it

UNITED STATES DEPARTMENT OF THE INTERIOR

SURFACE WATER SUPPLY
of the **UNITED STATES**
1934

PART 10
THE GREAT BASIN

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

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 765

UNITED STATES DEPARTMENT OF THE INTERIOR
HAROLD L. ICKES, Secretary
GEOLOGICAL SURVEY
W. C. MENDENHALL, Director

Water-Supply Paper 765

SURFACE WATER SUPPLY *of the* UNITED STATES 1934

PART 10
THE GREAT BASIN

NATHAN C. GROVER, Chief Hydraulic Engineer
G. H. CANFIELD, ROBERT FOLLANSBEE, H. D. McGLASHAN
THOMAS R. NEWELL, and A. B. PURTON
District Engineers

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



Water Resources Branch,
Geological Survey,
Box 3106, Capitol Station
Washington, D. C.

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1935

CONTENTS

| | Page |
|---|------|
| Authorization and scope of work..... | 1 |
| Definition of terms..... | 2 |
| Explanation of data..... | 2 |
| Accuracy of field data and computed results..... | 5 |
| Publications..... | 6 |
| Cooperation..... | 10 |
| Division of work..... | 10 |
| Gaging-station records..... | 11 |
| Great Salt Lake Basin..... | 11 |
| Gages on Great Salt Lake..... | 11 |
| Bear River Basin..... | 12 |
| Bear River near Evanston, Wyo..... | 12 |
| Bear River at Harer, Idaho..... | 13 |
| Bear River at Alexander, Idaho..... | 14 |
| Bear River near Weston, Idaho..... | 15 |
| Bear River near Collinston, Utah..... | 16 |
| Logan River above State dam near Logan, Utah..... | 17 |
| Utah Power & Light Co.'s tailrace near Logan, Utah..... | 18 |
| Logan, Hyde Park & Smithfield Canal near Logan, Utah..... | 19 |
| Blacksmith Fork at municipal power plant near Hyrum, Utah..... | 20 |
| Blacksmith Fork above Utah Power & Light Co.'s dam near Hyrum, Utah..... | 21 |
| West Side Canal near Collinston, Utah..... | 22 |
| Hammond (East Side) Canal near Collinston, Utah..... | 23 |
| Devil Creek near Malad, Idaho..... | 24 |
| Deep Creek below First Creek, near Malad, Idaho..... | 25 |
| Weber River Basin..... | 26 |
| Weber River near Oakley, Utah..... | 26 |
| Weber River near Coalville, Utah..... | 27 |
| Echo Reservoir at Echo, Utah..... | 28 |
| Weber River at Echo, Utah..... | 29 |
| Weber River at Devils Slide, Utah..... | 30 |
| Weber River at Gateway, Utah..... | 31 |
| Weber River near Plain City, Utah..... | 32 |
| Chalk Creek at Coalville, Utah..... | 33 |
| South Fork of Ogden River near Huntsville, Utah..... | 34 |
| Ogden River near Ogden, Utah..... | 35 |
| Jordan River Basin..... | 37 |
| Jordan River near Lehi, Utah..... | 37 |
| Salt Creek near Nephi, Utah..... | 38 |
| Provo River at Forks, Utah..... | 39 |
| Provo River at Provo, Utah..... | 40 |
| Weber-Provo diversion canal near Woodland, Utah..... | 41 |
| South Fork of Provo River at Forks, Utah..... | 42 |

| Gaging-station records—Continued. | Page |
|--|------|
| Sevier Lake Basin..... | 43 |
| Sevier River near Kingston, Utah..... | 43 |
| Piute Reservoir near Marysville, Utah..... | 44 |
| Sevier River below Piute Dam, near Marysville, Utah..... | 45 |
| Sevier River near Vermilion, Utah..... | 46 |
| Sevier River below San Pitch River, near Gunnison, Utah..... | 47 |
| Sevier Bridge Reservoir near Juab, Utah..... | 48 |
| Sevier River near Juab, Utah..... | 49 |
| East Fork of Sevier River near Kingston, Utah..... | 50 |
| Rockyford Canal near Vermilion, Utah..... | 51 |
| Beaver River Basin..... | 52 |
| Beaver River near Beaver, Utah..... | 52 |
| Beaver River at Adamsville, Utah..... | 53 |
| Beaver River at Rockyford Dam, near Minersville, Utah..... | 54 |
| Salton Sea Basin..... | 55 |
| Salton Sea, Calif..... | 55 |
| Southern Pacific Co.'s ditch near Whitewater, Calif..... | 55 |
| Palm Canyon Creek near Palm Springs, Calif..... | 56 |
| Mojave River Basin..... | 57 |
| Deep Creek near Hesperia, Calif..... | 57 |
| Mojave River at Victorville, Calif..... | 58 |
| Mojave River at Barstow, Calif..... | 59 |
| West Fork of Mojave River near Hesperia, Calif..... | 59 |
| Antelope Valley Basin..... | 60 |
| Rock Creek near Valyermo, Calif..... | 60 |
| Little Rock Creek near Little Rock, Calif..... | 61 |
| Owens Lake Basin..... | 62 |
| Owens River near Round Valley, Calif..... | 62 |
| Owens River at Pleasant Valley, near Bishop, Calif..... | 63 |
| Owens River near Big Pine, Calif..... | 64 |
| Rock Creek at Sherwin Hill, near Bishop, Calif..... | 65 |
| Rock Creek near Round Valley, Calif..... | 66 |
| Pine Creek at division box near Bishop, Calif..... | 67 |
| Pine Creek near Round Valley, Calif..... | 68 |
| Mono Lake Basin..... | 69 |
| Mono Lake near Mono Lake, Calif..... | 69 |
| Walker Lake Basin..... | 71 |
| Walker Lake near Hawthorne, Nev..... | 71 |
| Bridgeport Reservoir near Bridgeport, Calif..... | 72 |
| East Walker River near Bridgeport, Calif..... | 73 |
| Walker River near Wabuska, Nev..... | 74 |
| West Walker River near Coleville, Calif..... | 75 |
| Topaz Reservoir near Topaz, Calif..... | 76 |
| Humboldt-Carson Sink Basin..... | 77 |
| Carson River Basin..... | 77 |
| Carson River near Fort Churchill, Nev..... | 77 |
| Humboldt River Basin..... | 78 |
| Humboldt River at Palisade, Nev..... | 78 |
| Martin Creek near Paradise Valley, Nev..... | 79 |
| Cottonwood Creek near Paradise Valley, Nev..... | 80 |
| Pyramid and Winnemucca Lakes Basin..... | 81 |
| Pyramid Lake near Nixon, Nev..... | 81 |
| Lake Tahoe at Tahoe, Calif..... | 81 |

Gaging-station records—Continued

| | |
|---|------|
| Pyramid and Winnemucca Lakes Basin—Continued. | Page |
| Truckee River at Tahoe, Calif..... | 82 |
| Truckee River at Iceland, Calif..... | 83 |
| Donner Creek near Truckee, Calif..... | 84 |
| Warner Lakes Basin..... | 85 |
| Deep Creek above Adel, Oreg..... | 85 |
| Abert Lake Basin..... | 86 |
| Chewaucan River above Conn Ditch, near Paisley, Oreg..... | 86 |
| Silver Lake Basin..... | 87 |
| Silver Creek near Silver Lake, Oreg..... | 87 |
| Silver Lake Irrigation District Canal near Silver Lake, Oreg..... | 88 |
| Malheur and Harney Lakes Basin..... | 89 |
| Silvies River near Burns, Oreg..... | 89 |
| Alvord Lake Basin..... | 90 |
| Trout Creek near Denio, Oreg..... | 90 |
| Miscellaneous discharge measurements..... | 91 |
| Index..... | 93 |

ILLUSTRATION

| | |
|---|------|
| FIGURE 1. Typical river-measurement station showing concrete well and house for water-stage recorder and staff gages, cable, and car..... | Page |
| | 4 |

SURFACE WATER SUPPLY OF THE GREAT BASIN 1934

AUTHORIZATION AND SCOPE OF WORK

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

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

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

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

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

Annual appropriations for the fiscal year ending June 30, 1895 to 1935

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

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

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

¹ Only \$340,000 available for expenditure.

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

DEFINITION OF TERMS

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

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

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

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

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

The following terms not in common use are here defined:

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

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

EXPLANATION OF DATA

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

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

The base data collected at gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the gage heights and discharge measurements in determining the daily flow. The records of stage are obtained either from direct readings on a nonrecording gage or from a water-stage recorder that gives a continuous record of the fluctuations. Measurements of discharge are made with a current meter by the general methods outlined in standard textbooks on the measurement of river discharge. A typical gaging station, equipped with water-stage recorder and measuring cable and car, is shown in figure 1.

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

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

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

The table of daily discharge gives, for stations equipped with non-recording gages, the discharge in second-feet corresponding to once-daily or the mean of twice-daily readings of the gage. For stations equipped with water-stage recorders the table gives the discharge corresponding to the mean daily gage height except for stations on streams subject to sudden or rapid fluctuation. For stations subject to such

fluctuation the mean daily gage height may not indicate the true mean daily discharge, which must be obtained by averaging the discharge for intervals of the day or by using the discharge integrator, an instrument for obtaining the mean daily discharge from a continuous gage-height graph and containing as an essential element the rating curve of the station.

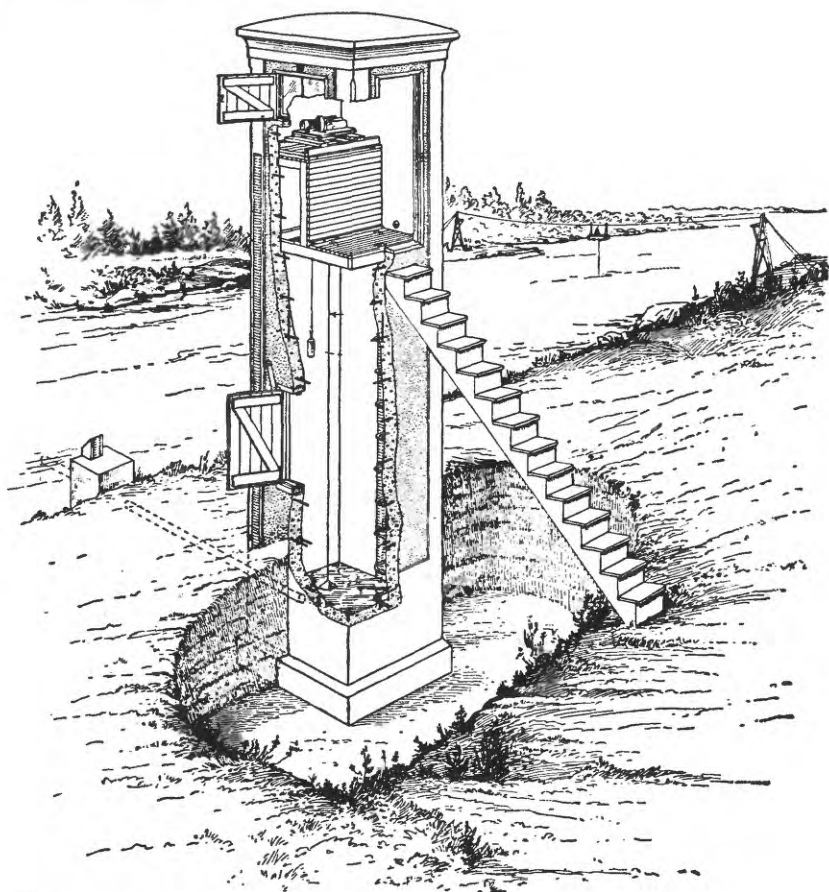


FIGURE 1.—Typical river-measurement station showing concrete well and house for water-stage recorder and staff gages, cable, and car.

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

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

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

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

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

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

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

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

PUBLICATIONS

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

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

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

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

1. Copies may be purchased at nominal cost from the Superintendent of Documents, Government Printing Office, Washington, D. C., who will, on application, furnish lists giving prices.
2. Sets of the reports may be consulted in the libraries of the principal cities of the United States.
3. Complete sets are available for consultation in the local offices of the water-resources branch of the Geological Survey as follows:

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

Asheville, N. C., 220 Post Office Building.
 Columbia, S. C., 801 National Loan & Exchange Bank Building.
 Ocala, Fla., Post Office Building.
 Montgomery, Ala., Post Office Building.
 Chattanooga, Tenn., 217 Post Office Building.
 Columbus, Ohio, Engineering Experiment Station, Ohio State University.
 Indianapolis, Ind., 319 Federal Building.
 Urbana, Ill., 302 University New Agricultural Building.
 Madison, Wis., 337N State Capitol.
 St. Paul, Minn., 808 New Post Office Building.
 Iowa City, Iowa, 402 Hydraulic Laboratory, University of Iowa.
 St. Louis, Mo., Customhouse, Eighth and Olive Streets.
 Rolla, Mo., Missouri Geological Survey Building, Missouri School of
 Mines and Metallurgy.
 Topeka, Kans., 305 Federal Building.
 Fort Smith, Ark., Post Office Building.
 Austin, Tex., State Highway Building.
 Santa Fe, N. Mex., State Capitol.
 Tucson, Ariz., 210 Post Office Building.
 Denver, Colo., 403 Post Office Building.
 Salt Lake City, Utah, 303 Federal Building.
 Idaho Falls, Idaho, 228 Federal Building.
 Boise, Idaho, 429 Federal Building.
 Helena, Mont., 421 Federal Building.
 Tacoma, Wash., 406 Federal Building.
 Portland, Oreg., 606 Post Office Building.
 San Francisco, Calif., 303 Customhouse.
 Los Angeles, Calif., 510 Eighth and Figueroa Building.
 Honolulu, Hawaii, 225 Federal Building.

A list of the Geological Survey 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 6,900 points in the United States, and the data obtained have been published in the reports tabulated as follows:

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

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

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

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

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

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

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

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

Numbers of water-supply papers containing results of stream measurements, 1889-1934

[For basins included, see p. 61]

| Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12-A | 12-B | 12-C |
|-------------------|---------------------|---------|----------|--------|--------|-------------|--------|--------|-------------|----------------------|----------------------|--------|--------|--------|
| 1889 ¹ | 35 | 235, 36 | 36 | 36 | 36 | 336, 37 | 37 | 37 | 437, 38 | 38 ² , 39 | 38 ² , 39 | 38 | 38 | 38 |
| 1900 ¹ | 47, 8 48 | 48 | 48, 9 49 | 49 | 49 | 49, 10 50 | 51 | 50 | 50 | 51 | 51 | 51 | 51 | 51 |
| 1901 ¹ | 65, 75 | 65, 75 | 65, 75 | 65, 75 | 65, 75 | 66, 75 | 66, 75 | 66, 75 | 66, 75 | 66, 75 | 66, 75 | 66, 75 | 66, 75 | 66, 75 |
| 1902 ¹ | 82, 83 | 82, 83 | 82, 83 | 82, 83 | 82, 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| 1903 ¹ | 97 | 297, 98 | 98 | 98 | 98 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |
| 1904 ¹ | 14124, 15125, 16126 | 128 | 128 | 129 | 129 | 130, 17 131 | 131 | 132 | 133 | 133 | 134 | 135 | 135 | 135 |
| 1905 ¹ | 14165, 15166, 16167 | 169 | 169 | 170 | 170 | 172 | 172 | 174 | 175, 19 177 | 176, 18 177 | 177 | 178 | 178 | 178 |
| 1906 ¹ | 1201, 1202, 1203 | 205 | 205 | 206 | 206 | 208 | 208 | 210 | 211, 19 213 | 212, 18 213 | 213 | 214 | 214 | 214 |
| 1907 ¹ | 241 | 242 | 243 | 244 | 244 | 245 | 245 | 248 | 249 | 250, 18 251 | 251 | 252 | 252 | 252 |
| 1908 ¹ | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270, 19 271 | 271 | 272 | 272 | 272 |
| 1909 ¹ | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 292 | 292 |
| 1910 ¹ | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 312 | 312 |
| 1911 ¹ | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332-A | 332-B | 332-C |
| 1912 ¹ | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342-A | 342-B | 342-C |
| 1913 ¹ | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362-A | 362-B | 362-C |
| 1914 ¹ | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 |
| 1915 ¹ | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 |
| 1916 ¹ | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 |
| 1917 ¹ | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 |
| 1918 ¹ | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 |
| 1919-20 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 |
| 1921 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 |
| 1922 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 |
| 1923 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 |
| 1924 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 |
| 1925 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 |
| 1926 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 |
| 1927 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 |
| 1928 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 |
| 1929 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 |
| 1930 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 |
| 1931 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 |
| 1932 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 |
| 1933 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 |
| 1934 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 |

¹ Rating tables and index to Water-Supply Papers 35-39 contained in Water-Supply Paper 39. Tables for monthly discharge for 1890 in 21st Annual Report, part 4.

² Tributaries of Mississippi River from east.

³ Lake Ontario and tributaries to St. Lawrence River proper.

⁴ Hudson Bay only.

⁵ New England rivers only.

⁶ Hudson River to Delaware River, inclusive.

⁷ Susquehanna River to Yadkin River, inclusive.

⁸ Plateau and Kansas Rivers.

⁹ The Great Basin in California, except Truckee and Carson River Basins.

¹⁰ Below junction with Gila River.

¹¹ Rogue, Umpqua, and Siletz Rivers only.

¹² Below junction with Gila River.

¹³ Rogue, Umpqua, and Siletz Rivers only.

¹⁴ Below junction with Gila River.

¹⁵ Rogue, Umpqua, and Siletz Rivers only.

¹⁶ Below junction with Gila River.

¹⁷ Rogue, Umpqua, and Siletz Rivers only.

¹⁸ Below junction with Gila River.

¹⁹ Rogue, Umpqua, and Siletz Rivers only.

²⁰ Below junction with Gila River.

COOPERATION

The work was done under cooperative agreements with the several States as follows: In California with the State department of public works, Earl Lee Kelly, director, and Edward Hyatt, State engineer, and with Los Angeles County; in Idaho with the commissioner of reclamation, R. W. Faris; in Nevada with the office of the State engineer, George W. Malone; in Oregon with the office of the State engineer, Charles E. Stricklin; in Utah with the office of the State engineer, T. H. Humpherys, and with the city of Ogden; and in Wyoming with the office of the State engineer, E. W. Burritt.

Assistance in collecting records was rendered by the following organizations and corporations: In California by the Walker River Irrigation District; in Utah by Utah Power & Light Co., Logan, Hyde Park & Smithfield Canal Co., city of Hyrum, Weber River Water Users, and Provo River Water Users.

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

DIVISION OF WORK

The data for the stations in the several States were collected and prepared for publication under supervision of district engineers as follows: In California (except in Walker Lake Basin), H. D. McGlashan; in Idaho (except those on Bear River), Thomas R. Newell; in Oregon, G. H. Canfield, the work being done in collaboration with Charles E. Stricklin, State engineer; in Utah, Nevada, and stations on Bear River in Idaho and in Walker Lake Basin in California, A. B. Purton; in Wyoming, Robert Follansbee.

GREAT SALT LAKE BASIN

Gages on Great Salt Lake

Location.- Staff gages 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. Zero of Saltair gage is 4,196.8 feet above mean sea level; zero of Midlake gage is 4,198.0 feet above mean sea level.

Records available.- September 1875 to December 1899, March to July 1904, October 1912 to September 1934.

Extremes.- Maximum elevation during year, 4,197.25 feet Mar. 15 at Midlake gage; minimum, 4,195.0 feet Sept. 15 at both gages.
1850-1934: Maximum elevation, 4,211.3 feet July 12, 1877; estimated maximum, 4,212.5 feet in 1868 (data furnished by Marcus E. Jones, Salt Lake City); minimum, that of Sept. 15, 1934.

Remarks.- Apparent inconsistencies in readings are probably due largely to the effect of wind, as the two gages are about 40 miles apart. Readings on Midlake gage are furnished by the Southern Pacific Railroad Co.

Gage height, in feet, of Great Salt Lake, Utah, 1933-34

| Day | Saltair | Midlake |
|----------|---------|---------|
| Oct. 1 | 0.15 | -1.0 |
| Oct. 15 | .05 | -1.1 |
| Nov. 1 | .1 | -1.2 |
| Nov. 15 | .15 | -1.25 |
| Dec. 1 | .15 | -1.25 |
| Dec. 15 | .15 | -1.25 |
| Jan. 1 | .1 | -1.15 |
| Jan. 15 | .05 | -1.0 |
| Feb. 1 | .15 | -.95 |
| Feb. 15 | .25 | -.9 |
| Mar. 1 | .3 | -.85 |
| Mar. 15 | .4 | -.75 |
| Apr. 1 | .3 | -.85 |
| Apr. 15 | .2 | -.85 |
| May 1 | .2 | -1.0 |
| May 15 | .1 | -1.1 |
| June 1 | .3 | -1.4 |
| June 15 | .45 | -1.6 |
| July 1 | .65 | -1.75 |
| July 15 | .85 | -2.0 |
| Aug. 1 | 1.05 | -2.15 |
| Aug. 15 | 1.2 | -2.4 |
| Sept. 1 | 1.55 | -2.65 |
| Sept. 15 | 1.8 | -3.0 |

Bear River near Evanston, Wyo.

Location.- Water-stage recorder in sec. 1, T. 15 N., R. 121 W., 300 feet above highway bridge and $3\frac{1}{2}$ miles northwest of Evanston.

Drainage area.- 645 square miles.

Records available.- October 1913 to September 1934.

Average discharge.- 21 years, 248 second-feet.

Extremes.- Maximum discharge during year, 540 second-feet May 8 (gage height, 2.94 feet); no flow June 28 to Aug. 4, Aug. 20 to Sept. 29.
1913-34: Maximum discharge, 3,690 second-feet June 14, 1921 (gage height, 6.35 feet); no flow during periods in 1924, 1931, 1933, 1934.

Remarks.- Records good except those for period of ice effect, Dec. 2 to Mar. 3, which were estimated on the basis of two discharge measurements and temperature records. Discharge also estimated Oct. 18-21, 23-28, Oct. 30 to Nov. 1, Nov. 22-28, Mar. 12-13, and Aug. 5. Some diversions for irrigation above station.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|------|------|------|------|------|------|------|-----|------|------|------|-------|
| 1 | 0 | 8 | 16 | | | 76 | 97 | 144 | 6.3 | | 0 | 0 |
| 2 | 1.2 | 8.4 | | | | 80 | 84 | 112 | 5.8 | | 0 | 0 |
| 3 | 4.6 | 9 | | | | 72 | 84 | 98 | 5.8 | | 0 | 0 |
| 4 | 2.6 | 10 | | | | 74 | 66 | 84 | 5.4 | | 0 | 0 |
| 5 | 1.2 | 11 | | | | 83 | 70 | 242 | 5.4 | | 16 | 0 |
| 6 | .2 | 6.3 | | | | 66 | 93 | 330 | 5.4 | | 170 | 0 |
| 7 | 0 | 5.4 | | | | 72 | 124 | 426 | 5.8 | | 4.0 | 0 |
| 8 | 0 | 5.2 | | | | 66 | 112 | 444 | 6.6 | | 3.0 | 0 |
| 9 | 2.0 | 6.3 | | | | 66 | 108 | 360 | 7.8 | | 2.0 | 0 |
| 10 | 5.2 | 9.3 | | | | 74 | 112 | 245 | 8.4 | | 3.0 | 0 |
| 11 | 4.8 | 11 | | | | 63 | 122 | 230 | 8.7 | | 1.4 | 0 |
| 12 | 4.4 | 12 | | | | 90 | 144 | 251 | 8.4 | | 0 | 0 |
| 13 | 5.2 | 12 | | | | 98 | 170 | 248 | 7.5 | | 0 | 0 |
| 14 | 5.6 | 11 | | | | 106 | 178 | 210 | 6.6 | | 0 | 0 |
| 15 | 6.0 | 12 | | *25 | *69 | 135 | 180 | 207 | 5.4 | | 0 | 0 |
| 16 | 6.2 | 12 | | | | 159 | 180 | 297 | 4.8 | | 0 | 0 |
| 17 | 6.4 | 12 | | | | 122 | 161 | 308 | 4.0 | | 0 | 0 |
| 18 | 6.4 | 12 | | | | 93 | 141 | 286 | 3.2 | | 0 | 0 |
| 19 | 6.6 | 12 | | | | 97 | 157 | 257 | 2.6 | | 0 | 0 |
| 20 | 6.6 | 11 | | | | 120 | 216 | 233 | 2.0 | | 0 | 0 |
| 21 | 6.6 | 10 | | | | 116 | 239 | 216 | 1.8 | | 0 | 0 |
| 22 | 6.9 | 10 | | | | 108 | 254 | 193 | 1.4 | | 0 | 0 |
| 23 | 6.8 | 12 | | | | 102 | 233 | 163 | .8 | | 0 | 0 |
| 24 | 6.8 | 12 | | | | 68 | 286 | 114 | .2 | | 0 | 0 |
| 25 | 6.7 | 13 | | | | 81 | 368 | 41 | 0 | | 0 | 0 |
| 26 | 6.7 | 13 | | | | 79 | 380 | 16 | 0 | | 0 | 0 |
| 27 | 6.6 | 14 | | | | 75 | 311 | 11 | 0 | | 0 | 0 |
| 28 | 6.6 | 12 | | | | 74 | 273 | 9.3 | 0 | | 0 | 0 |
| 29 | 6.6 | 12 | | | | 75 | 242 | 8.1 | 0 | | 0 | 0 |
| 30 | 7.0 | 12 | | | | 92 | 224 | 6.9 | 0 | | 0 | 6.6 |
| 31 | 7.4 | | | | | 92 | | 6.3 | | | 0 | |

| Month | Maximum | Minimum | Mean | Run-off in acre-feet |
|-----------|---------|---------|------|----------------------|
| October | 7.4 | 0 | 4.84 | 296 |
| November | 14 | 5.2 | 10.5 | 627 |
| December | | | 35 | 2,150 |
| January | | | 25 | 1,540 |
| February | | | 65 | 2,610 |
| March | 159 | 66 | 91.4 | 5,620 |
| April | 380 | 66 | 180 | 10,730 |
| May | 444 | 6.3 | 188 | 11,560 |
| June | 8.7 | 0 | 4.00 | 238 |
| July | 0 | 0 | 0 | 0 |
| August | 170 | 0 | 6.50 | 399 |
| September | 6.6 | 0 | .22 | 13 |
| The year | 444 | 0 | 50.8 | 36,760 |

*Discharge measurement.

Note.- No flow during July.

Bear River at Harer, Idaho

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

Drainage area.- 2,780 square miles.

Records available.- June 1913 to September 1916, January 1919 to September 1934.

Average discharge.- 18 years, 560 second-feet.

Extremes.- Maximum discharge during year occurred during winter, not recorded; minimum mean daily discharge, 26 second-feet Aug. 21-27, 1913-16, 1919-34; Maximum discharge, 3,860 second-feet June 2, 1920 (gage height, 10.51 feet); minimum, that of Aug. 21-27, 1934.

Remarks.- Records good except those for Nov. 27 to Mar. 1, which were estimated. Numerous diversions for irrigation above station. Records collected by Utah Power & Light Co., under general supervision of Geological Survey in connection with a Federal Power Commission project.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 166 | 178 | 120 | 150 | 160 | 180 | 138 | 54 | 50 | 41 | 40 | 42 |
| 2 | 166 | 168 | 120 | 150 | 160 | 186 | 145 | 52 | 49 | 40 | 39 | 41 |
| 3 | 166 | 168 | 120 | 150 | 160 | 186 | 138 | 52 | 50 | 38 | 38 | 41 |
| 4 | 162 | 170 | 120 | 150 | 170 | 192 | 131 | 52 | 49 | 38 | 37 | 40 |
| 5 | 162 | 170 | 125 | 150 | 180 | 192 | 128 | 51 | 48 | 38 | 38 | 39 |
| 6 | 162 | 166 | 125 | 140 | 190 | 199 | 126 | 50 | 48 | 37 | 39 | 39 |
| 7 | 162 | 168 | 125 | 130 | 190 | 208 | 114 | 49 | 49 | 37 | 40 | 39 |
| 8 | 162 | 166 | 130 | 130 | 190 | 202 | 110 | 46 | 50 | 37 | 40 | 42 |
| 9 | 162 | 162 | 135 | 130 | 190 | 197 | 114 | 44 | 51 | 36 | 40 | 44 |
| 10 | 162 | 166 | 140 | 130 | 190 | 197 | 112 | 42 | 51 | 36 | 39 | 44 |
| 11 | 162 | 166 | 140 | 130 | 190 | 199 | 106 | 42 | 51 | 37 | 39 | 44 |
| 12 | 162 | 166 | 145 | 130 | 180 | 199 | 108 | 42 | 52 | 37 | 41 | 46 |
| 13 | 162 | 168 | 150 | 140 | 180 | 202 | 110 | 40 | 52 | 37 | 40 | 52 |
| 14 | 162 | 166 | 150 | 140 | 170 | 205 | 114 | 39 | 51 | 36 | 39 | 52 |
| 15 | 162 | 164 | 150 | 150 | 170 | 205 | 116 | 39 | 51 | 33 | 37 | 50 |
| 16 | 162 | 162 | 140 | 150 | 180 | 202 | 114 | 40 | 51 | 29 | 37 | 51 |
| 17 | 162 | 162 | 130 | 150 | 190 | 202 | 110 | 41 | 51 | 38 | 37 | 50 |
| 18 | 162 | 162 | 130 | 150 | 200 | 199 | 106 | 41 | 51 | 41 | 36 | 49 |
| 19 | 173 | 162 | 130 | 150 | 210 | 189 | 99 | 44 | 50 | 40 | 34 | 49 |
| 20 | 178 | 166 | 130 | 150 | 210 | 186 | 92 | 45 | 48 | 39 | 30 | 50 |
| 21 | 178 | 166 | 135 | 150 | 210 | 184 | 80 | 43 | 46 | 40 | 26 | 50 |
| 22 | 173 | 168 | 135 | 150 | 210 | 176 | 76 | 42 | 44 | 41 | 26 | 54 |
| 23 | 173 | 175 | 140 | 150 | 210 | 176 | 74 | 46 | 44 | 42 | 26 | 55 |
| 24 | 173 | 170 | 140 | 150 | 200 | 168 | 71 | 52 | 44 | 42 | 26 | 54 |
| 25 | 180 | 170 | 140 | 160 | 200 | 163 | 68 | 49 | 44 | 42 | 26 | 49 |
| 26 | 185 | 168 | 140 | 160 | 190 | 145 | 59 | 46 | 45 | 43 | 26 | 49 |
| 27 | 185 | 155 | 140 | 160 | 180 | 136 | 56 | 46 | 44 | 45 | 26 | 49 |
| 28 | 185 | 145 | 140 | 150 | 180 | 133 | 56 | 46 | 44 | 44 | 29 | 49 |
| 29 | 185 | 140 | 140 | 150 | | 133 | 54 | 46 | 44 | 42 | 48 | 49 |
| 30 | 185 | 125 | 140 | 150 | | 128 | 54 | 46 | 42 | 40 | 52 | 49 |
| 31 | 182 | | 140 | 150 | | 138 | | 49 | | 40 | 46 | 49 |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 185 | 162 | 170 | 10,440 | | |
| November | | | | | | | 178 | 125 | 163 | 9,720 | | |
| December | | | | | | | 150 | 120 | 135 | 8,300 | | |
| January | | | | | | | 160 | 130 | 146 | 8,990 | | |
| February | | | | | | | 210 | 160 | 187 | 10,380 | | |
| March | | | | | | | 208 | 128 | 161 | 11,120 | | |
| April | | | | | | | 145 | 54 | 99.3 | 5,910 | | |
| May | | | | | | | 54 | 39 | 45.7 | 2,810 | | |
| June | | | | | | | 52 | 42 | 45.1 | 2,860 | | |
| July | | | | | | | 44 | 29 | 38.8 | 2,390 | | |
| August | | | | | | | 52 | 26 | 36.0 | 2,220 | | |
| September | | | | | | | 55 | 39 | 47.0 | 2,800 | | |
| The year | | | | | | | 210 | 26 | 108 | 77,950 | | |

Bear River at Alexander, Idaho

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

Drainage area.- 3,840 square miles.

Records available.- March 1911 to September 1916, April 1919 to September 1934.

Average discharge.- 19 years (1911-16, 1919-20, 1921-34), 890 second-feet.

Extremes.- Maximum daily discharge during year, 1,220 second-feet July 19; minimum, 70 second-feet Mar. 25.

1911-16, 1919-34: Maximum discharge, 4,590 second-feet May 9, 1922; maximum gage height, 15.95 feet Dec. 11, 1919; minimum discharge, about 28 second-feet when reservoir gates are closed.

Remarks.- Records good. Numerous diversions for irrigation above station. Regulation caused by storage in Bear Lake Reservoir and operations at Soda power plant. Records collected by Utah Power & Light Co., under general supervision of the Geological Survey in connection with a Federal Power Commission project.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|-------|-------|
| 1 | 305 | 159 | 275 | 99 | 221 | 265 | 168 | 428 | 996 | 583 | 1,010 | 819 |
| 2 | 325 | 151 | 200 | 290 | 197 | 267 | 270 | 449 | 970 | 900 | 1,110 | 628 |
| 3 | 330 | 234 | 190 | 262 | 180 | 198 | 259 | 483 | 945 | 920 | 1,050 | 706 |
| 4 | 290 | 231 | 260 | 272 | 110 | 158 | 274 | 533 | 920 | 460 | 957 | 927 |
| 5 | 250 | 77 | 265 | 250 | 265 | 269 | 268 | 537 | 904 | 553 | 667 | 920 |
| 6 | 210 | 264 | 275 | 240 | 233 | 266 | 279 | 656 | 895 | 690 | 718 | 800 |
| 7 | 210 | 259 | 255 | 74 | 257 | 262 | 266 | 742 | 854 | 689 | 748 | 734 |
| 8 | 210 | 245 | 235 | 290 | 284 | 317 | 133 | 742 | 824 | 567 | 950 | 705 |
| 9 | 285 | 131 | 256 | 270 | 315 | 303 | 279 | 742 | 808 | 835 | 755 | 577 |
| 10 | 300 | 172 | 112 | 270 | 245 | 340 | 300 | 824 | 808 | 910 | 778 | 692 |
| 11 | 275 | 130 | 267 | 240 | 149 | 161 | 300 | 945 | 808 | 844 | 924 | 448 |
| 12 | 290 | 155 | 219 | 230 | 291 | 338 | 314 | 962 | 786 | 909 | 777 | 706 |
| 13 | 320 | 260 | 246 | 210 | 226 | 333 | 270 | 954 | 721 | 869 | 983 | 593 |
| 14 | 220 | 135 | 253 | 110 | 258 | 322 | 226 | 962 | 771 | 795 | 1,110 | 593 |
| 15 | 230 | 180 | 202 | 220 | 244 | 257 | 82 | 988 | 705 | 734 | 1,040 | 471 |
| 16 | 285 | 250 | 175 | 230 | 261 | 356 | 213 | 979 | 700 | 1,070 | 1,040 | 377 |
| 17 | 270 | 193 | 168 | 230 | 234 | 295 | 222 | 988 | 580 | 1,110 | 811 | 552 |
| 18 | 285 | 310 | 250 | 230 | 130 | 198 | 182 | 988 | 751 | 1,130 | 857 | 533 |
| 19 | 210 | 131 | 248 | 200 | 253 | 267 | 219 | 995 | 874 | 1,220 | 866 | 558 |
| 20 | 210 | 316 | 210 | 189 | 269 | 298 | 275 | 1,020 | 962 | 1,040 | 960 | 637 |
| 21 | 225 | 278 | 267 | 112 | 265 | 244 | 185 | 996 | 910 | 1,010 | 1,050 | 612 |
| 22 | 100 | 278 | 221 | 207 | 239 | 250 | 162 | 1,020 | 896 | 838 | 980 | 532 |
| 23 | 305 | 244 | 221 | 179 | 251 | 208 | 265 | 1,050 | 616 | 1,030 | 1,080 | 330 |
| 24 | 230 | 213 | 197 | 174 | 241 | 214 | 299 | 1,050 | 475 | 711 | 964 | 523 |
| 25 | 244 | 215 | 125 | 223 | 177 | 70 | 305 | 1,060 | 754 | 926 | 879 | 415 |
| 26 | 250 | 160 | 186 | 220 | 249 | 137 | 325 | 1,060 | 710 | 948 | 675 | 392 |
| 27 | 230 | 245 | 256 | 189 | 257 | 194 | 296 | 1,030 | 699 | 955 | 1,010 | 296 |
| 28 | 155 | 310 | 280 | 155 | 232 | 265 | 306 | 1,030 | 694 | 965 | 1,060 | 79 |
| 29 | 86 | 275 | 239 | 160 | | 240 | 179 | 1,020 | 725 | 800 | 920 | 117 |
| 30 | 130 | 100 | 237 | 209 | | 232 | 353 | 1,030 | 777 | 898 | 918 | 121 |
| 31 | 153 | | 223 | 176 | | 86 | | 1,030 | | 1,040 | 903 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 330 | 86 | 239 | 14,710 | | |
| November | | | | | | | 316 | 77 | 210 | 12,500 | | |
| December | | | | | | | 299 | 100 | 229 | 14,110 | | |
| January | | | | | | | 290 | 74 | 207 | 12,760 | | |
| February | | | | | | | 315 | 110 | 234 | 13,000 | | |
| March | | | | | | | 356 | 70 | 247 | 15,210 | | |
| April | | | | | | | 353 | 82 | 260 | 14,650 | | |
| May | | | | | | | 1,060 | 425 | 860 | 54,120 | | |
| June | | | | | | | 996 | 475 | 795 | 47,300 | | |
| July | | | | | | | 1,220 | 460 | 805 | 52,190 | | |
| August | | | | | | | 1,110 | 657 | 915 | 56,230 | | |
| September | | | | | | | 927 | 79 | 553 | 32,910 | | |
| The year | | | | | | | 1,220 | 70 | 471 | 340,900 | | |

Bear River near Weston, Idaho

Location.- Water-stage recorder in SW $\frac{1}{4}$ sec. 17, T. 16 S., R. 39 E., at Weston-Fairview highway bridge 3 miles east of Weston.

Records available.- October 1919 to December 1932, February to September 1934.
Comparable records obtained near Preston, Idaho, October 1889 to January 1917.

Average discharge.- 13 years (1919-32), 1,100 second-feet.

Extremes.- Maximum mean daily discharge, February to September 1934, 1,020 second-feet June 19; minimum, 30 second-feet Apr. 29.
1919-32, 1934: Maximum discharge, 6,100 second-feet May 8 or 9, 1922 (gage height, 12.1 feet); minimum, that of Apr. 29, 1934.

Remarks.- Records fair. West Cache Canal and numerous irrigation ditches divert above station. Regulation caused by storage in Bear Lake Reservoir and operation of power plants above gage. Records furnished by Utah Power & Light Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|------------|------|------|------|------|------|------|---------|---------|-------|-------------------------|------|-------|
| 1 | | | | | 486 | 443 | 220 | 222 | 502 | 474 | 802 | 722 |
| 2 | | | | | 462 | 390 | 180 | 108 | 462 | 662 | 969 | 798 |
| 3 | | | | | 662 | 418 | 450 | 62 | 598 | 658 | 718 | 554 |
| 4 | | | | | 387 | 429 | 200 | 195 | 646 | 522 | 474 | 446 |
| 5 | | | | | 270 | 237 | 530 | 165 | 706 | 297 | 366 | 690 |
| 6 | | | | | 339 | 367 | 300 | 128 | 746 | 466 | 429 | 738 |
| 7 | | | | | 462 | 415 | 522 | 168 | 662 | 610 | 646 | 730 |
| 8 | | | | | 478 | 446 | 291 | 626 | 664 | 458 | 678 | 586 |
| 9 | | | | | 646 | 394 | 185 | 726 | 690 | 398 | 662 | 594 |
| 10 | | | | | 482 | 714 | 446 | 802 | 650 | 550 | 582 | 478 |
| 11 | | | | | 494 | 566 | 294 | 698 | 734 | 522 | 570 | 432 |
| 12 | | | | | 249 | 297 | 373 | 674 | 774 | 630 | 582 | 674 |
| 13 | | | | | 460 | 636 | 330 | 614 | 682 | 426 | 674 | 642 |
| 14 | | | | | 466 | 474 | 297 | 458 | 662 | 502 | 766 | 502 |
| 15 | | | | | 502 | 526 | 195 | 742 | 710 | 566 | 594 | 514 |
| 16 | | | | | 482 | 526 | 67 | 698 | 662 | 630 | 534 | 446 |
| 17 | | | | | 462 | 466 | 240 | 774 | 566 | 706 | 534 | 450 |
| 18 | | | | | 429 | 526 | 264 | 770 | 538 | 638 | 566 | 370 |
| 19 | | | | | 215 | 300 | 208 | 726 | 1,020 | 854 | 590 | 443 |
| 20 | | | | | 514 | 366 | 210 | 738 | 602 | 662 | 446 | 462 |
| 21 | | | | | 522 | 432 | 160 | 670 | 534 | 682 | 802 | 514 |
| 22 | | | | | 466 | 446 | 116 | 638 | 522 | 726 | 866 | 474 |
| 23 | | | | | 412 | 470 | 74 | 746 | 546 | 586 | 554 | 490 |
| 24 | | | | | 502 | 456 | 42 | 734 | 630 | 542 | 722 | 538 |
| 25 | | | | | 466 | 312 | 96 | 674 | 309 | 506 | 702 | 418 |
| 26 | | | | | 210 | 267 | 127 | 710 | 362 | 542 | 496 | 598 |
| 27 | | | | | 418 | 237 | 112 | 678 | 450 | 546 | 658 | 614 |
| 28 | | | | | 462 | 460 | 86 | 778 | 470 | 578 | 806 | 722 |
| 29 | | | | | | 458 | 30 | 694 | 426 | 630 | 674 | 356 |
| 30 | | | | | | 460 | 180 | 562 | 598 | 570 | 730 | 152 |
| 31 | | | | | | 466 | | 566 | | 714 | 668 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | | | | | | |
| November | | | | | | | | | | | | |
| December | | | | | | | | | | | | |
| January | | | | | | | | | | | | |
| February | | | | | | | 662 | 210 | 444 | 24,660 | | |
| March | | | | | | | 714 | 237 | 434 | 26,710 | | |
| April | | | | | | | 530 | 30 | 227 | 13,540 | | |
| May | | | | | | | 838 | 62 | 569 | 36,000 | | |
| June | | | | | | | 1,020 | 309 | 606 | 36,050 | | |
| July | | | | | | | 854 | 297 | 576 | 36,410 | | |
| August | | | | | | | 989 | 366 | 649 | 39,910 | | |
| September | | | | | | | 798 | 152 | 538 | 32,010 | | |
| The period | | | | | | | | | | 243,300 | | |

Bear River near Collinston, Utah

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

Drainage area.- 6,000 square miles.

Records available.- July 1889 to September 1934.

Average discharge.- 44 years (1889-1905, 1906-34), 1,869 second-feet.

Extremes.- Maximum mean daily discharge during year, 1,640 second-feet Dec. 21; minimum, 17 second-feet Sept. 11, 12, 23.
1889-1934: Maximum discharge recorded, 11,600 second-feet June 7-10, 1909 (gage height, 7.7 feet); practically no flow at midnight Aug. 5, 1920 (gage height, 0.42 foot).

Remarks.- Records good. Discharge estimated Jan. 6, 7. Numerous canals divert above station. Flow regulated by storage in reservoirs and operation of power plants above gage. Gage-height record and several discharge measurements furnished by Utah Power & Light Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|-------|-------|-------|-------|-------|---------|---------|------|----------------------|------|-------|
| 1 | 35 | 712 | 913 | 504 | 534 | 743 | 229 | 32 | 24 | 24 | 20 | 19 |
| 2 | 293 | 711 | 706 | 1,320 | 950 | 996 | 405 | 32 | 24 | 24 | 20 | 19 |
| 3 | 180 | 697 | 475 | 1,210 | 749 | 629 | 916 | 32 | 24 | 24 | 20 | 19 |
| 4 | 277 | 219 | 857 | 1,070 | 605 | 722 | 1,170 | 32 | 24 | 24 | 20 | 18 |
| 5 | 361 | 178 | 1,090 | 1,400 | 724 | 699 | 1,060 | 32 | 24 | 25 | 20 | 18 |
| 6 | 618 | 475 | 925 | 1,200 | 960 | 844 | 1,220 | 30 | 22 | 25 | 20 | 16 |
| 7 | 546 | 529 | 829 | 1,000 | 785 | 1,070 | 907 | 30 | 22 | 24 | 20 | 16 |
| 8 | 567 | 613 | 871 | 1,270 | 1,080 | 754 | 569 | 30 | 22 | 24 | 20 | 18 |
| 9 | 166 | 625 | 465 | 1,150 | 1,200 | 600 | 1,140 | 30 | 24 | 22 | 20 | 18 |
| 10 | 229 | 1,250 | 417 | 952 | 795 | 530 | 971 | 30 | 24 | 22 | 20 | 18 |
| 11 | 437 | 563 | 729 | 906 | 616 | 713 | 1,050 | 28 | 24 | 21 | 20 | 17 |
| 12 | 283 | 779 | 821 | 1,070 | 917 | 984 | 1,000 | 27 | 24 | 22 | 20 | 17 |
| 13 | 469 | 542 | 1,010 | 591 | 1,060 | 997 | 882 | 27 | 24 | 21 | 20 | 18 |
| 14 | 375 | 825 | 1,520 | 444 | 937 | 897 | 600 | 27 | 24 | 21 | 20 | 19 |
| 15 | 191 | 700 | 1,450 | 948 | 926 | 887 | 243 | 27 | 24 | 21 | 20 | 18 |
| 16 | 348 | 941 | 1,220 | 938 | 922 | 1,090 | 487 | 25 | 24 | 22 | 20 | 18 |
| 17 | 270 | 1,140 | 967 | 788 | 700 | 846 | 571 | 25 | 24 | 21 | 20 | 18 |
| 18 | 97 | 318 | 1,100 | 822 | 698 | 981 | 617 | 25 | 22 | 21 | 20 | 18 |
| 19 | 154 | 258 | 1,030 | 1,010 | 954 | 887 | 153 | 25 | 24 | 21 | 20 | 18 |
| 20 | 331 | 926 | 1,190 | 731 | 1,060 | 818 | 41 | 25 | 24 | 21 | 20 | 18 |
| 21 | 249 | 940 | 1,640 | 602 | 1,040 | 860 | 36 | 24 | 25 | 21 | 18 | 44 |
| 22 | 123 | 832 | 1,220 | 708 | 1,020 | 809 | 36 | 25 | 25 | 21 | 18 | 20 |
| 23 | 340 | 677 | 851 | 941 | 1,060 | 454 | 33 | 25 | 24 | 21 | 18 | 17 |
| 24 | 490 | 1,250 | 733 | 1,070 | 776 | 776 | 32 | 25 | 22 | 22 | 19 | 18 |
| 25 | 350 | 844 | 243 | 1,060 | 619 | 487 | 33 | 25 | 22 | 21 | 19 | 18 |
| 26 | 355 | 591 | 1,110 | 975 | 918 | 853 | 33 | 25 | 24 | 22 | 19 | 18 |
| 27 | 291 | 967 | 1,040 | 666 | 1,020 | 958 | 33 | 25 | 22 | 24 | 19 | 183 |
| 28 | 352 | 1,070 | 1,410 | 857 | 988 | 983 | 33 | 25 | 24 | 22 | 18 | 1,150 |
| 29 | 156 | 988 | 1,270 | 862 | | 570 | 33 | 25 | 24 | 22 | 19 | 775 |
| 30 | 568 | 984 | 1,450 | 899 | | 468 | 33 | 25 | 24 | 22 | 19 | 716 |
| 31 | 629 | | 872 | 828 | | 647 | | 25 | | 21 | 19 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 629 | 35 | 327 | 20,090 | | |
| November | | | | | | | 1,250 | 178 | 737 | 43,860 | | |
| December | | | | | | | 1,640 | 243 | 981 | 60,310 | | |
| January | | | | | | | 1,400 | 444 | 929 | 57,110 | | |
| February | | | | | | | 1,200 | 534 | 876 | 48,650 | | |
| March | | | | | | | 1,090 | 454 | 792 | 48,700 | | |
| April | | | | | | | 1,220 | 32 | 465 | 28,860 | | |
| May | | | | | | | 32 | 24 | 27.3 | 1,680 | | |
| June | | | | | | | 25 | 22 | 23.6 | 1,400 | | |
| July | | | | | | | 25 | 21 | 22.2 | 1,370 | | |
| August | | | | | | | 20 | 18 | 19.5 | 1,200 | | |
| September | | | | | | | 1,150 | 17 | 111 | 6,590 | | |
| The year | | | | | | | 1,640 | 17 | 442 | 319,800 | | |

Logan River above State dam near Logan, Utah

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

Drainage area.- 218 square miles.

Records available.- May 1913 to September 1934. June 1896 to December 1912 at old station a quarter of a mile downstream; flow at present station plus that of tailrace comparable to flow at old station.

Average discharge.- 21 years (1913-34), 125 second-feet.

Extremes.- Maximum discharge during year, 190 second-feet May 16 (gage height, 3.11 feet); minimum daily discharge, 8 second-feet Feb. 2, 3.

1913-34: Maximum discharge (estimated), 2,000 second-feet Mar. 21, 1916 (gage height, 5.6 feet); minimum daily discharge, 8 second-feet Dec. 11, 1915, several days in November and December 1931. and Feb. 2-3, 1934.

Remarks.- Records fair. Water diverted from river and springs upstream for power, irrigation and municipal supply. Flow regulated by operation of power plants above station. Gage-height record and results of several discharge measurements furnished by Utah Power & Light Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | 12 | 11 | 11 | 11 | 9 | 11 | 11 | 14 | 12 | 11 | 11 | 10 |
| 2 | 11 | 11 | 11 | 10 | 8 | 11 | 11 | 14 | 12 | 11 | 11 | 10 |
| 3 | 11 | 11 | 11 | 10 | 8 | 11 | 16 | 13 | 12 | 11 | 11 | 10 |
| 4 | 11 | 11 | 11 | 10 | 10 | 11 | 24 | 13 | 12 | 11 | 11 | 10 |
| 5 | 11 | 11 | 11 | 10 | 9 | 11 | 16 | 14 | 12 | 11 | 11 | 10 |
| 6 | 11 | 11 | 10 | 10 | 9 | 14 | 15 | 15 | 12 | 10 | 10 | 10 |
| 7 | 11 | 10 | 11 | 10 | 9 | 18 | 13 | 19 | 12 | 9 | 10 | 10 |
| 8 | 11 | 10 | 11 | 10 | 9 | 16 | 14 | 24 | 12 | 9 | 10 | 9 |
| 9 | 13 | 10 | 11 | 10 | 9 | 16 | 14 | 19 | 14 | 10 | 10 | 10 |
| 10 | 14 | 10 | 11 | 10 | 9 | 16 | 22 | 13 | 16 | 9 | 11 | 10 |
| 11 | 12 | 10 | 14 | 10 | 9 | 16 | 26 | 13 | 14 | 9 | 11 | 10 |
| 12 | 12 | 11 | 11 | 10 | 9 | 14 | 33 | 13 | 12 | 9 | 11 | 10 |
| 13 | 12 | 11 | 12 | 10 | 9 | 11 | 30 | 14 | 12 | 9 | 10 | 10 |
| 14 | 12 | 10 | 11 | 10 | 9 | 11 | 20 | 121 | 12 | 9 | 10 | 10 |
| 15 | 14 | 11 | 11 | 10 | 9 | 12 | 15 | 176 | 12 | 9 | 10 | 10 |
| 16 | 13 | 10 | 10 | 10 | 9 | 15 | 14 | 140 | 12 | 9 | 10 | 10 |
| 17 | 12 | 10 | 10 | 10 | 9 | 13 | 14 | 13 | 12 | 9 | 10 | 10 |
| 18 | 11 | 10 | 11 | 10 | 11 | 13 | 13 | 13 | 12 | 9 | 10 | 11 |
| 19 | 13 | 11 | 10 | 10 | 10 | 13 | 13 | 13 | 13 | 9 | 10 | 10 |
| 20 | 13 | 11 | 10 | 10 | 10 | 14 | 14 | 13 | 12 | 9 | 10 | 10 |
| 21 | 11 | 10 | 10 | 10 | 11 | 19 | 14 | 12 | 12 | 9 | 10 | 10 |
| 22 | 10 | 10 | 10 | 11 | 11 | 25 | 17 | 12 | 12 | 10 | 10 | 11 |
| 23 | 9 | 10 | 10 | 11 | 11 | 23 | 17 | 13 | 12 | 10 | 10 | 10 |
| 24 | 9 | 10 | 10 | 11 | 11 | 16 | 25 | 13 | 12 | 10 | 11 | 10 |
| 25 | 11 | 10 | 11 | 10 | 10 | 13 | 26 | 14 | 11 | 9 | 10 | 10 |
| 26 | 11 | 11 | 10 | 19 | 11 | 14 | 24 | 13 | 11 | 9 | 10 | 10 |
| 27 | 11 | 10 | 11 | 9 | 11 | 14 | 16 | 12 | 11 | 9 | 10 | 11 |
| 28 | 11 | 10 | 10 | 9 | 11 | 16 | 14 | 12 | 11 | 9 | 10 | 10 |
| 29 | 12 | 10 | 10 | 10 | 26 | 14 | 12 | 11 | 9 | 10 | 10 | 10 |
| 30 | 11 | 10 | 10 | 9 | 11 | 11 | 14 | 12 | 10 | 3 | 10 | 10 |
| 31 | 12 | 10 | 10 | 11 | 11 | 11 | 14 | 12 | 10 | 10 | 10 | 10 |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 14 | 9 | 11.5 | 710 | | |
| November | | | | | | | 11 | 10 | 10.4 | 619 | | |
| December | | | | | | | 14 | 10 | 10.7 | 857 | | |
| January | | | | | | | 19 | 9 | 10.4 | 637 | | |
| February | | | | | | | 11 | 8 | 9.6 | 536 | | |
| March | | | | | | | 26 | 11 | 14.7 | 902 | | |
| April | | | | | | | 33 | 11 | 17.6 | 1,050 | | |
| May | | | | | | | 175 | 12 | 26.5 | 1,630 | | |
| June | | | | | | | 16 | 10 | 12.1 | 718 | | |
| July | | | | | | | 11 | 9 | 9.5 | 585 | | |
| August | | | | | | | 11 | 10 | 10.3 | 633 | | |
| September | | | | | | | 11 | 9 | 10.1 | 599 | | |
| The year | | | | | | | 176 | 8 | 12.8 | 9,280 | | |

Utah Power & Light Co.'s tailrace near Logan, Utah

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

Records available.- May 1913 to September 1934.

Average discharge.- 21 years, 99.3 second-feet.

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

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | 102 | 101 | 96 | 89 | 78 | 80 | 142 | 176 | 113 | 80 | 61 | 55 |
| 2 | 112 | 101 | 93 | 96 | 80 | 79 | 136 | 169 | 107 | 81 | 64 | 56 |
| 3 | 112 | 99 | 93 | 95 | 79 | 77 | 120 | 169 | 106 | 78 | 65 | 56 |
| 4 | 112 | 101 | 96 | 89 | 79 | 80 | 113 | 162 | 115 | 77 | 64 | 54 |
| 5 | 113 | 99 | 91 | 89 | 81 | 83 | 120 | 162 | 121 | 83 | 65 | 55 |
| 6 | 113 | 98 | 89 | 83 | 83 | 85 | 103 | 169 | 108 | 84 | 66 | 55 |
| 7 | 112 | 98 | 93 | 77 | 80 | 84 | 96 | 170 | 104 | 80 | 67 | 55 |
| 8 | 111 | 99 | 95 | 74 | 81 | 83 | 93 | 172 | 106 | 77 | 66 | 54 |
| 9 | 112 | 97 | 91 | 75 | 79 | 81 | 96 | 176 | 101 | 77 | 68 | 54 |
| 10 | 111 | 98 | 91 | 79 | 78 | 79 | 97 | 184 | 99 | 77 | 65 | 54 |
| 11 | 111 | 97 | 93 | 81 | 77 | 76 | 97 | 178 | 99 | 78 | 65 | 54 |
| 12 | 107 | 98 | 93 | 77 | 76 | 79 | 97 | 175 | 98 | 76 | 63 | 54 |
| 13 | 107 | 101 | 93 | 80 | 77 | 84 | 120 | 176 | 93 | 75 | 62 | 54 |
| 14 | 106 | 99 | 95 | 81 | 78 | 89 | 164 | 50 | 95 | 75 | 61 | 52 |
| 15 | 103 | 101 | 93 | 84 | 78 | 91 | 176 | 0 | 98 | 75 | 60 | 53 |
| 16 | 104 | 101 | 93 | 81 | 80 | 95 | 175 | 36 | 97 | 74 | 59 | 52 |
| 17 | 106 | 103 | 89 | 77 | 79 | 96 | 168 | 153 | 95 | 71 | 59 | 53 |
| 18 | 106 | 106 | 92 | 77 | 77 | 95 | 157 | 153 | 93 | 71 | 60 | 53 |
| 19 | 106 | 103 | 93 | 69 | 75 | 95 | 149 | 150 | 95 | 70 | 59 | 53 |
| 20 | 104 | 99 | 92 | 74 | 77 | 95 | 172 | 147 | 90 | 70 | 58 | 53 |
| 21 | 104 | 99 | 91 | 78 | 79 | 96 | 180 | 146 | 87 | 71 | 58 | 51 |
| 22 | 102 | 99 | 90 | 83 | 79 | 97 | 182 | 136 | 86 | 71 | 58 | 52 |
| 23 | 102 | 99 | 90 | 84 | 79 | 97 | 186 | 122 | 87 | 70 | 58 | 53 |
| 24 | 104 | 101 | 90 | 85 | 81 | 97 | 186 | 121 | 83 | 70 | 57 | 56 |
| 25 | 107 | 99 | 90 | 81 | 83 | 95 | 184 | 122 | 84 | 71 | 56 | 58 |
| 26 | 104 | 98 | 90 | 55 | 80 | 97 | 176 | 128 | 84 | 70 | 57 | 55 |
| 27 | 102 | 98 | 89 | 83 | 80 | 96 | 169 | 126 | 83 | 66 | 58 | 55 |
| 28 | 102 | 101 | 90 | 84 | 80 | 95 | 164 | 125 | 80 | 65 | 58 | 56 |
| 29 | 97 | 97 | 89 | 84 | | 116 | 170 | 124 | 86 | 64 | 57 | 55 |
| 30 | 101 | 97 | 90 | 84 | | 143 | 172 | 119 | 84 | 65 | 56 | 55 |
| 31 | 102 | | 85 | 77 | | 147 | | 119 | | 64 | 55 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 113 | 97 | 106 | 6,540 | | |
| November | | | | | | | 106 | 97 | 99.6 | 5,920 | | |
| December | | | | | | | 96 | 85 | 91.5 | 5,630 | | |
| January | | | | | | | 96 | 55 | 80.8 | 4,970 | | |
| February | | | | | | | 83 | 75 | 79.0 | 4,390 | | |
| March | | | | | | | 147 | 76 | 92.9 | 5,710 | | |
| April | | | | | | | 136 | 93 | 145 | 8,650 | | |
| May | | | | | | | 184 | 0 | 139 | 9,560 | | |
| June | | | | | | | 121 | 80 | 95.9 | 5,710 | | |
| July | | | | | | | 84 | 64 | 73.4 | 4,510 | | |
| August | | | | | | | 68 | 55 | 60.8 | 3,740 | | |
| September | | | | | | | 58 | 51 | 54.2 | 3,220 | | |
| The year | | | | | | | 186 | 0 | 93.3 | 67,550 | | |

Logan, Hyde Park & Smithfield Canal near Logan, Utah

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

Records available.- June 1904 to December 1907, January 1909 to September 1934.

Average discharge.- 11 years (1923-34), 30.1 second-feet.

Remarks.- Records good except those estimated Oct. 26 to Jan. 29 and Feb. 30 to Apr. 5, which are fair. No diversions above gage. Flow regulated by head gates at diversion works. Canal diverts water from Logan River in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 12 N., R. 2 E., for irrigation and domestic use in territory north of Logan. Results of several discharge measurements furnished by Utah Power & Light Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 30 | | | | 6 | | | 58 | 34 | 25 | 23 | 16 |
| 2 | 23 | | | | 6 | | | 51 | 38 | 23 | 18 | 16 |
| 3 | 23 | | | | 6 | *6 | *16 | 49 | 39 | 23 | 18 | 16 |
| 4 | 22 | | | | 6 | | | 46 | 32 | 26 | 18 | 16 |
| 5 | 19 | | | | 6 | 2 | | 46 | 28 | 21 | 18 | 17 |
| 6 | 19 | | | | 6 | 0 | 18 | 57 | 32 | 19 | 18 | 16 |
| 7 | 19 | | | | 6 | 0 | 23 | 67 | 35 | 21 | 18 | 17 |
| 8 | 19 | | | | 6 | 0 | 26 | 66 | 34 | 21 | 17 | 16 |
| 9 | 19 | | | | 6 | 0 | 30 | 60 | 32 | 21 | 17 | 16 |
| 10 | 19 | | †6 | | 6 | 0 | 33 | 54 | 32 | 21 | 17 | 16 |
| 11 | 19 | | | | 6 | 0 | 51 | 42 | 32 | 21 | 17 | 16 |
| 12 | 19 | | | | 6 | 4 | 79 | 51 | 29 | 21 | 17 | 16 |
| 13 | 19 | | | | 6 | | 87 | 48 | 30 | 21 | 16 | 16 |
| 14 | 19 | | | | 6 | | 69 | 46 | 29 | 21 | 17 | 16 |
| 15 | 19 | | | | 6 | | 59 | 47 | 29 | 21 | 17 | 16 |
| 16 | 19 | | | | 6 | | 65 | 48 | 29 | 20 | 17 | 16 |
| 17 | 19 | | | | 6 | | 53 | 46 | 31 | 20 | 17 | 16 |
| 18 | 19 | | | | 6 | | 49 | 45 | 34 | 19 | 17 | 16 |
| 19 | 19 | †10 | | | 6 | *6 | 58 | 42 | 34 | 19 | 17 | 16 |
| 20 | 17 | | | | | | 61 | 40 | 34 | 19 | 17 | 16 |
| 21 | 17 | | | | | | 60 | 39 | 35 | 19 | 17 | 16 |
| 22 | 17 | | | | | | 73 | 45 | 35 | 19 | 17 | 16 |
| 23 | 17 | | | | | | 73 | 46 | 36 | 19 | 17 | 15 |
| 24 | 17 | | | | *6 | | 86 | 45 | 35 | 19 | 16 | 15 |
| 25 | 17 | | | | | *2 | 103 | 41 | 35 | 19 | 16 | 15 |
| 26 | | | | | | 0 | 92 | 39 | 35 | 19 | 16 | 14 |
| 27 | | | | | | 0 | 62 | 38 | 35 | 18 | 16 | 14 |
| 28 | | | | | | *2 | 57 | 37 | 32 | 16 | 16 | 14 |
| 29 | *15 | | | | | *6 | 52 | 36 | 27 | 16 | 16 | 14 |
| 30 | | | | 6 | | *8 | 61 | 33 | 26 | 19 | 16 | 14 |
| 31 | | | | 6 | | *10 | | 32 | | 20 | 16 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 30 | | 18.5 | 1,140 | | |
| November | | | | | | | | | *10 | 595 | | |
| December | | | | | | | | | *6 | 369 | | |
| January | | | | | | | | | *6 | 369 | | |
| February | | | | | | | | | 8.0 | 333 | | |
| March | | | | | | | | 0 | 4.2 | 258 | | |
| April | | | | | | | 103 | | 52.0 | 3,090 | | |
| May | | | | | | | 67 | 32 | 46.4 | 2,850 | | |
| June | | | | | | | 39 | 26 | 32.5 | 1,940 | | |
| July | | | | | | | 26 | 16 | 20.2 | 1,240 | | |
| August | | | | | | | 23 | 16 | 17.1 | 1,050 | | |
| September | | | | | | | 17 | 14 | 15.6 | 930 | | |
| The year | | | | | | | 103 | 0 | 19.6 | 14,160 | | |

*Estimated.

†Discharge measurement.

Blacksmith Fork at municipal power plant near Hyrum, Utah

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 2, T. 10 N., R. 2 E., 200 feet below Hyrum municipal power plant, 1 mile above Left Fork, and 8 $\frac{1}{2}$ miles east of Hyrum.

Drainage area.- 153 square miles.

Records available.- October 1929 to September 1934.

Extremes.- Maximum daily discharge during year, 80 second-feet Oct. 22; minimum, 43 second-feet several days.

1929-34: Maximum discharge, 469 second-feet May 15, 1932 (gauge height, 3.12 feet); minimum daily discharge, 41 second-feet Dec. 15, 1931.

Remarks.- Records good. Flow may be affected by operations at power plant.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | 77 | 74 | 70 | 68 | 63 | 61 | 68 | 63 | 53 | 49 | 45 | 48 |
| 2 | 78 | 74 | 68 | 69 | 63 | 61 | 68 | 65 | 53 | 48 | 46 | 46 |
| 3 | 77 | 75 | 68 | 68 | 63 | 61 | 68 | 65 | 53 | 48 | 46 | 48 |
| 4 | 75 | 75 | 69 | 69 | 63 | 61 | 63 | 63 | 52 | 49 | 49 | 46 |
| 5 | 75 | 74 | 68 | 68 | 63 | 63 | 64 | 61 | 52 | 49 | 46 | 46 |
| 6 | 75 | 74 | 68 | 68 | 63 | 65 | 64 | 61 | 52 | 49 | 48 | 46 |
| 7 | 75 | 73 | 68 | 65 | 63 | 61 | 61 | 61 | 53 | 49 | 49 | 46 |
| 8 | 78 | 73 | 68 | 61 | 64 | 61 | 60 | 60 | 53 | 49 | 49 | 48 |
| 9 | 79 | 73 | 68 | 63 | 64 | 60 | 65 | 58 | 52 | 48 | 46 | 48 |
| 10 | 78 | 73 | 68 | 61 | 63 | 59 | 63 | 54 | 52 | 46 | 45 | 46 |
| 11 | 78 | 73 | 68 | 63 | 63 | 59 | 59 | 55 | 53 | 45 | 46 | 44 |
| 12 | 75 | 73 | 69 | 63 | 63 | 59 | 64 | 55 | 53 | 45 | 45 | 44 |
| 13 | 75 | 73 | 72 | 65 | 65 | 59 | 65 | 55 | 52 | 45 | 46 | 43 |
| 14 | 75 | 72 | 69 | 64 | 61 | 60 | 64 | 55 | 51 | 45 | 48 | 44 |
| 15 | 75 | 72 | 69 | 64 | 61 | 60 | 61 | 58 | 51 | 45 | 49 | 44 |
| 16 | 77 | 73 | 69 | 63 | 60 | 60 | 61 | 57 | 51 | 45 | 48 | 43 |
| 17 | 75 | 72 | 66 | 60 | 58 | 60 | 63 | 57 | 52 | 45 | 46 | 44 |
| 18 | 77 | 73 | 68 | 63 | 60 | 61 | 63 | 54 | 51 | 43 | 48 | 44 |
| 19 | 77 | 72 | 68 | 63 | 60 | 61 | 61 | 54 | 51 | 43 | 46 | 44 |
| 20 | 77 | 72 | 68 | 63 | 64 | 61 | 61 | 53 | 52 | 44 | 44 | 44 |
| 21 | 75 | 70 | 68 | 63 | 63 | 61 | 63 | 53 | 52 | 46 | 43 | 44 |
| 22 | *80 | 70 | 68 | 63 | 63 | 61 | 68 | 53 | 50 | 58 | 43 | 45 |
| 23 | 77 | 70 | 68 | *65 | 61 | 61 | 68 | 52 | 49 | 44 | 43 | 44 |
| 24 | 75 | 70 | 68 | 70 | 63 | 63 | 73 | 53 | 50 | 48 | 45 | 46 |
| 25 | 78 | 70 | 69 | 61 | 63 | 61 | 72 | 53 | 52 | 48 | 46 | 49 |
| 26 | 75 | *70 | 68 | 61 | 63 | 60 | 70 | 54 | 51 | 46 | 49 | 48 |
| 27 | 75 | 70 | 68 | 61 | 60 | 61 | 63 | 54 | 50 | 46 | 48 | 48 |
| 28 | 75 | 70 | 68 | 63 | 60 | 63 | 60 | 54 | 50 | 43 | 45 | 48 |
| 29 | 74 | 70 | 65 | 61 | 63 | 73 | 69 | 53 | 50 | 43 | 48 | 46 |
| 30 | 74 | 70 | 68 | 63 | 63 | 68 | 59 | 52 | 49 | 46 | 48 | 46 |
| 31 | 74 | 70 | 68 | 63 | 63 | 75 | 63 | 53 | 49 | 46 | 48 | 46 |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 80 | 74 | 76.1 | 4,680 | | |
| November | | | | | | | 75 | 70 | 72.1 | 4,290 | | |
| December | | | | | | | 72 | 65 | 68.2 | 4,200 | | |
| January | | | | | | | 70 | 60 | 64.0 | 3,930 | | |
| February | | | | | | | 64 | 68 | 62.2 | 3,460 | | |
| March | | | | | | | 75 | 59 | 61.9 | 3,810 | | |
| April | | | | | | | 73 | 59 | 64.0 | 3,810 | | |
| May | | | | | | | 65 | 52 | 56.4 | 3,470 | | |
| June | | | | | | | 53 | 49 | 51.5 | 3,060 | | |
| July | | | | | | | 58 | 43 | 46.5 | 2,860 | | |
| August | | | | | | | 49 | 43 | 46.5 | 2,860 | | |
| September | | | | | | | 49 | 43 | 46.7 | 2,720 | | |
| The year | | | | | | | 80 | 43 | 59.6 | 43,140 | | |

*Estimated.

Blacksmith Fork above Utah Power & Light Co.'s dam near Hyrum, Utah

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

Drainage area.- 280 square miles.

Records available.- July 1900 to December 1902, November 1913 to September 1934.

Average discharge.- 20 years (1914-34), 131 second-feet.

Extremes.- Maximum discharge during year, 127 second-feet Oct. 22 (gage height, 1.71 feet); minimum daily discharge, 42 second-feet several days during August and September.

1913-34: Maximum discharge, about 1,620 second-feet May 15, 1917 (gage height, 6.5 feet); minimum daily discharge recorded, 39 second-feet Dec. 15, 1919.

Remarks.- Records good. Discharge estimated Dec. 17 to Jan. 3, May 21-26, May 29 to June 5. No large diversions above station. Low-water flow may be affected by operations of power plant above. Gage-height record and results of several discharge measurements furnished by Utah Power & Light Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | 79 | 73 | 67 | 64 | 61 | 63 | 79 | 61 | 52 | 46 | 44 | 43 |
| 2 | 79 | 73 | 66 | 64 | 61 | 62 | 76 | 62 | 52 | 46 | 45 | 43 |
| 3 | 79 | 73 | 66 | 63 | 61 | 61 | 79 | 62 | 52 | 47 | 44 | 43 |
| 4 | 79 | 73 | 65 | 63 | 61 | 61 | 79 | 62 | 51 | 46 | 45 | 42 |
| 5 | 79 | 73 | 65 | 63 | 61 | 63 | 78 | 61 | 51 | 47 | 45 | 43 |
| 6 | 79 | 73 | 65 | 60 | 61 | 63 | 65 | 61 | 50 | 46 | 45 | 43 |
| 7 | 79 | 73 | 65 | 59 | 61 | 63 | 63 | 61 | 52 | 46 | 46 | 43 |
| 8 | 80 | 72 | 63 | 57 | 61 | 62 | 63 | 62 | 53 | 46 | 45 | 44 |
| 9 | 79 | 73 | 65 | 55 | 61 | 61 | 63 | 62 | 51 | 45 | 45 | 44 |
| 10 | 78 | 73 | 66 | 55 | 59 | 60 | 63 | 61 | 51 | 45 | 45 | 44 |
| 11 | 76 | 73 | 66 | 55 | 57 | 60 | 61 | 61 | 51 | 44 | 44 | 43 |
| 12 | 74 | 74 | 66 | 57 | 56 | 59 | 62 | 61 | 51 | 43 | 44 | 43 |
| 13 | 74 | 73 | 67 | 57 | 56 | 59 | 63 | 61 | 50 | 43 | 44 | 43 |
| 14 | 74 | 73 | 67 | 59 | 56 | 59 | 65 | 61 | 50 | 43 | 44 | 42 |
| 15 | 74 | 72 | 65 | 59 | 56 | 59 | 63 | 61 | 50 | 44 | 45 | 42 |
| 16 | 73 | 72 | 66 | 59 | 56 | 59 | 63 | 61 | 50 | 44 | 45 | 42 |
| 17 | 72 | 72 | 64 | 59 | 56 | 59 | 62 | 61 | 50 | 44 | 45 | 42 |
| 18 | 72 | 72 | 66 | 60 | 55 | 59 | 61 | 61 | 50 | 43 | 45 | 42 |
| 19 | 72 | 72 | 66 | 60 | 55 | 59 | 60 | 60 | 49 | 43 | 44 | 42 |
| 20 | 70 | 72 | 66 | 60 | 57 | 59 | 59 | 59 | 50 | 44 | 43 | 42 |
| 21 | 70 | 72 | 66 | 60 | 59 | 59 | 60 | 56 | 49 | 45 | 42 | 42 |
| 22 | 74 | 72 | 66 | 60 | 57 | 60 | 63 | 57 | 49 | 56 | 42 | 43 |
| 23 | 70 | 70 | 66 | 62 | 56 | 61 | 62 | 56 | 47 | 46 | 42 | 43 |
| 24 | 72 | 68 | 66 | 70 | 57 | 61 | 63 | 55 | 46 | 47 | 43 | 44 |
| 25 | 70 | 68 | 66 | 67 | 62 | 62 | 65 | 54 | 46 | 47 | 43 | 45 |
| 26 | 72 | 68 | 65 | 65 | 61 | 62 | 65 | 53 | 49 | 45 | 43 | 45 |
| 27 | 72 | 68 | 65 | 63 | 62 | 62 | 61 | 53 | 49 | 45 | 44 | 45 |
| 28 | 73 | 68 | 65 | 62 | 62 | 63 | 57 | 53 | 48 | 43 | 42 | 44 |
| 29 | 73 | 68 | 64 | 61 | 61 | 72 | 57 | 53 | 47 | 43 | 44 | 44 |
| 30 | 73 | 68 | 65 | 61 | 61 | 70 | 57 | 52 | 46 | 45 | 45 | 44 |
| 31 | 73 | | 65 | 61 | 61 | 82 | | 52 | | 45 | 45 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 80 | 70 | 74.6 | 4,590 | | |
| November | | | | | | | 74 | 68 | 71.5 | 4,250 | | |
| December | | | | | | | 67 | 63 | 65.5 | 4,030 | | |
| January | | | | | | | 70 | 55 | 60.6 | 3,730 | | |
| February | | | | | | | 62 | 55 | 58.7 | 3,260 | | |
| March | | | | | | | 62 | 59 | 62.1 | 3,820 | | |
| April | | | | | | | 79 | 57 | 64.6 | 3,640 | | |
| May | | | | | | | 62 | 52 | 58.6 | 3,610 | | |
| June | | | | | | | 53 | 46 | 49.9 | 2,970 | | |
| July | | | | | | | 56 | 43 | 45.3 | 2,780 | | |
| August | | | | | | | 46 | 42 | 44.1 | 2,710 | | |
| September | | | | | | | 45 | 42 | 43.1 | 2,570 | | |
| The year | | | | | | | 82 | 42 | 58.2 | 42,160 | | |

West Side Canal near Collinston, Utah

Location.- Water-stage recorder in SW $\frac{1}{4}$ sec. 27, T. 13 N., R. 2 W., at Wheelon siding on Oregon Short Line Railroad, 4,200 feet below Cutler Dam and 4 miles north of Collinston.

Records available.- June 1912 to September 1934.

Average discharge.- 22 years, 223 second-feet.

Remarks.- Records good. Canal diverts from west side of Bear River in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 13 N., R. 2 W., at same diversion dam as Hammond (East Side) Canal and Cutler power plant. Record furnished by Utah Power & Light Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | 398 | 205 | 42 | 20 | 9 | 24 | 0 | 449 | 473 | 437 | 434 | 392 |
| 2 | 396 | 170 | 42 | 20 | 9 | 24 | 0 | 530 | 468 | 436 | 432 | 392 |
| 3 | 395 | 170 | 39 | 20 | 9 | 24 | 0 | 526 | 455 | 436 | 431 | 391 |
| 4 | 394 | 170 | 38 | 20 | 9 | 24 | 0 | 524 | 455 | 436 | 431 | 392 |
| 5 | 394 | 170 | 39 | 20 | 9 | 24 | 0 | 526 | 455 | 434 | 432 | 392 |
| 6 | 390 | 172 | 39 | 20 | 9 | 24 | 0 | 532 | 454 | 432 | 431 | 394 |
| 7 | 398 | 126 | 39 | 20 | 9 | 24 | 0 | 544 | 446 | 434 | 431 | 395 |
| 8 | 415 | 74 | 39 | 20 | 8 | 24 | 0 | 545 | 434 | 434 | 431 | 395 |
| 9 | 436 | 74 | 38 | 20 | 9 | 24 | 0 | 552 | 436 | 436 | 431 | 395 |
| 10 | 456 | 67 | 39 | 12 | 8 | 24 | 0 | 551 | 432 | 434 | 432 | 330 |
| 11 | 458 | 64 | 39 | 12 | 8 | 0 | 0 | 550 | 432 | 434 | 432 | 257 |
| 12 | 440 | 63 | 38 | 12 | 8 | 0 | 0 | 550 | 432 | 434 | 434 | 261 |
| 13 | 410 | 62 | 38 | 12 | 8 | 0 | 0 | 550 | 454 | 434 | 434 | 260 |
| 14 | 386 | 60 | 38 | 12 | 8 | 0 | 0 | 548 | 431 | 434 | 434 | 261 |
| 15 | 386 | 57 | 38 | 12 | 7 | 0 | 0 | 533 | 432 | 432 | 434 | 260 |
| 16 | 371 | 64 | 38 | 11 | 7 | 0 | 0 | 530 | 432 | 436 | 434 | 258 |
| 17 | 351 | 68 | 38 | 11 | 7 | 0 | 0 | 530 | 434 | 434 | 432 | 340 |
| 18 | 352 | 68 | 36 | 11 | 7 | 0 | 0 | 530 | 434 | 434 | 431 | 370 |
| 19 | 354 | 68 | 36 | 11 | 7 | 0 | 0 | 527 | 434 | 434 | 432 | 370 |
| 20 | 343 | 60 | 36 | 11 | 21 | 0 | 85 | 530 | 436 | 436 | 434 | 372 |
| 21 | 310 | 49 | 27 | 10 | 24 | 0 | 226 | 527 | 436 | 425 | 432 | 372 |
| 22 | 288 | 49 | 18 | 10 | 24 | 0 | 257 | 527 | 436 | 401 | 434 | 373 |
| 23 | 279 | 48 | 18 | 10 | 24 | 0 | 260 | 527 | 436 | 383 | 434 | 373 |
| 24 | 264 | 48 | 16 | 10 | 24 | 0 | 291 | 520 | 436 | 366 | 434 | 189 |
| 25 | 263 | 49 | 16 | 9 | 24 | 0 | 348 | 500 | 436 | 370 | 436 | 105 |
| 26 | 263 | 48 | 16 | 9 | 24 | 0 | 348 | 498 | 436 | 390 | 436 | 80 |
| 27 | 263 | 49 | 20 | 9 | 24 | 0 | 350 | 497 | 436 | 394 | 436 | 92 |
| 28 | 263 | 49 | 20 | 9 | 24 | 0 | 351 | 494 | 436 | 410 | 436 | 95 |
| 29 | 263 | 47 | 19 | 9 | 0 | 0 | 350 | 494 | 437 | 410 | 437 | 95 |
| 30 | 263 | 45 | 19 | 9 | 0 | 0 | 350 | 485 | 437 | 425 | 422 | 94 |
| 31 | 261 | | 20 | 9 | 0 | 0 | | 473 | | 436 | 391 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 458 | 261 | 352 | 21,630 | | |
| November | | | | | | | 205 | 45 | 85.8 | 4,990 | | |
| December | | | | | | | 42 | 16 | 31.5 | 1,940 | | |
| January | | | | | | | 20 | 9 | 13.2 | 813 | | |
| February | | | | | | | 24 | 7 | 13.1 | 726 | | |
| March | | | | | | | 24 | 0 | 7.7 | 476 | | |
| April | | | | | | | 351 | 0 | 107 | 6,380 | | |
| May | | | | | | | 552 | 449 | 523 | 32,130 | | |
| June | | | | | | | 473 | 431 | 440 | 26,180 | | |
| July | | | | | | | 437 | 366 | 425 | 25,990 | | |
| August | | | | | | | 437 | 321 | 431 | 26,530 | | |
| September | | | | | | | 395 | 80 | 292 | 17,350 | | |
| The year | | | | | | | 552 | 0 | 228 | 165,100 | | |

Hammond (East Side) Canal near Collinston, Utah

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 27, T. 13 N., R. 2 W., at Wheelon siding on Oregon Short Line Railroad, 3,600 feet below Cutler Dam and 4 miles north of Collinston.

Records available.- June 1912 to September 1934.

Average discharge.- 15 years (1917-21, 1922-23, 1924-34), 51.7 second-feet.

Remarks.- Records good. Canal diverts from east side of Bear River in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 13 N., R. 2 W., at same diversion dam as West Side Canal and Cutler power plant. Gage-height record furnished by Utah Power & Light Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 115 | 48 | | | | | 0 | 130 | 96 | 99 | 92 | 77 |
| 2 | 114 | 26 | | | | | 0 | 137 | 96 | 98 | 91 | 77 |
| 3 | 113 | 20 | | | | | 0 | 160 | 96 | 98 | 91 | 76 |
| 4 | 113 | 23 | | | | | 0 | 160 | 96 | 97 | 91 | 76 |
| 5 | 113 | 25 | | | | | 0 | 160 | 96 | 96 | 91 | 76 |
| 6 | 112 | 25 | | | | | 0 | 155 | 95 | 95 | 91 | 76 |
| 7 | 109 | 24 | | | | | 0 | 148 | 97 | 97 | 91 | 77 |
| 8 | 121 | 24 | | | | | 0 | 148 | 97 | 97 | 91 | 78 |
| 9 | 138 | 24 | | | | | 0 | 133 | 96 | 96 | 91 | 77 |
| 10 | 138 | 21 | | | | | 0 | 131 | 88 | 95 | 91 | 77 |
| 11 | 131 | 19 | | | | | 0 | 121 | 89 | 95 | 91 | 109 |
| 12 | 123 | 19 | | | | | 0 | 107 | 96 | 95 | 91 | 108 |
| 13 | 123 | 19 | | | | | 0 | 107 | 96 | 96 | 91 | 109 |
| 14 | 123 | 19 | | | | | 0 | 98 | 97 | 95 | 93 | 109 |
| 15 | 115 | 18 | | | | | 0 | 95 | 97 | 95 | 93 | 110 |
| 16 | 100 | 18 | | | | | 0 | 96 | 95 | 95 | 93 | 109 |
| 17 | 94 | 18 | | | | | 0 | 96 | 95 | 94 | 92 | 40 |
| 18 | 84 | 18 | | | | | 29 | 96 | 96 | 94 | 91 | 9 |
| 19 | 73 | 18 | | | | | 33 | 96 | 96 | 94 | 92 | 10 |
| 20 | 76 | 19 | | | | | 0 | 96 | 95 | 95 | 92 | 9 |
| 21 | 81 | 17 | | | | | 0 | 95 | 96 | 95 | 92 | 3 |
| 22 | 81 | 0 | | | | | 35 | 95 | 96 | 95 | 92 | 0 |
| 23 | 81 | 0 | | | | | 64 | 94 | 97 | 97 | 89 | 0 |
| 24 | 82 | 0 | | | | | 74 | 95 | 97 | 95 | 86 | 52 |
| 25 | 82 | 0 | | | | | 92 | 95 | 97 | 95 | 86 | 50 |
| 26 | 81 | 0 | | | | | 91 | 103 | 97 | 95 | 86 | 46 |
| 27 | 81 | 0 | | | | | 91 | 109 | 97 | 95 | 85 | 46 |
| 28 | 81 | 0 | | | | | 90 | 107 | 97 | 95 | 85 | 46 |
| 29 | 82 | 0 | | | | | 92 | 107 | 97 | 95 | 85 | 48 |
| 30 | 82 | 0 | | | | | 92 | 102 | 98 | 95 | 82 | 50 |
| 31 | 81 | | | | | | | 96 | | 95 | 76 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 138 | 73 | 101 | 6,190 | | |
| November | | | | | | | 48 | 0 | 15.4 | 916 | | |
| December | | | | | | | 0 | 0 | 0 | 0 | | |
| January | | | | | | | 0 | 0 | 0 | 0 | | |
| February | | | | | | | 0 | 0 | 0 | 0 | | |
| March | | | | | | | 0 | 0 | 0 | 0 | | |
| April | | | | | | | 92 | 0 | 26.1 | 1,550 | | |
| May | | | | | | | 160 | 94 | 115 | 7,070 | | |
| June | | | | | | | 98 | 88 | 95.8 | 5,700 | | |
| July | | | | | | | 99 | 94 | 95.6 | 5,880 | | |
| August | | | | | | | 93 | 76 | 89.5 | 5,500 | | |
| September | | | | | | | 110 | 0 | 61.0 | 3,630 | | |
| The year | | | | | | | 160 | 0 | 50.3 | 36,440 | | |

Note.- No flow during months left blank.

Devil Creek near Malad, Idaho

Location.- Staff gage in sec. 8, T. 14 S., R. 36 E., 400 feet below dam site for proposed reservoir, half a mile northeast of St. John, 2½ miles northwest of Malad, and 9 miles by stream above confluence with Malad River.

Records available.- October 1931 to September 1934.

Extremes.- Maximum discharge during year, 5.5 second-feet Aug. 30 (gage height, 0.52 foot); minimum, 0.5 second-foot Sept. 10 (gage height, 0.11 foot).

1931-34: Maximum discharge, 20 second-feet Apr. 18, May 6, 1933; maximum gage height, 1.34 feet May 6, 1933; minimum gage height and discharge, those of Sept. 10, 1934.

Remarks.- Records good. Flow regulated by Evans Dividers (an irrigation diversion works) 3 miles upstream. Several small diversions above this station. Stream receives a part of Birch Creek water above station. Malad power plant with a small reservoir on Birch Creek may cause slight diurnal fluctuation.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 3.2 | *4.0 | 2.1 | *2.6 | *2.0 | *3.4 | *3.8 | 3.5 | 1.2 | 2.3 | 2.3 | 2.3 |
| 2 | *2.8 | 4.6 | *2.0 | 2.5 | 2.0 | 3.5 | 4.0 | 3.4 | 1.2 | 2.4 | 2.5 | 2.3 |
| 3 | 2.4 | *3.8 | 2.0 | *2.4 | *2.0 | *3.5 | 3.6 | 3.5 | 2.5 | 2.4 | 3.4 | 2.2 |
| 4 | *2.6 | 3.2 | *2.0 | 2.3 | *1.9 | 3.5 | 4.0 | 3.5 | 2.5 | 2.4 | 3.5 | 2.3 |
| 5 | 2.8 | 2.2 | 2.0 | *2.2 | 1.9 | *3.4 | 3.5 | 3.2 | 2.5 | 2.4 | 3.5 | 2.2 |
| 6 | *3.1 | *2.2 | *2.0 | 2.0 | *1.9 | 3.2 | 3.6 | 3.4 | 2.6 | 2.2 | 3.6 | 2.2 |
| 7 | 3.4 | 2.1 | 2.0 | *2.0 | 1.9 | *3.0 | 3.6 | 3.2 | 2.8 | 2.0 | 3.6 | .8 |
| 8 | 3.2 | 2.2 | 2.0 | 2.1 | *1.9 | 2.7 | *3.6 | 3.1 | 3.0 | 2.2 | 3.5 | .8 |
| 9 | 4.1 | 2.2 | *2.0 | *2.0 | 1.9 | 2.9 | 3.6 | 2.0 | 2.8 | 1.6 | 3.8 | .9 |
| 10 | 4.2 | 2.2 | 2.0 | 2.0 | *1.9 | 3.0 | 3.5 | 1.7 | 2.6 | 1.0 | 3.0 | .6 |
| 11 | 3.3 | 2.2 | 2.0 | 2.0 | *1.9 | 2.6 | 3.5 | 1.5 | 2.5 | 1.0 | 2.3 | 2.3 |
| 12 | 3.3 | 2.2 | *2.2 | *2.0 | 1.9 | *2.8 | 3.8 | 1.5 | 1.8 | 2.3 | 2.3 | 2.4 |
| 13 | 3.4 | *2.2 | 2.4 | 2.0 | 1.9 | 2.9 | 3.6 | 1.5 | 1.0 | 2.3 | 2.3 | 2.4 |
| 14 | *3.4 | 2.2 | *2.2 | 2.0 | 1.9 | 2.9 | 3.8 | 1.4 | 1.0 | 3.1 | 2.2 | 2.5 |
| 15 | 3.3 | 2.2 | 2.1 | *2.0 | *1.9 | 3.1 | 3.5 | 1.4 | 1.0 | 3.1 | 2.4 | 2.5 |
| 16 | 3.0 | *2.2 | 1.9 | 2.0 | 1.9 | *3.2 | 3.5 | 1.6 | 1.0 | 3.1 | 2.4 | 2.6 |
| 17 | 2.7 | 2.1 | 1.9 | *2.0 | 1.8 | 3.2 | 3.6 | 1.4 | 1.0 | 3.1 | 2.4 | 2.5 |
| 18 | *2.7 | 2.1 | 2.2 | 2.0 | 1.8 | 3.2 | 3.5 | 1.5 | 1.0 | 3.1 | 2.6 | 2.8 |
| 19 | 2.7 | 2.2 | *2.2 | *2.0 | *1.8 | 3.2 | 3.5 | 1.4 | 1.0 | 3.0 | 2.5 | 2.6 |
| 20 | 2.4 | 2.2 | 2.2 | 2.0 | 1.8 | 3.2 | 3.5 | 1.2 | 1.0 | 3.1 | 2.2 | 2.8 |
| 21 | 2.7 | *2.2 | *2.2 | *2.0 | *1.8 | 3.4 | 3.8 | 1.2 | 1.0 | 2.9 | 2.2 | 2.9 |
| 22 | 2.8 | 2.1 | 2.2 | 2.0 | 1.8 | 3.4 | 3.2 | 1.1 | 1.0 | 2.0 | 2.3 | 3.1 |
| 23 | 2.6 | 2.1 | *2.3 | *2.0 | *1.8 | 3.4 | 3.2 | 1.1 | 1.0 | 2.1 | 2.3 | *4.0 |
| 24 | *3.1 | *2.1 | *2.5 | 2.0 | 1.8 | 3.5 | 3.2 | 1.1 | 2.0 | 2.1 | 3.0 | 5.0 |
| 25 | *3.5 | 2.1 | 2.6 | *2.0 | *1.8 | 3.6 | 3.5 | 1.0 | 2.6 | 1.5 | 3.6 | 3.6 |
| 26 | 4.0 | 2.1 | *2.6 | 2.0 | 1.9 | 3.4 | 3.6 | 1.1 | 2.5 | .7 | 3.9 | 3.6 |
| 27 | 4.0 | *2.1 | 2.6 | *2.0 | *2.6 | 3.5 | 3.5 | 1.0 | 2.5 | .7 | 3.1 | 3.4 |
| 28 | 3.8 | 2.1 | 2.6 | 2.0 | 3.2 | 3.6 | 3.5 | 1.0 | 2.5 | 1.2 | 2.3 | 3.0 |
| 29 | 4.2 | 2.1 | *2.6 | 2.0 | | 3.8 | 3.4 | 1.2 | 2.3 | 2.3 | 2.3 | 1.8 |
| 30 | *3.9 | *2.1 | 2.6 | *2.0 | | 3.8 | 3.5 | 1.1 | 2.3 | 1.9 | 3.9 | *1.7 |
| 31 | 3.6 | | 2.6 | 2.0 | | 3.5 | | 1.0 | | 2.3 | 2.4 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 4.2 | 2.4 | 3.23 | 199 | | |
| November | | | | | | | 4.5 | 2.1 | 2.38 | 142 | | |
| December | | | | | | | 2.6 | 1.9 | 2.22 | 136 | | |
| January | | | | | | | 2.6 | 2.0 | 2.07 | 127 | | |
| February | | | | | | | 3.2 | 1.8 | 1.95 | 108 | | |
| March | | | | | | | 3.8 | 2.6 | 3.27 | 201 | | |
| April | | | | | | | 4.0 | 3.2 | 3.57 | 212 | | |
| May | | | | | | | 3.5 | 1.0 | 1.83 | 113 | | |
| June | | | | | | | 3.0 | 1.0 | 1.86 | 110 | | |
| July | | | | | | | 3.1 | .7 | 2.19 | 134 | | |
| August | | | | | | | 3.9 | 2.2 | 2.83 | 174 | | |
| September | | | | | | | 5.0 | .6 | 2.47 | 147 | | |
| The year | | | | | | | 5.0 | .6 | 2.49 | 1,800 | | |

*Interpolated.

Deep Creek below First Creek, near Malad, Idaho

Location.- Staff gage in sec. 7, T. 14 S., R. 37 E., immediately below proposed reservoir site, 1 mile north and $3\frac{1}{2}$ miles east of Malad, and 12 miles by stream above confluence of Deep Creek and Malad River.

Records available.- October 1931 to September 1934.

Extremes.- Maximum discharge during year, 5.5 second-feet Apr. 6; minimum, 0.3 second-foot Aug. 29.

1932-34: Maximum discharge, 64 second-feet May 14, 1932; minimum, that of Aug. 29, 1934.

Remarks.- Records good. Small diversions above station. No regulation.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|---------|------|---------|------|------|------|-------------------------|
| 1 | 2.5 | 2.2 | 2.6 | 2.5 | 2.7 | 3.4 | 5.2 | 3.9 | 2.1 | 1.4 | 0.5 | 0.4 |
| 2 | 2.4 | 2.1 | 2.5 | 2.5 | 2.9 | 3.2 | 5.2 | 4.0 | 2.2 | 1.3 | .4 | .5 |
| 3 | 2.6 | 2.4 | 2.4 | 2.6 | 2.6 | 3.3 | 5.0 | 3.9 | 2.1 | 1.6 | .5 | .4 |
| 4 | 2.2 | 2.6 | 2.5 | 2.5 | 2.7 | 3.2 | 5.2 | 3.7 | 2.0 | 1.5 | .5 | .5 |
| 5 | 2.4 | 2.7 | 2.6 | 2.6 | 2.9 | 3.3 | 5.4 | 3.6 | 1.9 | 1.4 | .4 | .4 |
| 6 | 2.6 | 2.6 | 2.5 | 2.4 | 3.0 | 3.4 | 5.5 | 3.6 | 2.1 | 1.3 | .4 | .4 |
| 7 | 2.8 | 2.5 | 2.4 | 2.5 | 3.2 | 3.4 | 5.2 | 3.4 | 2.5 | 1.2 | .4 | .4 |
| 8 | 2.4 | 2.4 | 2.2 | 2.6 | 3.0 | 3.3 | 4.7 | 3.6 | 2.4 | 1.1 | .4 | .4 |
| 9 | 2.5 | 2.5 | 2.5 | 2.7 | 2.7 | 3.0 | 4.8 | 3.4 | 2.4 | 1.0 | .4 | .4 |
| 10 | 2.6 | 2.6 | 2.4 | 2.9 | 2.6 | 3.2 | 5.0 | 3.4 | 2.2 | 1.0 | .5 | .4 |
| 11 | 2.2 | 2.4 | 2.5 | 2.7 | 2.8 | 3.4 | 4.7 | 3.7 | 2.4 | .8 | .6 | .4 |
| 12 | 2.4 | 2.5 | 2.6 | 2.6 | 3.0 | 3.6 | 4.5 | 3.4 | 2.1 | .7 | .4 | .4 |
| 13 | 2.5 | 2.4 | 2.7 | 2.6 | 2.9 | 3.7 | 4.5 | 3.3 | 2.2 | .6 | .5 | .4 |
| 14 | 2.6 | 2.5 | 2.5 | 2.5 | 3.0 | 3.7 | 4.3 | 3.2 | 2.4 | .5 | .6 | .5 |
| 15 | 2.2 | 2.6 | 2.6 | 2.6 | 3.2 | 3.6 | 5.2 | 3.2 | 2.2 | .4 | .7 | .5 |
| 16 | 2.4 | 2.5 | 2.2 | 2.7 | 3.0 | 3.4 | 4.8 | 3.0 | 2.4 | .5 | .4 | .4 |
| 17 | 2.5 | 2.4 | 2.1 | 2.9 | 3.2 | 3.6 | 4.7 | 2.9 | 2.4 | .5 | .5 | .4 |
| 18 | 2.6 | 2.6 | 2.2 | 2.5 | 3.0 | 3.7 | 4.7 | 2.9 | 2.2 | .6 | .4 | .4 |
| 19 | 2.6 | 2.4 | 2.4 | 2.7 | 2.9 | 3.6 | 4.5 | 3.0 | 2.1 | .6 | .4 | .4 |
| 20 | 2.7 | 2.5 | 2.5 | 2.9 | 3.2 | 3.7 | 4.3 | 2.9 | 2.0 | .8 | .4 | .4 |
| 21 | 2.9 | 2.6 | 2.6 | 2.5 | 3.2 | 4.0 | 4.5 | 2.7 | 2.1 | .7 | .4 | .5 |
| 22 | 2.7 | 2.5 | 2.5 | 2.6 | 3.3 | 4.7 | 4.7 | 2.6 | 2.0 | .8 | .4 | .4 |
| 23 | 2.9 | 2.4 | 2.4 | 2.7 | 3.4 | 4.5 | 4.5 | 2.6 | 2.1 | .7 | .4 | .7 |
| 24 | 3.0 | 2.5 | 2.5 | 2.9 | 3.3 | 4.7 | 4.3 | 2.5 | 1.9 | .8 | .4 | .8 |
| 25 | 2.5 | 2.6 | 2.4 | 3.0 | 3.4 | 4.8 | 4.5 | 2.4 | 1.8 | .7 | .4 | .7 |
| 26 | 2.6 | 2.4 | 2.2 | 2.7 | 3.3 | 4.7 | 4.8 | 2.2 | 1.6 | .6 | .4 | .8 |
| 27 | 2.5 | 2.5 | 2.6 | 2.9 | 3.3 | 4.5 | 4.0 | 2.4 | 1.9 | .5 | .4 | .7 |
| 28 | 2.6 | 2.6 | 2.2 | 2.9 | 3.2 | 4.8 | 3.2 | 2.2 | 1.8 | .5 | .5 | .8 |
| 29 | 2.6 | 2.4 | 2.4 | 2.7 | | 4.7 | 3.6 | 2.2 | 1.6 | .5 | .3 | .9 |
| 30 | 2.7 | 2.5 | 2.6 | 3.0 | | 5.0 | 3.7 | 2.1 | 1.4 | .5 | .4 | .9 |
| 31 | 2.5 | | 2.6 | 2.6 | | 5.2 | | 2.0 | | .8 | .4 | |
| Month | | | | | | Maximum | | Minimum | | Mean | | Run-off in acre-feet |
| October | | | | | | 3.0 | | 2.2 | | 2.55 | | 157 |
| November | | | | | | 2.7 | | 2.1 | | 2.48 | | 148 |
| December | | | | | | 2.7 | | 2.1 | | 2.45 | | 151 |
| January | | | | | | 3.0 | | 2.4 | | 2.67 | | 164 |
| February | | | | | | 3.4 | | 2.6 | | 3.04 | | 169 |
| March | | | | | | 5.2 | | 3.0 | | 3.88 | | 239 |
| April | | | | | | 5.5 | | 3.2 | | 4.64 | | 276 |
| May | | | | | | 4.0 | | 2.0 | | 3.03 | | 186 |
| June | | | | | | 2.5 | | 1.4 | | 2.08 | | 124 |
| July | | | | | | 1.6 | | .4 | | .84 | | 52 |
| August | | | | | | .7 | | .3 | | .44 | | 27 |
| September | | | | | | .9 | | .4 | | .52 | | 31 |
| The year | | | | | | 5.5 | | .3 | | 2.38 | | 1,720 |

Weber River near Oakley, Utah.

Location.- Water-stage recorder in NE $\frac{1}{4}$ sec. 15, T. 1 S., R. 6 E., near mouth of canyon, about 2 miles below South Fork of Weber River, 3 miles northeast of Oakley, and 6 miles above Beaver or Kamas Creek. Prior to Oct. 26, 1932, staff gage a quarter of a mile downstream was used.

Drainage area.- 163 square miles.

Records available.- October 1904 to September 1934.

Average discharge.- 28 years (1906-34), 246 second-feet.

Extremes.- Maximum discharge during year, 708 second-feet May 9 (gage height, 2.96 feet); minimum, 26 second-feet Apr. 27 (gage height, 1.19 feet).
1904-34: Maximum discharge recorded, 4,000 second-feet July 6, 1907, and June 5-7, 1909; minimum, that of Apr. 27, 1934.

Remarks.- Records good except those estimated for period of ice effect, Dec. 3-29, Jan. 5-17, Jan. 19 to Feb. 5, Feb. 11-13, and July 17-22, which are fair. No large diversions above gage. Flow regulated slightly by storage in Fish Lake and a small reservoir on Smith and Morehouse Creek; total capacity of both reservoirs, about 1,500 acre-feet.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 46 | 50 | 41 | 43 | 40 | 44 | 64 | 362 | 134 | 51 | 35 | 50 |
| 2 | 46 | 45 | 42 | 43 | 41 | 45 | 64 | 315 | 132 | 52 | 34 | 44 |
| 3 | 46 | 48 | | 44 | 41 | 46 | 59 | 258 | 121 | 56 | 33 | 33 |
| 4 | 46 | 48 | | 45 | 40 | 45 | 54 | 258 | 114 | 59 | 34 | 42 |
| 5 | 46 | 50 | | | 41 | 48 | 56 | 368 | 107 | 62 | 40 | 42 |
| 6 | 46 | 51 | | | 42 | 46 | 56 | 502 | 107 | 60 | 61 | 41 |
| 7 | 46 | 48 | | | 41 | 46 | 59 | 564 | 107 | 56 | 45 | 38 |
| 8 | 46 | 44 | | | 43 | 45 | 66 | 608 | 96 | 54 | 38 | 33 |
| 9 | 46 | 44 | | | 42 | 44 | 75 | 608 | 93 | 45 | 40 | 33 |
| 10 | 46 | 44 | | | 43 | 44 | 80 | 564 | 86 | 44 | 41 | 32 |
| 11 | 46 | 43 | | | 43 | 45 | 84 | 571 | 76 | 43 | 36 | 32 |
| 12 | 46 | 43 | | | 43 | 46 | 107 | 564 | 71 | 40 | 33 | 31 |
| 13 | 50 | 49 | | | 43 | 50 | 143 | 508 | 71 | 37 | 33 | 30 |
| 14 | 46 | 46 | | | 44 | 55 | 140 | 408 | 71 | 34 | 33 | 30 |
| 15 | 46 | 39 | | | 43 | 58 | 146 | 374 | 73 | 33 | 36 | 31 |
| 16 | 44 | 41 | | | 43 | 60 | 155 | 362 | 76 | 33 | 35 | 32 |
| 17 | 44 | 41 | | | 42 | 56 | 164 | 325 | 71 | 33 | 34 | 31 |
| 18 | 44 | 41 | | *47 | 42 | 54 | 174 | 295 | 75 | 34 | 33 | 30 |
| 19 | 44 | 44 | | | 43 | 58 | 220 | 267 | 82 | 34 | 33 | 30 |
| 20 | 44 | 43 | | | 44 | 60 | 272 | 240 | 76 | 35 | 33 | 31 |
| 21 | 44 | 43 | | | 44 | 64 | 335 | 194 | 70 | 35 | 33 | 29 |
| 22 | 44 | 43 | | | 43 | 68 | 384 | 184 | 65 | 36 | 32 | 28 |
| 23 | 44 | 42 | | | 44 | 65 | 368 | 184 | 60 | 37 | 30 | 28 |
| 24 | 44 | 42 | | | 48 | 64 | 450 | 201 | 62 | 37 | 30 | 32 |
| 25 | 46 | 41 | | | 45 | 65 | 463 | 174 | 66 | 37 | 28 | 33 |
| 26 | 45 | 41 | | | 44 | 64 | 374 | 155 | 60 | 33 | 27 | 33 |
| 27 | 46 | 41 | | | 44 | 66 | 379 | 149 | 56 | 33 | 27 | 33 |
| 28 | 48 | 43 | | | 44 | 68 | 290 | 137 | 54 | 36 | 28 | 33 |
| 29 | 46 | 41 | | | | 82 | 305 | 140 | 52 | 38 | 30 | 32 |
| 30 | 45 | 40 | 43 | | | 80 | 357 | 152 | 58 | 37 | 31 | 31 |
| 31 | 50 | | 44 | 40 | | 75 | | 134 | | 38 | 30 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 50 | 44 | 45.7 | 2,810 | | |
| November | | | | | | | 51 | 39 | 44.0 | 2,620 | | |
| December | | | | | | | | | 42 | 2,580 | | |
| January | | | | | | | | | 43 | 2,640 | | |
| February | | | | | | | 48 | 40 | 42.9 | 2,390 | | |
| March | | | | | | | 82 | 43 | 56.6 | 3,480 | | |
| April | | | | | | | 463 | 54 | 198 | 11,790 | | |
| May | | | | | | | 608 | 134 | 327 | 20,080 | | |
| June | | | | | | | 134 | 52 | 81.4 | 4,840 | | |
| July | | | | | | | 62 | 33 | 41.7 | 2,560 | | |
| August | | | | | | | 61 | 27 | 34.4 | 2,110 | | |
| September | | | | | | | 44 | 28 | 32.9 | 1,960 | | |
| The year | | | | | | | 608 | 27 | 82.7 | 59,850 | | |

*Discharge measurement.

Weber River near Coalville, Utah

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

Drainage area.- 438 square miles.

Records available.- April 1927 to September 1934.

Extremes.- Maximum discharge during year, 490 second-feet May 9 (gage height, 2.00 feet); minimum, 6 second-feet Sept. 20 (gage height, -0.23 foot).
1927-34: Maximum discharge, 1,960 second-feet June 17, 1929 (gage height, 4.30 feet); minimum, that of Sept. 20, 1934.

Remarks.- Records good except those for period of ice effect, Dec. 10 to Feb. 23, which were estimated. Numerous irrigation diversions above and below station. About 2,470 acre-feet was diverted through the Weber-Provo diversion canal. Flow slightly regulated by two small reservoirs above station.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|---------|------|---------|------|----------------------|------|-------|
| 1 | 37 | 68 | 102 | | | 139 | 97 | 70 | 56 | 22 | 16 | 12 |
| 2 | 39 | 74 | 93 | | | 145 | 91 | 97 | 51 | 20 | 15 | 12 |
| 3 | 39 | 84 | 90 | | | 175 | 90 | 83 | 52 | 20 | 14 | 11 |
| 4 | 37 | 88 | 95 | | | 161 | 84 | 79 | 52 | 19 | 15 | 10 |
| 5 | 37 | 83 | 88 | | | 187 | 91 | 172 | 44 | 18 | 19 | 10 |
| 6 | 36 | 79 | 88 | | | 209 | 93 | 261 | 42 | 15 | 47 | 9 |
| 7 | 37 | 83 | 86 | | | 175 | 88 | 313 | 54 | 17 | 44 | 9 |
| 8 | 38 | 86 | 76 | | | 124 | 86 | 409 | 58 | 16 | 28 | 9 |
| 9 | 37 | 88 | 97 | | | 118 | 83 | 436 | 60 | 18 | 28 | 9 |
| 10 | 38 | 86 | | | | 120 | 83 | 409 | 70 | 16 | 27 | 9 |
| 11 | 39 | 90 | | | | 118 | 67 | 400 | 60 | 14 | 26 | 9 |
| 12 | 40 | 91 | | | 120 | 118 | 67 | 414 | 51 | 12 | 25 | 9 |
| 13 | 40 | 91 | | | | 114 | 75 | 368 | 44 | 12 | 24 | 8 |
| 14 | 40 | 93 | | | | 110 | 74 | 299 | 41 | 10 | 24 | 9 |
| 15 | 40 | 90 | | | | 106 | 68 | 255 | 42 | 9 | 25 | 9 |
| 16 | 40 | 91 | | | | 104 | 64 | 244 | 46 | 9 | 24 | 9 |
| 17 | 42 | 90 | | | | 97 | 61 | 214 | 40 | 9 | 22 | 9 |
| 18 | 41 | 91 | | | | 91 | 56 | 187 | 38 | 8 | 21 | 7 |
| 19 | 42 | 88 | | | | 93 | 44 | 175 | 35 | 11 | 21 | 7 |
| 20 | 41 | 88 | | | | 93 | 49 | 162 | 41 | 12 | 21 | 8 |
| 21 | 41 | 91 | 110 | | | 91 | 33 | 126 | 45 | 14 | 19 | 8 |
| 22 | 41 | 91 | | | | 97 | 32 | 81 | 41 | 19 | 19 | 8 |
| 23 | 42 | 93 | | | | 97 | 42 | 58 | 35 | 18 | 17 | 9 |
| 24 | 42 | 91 | | | | 175 | 91 | 61 | 32 | 17 | 16 | 12 |
| 25 | 44 | 91 | | | | 169 | 91 | 84 | 39 | 17 | 14 | 15 |
| 26 | 45 | 90 | | | | 141 | 90 | | 34 | 16 | 14 | 14 |
| 27 | 47 | 90 | | | | 145 | 90 | 101 | 79 | 32 | 16 | 13 |
| 28 | 53 | 97 | | | | 147 | 88 | 58 | 66 | 29 | 15 | 14 |
| 29 | 51 | 102 | | | | 90 | 48 | 61 | 26 | 14 | 16 | 10 |
| 30 | 46 | 99 | | | | 93 | 57 | 68 | 25 | 14 | 13 | 10 |
| 31 | 51 | | | | | 101 | | 73 | | 14 | 12 | |
| Month | | | | | | Maximum | | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | 53 | | 36 | 41.4 | 2,540 | | |
| November | | | | | | 102 | | 68 | 88.6 | 5,270 | | |
| December | | | | | | | | | 104 | 6,420 | | |
| January | | | | | | | | | 100 | 6,150 | | |
| February | | | | | | | | | 126 | 7,000 | | |
| March | | | | | | 209 | | 88 | 117 | 7,170 | | |
| April | | | | | | 101 | | 32 | 69.6 | 4,140 | | |
| May | | | | | | 436 | | 58 | 189 | 11,640 | | |
| June | | | | | | 70 | | 25 | 43.8 | 2,610 | | |
| July | | | | | | 22 | | 8 | 14.9 | 914 | | |
| August | | | | | | 47 | | 12 | 21.1 | 1,300 | | |
| September | | | | | | 15 | | 7 | 9.8 | 583 | | |
| The year | | | | | | 436 | | 7 | 77.0 | 55,740 | | |

Echo Reservoir at Echo, Utah

Location.- Temporary staff gages in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 3 N., R. 5 E., near outlet works at left end of Echo Dam, 1 mile southeast of Echo, Utah.

Records available.- October 1930 to September 1934.

Remarks.- Echo Dam, constructed by the U. S. Bureau of Reclamation and completed in 1931, has an impounding capacity of 74,000 acre-feet. Gage-height record furnished by Weber River water commissioner.

Contents, in acre-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1 | 11,940 | 11,250 | 11,280 | 15,200 | 20,280 | 27,820 | 35,780 | 31,490 | 25,480 | 14,700 | 4,990 | 580 |
| 2 | 11,880 | 11,220 | 11,280 | 15,470 | 20,430 | 28,090 | 35,980 | 31,120 | 25,120 | 14,310 | 4,810 | 454 |
| 3 | 11,820 | 11,220 | 11,280 | 15,840 | 20,580 | 28,400 | 36,180 | 30,790 | 24,740 | 13,790 | 4,640 | 404 |
| 4 | 11,760 | 11,250 | 11,280 | 16,080 | 20,770 | 28,760 | 36,390 | 30,470 | 24,350 | 13,380 | 4,480 | 346 |
| 5 | 11,680 | 11,250 | 11,250 | 16,340 | 20,890 | 29,040 | 36,590 | 30,140 | 23,970 | 12,980 | 4,320 | 304 |
| 6 | 11,650 | 11,250 | 11,200 | 16,520 | 21,240 | 29,540 | 36,790 | 30,000 | 23,550 | 12,550 | 4,200 | 290 |
| 7 | 11,620 | 11,250 | 11,250 | 16,650 | 21,510 | 29,960 | 37,050 | 29,960 | 23,170 | 12,110 | 4,110 | 275 |
| 8 | 11,590 | 11,250 | 11,280 | 16,760 | 21,830 | 30,280 | 37,260 | 30,000 | 22,880 | 11,700 | 4,030 | 258 |
| 9 | 11,590 | 11,250 | 11,280 | 16,830 | 22,150 | 30,560 | 37,460 | 30,240 | 22,720 | 11,310 | 3,910 | 245 |
| 10 | 11,590 | 11,250 | 11,280 | 16,930 | 22,430 | 30,790 | 37,670 | 30,470 | 22,510 | 10,920 | 3,800 | 238 |
| 11 | 11,560 | 11,280 | 11,280 | 17,070 | 22,640 | 31,020 | 37,880 | 30,660 | 22,370 | 10,540 | 3,690 | 230 |
| 12 | 11,530 | 11,280 | 11,310 | 17,180 | 22,800 | 31,300 | 37,930 | 30,840 | 22,110 | 10,160 | 3,590 | 222 |
| 13 | 11,530 | 11,280 | 11,360 | 17,280 | 22,960 | 31,540 | 37,930 | 30,830 | 21,830 | 9,770 | 3,470 | 212 |
| 14 | 11,500 | 11,280 | 11,560 | 17,460 | 23,210 | 31,770 | 37,930 | 31,020 | 21,510 | 9,410 | 3,340 | 200 |
| 15 | 11,500 | 11,280 | 11,790 | 17,640 | 23,460 | 32,010 | 37,880 | 31,020 | 21,080 | 9,020 | 3,220 | 186 |
| 16 | 11,480 | 11,280 | 11,960 | 17,820 | 23,760 | 32,250 | 37,880 | 30,930 | 20,730 | 8,650 | 3,120 | 173 |
| 17 | 11,480 | 11,280 | 12,140 | 17,920 | 24,100 | 32,480 | 37,830 | 30,840 | 20,350 | 8,300 | 2,990 | 158 |
| 18 | 11,480 | 11,280 | 12,260 | 18,070 | 24,390 | 32,730 | 37,830 | 30,700 | 19,940 | 7,940 | 2,860 | 143 |
| 19 | 11,450 | 11,280 | 12,460 | 18,210 | 24,700 | 32,960 | 37,460 | 30,470 | 19,520 | 7,600 | 2,750 | 123 |
| 20 | 11,450 | 11,250 | 12,700 | 18,350 | 25,000 | 33,160 | 37,000 | 30,190 | 19,080 | 7,250 | 2,640 | 98 |
| 21 | 11,420 | 11,250 | 12,920 | 18,540 | 25,300 | 33,400 | 36,440 | 29,780 | 18,640 | 6,960 | 2,490 | 72 |
| 22 | 11,390 | 11,250 | 13,130 | 18,680 | 25,610 | 33,600 | 35,980 | 29,340 | 18,280 | 6,710 | 2,330 | 30 |
| 23 | 11,360 | 11,250 | 13,320 | 18,820 | 25,870 | 33,840 | 35,430 | 28,900 | 17,850 | 6,490 | 2,170 | 15 |
| 24 | 11,360 | 11,250 | 13,510 | 19,040 | 26,180 | 34,040 | 34,680 | 28,450 | 17,460 | 6,300 | 2,010 | 0 |
| 25 | 11,340 | 11,250 | 13,700 | 19,230 | 26,570 | 34,240 | 34,040 | 28,090 | 17,040 | 6,090 | 1,830 | 0 |
| 26 | 11,340 | 11,250 | 13,920 | 19,340 | 26,980 | 34,440 | 33,550 | 27,680 | 16,700 | 5,950 | 1,650 | 0 |
| 27 | 11,310 | 11,250 | 14,150 | 19,520 | 27,190 | 34,630 | 33,160 | 27,250 | 16,280 | 5,800 | 1,470 | 0 |
| 28 | 11,310 | 11,250 | 14,380 | 19,680 | 27,500 | 34,830 | 32,730 | 26,840 | 15,880 | 5,660 | 1,280 | 0 |
| 29 | 11,280 | 11,280 | 14,570 | 19,820 | | 35,080 | 32,200 | 26,570 | 15,470 | 5,500 | 1,100 | 0 |
| 30 | 11,280 | 11,280 | 14,740 | 20,020 | | 35,280 | 31,870 | 26,180 | 15,060 | 5,340 | 932 | 0 |
| 31 | 11,250 | | 14,970 | 20,180 | | 35,530 | | 25,820 | | 5,180 | 770 | |

Note: Contents on Sept. 30, 1933, was 12,000 acre-feet.

Weber River at Echo, Utah

Location.- Water-stage recorder in NE $\frac{1}{4}$ sec. 25, T. 3 N., R. 4 E., 600 feet above Echo Creek, 2,400 feet downstream from Echo Dam, and 3,200 feet southeast of Echo.

Drainage area.- 732 square miles.

Records available.- April 1927 to September 1934.

Extremes.- Maximum discharge during year, 391 second-feet Apr. 22 (gage height, 2.86 feet); minimum, 4 second-feet Feb. 8 and 9 (gage height, 0.44 foot).

1927-34: Maximum discharge, 2,210 second-feet May 26, 1929; minimum, 4 second-feet several times in May 1931, March and April 1932, February 1934.

Remarks.- Records excellent. Numerous irrigation diversions above and below station. One small diversion between gage and Echo Dam. Flow regulated by Echo Reservoir.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|------|------|------|------|------|------|------|-----|------|------|------|-------|
| 1 | 92 | 89 | 118 | 18 | 34 | 6 | 7 | 292 | 242 | 228 | 100 | 99 |
| 2 | 92 | 89 | 118 | 18 | 34 | 6 | 7 | 292 | 245 | 242 | 94 | 43 |
| 3 | 92 | 83 | 118 | 18 | 34 | 6 | 7 | 283 | 251 | 245 | 97 | 46 |
| 4 | 92 | 96 | 118 | 18 | 34 | 6 | 7 | 280 | 248 | 237 | 99 | 38 |
| 5 | 79 | 100 | 109 | 18 | 20 | 7 | 7 | 283 | 248 | 228 | 96 | 24 |
| 6 | 71 | 100 | 89 | 24 | 11 | 7 | 7 | 295 | 248 | 226 | 94 | 22 |
| 7 | 67 | 100 | 92 | 30 | 7 | 6 | 8 | 311 | 223 | 215 | 94 | 25 |
| 8 | 64 | 100 | 107 | 34 | 4 | 4 | 8 | 305 | 183 | 210 | 94 | 22 |
| 9 | 64 | 100 | 115 | 37 | 7 | 5 | 8 | 295 | 168 | 210 | 91 | 19 |
| 10 | 64 | 100 | 115 | 37 | 23 | 5 | 8 | 308 | 168 | 215 | 85 | 19 |
| 11 | 64 | 106 | 115 | 37 | 32 | 5 | 43 | 324 | 186 | 213 | 85 | 19 |
| 12 | 64 | 107 | 118 | 37 | 27 | 5 | 96 | 328 | 205 | 208 | 89 | 18 |
| 13 | 64 | 107 | 135 | 37 | 12 | 5 | 97 | 321 | 223 | 203 | 92 | 18 |
| 14 | 64 | 113 | 120 | 37 | 6 | 5 | 115 | 311 | 248 | 198 | 92 | 16 |
| 15 | 64 | 115 | 47 | 37 | 6 | 5 | 94 | 305 | 253 | 198 | 92 | 18 |
| 16 | 64 | 115 | 44 | 37 | 6 | 6 | 94 | 295 | 253 | 191 | 91 | 17 |
| 17 | 65 | 115 | 44 | 36 | 6 | 6 | 86 | 292 | 259 | 188 | 91 | 17 |
| 18 | 65 | 115 | 44 | 35 | 6 | 6 | 202 | 308 | 265 | 188 | 89 | 16 |
| 19 | 67 | 115 | 37 | 35 | 6 | 6 | 299 | 321 | 262 | 188 | 88 | 16 |
| 20 | 70 | 115 | 17 | 33 | 6 | 6 | 305 | 341 | 256 | 181 | 97 | 14 |
| 21 | 71 | 115 | 17 | 33 | 6 | 7 | 324 | 352 | 251 | 161 | 104 | 14 |
| 22 | 71 | 115 | 25 | 33 | 6 | 6 | 355 | 308 | 253 | 133 | 102 | 12 |
| 23 | 71 | 115 | 33 | 33 | 6 | 6 | 387 | 277 | 253 | 131 | 102 | 12 |
| 24 | 71 | 115 | 34 | 34 | 6 | 6 | 387 | 277 | 256 | 126 | 104 | 14 |
| 25 | 67 | 115 | 33 | 34 | 6 | 7 | 373 | 277 | 242 | 106 | 106 | 20 |
| 26 | 66 | 115 | 25 | 34 | 6 | 6 | 328 | 271 | 242 | 92 | 104 | 20 |
| 27 | 70 | 109 | 17 | 34 | 6 | 7 | 318 | 268 | 242 | 89 | 107 | 21 |
| 28 | 78 | 106 | 17 | 34 | 6 | 7 | 318 | 262 | 234 | 91 | 111 | 18 |
| 29 | 80 | 113 | 17 | 34 | | 8 | 308 | 259 | 221 | 96 | 109 | 16 |
| 30 | 75 | 116 | 17 | 34 | | 7 | 295 | 253 | 218 | 99 | 106 | 16 |
| 31 | 72 | | 18 | 34 | | 7 | | 248 | | 106 | 115 | |

| Month | Maximum | Minimum | Mean | Run-off in acre-feet |
|-----------|---------|---------|------|-------------------------|
| October | 92 | 64 | 71.6 | 4,030 |
| November | 115 | 83 | 107 | 6,370 |
| December | 135 | 17 | 66.9 | 4,110 |
| January | 37 | 18 | 31.6 | 1,940 |
| February | 34 | 4 | 13.2 | 732 |
| March | 8 | 4 | 6.0 | 371 |
| April | 387 | 7 | 163 | 9,720 |
| May | 352 | 248 | 295 | 18,130 |
| June | 265 | 168 | 255 | 13,980 |
| July | 245 | 89 | 176 | 10,790 |
| August | 115 | 65 | 97.4 | 5,990 |
| September | 99 | 12 | 23.0 | 1,370 |
| The year | 397 | 4 | 108 | 77,530 |

Weber River at Devils Slide, Utah

Location.- Staff gage in SW $\frac{1}{4}$ sec. 19, T. 4 N., R. 4 E., 500 feet downstream from highway bridge at Devils Slide and a quarter of a mile below Lost Creek.

Drainage area.- 1,090 square miles.

Records available.- February 1905 to September 1934.

Average discharge.- 29 years, 492 second-feet.

Extremes.- Maximum discharge recorded during year, 406 second-feet Apr. 23-25 (gage height, 1.86 feet); minimum, 18 second-feet Sept. 23 (gage height, 0.50 foot). 1905-34: Maximum discharge recorded, 6,000 second-feet May 22, 1920; minimum, that of Sept. 23, 1934.

Remarks.- Records fair. Numerous diversions above station for irrigation and domestic use. Flow regulated by storage in Echo Reservoir.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 108 | 93 | 141 | 48 | 59 | 40 | 55 | 286 | 241 | 227 | 103 | 118 |
| 2 | 111 | 93 | 141 | 52 | 63 | 41 | 57 | 290 | 248 | 234 | 99 | 43 |
| 3 | 111 | 106 | 141 | 48 | 63 | 40 | 59 | 279 | 256 | 241 | 94 | 46 |
| 4 | 113 | 106 | 149 | 50 | 63 | 41 | 55 | 279 | 248 | 245 | 99 | 41 |
| 5 | 119 | 114 | 158 | 48 | 65 | 43 | 53 | 286 | 245 | 234 | 101 | 34 |
| 6 | 108 | 124 | 141 | 38 | 50 | 45 | 53 | 294 | 245 | 227 | 99 | 25 |
| 7 | 91 | 124 | 141 | 57 | 48 | 40 | 52 | 319 | 230 | 227 | 99 | 29 |
| 8 | 93 | 124 | 135 | 59 | 43 | 40 | 53 | 319 | 203 | 214 | 99 | 29 |
| 9 | 93 | 124 | 141 | 65 | 41 | 40 | 55 | 286 | 164 | 214 | 99 | 27 |
| 10 | 93 | 124 | 141 | 67 | 52 | 38 | 48 | 302 | 164 | 220 | 99 | 25 |
| 11 | 93 | 124 | 144 | 63 | 55 | 38 | 45 | 319 | 186 | 217 | 85 | 25 |
| 12 | 89 | 130 | 152 | 63 | 59 | 40 | 144 | 323 | 193 | 214 | 89 | 24 |
| 13 | 84 | 135 | 171 | 67 | 48 | 40 | 141 | 315 | 213 | 203 | 94 | 23 |
| 14 | 84 | 135 | 174 | 65 | 40 | 43 | 130 | 306 | 227 | 197 | 94 | 23 |
| 15 | 84 | 141 | 84 | 63 | 39 | 43 | 116 | 302 | 245 | 197 | 94 | 22 |
| 16 | 84 | 138 | 71 | 67 | 38 | 43 | 121 | 294 | 245 | 188 | 89 | 22 |
| 17 | 89 | 141 | 80 | 75 | 38 | 45 | 106 | 282 | 256 | 188 | 89 | 22 |
| 18 | 89 | 141 | 73 | 84 | 37 | 43 | 101 | 282 | 260 | 188 | 89 | 22 |
| 19 | 89 | 138 | 98 | 57 | 37 | 43 | 344 | 306 | 264 | 188 | 89 | 22 |
| 20 | 89 | 135 | 35 | 59 | 40 | 41 | 302 | 335 | 264 | 188 | 94 | 21 |
| 21 | 89 | 135 | 34 | 59 | 41 | 41 | 331 | 352 | 260 | 214 | 99 | 21 |
| 22 | 91 | 138 | 35 | 59 | 41 | 41 | 402 | 351 | 260 | 140 | 99 | 21 |
| 23 | 93 | 138 | 84 | 61 | 38 | 41 | 406 | 271 | 256 | 135 | 99 | 18 |
| 24 | 93 | 141 | 80 | 67 | 46 | 46 | 406 | 271 | 271 | 124 | 94 | 20 |
| 25 | 89 | 141 | 80 | 52 | 43 | 45 | 406 | 271 | 249 | 124 | 96 | 23 |
| 26 | 86 | 135 | 75 | 55 | 41 | 45 | 331 | 271 | 245 | 94 | 99 | 24 |
| 27 | 89 | 132 | 48 | 63 | 38 | 46 | 327 | 263 | 234 | 89 | 99 | 24 |
| 28 | 91 | 130 | 46 | 63 | 40 | 48 | 327 | 262 | 227 | 85 | 103 | 25 |
| 29 | 84 | 130 | 46 | 63 | 50 | 50 | 310 | 252 | 214 | 89 | 108 | 25 |
| 30 | 77 | 141 | 45 | 63 | 52 | 52 | 298 | 241 | 220 | 89 | 101 | 24 |
| 31 | 93 | | 46 | 59 | | 57 | | 234 | | 99 | 106 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 119 | 77 | 93.2 | 5,730 | | |
| November | | | | | | | 141 | 93 | 12.8 | 7,640 | | |
| December | | | | | | | 174 | 45 | 101 | 6,210 | | |
| January | | | | | | | 84 | 37 | 60.0 | 3,690 | | |
| February | | | | | | | 65 | 37 | 45.6 | 2,590 | | |
| March | | | | | | | 57 | 38 | 43.2 | 2,660 | | |
| April | | | | | | | 406 | 45 | 188 | 11,170 | | |
| May | | | | | | | 352 | 234 | 291 | 17,880 | | |
| June | | | | | | | 271 | 164 | 234 | 13,950 | | |
| July | | | | | | | 245 | 85 | 178 | 10,970 | | |
| August | | | | | | | 108 | 85 | 96.5 | 5,930 | | |
| September | | | | | | | 118 | 18 | 26.9 | 1,720 | | |
| The year | | | | | | | 406 | 18 | 125 | 90,140 | | |

Weber River at Gateway, Utah

Location.- Water-stage recorder in NW¼SW¼ sec. 27, T. 5 N., R. 1 E., 2,500 feet below mouth of Strawberry Creek, 800 feet below Union Pacific Railroad bridge, and 2,500 feet above section house at Gateway.

Drainage area.- 1,610 square miles.

Records available.- June to September 1919, July 1920 to September 1934. October 1889 to July 1903 comparable records at a station 1 mile downstream, known as Weber River near Uinta, Utah.

Average discharge.- 14 years (1920-34), 635 second-feet.

Extremes.- Maximum discharge during year, 410 second-feet Apr. 26 (gage height, 1.60 feet); minimum, 45 second-feet Sept. 24 (gage height, 0.23 foot).
1889-1903, 1919-34: Maximum discharge, 7,980 second-feet May 31, 1896;
minimum, that of Sept. 24, 1934.

Remarks.- Records excellent. Numerous diversions for irrigation above and below station. Flow affected by storage in East Canyon Creek and Echo Reservoirs.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 242 | 166 | 191 | 120 | 114 | 112 | 143 | 324 | 290 | 276 | 169 | 166 |
| 2 | 242 | 174 | 191 | 125 | 116 | 120 | 136 | 336 | 298 | 280 | 171 | 143 |
| 3 | 245 | 171 | 194 | 123 | 120 | 129 | 129 | 328 | 301 | 283 | 171 | 91 |
| 4 | 238 | 169 | 197 | 123 | 123 | 116 | 123 | 317 | 309 | 305 | 174 | 79 |
| 5 | 232 | 171 | 185 | 118 | 127 | 148 | 116 | 309 | 305 | 305 | 180 | 73 |
| 6 | 216 | 174 | 185 | 110 | 127 | 138 | 114 | 317 | 313 | 290 | 180 | 67 |
| 7 | 213 | 177 | 166 | 96 | 125 | 125 | 108 | 328 | 332 | 286 | 174 | 63 |
| 8 | 210 | 180 | 180 | 102 | 116 | 114 | 108 | 336 | 298 | 283 | 174 | 62 |
| 9 | 206 | 183 | 197 | 108 | 114 | 110 | 108 | 317 | 262 | 280 | 160 | 58. |
| 10 | 203 | 180 | 203 | 112 | 108 | 110 | 104 | 309 | 252 | 280 | 177 | 54 |
| 11 | 206 | 180 | 203 | 120 | 112 | 116 | 120 | 324 | 248 | 280 | 174 | 53 |
| 12 | 203 | 180 | 210 | 110 | 118 | 116 | 166 | 336 | 255 | 266 | 171 | 52 |
| 13 | 200 | 183 | 229 | 116 | 116 | 118 | 216 | 340 | 262 | 266 | 166 | 53 |
| 14 | 200 | 185 | 245 | 123 | 108 | 118 | 210 | 340 | 280 | 259 | 171 | 52 |
| 15 | 203 | 188 | 197 | 125 | 100 | 118 | 203 | 356 | 301 | 255 | 174 | 51 |
| 16 | 206 | 191 | 160 | 120 | 100 | 120 | 180 | 332 | 298 | 248 | 163 | 51 |
| 17 | 210 | 191 | 140 | 116 | 100 | 112 | 160 | 320 | 290 | 235 | 163 | 50 |
| 18 | 210 | 191 | 125 | 116 | 98 | 110 | 143 | 320 | 305 | 235 | 163 | 49 |
| 19 | 210 | 191 | 129 | 116 | 96 | 110 | 245 | 336 | 317 | 238 | 168 | 49 |
| 20 | 213 | 191 | 127 | 116 | 104 | 110 | 266 | 344 | 320 | 248 | 156 | 49 |
| 21 | 213 | 191 | 114 | 112 | 116 | 112 | 309 | 360 | 313 | 262 | 163 | 49 |
| 22 | 191 | 191 | 112 | 110 | 112 | 116 | 313 | 356 | 305 | 272 | 163 | 48 |
| 23 | 180 | 188 | 125 | 120 | 110 | 118 | 372 | 356 | 305 | 232 | 166 | 46 |
| 24 | 177 | 191 | 125 | 138 | 123 | 114 | 381 | 324 | 320 | 232 | 158 | 52 |
| 25 | 177 | 191 | 125 | 120 | 123 | 112 | 397 | 320 | 340 | 222 | 158 | 53 |
| 26 | 174 | 185 | 125 | 108 | 116 | 108 | 372 | 320 | 305 | 203 | 163 | 51 |
| 27 | 169 | 185 | 125 | 116 | 114 | 108 | 344 | 317 | 313 | 188 | 168 | 50 |
| 28 | 163 | 183 | 116 | 114 | 114 | 112 | 344 | 313 | 305 | 177 | 158 | 52 |
| 29 | 166 | 183 | 116 | 114 | | 134 | 336 | 313 | 294 | 171 | 160 | 52 |
| 30 | 166 | 185 | 118 | 114 | | 131 | 332 | 309 | 276 | 169 | 156 | 51 |
| 31 | 163 | | 120 | 112 | | 156 | | 290 | | 171 | 150 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 245 | 163 | 202 | 12,390 | | |
| November | | | | | | | 191 | 166 | 183 | 10,890 | | |
| December | | | | | | | 245 | 112 | 160 | 9,870 | | |
| January | | | | | | | 136 | 96 | 116 | 7,130 | | |
| February | | | | | | | 127 | 96 | 113 | 6,290 | | |
| March | | | | | | | 156 | 108 | 119 | 7,320 | | |
| April | | | | | | | 397 | 104 | 220 | 13,090 | | |
| May | | | | | | | 360 | 290 | 326 | 20,050 | | |
| June | | | | | | | 340 | 248 | 297 | 17,680 | | |
| July | | | | | | | 305 | 169 | 248 | 15,270 | | |
| August | | | | | | | 180 | 150 | 167 | 10,240 | | |
| September | | | | | | | 166 | 46 | 62.3 | 5,710 | | |
| The year | | | | | | | 397 | 46 | 185 | 133,900 | | |

Weber River near Plain City, Utah

Location.- Chain gage in SE $\frac{1}{4}$ sec. 5, T. 6 N., R. 2 W., at county highway bridge 6 miles above mouth, 1 mile south of Plain City, and 1 mile below mouth of Fourmile Creek.

Drainage area.- 2,060 square miles.

Records available.- May 1905 to September 1934. Records obtained in 1904 by State engineer.

Average discharge.- 27 years (1906-19, 1920-34), 854 second-feet.

Extremes.- Maximum discharge recorded during year, 285 second-feet Feb. 24, 25 (gage height, 5.02 feet); minimum discharge, 1 second-foot or less on many days during June to September.

1904-34: Maximum discharge recorded, 7,580 second-feet June 6, 1909 (gage height, 19.1 feet); practically no flow during latter part of several summers since 1915.

Remarks.- Records poor. Discharge estimated Jan. 24, Aug. 29. In summer practically entire flow of Weber River above station is diverted for irrigation. Flow is affected by storage in Echo and East Canyon Creek Reservoirs.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 29 | 44 | 131 | 211 | 214 | 255 | 201 | 14 | 2 | 1 | 1 | 1 |
| 2 | 29 | 45 | 138 | 208 | 208 | 249 | 232 | 15 | 3 | 1 | 1 | 1 |
| 3 | 33 | 45 | 152 | 227 | 211 | 276 | 159 | 16 | 3 | 1 | 1 | 1 |
| 4 | 32 | 45 | 152 | 243 | 214 | 255 | 156 | 15 | 2 | 1 | 1 | 1 |
| 5 | 34 | 50 | 152 | 232 | 232 | 255 | 156 | 13 | 2 | 1 | 1 | 1 |
| 6 | 33 | 49 | 152 | 229 | 236 | 282 | 108 | 13 | 4 | 1 | 1 | 1 |
| 7 | 33 | 58 | 159 | 186 | 232 | 273 | 92 | 13 | 10 | 1 | 1 | 1 |
| 8 | 34 | 64 | 161 | 181 | 229 | 252 | 79 | 9 | 11 | 1 | 1 | 1 |
| 9 | 34 | 69 | 161 | 181 | 234 | 232 | 58 | 12 | 11 | 1 | 1 | 17 |
| 10 | 35 | 70 | 164 | 184 | 224 | 232 | 46 | 10 | 5 | 1 | 1 | 17 |
| 11 | 30 | 70 | 165 | 187 | 218 | 238 | 41 | 9 | 1 | 1 | 1 | 1 |
| 12 | 28 | 72 | 168 | 171 | 214 | 235 | 30 | 8 | 2 | 4 | 1 | 1 |
| 13 | 28 | 81 | 200 | 192 | 216 | 241 | 14 | 8 | 2 | 1 | 1 | 1 |
| 14 | 26 | 90 | 206 | 188 | 216 | 219 | 15 | 9 | 1 | 1 | 1 | 1 |
| 15 | 28 | 96 | 221 | 194 | 213 | 221 | 16 | 13 | 2 | 1 | 17 | 1 |
| 16 | 31 | 102 | 190 | 199 | 213 | 219 | 19 | 9 | 2 | 1 | 7 | 14 |
| 17 | 32 | 120 | 154 | 205 | 208 | 214 | 19 | 8 | 2 | 1 | 5 | 17 |
| 18 | 36 | 116 | 170 | 202 | 202 | 211 | 18 | 8 | 1 | 1 | 2 | 19 |
| 19 | 36 | 114 | 198 | 199 | 205 | 203 | 16 | 7 | 4 | 1 | 1 | 24 |
| 20 | 37 | 107 | 188 | 198 | 234 | 201 | 15 | 6 | 3 | 1 | 1 | 20 |
| 21 | 36 | 104 | 174 | 198 | 281 | 193 | 13 | 5 | 1 | 1 | 1 | 2 |
| 22 | 35 | 104 | 147 | 198 | 281 | 193 | 15 | 4 | 2 | 1 | 1 | 1 |
| 23 | 35 | 100 | 156 | 200 | 281 | 186 | 16 | 4 | 2 | 1 | 1 | 1 |
| 24 | 36 | 100 | 170 | 200 | 285 | 184 | 17 | 4 | 4 | 18 | 1 | 37 |
| 25 | 36 | 103 | 187 | 251 | 285 | 172 | 19 | 4 | 5 | 3 | 1 | 65 |
| 26 | 36 | 103 | 178 | 208 | 282 | 154 | 20 | 4 | 7 | 1 | 1 | 47 |
| 27 | 36 | 114 | 194 | 184 | 270 | 142 | 21 | 3 | 8 | 1 | 1 | 26 |
| 28 | 36 | 127 | 188 | 204 | 264 | 136 | 20 | 3 | 2 | 1 | 1 | 30 |
| 29 | 37 | 126 | 180 | 210 | | 148 | 19 | 2 | 1 | 1 | 1 | 28 |
| 30 | 41 | 128 | 186 | 222 | | 156 | 16 | 2 | 1 | 1 | 1 | 28 |
| 31 | 41 | | 193 | 216 | | 159 | | 2 | | 1 | 1 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 41 | 26 | 33.6 | 2,070 | | |
| November | | | | | | | 128 | 44 | 87.2 | 5,190 | | |
| December | | | | | | | 221 | 131 | 171 | 10,540 | | |
| January | | | | | | | 251 | 171 | 203 | 12,610 | | |
| February | | | | | | | 285 | 202 | 239 | 13,090 | | |
| March | | | | | | | 282 | 136 | 212 | 13,060 | | |
| April | | | | | | | 232 | 13 | 55.5 | 3,300 | | |
| May | | | | | | | 16 | 2 | 8.1 | 500 | | |
| June | | | | | | | 11 | 1 | 3.5 | 210 | | |
| July | | | | | | | 18 | 1 | 1.7 | 105 | | |
| August | | | | | | | 17 | 1 | 1.9 | 115 | | |
| September | | | | | | | 65 | 1 | 13.5 | 805 | | |
| The year | | | | | | | 285 | 1 | 85.0 | 61,500 | | |

Chalk Creek at Coalville, Utah

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 8, T. 2 N., R. 5 E., 300 feet above highway bridge in Coalville and a third of a mile above confluence with Weber River.

Drainage area.- 253 square miles.

Records available.- October 1904 to December 1905, April 1927 to September 1934.

Extremes.- Maximum discharge during year not determined; minimum, 1 second-foot or less (estimated) several days during June to September.

1927-34: Maximum discharge, 896 second-feet May 4, 1929 (gage height, 4.0 feet); minimum, that of June to September 1934.

Remarks.- Records fair. Discharge estimated May 28 to Sept. 30. No diversions below station. Flow regulated by irrigation diversions above.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 4 | 7 | 15 | 16 | 12 | 15 | 21 | 16 | 2 | 2 | 1 | 1 |
| 2 | 4 | 7 | 12 | 16 | 14 | 16 | 20 | 16 | 2 | 2 | 2 | 1 |
| 3 | 4 | 8 | 12 | 15 | 15 | 18 | 19 | 14 | 2 | 2 | 1 | 1 |
| 4 | 4 | 9 | 14 | 15 | 14 | 17 | 18 | 12 | 2 | 2 | 2 | 1 |
| 5 | 4 | 8 | 7 | 10 | 16 | 18 | 18 | 12 | 2 | 2 | 1 | 1 |
| 6 | 4 | 8 | 12 | 9 | 17 | 19 | 20 | 12 | 2 | 2 | 7 | 1 |
| 7 | 4 | 13 | 15 | 8 | 16 | 19 | 19 | 12 | 2 | 2 | 1 | 1 |
| 8 | 4 | 13 | 15 | 9 | 14 | 16 | 19 | 11 | 1 | 2 | 2 | 1 |
| 9 | 4 | 14 | 14 | 10 | 16 | 15 | 21 | 11 | 2 | 2 | 1 | 1 |
| 10 | 4 | 14 | 14 | 10 | 14 | 17 | 21 | 9 | 1 | 1 | 2 | 1 |
| 11 | 4 | 15 | 16 | 11 | 10 | 17 | 21 | 9 | 2 | 1 | 1 | 1 |
| 12 | 4 | 15 | 16 | 12 | 12 | 17 | 18 | 8 | 1 | 1 | 2 | 1 |
| 13 | 4 | 15 | 19 | 12 | 15 | 18 | 18 | 8 | 2 | 1 | 1 | 1 |
| 14 | 4 | 15 | 19 | 13 | 14 | 19 | 14 | 8 | 1 | 1 | 2 | 1 |
| 15 | 4 | 15 | 15 | 14 | 14 | 21 | 8 | 7 | 1 | 1 | 2 | 1 |
| 16 | 5 | 16 | 12 | 12 | 17 | 21 | 9 | 7 | 1 | 2 | 1 | 1 |
| 17 | 5 | 16 | 7 | 12 | 16 | 21 | 4 | 5 | 2 | 1 | 2 | 1 |
| 18 | 5 | 16 | 13 | 12 | 15 | 18 | 2 | 5 | 2 | 2 | 2 | 1 |
| 19 | 5 | 14 | 16 | 12 | 15 | 18 | 2 | 3 | 1 | 1 | 1 | 1 |
| 20 | 6 | 15 | 15 | 12 | 15 | 19 | 2 | 4 | 1 | 2 | 1 | 1 |
| 21 | 6 | 14 | 15 | 12 | 15 | 19 | 4 | 4 | 1 | 1 | 1 | 1 |
| 22 | 6 | 15 | 15 | 14 | 12 | 19 | 7 | 3 | 2 | 2 | 1 | 1 |
| 23 | 6 | 15 | 15 | 15 | 14 | 20 | 9 | 2 | 2 | 1 | 1 | 1 |
| 24 | 6 | 15 | 14 | 15 | 17 | 19 | 14 | 2 | 2 | 2 | 1 | 1 |
| 25 | 6 | 15 | 16 | 10 | 16 | 19 | 15 | 2 | 2 | 1 | 1 | 1 |
| 26 | 6 | 13 | 16 | 12 | 15 | 19 | 12 | 2 | 2 | 2 | 1 | 1 |
| 27 | 6 | 13 | 14 | 14 | 15 | 18 | 12 | 2 | 2 | 1 | 1 | 1 |
| 28 | 6 | 16 | 14 | 14 | 16 | 18 | 13 | 2 | 2 | 2 | 1 | 1 |
| 29 | 6 | 16 | 14 | 13 | 19 | 19 | 14 | 2 | 2 | 1 | 1 | 1 |
| 30 | 6 | 15 | 18 | 12 | 21 | 21 | 16 | 2 | 2 | 2 | 1 | 1 |
| 31 | 7 | | 16 | 12 | 22 | 22 | | 2 | | 2 | 1 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 7 | 4 | 4.9 | 303 | | |
| November | | | | | | | 16 | 7 | 13.3 | 793 | | |
| December | | | | | | | 18 | 7 | 14.4 | 893 | | |
| January | | | | | | | 16 | 8 | 12.4 | 760 | | |
| February | | | | | | | 17 | 10 | 14.6 | 813 | | |
| March | | | | | | | 22 | 15 | 18.5 | 1,130 | | |
| April | | | | | | | 21 | 2 | 13.7 | 813 | | |
| May | | | | | | | 16 | 2 | 6.9 | 424 | | |
| June | | | | | | | 2 | 1 | 1.7 | 101 | | |
| July | | | | | | | 2 | 1 | 1.5 | 95 | | |
| August | | | | | | | 7 | 1 | 1.5 | 91 | | |
| September | | | | | | | 1 | 1 | 1.0 | 60 | | |
| The year | | | | | | | 22 | 1 | 8.7 | 6,270 | | |

South Fork of Ogden River near Huntsville, Utah

Location.- Water-stage recorder in SE $\frac{1}{4}$ 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 5 $\frac{1}{2}$ miles east of Huntsville. Station moved 300 feet downstream Aug. 13.

Drainage area.- 148 square miles.

Records available.- March 1921 to September 1934.

Average discharge.- 13 years, 107 second-feet.

Extremes.- Maximum discharge during year, 113 second-feet July 21 (gage height, 1.29 feet on old gage); minimum, 20 second-feet July 28, 1921-34; Maximum discharge, 1,480 second-feet May 14, 1932 (gage height, 5.50 feet on old gage); minimum, 20 second-feet Nov. 25, July 28, 1934.

Remarks.- Records good except those estimated Dec. 7 to Jan. 30, Feb. 21 to Mar. 6, Aug. 11-13, which are fair. No important diversions above gage.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 44 | 41 | 37 | | 34 | | 59 | 55 | 29 | 25 | 22 | 23 |
| 2 | 45 | 41 | 37 | | 36 | | 53 | 54 | 29 | 24 | 22 | 22 |
| 3 | 44 | 41 | 38 | | 36 | 42 | 54 | 51 | 30 | 25 | 22 | 22 |
| 4 | 43 | 40 | 39 | | 36 | | 52 | 49 | 30 | 26 | 22 | 22 |
| 5 | 42 | 40 | 36 | | 36 | | 50 | 48 | 31 | 25 | 23 | 22 |
| 6 | 40 | 39 | 38 | | 37 | | 49 | 47 | 32 | 24 | 23 | 23 |
| 7 | 37 | 39 | | | 37 | 46 | 49 | 46 | 35 | 23 | 26 | 23 |
| 8 | 37 | 39 | | | 37 | 45 | 53 | 45 | 34 | 22 | 23 | 24 |
| 9 | 37 | 39 | | | 37 | 44 | 58 | 43 | 32 | 22 | 23 | 26 |
| 10 | 37 | 39 | 38 | *39 | 37 | 44 | 61 | 42 | 30 | 22 | 23 | 27 |
| 11 | 37 | 39 | | | 36 | 44 | 66 | 41 | 30 | 23 | 23 | 26 |
| 12 | 38 | 39 | | | 36 | 44 | 77 | 40 | 29 | 23 | 23 | 24 |
| 13 | 38 | 39 | 41 | | 35 | 45 | 88 | 40 | 28 | 23 | 23 | 24 |
| 14 | 38 | 39 | | | 35 | 45 | 89 | 38 | 28 | 23 | 23 | 23 |
| 15 | 38 | 39 | | | 35 | 46 | 89 | 37 | 28 | 23 | 26 | 23 |
| 16 | 39 | 38 | | | 35 | 49 | 82 | 36 | 28 | 23 | 25 | 24 |
| 17 | 39 | 37 | | | 35 | 47 | 75 | 34 | 28 | 22 | 25 | 24 |
| 18 | 39 | 38 | | | 35 | 46 | 70 | 33 | 28 | 22 | 24 | 24 |
| 19 | 40 | 38 | | | 36 | 45 | 72 | 32 | 28 | 23 | 24 | 24 |
| 20 | 39 | 38 | 38 | | 37 | 45 | 73 | 31 | 28 | 23 | 23 | 24 |
| 21 | 39 | 38 | | | | 46 | 75 | 30 | 26 | 34 | 23 | 25 |
| 22 | 40 | 37 | | | | 51 | 76 | 30 | 26 | 30 | 22 | 25 |
| 23 | 40 | 37 | | | | 55 | 75 | 30 | 26 | 26 | 22 | 25 |
| 24 | 40 | 37 | | | | 51 | 72 | 30 | 27 | 25 | 22 | 25 |
| 25 | 40 | 37 | | | 38 | 51 | 72 | 30 | 28 | 25 | 22 | 25 |
| 26 | 40 | 36 | | | | 48 | 71 | 30 | 26 | 25 | 22 | 25 |
| 27 | 40 | 37 | 37 | | | 46 | 65 | 30 | 26 | 22 | 22 | 25 |
| 28 | 40 | 36 | | | | 53 | 61 | 30 | 25 | 22 | 22 | 25 |
| 29 | 40 | 36 | | | | 62 | 58 | 30 | 23 | 22 | 24 | 26 |
| 30 | 39 | 37 | 38 | | | 62 | 57 | 29 | 23 | 22 | 24 | 26 |
| 31 | 40 | | | *36 | | 65 | | 28 | | 22 | 23 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 45 | 37 | 39.6 | 2,440 | | |
| November | | | | | | | 41 | 36 | 38.3 | 2,280 | | |
| December | | | | | | | | | 38.0 | 2,330 | | |
| January | | | | | | | | | 38 | 2,340 | | |
| February | | | | | | | | | | 2,030 | | |
| March | | | | | | | 63 | 34 | 36.5 | 2,970 | | |
| April | | | | | | | 89 | 49 | 47.5 | 2,920 | | |
| May | | | | | | | 55 | 28 | 37.7 | 2,320 | | |
| June | | | | | | | 35 | 23 | 28.4 | 1,690 | | |
| July | | | | | | | 34 | 22 | 23.8 | 1,460 | | |
| August | | | | | | | 26 | 22 | 23.1 | 1,420 | | |
| September | | | | | | | 27 | 22 | 24.2 | 1,440 | | |
| The year | | | | | | | 89 | 22 | 36.8 | 26,640 | | |

*Discharge measurement.

Ogden River near Ogden, Utah

Location.- Water-stage recorder in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 6 N., R. 1 E., at bridge 300 feet below Utah Power & Light Co.'s dam and 6 $\frac{1}{2}$ miles northeast of Ogden, Utah.

Records available.- 1895-96, January 1904 to October 1912, October 1931 to September 1934.

Average discharge.- 10 years (1904-9, 1931-34), 263 second-feet.

Extremes.- Maximum daily discharge (river and pipe line), 140 second-feet Apr. 1; minimum daily, about 4 second-feet for several days during summer.
1895-96, 1904-12, 1931-34: Maximum recorded discharge, 3,260 second-feet Feb. 5, 1907; minimum, that of 1934.

Remarks.- Records fair. Station is below irrigation diversions in Ogden Valley and above those in vicinity of Ogden. Water diverted for power development 300 feet above river station. Low-water flow regulated by diversion dam; also affected by municipal and irrigation diversions. Records of Utah Power & Light Co.'s pipe line and results of several discharge measurements furnished by that company. Records of combined discharge (see following page) are comparable with records of 1895-96 and 1904-12.

Discharge, in second-feet, 1935-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 8 | 1 | 1 | 0 | 1 |
| 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 7 | 1 | 1 | 0 | 0 |
| 3 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 7 | 1 | 1 | 0 | 0 |
| 4 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 7 | 1 | 1 | 0 | 0 |
| 5 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 8 | 1 | 1 | 0 | 0 |
| 6 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 8 | 1 | 1 | 0 | 0 |
| 7 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 8 | 2 | 1 | 0 | 0 |
| 8 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 6 | 2 | 1 | 0 | 0 |
| 9 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 0 | 0 | 0 |
| 10 | 1 | 1 | 2 | 2 | 2 | 1 | 7 | 1 | 2 | 0 | 0 | 0 |
| 11 | 1 | 1 | 2 | 2 | 2 | 1 | 14 | 3 | 2 | 0 | 0 | 0 |
| 12 | 1 | 1 | 2 | 2 | 2 | 1 | 16 | 4 | 2 | 0 | 0 | 0 |
| 13 | 1 | 1 | 3 | 2 | 2 | 1 | 17 | 5 | 2 | 0 | 0 | 0 |
| 14 | 1 | 1 | 3 | 2 | 2 | 1 | 14 | 6 | 2 | 0 | 0 | 0 |
| 15 | 1 | 1 | 3 | 2 | 1 | 1 | 14 | 5 | 2 | 0 | 0 | 0 |
| 16 | 1 | 1 | 2 | 2 | 1 | 1 | 13 | 5 | 1 | 1 | 0 | 0 |
| 17 | 1 | 0 | 2 | 2 | 1 | 1 | 13 | 2 | 1 | 6 | 0 | 0 |
| 18 | 1 | 0 | 2 | 2 | 1 | 1 | 12 | 1 | 1 | 3 | 0 | 2 |
| 19 | 1 | 0 | 2 | 2 | 1 | 2 | 12 | 1 | 1 | 0 | 0 | 1 |
| 20 | 1 | 0 | 2 | 2 | 1 | 2 | 11 | 1 | 1 | 0 | 0 | 1 |
| 21 | 2 | 0 | 2 | 2 | 2 | 2 | 10 | 1 | 1 | 0 | 0 | 1 |
| 22 | 1 | 0 | 1 | 2 | 2 | 2 | 9 | 1 | 1 | 0 | 0 | 1 |
| 23 | 1 | 0 | 1 | 2 | 2 | 2 | 9 | 1 | 1 | 0 | 0 | 1 |
| 24 | 2 | 0 | 1 | 3 | 2 | 2 | 8 | 1 | 1 | 1 | 0 | 1 |
| 25 | 2 | 1 | 1 | 3 | 2 | 2 | 7 | 1 | 1 | 1 | 0 | 12 |
| 26 | 2 | 1 | 1 | 2 | 2 | 2 | 8 | 1 | 1 | 1 | 0 | 9 |
| 27 | 2 | 1 | 1 | 2 | 2 | 2 | 9 | 1 | 1 | 1 | 0 | 8 |
| 28 | 1 | 2 | 1 | 2 | 2 | 2 | 9 | 1 | 1 | 1 | 0 | 6 |
| 29 | 1 | 2 | 1 | 2 | 2 | 2 | 8 | 1 | 1 | 1 | 0 | 6 |
| 30 | 1 | 2 | 2 | 2 | 2 | 3 | 7 | 1 | 1 | 1 | 0 | 6 |
| 31 | 1 | | 2 | 2 | | 11 | | 1 | | 1 | 1 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 2 | 1 | 1.3 | 81 | | |
| November | | | | | | | 2 | 0 | 1.8 | 48 | | |
| December | | | | | | | 3 | 1 | 1.6 | 113 | | |
| January | | | | | | | 3 | 2 | 2.1 | 127 | | |
| February | | | | | | | 2 | 1 | 1.8 | 99 | | |
| March | | | | | | | 11 | 1 | 2.0 | 125 | | |
| April | | | | | | | 17 | 1 | 7.9 | 472 | | |
| May | | | | | | | 8 | 1 | 3.4 | 210 | | |
| June | | | | | | | 2 | 1 | 1.3 | 77 | | |
| July | | | | | | | 6 | 0 | .8 | 52 | | |
| August | | | | | | | 1 | 0 | 0 | 2 | | |
| September | | | | | | | 12 | 0 | 1.9 | 111 | | |
| The year | | | | | | | 17 | 0 | 2.1 | 1,520 | | |

Ogden River near Ogden, Utah

(Continued)

Combined discharge, in second-feet, of Ogden River and Utah Power & Light Co.'s pipe line
near Ogden, Utah, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | 36 | 34 | 35 | 37 | 52 | 79 | 140 | 63 | 26 | 12 | | |
| 2 | 38 | 34 | 35 | 56 | 51 | 79 | 133 | 60 | 24 | 12 | | |
| 3 | 38 | 34 | 35 | 66 | 50 | 79 | 107 | 60 | 20 | 11 | | |
| 4 | 38 | 34 | 35 | 53 | 50 | 79 | 83 | 60 | 20 | 11 | | |
| 5 | 37 | 34 | 35 | 59 | 50 | 79 | 84 | 59 | 20 | 10 | | |
| 6 | 35 | 34 | 35 | 68 | 50 | 79 | 83 | 59 | 20 | 10 | | |
| 7 | 34 | 34 | 35 | 47 | 51 | 79 | 90 | 57 | 21 | 9 | | |
| 8 | 33 | 34 | 35 | 60 | 51 | 79 | 79 | 52 | 21 | 9 | | |
| 9 | 31 | 34 | 35 | 43 | 57 | 79 | 81 | 46 | 21 | 8 | | |
| 10 | 30 | 34 | 35 | 42 | 61 | 78 | 79 | 44 | 21 | 8 | | *4 |
| 11 | 28 | 34 | 35 | 42 | 61 | 78 | 80 | 46 | 22 | 8 | | |
| 12 | 28 | 34 | 35 | 35 | 61 | 78 | 82 | 48 | 23 | 7 | | |
| 13 | 28 | 34 | 36 | 35 | 61 | 75 | 83 | 46 | 23 | 4 | | |
| 14 | 28 | 34 | 39 | 42 | 61 | 68 | 85 | 48 | 22 | 4 | | |
| 15 | 28 | 34 | 47 | 42 | 60 | 65 | 91 | 47 | 21 | 4 | | |
| 16 | 28 | 34 | 46 | 42 | 60 | 66 | 89 | 42 | 20 | 5 | | |
| 17 | 29 | 33 | 46 | 42 | 59 | 65 | 82 | 36 | 20 | 10 | | |
| 18 | 29 | 33 | 46 | 42 | 60 | 65 | 90 | 34 | 20 | 7 | | 6 |
| 19 | 29 | 33 | 46 | 42 | 60 | 66 | 103 | 32 | 18 | 4 | | 5 |
| 20 | 29 | 33 | 44 | 42 | 60 | 65 | 89 | 32 | 17 | 4 | | 5 |
| 21 | 30 | 33 | 41 | 42 | 71 | 65 | 87 | 32 | 16 | 4 | | 5 |
| 22 | 29 | 33 | 38 | 42 | 76 | 72 | 86 | 32 | 16 | 4 | | 5 |
| 23 | 29 | 33 | 36 | 42 | 75 | 77 | 86 | 29 | 15 | 4 | | 5 |
| 24 | 30 | 33 | 36 | 54 | 78 | 78 | 85 | 27 | 14 | 5 | | 5 |
| 25 | 30 | 34 | 36 | 64 | 79 | 78 | 84 | 27 | 14 | 5 | | 16 |
| 26 | 31 | 34 | 36 | 63 | 78 | 78 | 84 | 27 | 13 | 5 | | 13 |
| 27 | 35 | 34 | 36 | 63 | 81 | 78 | 86 | 27 | 13 | 5 | | 12 |
| 28 | 35 | 34 | 36 | 64 | 76 | 78 | 85 | 27 | 13 | 5 | | 10 |
| 29 | 34 | 35 | 36 | 59 | 80 | 80 | 85 | 27 | 13 | 5 | | 10 |
| 30 | 34 | 36 | 36 | 56 | 81 | 76 | 81 | 27 | 13 | 5 | | 10 |
| 31 | 34 | | 36 | 55 | 88 | | 88 | 27 | | 5 | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 38 | 28 | 31.8 | 1,950 | | |
| November | | | | | | | 35 | 33 | 33.8 | 2,010 | | |
| December | | | | | | | 47 | 35 | 37.8 | 2,350 | | |
| January | | | | | | | 68 | 35 | 49.7 | 3,060 | | |
| February | | | | | | | 81 | 50 | 62.1 | 3,450 | | |
| March | | | | | | | 88 | 65 | 75.3 | 4,630 | | |
| April | | | | | | | 140 | 76 | 89.2 | 5,310 | | |
| May | | | | | | | 63 | 27 | 41.3 | 2,540 | | |
| June | | | | | | | 26 | 13 | 18.7 | 1,110 | | |
| July | | | | | | | 12 | 4 | 6.7 | 415 | | |
| August | | | | | | | | | *4 | 248 | | |
| September | | | | | | | 16 | | 5.8 | 347 | | |
| The year | | | | | | | 140 | | 37.8 | 27,400 | | |

*Estimated.

Jordan River near Lehi, Utah

Location.- Water-stage recorder in sec. 2b, T. 5 S., R. 1 W., 800 feet below pumping station at outlet of Utah Lake and 4 miles southwest of Lehi.

Drainage area.- 2,570 square miles.

Records available.- May to December 1904, July 1913 to September 1934.

Average discharge.- 21 years (1913-34), 416 second-feet.

Extremes.- Maximum daily discharge during year, 648 second-feet Apr. 12-14, 26

minimum, -12 second-feet Jan. 4.

1913-34: Maximum daily discharge, 1,370 second-feet June 8, 1923 (gage height, 7.78 feet); minimum, -35 second-feet Mar. 9, 10, 1933.

Remarks.- Records fair. Discharge computed from records of pump operation. Flow represents pumped outflow from Utah Lake and is controlled by operation of gates and pumping plants. Pumping records from Oct. 1 to May 31 and records of daily discharge from Aug. 1 to Sept. 30 were furnished by Utah Lake water commissioner.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 44 | 0 | 0 | -6 | -5 | -9 | -3 | 608 | | | 0 | 326 |
| 2 | 72 | 0 | 0 | -8 | -5 | -8 | -11 | 627 | | | 32 | 224 |
| 3 | 26 | 0 | 0 | -8 | -5 | -8 | -11 | 561 | | | 186 | 324 |
| 4 | 44 | 0 | 0 | -12 | -5 | -8 | -2 | 618 | | | 198 | 314 |
| 5 | 53 | 0 | 0 | -10 | -5 | -7 | -2 | 587 | | | 200 | 316 |
| 6 | 22 | 0 | 0 | -8 | -5 | -8 | -2 | 587 | | | 176 | 327 |
| 7 | 41 | 16 | 0 | -8 | -5 | -7 | 0 | 580 | | | 164 | 206 |
| 8 | 41 | 25 | 0 | -8 | -5 | -5 | 390 | 288 | | | 215 | 248 |
| 9 | 47 | 16 | 0 | -8 | -5 | -5 | 565 | 224 | | | 245 | 312 |
| 10 | 36 | 8 | 0 | -7 | -8 | -5 | 623 | 184 | | | 252 | 326 |
| 11 | 41 | 8 | 0 | -7 | -5 | -5 | 637 | 191 | | | 271 | 330 |
| 12 | 42 | 0 | 0 | -4 | -5 | -5 | 648 | 154 | | | 283 | 327 |
| 13 | 38 | 0 | 8 | -4 | -5 | -5 | 649 | 219 | | | 300 | 262 |
| 14 | 40 | 0 | 8 | -4 | -5 | -5 | 648 | 408 | | | 342 | 256 |
| 15 | 10 | 0 | 8 | -4 | -5 | -5 | 638 | 330 | | | 336 | 287 |
| 16 | 50 | 0 | 0 | -4 | -5 | -7 | 550 | 332 | | | 342 | 279 |
| 17 | 47 | 0 | 0 | -4 | -6 | -6 | 484 | 316 | | | 238 | 269 |
| 18 | 72 | 0 | 0 | -4 | -5 | -4 | 295 | 318 | | | 176 | 277 |
| 19 | 55 | 0 | 0 | -4 | -5 | -4 | 57 | 302 | | | 178 | 282 |
| 20 | 91 | 0 | 0 | -5 | -7 | -5 | 66 | 230 | | | 189 | 163 |
| 21 | 7 | 0 | 0 | -5 | -8 | -5 | 53 | 289 | | | 176 | 268 |
| 22 | 30 | 0 | 0 | -5 | -8 | -5 | 79 | 332 | | | 176 | 302 |
| 23 | 26 | 8 | -1 | -5 | -9 | -5 | 47 | 339 | | | 184 | 183 |
| 24 | 37 | 8 | -1 | -6 | -10 | -4 | 175 | 309 | | | 309 | 129 |
| 25 | 22 | 9 | -2 | -5 | -10 | -4 | 563 | 315 | | | 306 | 204 |
| 26 | 41 | 8 | -3 | -5 | -10 | -6 | 648 | 320 | | | 299 | 191 |
| 27 | 49 | 8 | -3 | -5 | -10 | -4 | 631 | 371 | | | 301 | 174 |
| 28 | 84 | 8 | -4 | -5 | -11 | -5 | 641 | 463 | | | 284 | 237 |
| 29 | 180 | 8 | -4 | -5 | -5 | -6 | 639 | 462 | | | 298 | 224 |
| 30 | 210 | 8 | -5 | -5 | -5 | -3 | 630 | 454 | | | 277 | 222 |
| 31 | 64 | | -5 | -5 | | -4 | | 390 | | | 325 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 210 | 7 | 54.3 | 3,340 | | |
| November | | | | | | | 25 | 0 | 4.6 | 274 | | |
| December | | | | | | | 8 | -5 | -1 | -8 | | |
| January | | | | | | | -4 | -12 | -5.9 | -363 | | |
| February | | | | | | | -5 | -11 | -6.6 | -357 | | |
| March | | | | | | | -3 | -9 | -5.5 | -341 | | |
| April | | | | | | | 648 | -11 | 344 | 20,480 | | |
| May | | | | | | | 627 | 154 | 376 | 23,220 | | |
| June | | | | | | | | | *190 | 11,510 | | |
| July | | | | | | | | | *28 | 1,720 | | |
| August | | | | | | | 342 | 0 | 235 | 14,450 | | |
| September | | | | | | | 330 | 129 | 260 | 16,450 | | |
| The year | | | | | | | 648 | -12 | 123 | 89,160 | | |

*Estimated.

Note.- Negative values represent flow back into the lake, when head gates at The Narrows, 6 miles downstream, were closed. These negative discharges have been deducted from the monthly and yearly values in order to eliminate this temporary inflow from the area below the outlet of the lake.

Salt Creek near Nephi, Utah

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

Drainage area.-- 95 square miles.

Records available.-- April 1925 to September 1934.

Extremes.-- Maximum discharge recorded during year, about 240 second-feet Aug. 5; minimum daily discharge, 4 second-feet several days in September.

1925-34: Maximum discharge recorded, about 800 second-feet July 17, 1932; minimum daily discharge, 4 second-feet Nov. 21-22, 1931, and several days in September 1934.

Remarks.-- Records fair. Discharge estimated July 24, Aug. 5-6. A few small diversions above station.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 8 | 9 | 9 | 13 | 8 | 8 | 8 | 17 | 12 | 8 | 8 | 5 |
| 2 | 10 | 9 | 9 | 10 | 8 | 8 | 9 | 16 | 12 | 8 | 8 | 5 |
| 3 | 10 | 9 | 9 | 10 | 8 | 8 | 9 | 15 | 11 | 8 | 7 | 5 |
| 4 | 9 | 9 | 9 | 10 | 8 | 8 | 10 | 15 | 11 | 8 | 7 | 4 |
| 5 | 9 | 9 | 9 | 9 | 8 | 8 | 9 | 16 | 11 | 8 | 75 | 4 |
| 6 | 9 | 9 | 9 | 9 | 8 | 8 | 9 | 16 | 11 | 8 | 10 | 4 |
| 7 | 8 | 9 | 9 | 9 | 8 | 9 | 9 | 16 | 10 | 7 | 7 | 5 |
| 8 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 17 | 10 | 6 | 7 | 5 |
| 9 | 8 | 9 | 9 | 9 | 8 | 9 | 9 | 17 | 11 | 6 | 7 | 4 |
| 10 | 8 | 9 | 9 | 9 | 8 | 9 | 8 | 18 | 10 | 6 | 8 | 4 |
| 11 | 8 | 9 | 9 | 8 | 8 | 9 | 8 | 18 | 9 | 7 | 6 | 4 |
| 12 | 8 | 9 | 9 | 8 | 8 | 9 | 8 | 19 | 9 | 8 | 6 | 4 |
| 13 | 9 | 9 | 10 | 8 | 8 | 9 | 9 | 20 | 9 | 8 | 6 | 4 |
| 14 | 9 | 9 | 10 | 8 | 8 | 9 | 10 | 20 | 9 | 8 | 9 | 4 |
| 15 | 9 | 9 | 9 | 8 | 8 | 9 | 10 | 19 | 9 | 7 | 6 | 4 |
| 16 | 9 | 9 | 9 | 8 | 8 | 9 | 11 | 17 | 9 | 7 | 6 | 4 |
| 17 | 9 | 9 | 9 | 8 | 8 | 9 | 11 | 17 | 9 | 6 | 6 | 4 |
| 18 | 9 | 9 | 9 | 8 | 8 | 9 | 12 | 16 | 9 | 6 | 5 | 4 |
| 19 | 9 | 9 | 9 | 8 | 8 | 8 | 12 | 15 | 9 | 6 | 5 | 4 |
| 20 | 9 | 9 | 9 | 8 | 8 | 8 | 13 | 14 | 9 | 7 | 5 | 4 |
| 21 | 9 | 9 | 9 | 8 | 8 | 8 | 13 | 14 | 8 | 8 | 5 | 4 |
| 22 | 9 | 9 | 9 | 8 | 8 | 8 | 13 | 14 | 8 | 7 | 5 | 4 |
| 23 | 9 | 9 | 9 | 8 | 8 | 8 | 13 | 14 | 8 | 6 | 5 | 4 |
| 24 | 9 | 9 | 9 | 8 | 10 | 8 | 14 | 14 | 8 | 12 | 5 | 4 |
| 25 | 9 | 9 | 9 | 8 | 9 | 8 | 14 | 13 | 8 | 10 | 5 | 4 |
| 26 | 9 | 9 | 9 | 8 | 8 | 8 | 14 | 13 | 8 | 9 | 5 | 5 |
| 27 | 9 | 9 | 9 | 8 | 8 | 8 | 15 | 13 | 8 | 8 | 5 | 5 |
| 28 | 9 | 9 | 9 | 8 | 8 | 8 | 15 | 13 | 8 | 8 | 5 | 5 |
| 29 | 9 | 9 | 9 | 8 | 8 | 8 | 16 | 13 | 8 | 8 | 5 | 4 |
| 30 | 9 | 9 | 9 | 8 | 8 | 8 | 16 | 12 | 8 | 8 | 5 | 4 |
| 31 | 9 | 9 | 10 | 8 | 8 | 8 | 12 | 12 | 8 | 8 | 5 | 4 |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 10 | 8 | 8.8 | 543 | | |
| November | | | | | | | 9 | 9 | 9.0 | 536 | | |
| December | | | | | | | 10 | 9 | 9.1 | 559 | | |
| January | | | | | | | 13 | 8 | 8.5 | 526 | | |
| February | | | | | | | 10 | 8 | 8.1 | 450 | | |
| March | | | | | | | 9 | 8 | 8.4 | 516 | | |
| April | | | | | | | 16 | 8 | 11.2 | 664 | | |
| May | | | | | | | 20 | 12 | 15.6 | 968 | | |
| June | | | | | | | 12 | 8 | 9.3 | 553 | | |
| July | | | | | | | 12 | 6 | 7.6 | 466 | | |
| August | | | | | | | 75 | 5 | 8.4 | 514 | | |
| September | | | | | | | 5 | 4 | 4.3 | 254 | | |
| The year | | | | | | | 75 | 4 | 9.0 | 6,540 | | |

Provo River at Forks, Utah

Location.- Water-stage recorder in NW $\frac{1}{4}$ sec. 25, T. 5 S., R. 3 E., a quarter of a mile below North Fork, three-quarters of a mile above South Fork, and 3,000 feet northeast of Forks and Vivian Park. Prior to Nov. 13, 1933, staff gage 3,000 feet downstream in sec. 26 was used.

Drainage area.- 600 square miles.

Records available.- November 1911 to September 1934. Records have been obtained at various points below mouth of South Fork since 1890.

Average discharge.- 22 years (1912-34), 366 second-feet.

Extremes.- Maximum discharge during year, 252 second-feet Apr. 25 (gage height, 2.47 feet); minimum, 49 second-feet July 17.

1911-34: Maximum discharge recorded, 3,180 second-feet June 11, 1921 (gage height, 6.13 feet on gage used 1921); minimum, that of July 17, 1934.

Remarks.- Records good. Stage-discharge relation affected by ice Dec. 10 to Jan. 15. Station is below diversions for irrigation in Heber Valley and above those in vicinity of Provo. Flow slightly regulated by small lakes at headwaters utilized as storage reservoirs. Records include flow of Weber-Provo Diversion Canal.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 139 | 145 | 189 | | 204 | 209 | 137 | 184 | 94 | 65 | 61 | 65 |
| 2 | 139 | 139 | 186 | | 206 | 205 | 134 | 184 | 92 | 67 | 58 | 64 |
| 3 | 150 | 139 | 186 | | 209 | 211 | 132 | 174 | 95 | 62 | 56 | 61 |
| 4 | 147 | 133 | 191 | | 211 | 211 | 127 | 163 | 92 | 65 | 58 | 56 |
| 5 | 163 | 133 | 178 | | 213 | 209 | 123 | 134 | 88 | 67 | 64 | 57 |
| 6 | 160 | 131 | | | 221 | 211 | 120 | 113 | 90 | 62 | 68 | 61 |
| 7 | 139 | 136 | | | 216 | 201 | 116 | 111 | 93 | 61 | 66 | 62 |
| 8 | 146 | 147 | | *190 | 209 | 199 | 114 | 111 | 95 | 58 | 67 | 62 |
| 9 | 147 | 147 | | | 205 | 197 | 116 | 103 | 90 | 57 | 66 | 64 |
| 10 | 147 | 153 | | | 205 | 193 | 114 | 96 | 67 | 58 | 65 | *66 |
| 11 | 145 | 147 | | | 193 | 197 | 108 | 101 | 66 | 61 | 60 | 69 |
| 12 | 146 | 156 | | | 193 | 199 | 103 | 98 | 82 | 61 | 60 | *68 |
| 13 | 128 | 170 | | | 193 | 197 | 101 | 100 | 81 | 58 | 60 | 67 |
| 14 | 128 | 172 | | | 191 | 195 | 106 | 101 | *81 | 57 | 61 | 65 |
| 15 | 128 | 172 | | | 188 | 201 | 103 | 96 | *80 | 54 | 68 | 66 |
| 16 | 131 | 173 | | 189 | 189 | 199 | 103 | 98 | *79 | 56 | 65 | 67 |
| 17 | 131 | 174 | | 186 | 191 | 197 | 103 | 98 | *78 | 54 | 65 | 65 |
| 18 | 125 | 189 | *190 | 188 | 189 | 191 | 100 | 95 | 78 | 57 | 65 | 65 |
| 19 | 120 | 189 | | 189 | 193 | 193 | 98 | 100 | 78 | 56 | 64 | 67 |
| 20 | 110 | 188 | | 193 | 211 | 191 | 103 | 101 | 81 | 58 | 66 | 67 |
| 21 | 118 | 188 | | 191 | 223 | 191 | 128 | 101 | 80 | 67 | 62 | 65 |
| 22 | 122 | 189 | | 191 | 211 | 186 | 211 | 98 | 75 | 75 | 64 | 65 |
| 23 | 122 | 191 | | 193 | 213 | 183 | 225 | 98 | 71 | 68 | 62 | 61 |
| 24 | 118 | 189 | | 201 | 247 | 180 | 231 | 98 | 69 | 65 | 61 | 69 |
| 25 | 122 | 193 | | 188 | 231 | 177 | 239 | 96 | 74 | 62 | 61 | 76 |
| 26 | 131 | 188 | | 186 | 221 | 174 | 233 | 98 | 75 | 62 | 60 | 75 |
| 27 | 125 | 186 | | 191 | 221 | 172 | 227 | 96 | 72 | 60 | 61 | 78 |
| 28 | 125 | 189 | | 193 | 213 | 169 | 207 | 98 | 69 | 60 | 64 | 80 |
| 29 | 125 | 189 | | 195 | 166 | 166 | 195 | 103 | 67 | 60 | 69 | 80 |
| 30 | 125 | 188 | | 199 | 163 | 184 | *100 | 67 | 60 | 60 | 65 | 75 |
| 31 | 125 | | | 202 | 148 | | *97 | | 58 | 58 | 65 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 153 | 110 | 132 | 8,140 | | |
| November | | | | | | | 193 | 131 | 168 | 9,970 | | |
| December | | | | | | | | | 189 | 11,640 | | |
| January | | | | | | | | | 191 | 11,750 | | |
| February | | | | | | | 247 | 188 | 207 | 11,520 | | |
| March | | | | | | | 211 | 148 | 191 | 11,730 | | |
| April | | | | | | | 239 | 98 | 145 | 8,610 | | |
| May | | | | | | | 184 | 95 | 111 | 8,940 | | |
| June | | | | | | | 95 | 67 | 81.3 | 4,840 | | |
| July | | | | | | | 75 | 54 | 61.0 | 3,750 | | |
| August | | | | | | | 69 | 56 | 63.2 | 3,890 | | |
| September | | | | | | | 80 | 56 | 66.9 | 3,980 | | |
| The year | | | | | | | 247 | 54 | 134 | 96,660 | | |

*Estimated.

Provo River at Provo, Utah

Location.- Staff gage in SE $\frac{1}{4}$ sec. 3, T. 7 S., R. 2 E., a quarter of a mile below highway bridge and 2 miles west of the City Hall at Provo.

Records available.- May 1933 to September 1934. Records obtained three-quarters of a mile upstream May 1903 to June 1905. Except for two small ditches the flow is the same at both points.

Extremes.- Maximum discharge recorded during year, 232 second-feet Feb. 25-27 (gage height, 2.62 feet); no flow during part of year.

Remarks.- Records fair. Discharge estimated Nov. 19 to Jan. 13. Station below diversions except one small ditch. At times the entire flow is diverted above station for irrigation. Factory Race diverts water above station into Provo Bay, an arm of Utah Lake. Provo River Water Commissioner furnished the following record of this flow for 1933-34:

| Month | Run-off in acre feet | Month | Run-off in acre feet | Month | Run-off in acre feet |
|----------|-------------------------|----------|-------------------------|-----------|-------------------------|
| October | 0 | February | 1,700 | June | 0 |
| November | 2,130 | March | 2,220 | July | 0 |
| December | 2,480 | April | 80 | August | 0 |
| January | 2,480 | May | 0 | September | 0 |
| The year | | | | | 11,090 |

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | 0 | 13 | | | 176 | 193 | 4 | 1 | | | | |
| 2 | 0 | 16 | | | 176 | 181 | 6 | 1 | | | | |
| 3 | 0 | 19 | | | 176 | 181 | 7 | 1 | | | | |
| 4 | 0 | 19 | | | 176 | 181 | 7 | 1 | | | | |
| 5 | 0 | 9 | | | 176 | 181 | 7 | 1 | | | | |
| 6 | 0 | 13 | | | 188 | 181 | 6 | 1 | | | | |
| 7 | 0 | 39 | | 170 | 216 | 181 | 5 | 1 | | | | |
| 8 | 1 | 69 | | | 221 | 176 | 7 | 1 | | | | |
| 9 | 1 | 8 | | | 218 | 176 | 6 | 1 | | | | |
| 10 | 1 | 8 | | | 213 | 174 | 4 | 1 | | | | |
| 11 | 1 | 9 | | | 205 | 176 | 4 | 0 | | | | |
| 12 | 1 | 10 | | | 205 | 176 | 4 | 0 | | | | |
| 13 | 1 | 10 | | | 200 | 176 | 4 | 0 | | | | |
| 14 | 1 | 10 | | 172 | 200 | 174 | 4 | 0 | | | | |
| 15 | 1 | 9 | | 172 | 200 | 154 | 4 | 0 | | | | |
| 16 | 1 | 10 | | 169 | 193 | 146 | 3 | 0 | | | | |
| 17 | 1 | 14 | | 167 | 186 | 139 | 2 | 0 | | | | |
| 18 | 2 | 20 | | 167 | 176 | 119 | 2 | 0 | | | | |
| 19 | 3 | | | 167 | 172 | 113 | 2 | 0 | | | | |
| 20 | 4 | | | 169 | 186 | 113 | 2 | 0 | | | | |
| 21 | 4 | | | 172 | 203 | 113 | 0 | 0 | | | | |
| 22 | 4 | | | 172 | 210 | 113 | 0 | 0 | | | | |
| 23 | 3 | | | 172 | 221 | 113 | 0 | 0 | | | | |
| 24 | 3 | 100 | | 169 | 229 | 94 | 0 | 0 | | | | |
| 25 | 3 | | | 169 | 232 | 77 | 0 | 0 | | | | |
| 26 | 4 | | | 172 | 232 | 77 | 0 | 0 | | | | |
| 27 | 6 | | | 172 | 232 | 77 | 0 | 0 | | | | |
| 28 | 7 | | | 172 | 223 | 54 | 0 | 0 | | | | |
| 29 | 4 | | | 172 | | 11 | 0 | 0 | | | | |
| 30 | 4 | | | 172 | | 4 | 0 | 0 | | | | |
| 31 | 8 | | | 174 | | 4 | | 0 | | | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 8 | 0 | 2.2 | 137 | | |
| November | | | | | | | | 8 | 50.2 | 2,990 | | |
| December | | | | | | | | | 170 | 10,450 | | |
| January | | | | | | | | | 170 | 10,470 | | |
| February | | | | | | | 232 | 172 | 201 | 11,190 | | |
| March | | | | | | | 193 | 4 | 130 | 7,990 | | |
| April | | | | | | | 7 | 0 | 3.0 | 179 | | |
| May | | | | | | | 1 | 0 | .3 | 20 | | |
| June | | | | | | | 0 | 0 | 0 | 0 | | |
| July | | | | | | | 0 | 0 | 0 | 0 | | |
| August | | | | | | | 0 | 0 | 0 | 0 | | |
| September | | | | | | | 0 | 0 | 0 | 0 | | |
| The year | | | | | | | | 0 | 60.0 | 43,430 | | |

Weber-Provo diversion canal near Woodland, Utah

Location.- Parshall measuring flume in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 30, T. 2 S., R. 6 E., 100 feet above confluence with Provo River and $4\frac{1}{4}$ miles northwest of Woodland.

Records available.- October 1931 to September 1934.

Remarks.- Canal diverts from Weber River in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 1 S., R. 6 E., for irrigation use in the Provo River Basin. Records show quantity of water reaching the Provo River. Daily-discharge records furnished by Provo River water commissioner.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | | | | | | | 0 | 84 | | | | |
| 2 | | | | | | | 0 | 88 | | | | |
| 3 | | | | | | | 0 | 88 | | | | |
| 4 | | | | | | | 0 | 38 | | | | |
| 5 | | | | | | | 0 | 0 | | | | |
| 6 | | | | | | | 0 | 0 | | | | |
| 7 | | | | | | | 0 | 0 | | | | |
| 8 | | | | | | | 0 | 0 | | | | |
| 9 | | | | | | | 0 | 0 | | | | |
| 10 | | | | | | | 0 | 0 | | | | |
| 11 | | | | | | | 0 | 0 | | | | |
| 12 | | | | | | | 0 | 0 | | | | |
| 13 | | | | | | | 0 | 0 | | | | |
| 14 | | | | | | | 0 | 0 | | | | |
| 15 | | | | | | | 0 | 0 | | | | |
| 16 | | | | | | | 0 | 0 | | | | |
| 17 | | | | | | | 0 | 0 | | | | |
| 18 | | | | | | | 0 | 0 | | | | |
| 19 | | | | | | | 0 | 0 | | | | |
| 20 | | | | | | | 0 | 0 | | | | |
| 21 | | | | | | | 60 | 0 | | | | |
| 22 | | | | | | | 97 | 0 | | | | |
| 23 | | | | | | | 101 | 0 | | | | |
| 24 | | | | | | | 104 | 0 | | | | |
| 25 | | | | | | | 108 | 0 | | | | |
| 26 | | | | | | | 108 | 0 | | | | |
| 27 | | | | | | | 108 | 0 | | | | |
| 28 | | | | | | | 94 | 0 | | | | |
| 29 | | | | | | | 84 | 0 | | | | |
| 30 | | | | | | | 84 | 0 | | | | |
| 31 | | | | | | | | 0 | | | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 0 | 0 | 0 | 0 | | |
| November | | | | | | | 0 | 0 | 0 | 0 | | |
| December | | | | | | | 0 | 0 | 0 | 0 | | |
| January | | | | | | | 0 | 0 | 0 | 0 | | |
| February | | | | | | | 0 | 0 | 0 | 0 | | |
| March | | | | | | | 0 | 0 | 0 | 0 | | |
| April | | | | | | | 108 | 0 | 31.5 | 1,880 | | |
| May | | | | | | | 88 | 0 | 9.6 | 591 | | |
| June | | | | | | | 0 | 0 | 0 | 0 | | |
| July | | | | | | | 0 | 0 | 0 | 0 | | |
| August | | | | | | | 0 | 0 | 0 | 0 | | |
| September | | | | | | | 0 | 0 | 0 | 0 | | |
| The year | | | | | | | 108 | 0 | 3.4 | 2,470 | | |

Note.- No flow during months left blank.

South Fork of Provo River at Forks, Utah

Location.- Water-stage recorder and Parshall flume in sec. 26, T. 5 S., R. 3 E., a quarter of a mile above Forks and Vivian Park and half a mile above confluence with Provo River. Prior to Nov. 21 staff gage 1,000 feet downstream was used.

Drainage area.- 30 square miles.

Records available.- November 1911 to September 1934.

Average discharge.- 22 years (1912-34), 31.5 second-feet.

Extremes.- Maximum discharge recorded during year, 32 second-feet Dec. 13 (gage height, 0.94 foot); minimum daily discharge, 13 second-feet several days during July to September.

1911-34: Maximum discharge recorded, 123 second-feet May 27, 1922; minimum, that of 1934.

Remarks.- Records good except those above 20 second-feet and those estimated, which are fair. Station below all diversions. Flow regulated by diversions above. Results of several discharge measurements furnished by Utah Power & Light Co.

Discharge, in second-feet, 1933-34

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

| Month | Maximum | Minimum | Mean | Run-off in acre-feet |
|-----------|---------|---------|------|----------------------|
| October | 24 | 20 | 23.0 | 1,420 |
| November | 26 | 23 | 24.3 | 1,440 |
| December | 30 | 23 | 25.9 | 1,590 |
| January | 24 | 21 | 22.6 | 1,390 |
| February | 25 | 22 | 22.1 | 1,230 |
| March | 22 | 16 | 20.1 | 1,250 |
| April | 20 | 14 | 16.2 | 962 |
| May | 16 | 14 | 15.4 | 946 |
| June | 16 | 14 | 15.0 | 893 |
| July | 16 | 13 | 14.9 | 916 |
| August | 15 | 13 | 13.6 | 839 |
| September | 15 | 13 | 13.3 | 793 |
| The year | 30 | 13 | 18.9 | 13,650 |

*Estimated.

Sevier River near Kingston, Utah

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

Drainage area.- 1,110 square miles.

Records available.- June 1914 to September 1934.

Average discharge.- 20 years, 155 second-feet.

Extremes.- Maximum discharge during year, 184 second-feet Feb. 4 (gage height, 1.50 feet); minimum daily discharge, 6 second-feet Apr. 30, May 1.
1914-34: Maximum discharge, 1,460 second-feet May 21, 1922 (gage height, 4.92 feet); minimum daily discharge, 5 second-feet June 16-20, 1931.

Remarks.- Records good except those estimated, which are fair. Numerous diversions above station; none between gage and mouth of East Fork.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 26 | *65 | 140 | 162 | 123 | 123 | 72 | 6 | 12 | 9 | 7 | 10 |
| 2 | 26 | *70 | 135 | 174 | 137 | 123 | 68 | *8 | 11 | 9 | 7 | 10 |
| 3 | 26 | *75 | 129 | 149 | 162 | 123 | 60 | *10 | 11 | 9 | 7 | 10 |
| 4 | *26 | *80 | 135 | 146 | 168 | 123 | 55 | 13 | 10 | 10 | 7 | 10 |
| 5 | *26 | 88 | 135 | 143 | 152 | 123 | 49 | 13 | 11 | 10 | 8 | 10 |
| 6 | 26 | *92 | 135 | 137 | 140 | 123 | 38 | *13 | 11 | 10 | 8 | 10 |
| 7 | *30 | *96 | 132 | 135 | 137 | 123 | 29 | 13 | 11 | 10 | 8 | 10 |
| 8 | *34 | *100 | 132 | 135 | 137 | 118 | 26 | 13 | 10 | 10 | *9 | 10 |
| 9 | *38 | *104 | 129 | *132 | 135 | 118 | 24 | 13 | 11 | 9 | 10 | 13 |
| 10 | *42 | *108 | 129 | *128 | 135 | *118 | 21 | 11 | 11 | 10 | 10 | 10 |
| 11 | *46 | *110 | 132 | *124 | 135 | 118 | 13 | *11 | 11 | 10 | 10 | 10 |
| 12 | *50 | 112 | 132 | *120 | 132 | 118 | 10 | *12 | 11 | 9 | 10 | 10 |
| 13 | *54 | *112 | *126 | *116 | 132 | *118 | 10 | *13 | 10 | *9 | 9 | 10 |
| 14 | *58 | *112 | *120 | *112 | 132 | *116 | 10 | 13 | 9 | 9 | 9 | 10 |
| 15 | 58 | *112 | *114 | *110 | 132 | *116 | 10 | 13 | 10 | 8 | 15 | 11 |
| 16 | *58 | 112 | *108 | 108 | 132 | *114 | 11 | 13 | 9 | 8 | 10 | 11 |
| 17 | *58 | 105 | *108 | *108 | 135 | *114 | 10 | 13 | 9 | 8 | 9 | 10 |
| 18 | *58 | 102 | 102 | 110 | *130 | *114 | 11 | *13 | 9 | 8 | 9 | 10 |
| 19 | *58 | 102 | *106 | *110 | 123 | *112 | 12 | *13 | 10 | 8 | 10 | 10 |
| 20 | *58 | 105 | *110 | *110 | 126 | 112 | 12 | 13 | 9 | 8 | 10 | 10 |
| 21 | *58 | 108 | *114 | *112 | 129 | 123 | 13 | 13 | 9 | 8 | 13 | *10 |
| 22 | 58 | 108 | *118 | *112 | 129 | 123 | 13 | 11 | 9 | 8 | 16 | *11 |
| 23 | *58 | 110 | *120 | 112 | 135 | 115 | *12 | 10 | 8 | 8 | 15 | *12 |
| 24 | *58 | 112 | 123 | 129 | 143 | 112 | 12 | 10 | 8 | 8 | 12 | *13 |
| 25 | *58 | 118 | 123 | 126 | 140 | 118 | 10 | *10 | 8 | 8 | 10 | 14 |
| 26 | *58 | 118 | 132 | 126 | 132 | 116 | 10 | *10 | 8 | 8 | 18 | 14 |
| 27 | *58 | 118 | 132 | 129 | 129 | 110 | 9 | 10 | 8 | 8 | 68 | 14 |
| 28 | *58 | 118 | 137 | 129 | 129 | 110 | 8 | 10 | 8 | 8 | 44 | 15 |
| 29 | *58 | 118 | 135 | 129 | 129 | *100 | 7 | 23 | 8 | 8 | 12 | 15 |
| 30 | *58 | 137 | 132 | 126 | 126 | 79 | 6 | 19 | 8 | 8 | 10 | 16 |
| 31 | 58 | | 143 | 123 | | *72 | | 15 | | 7 | 10 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 58 | 26 | 48.2 | 2,960 | | |
| November | | | | | | | 137 | 65 | 104 | 6,200 | | |
| December | | | | | | | 143 | 102 | 126 | 7,730 | | |
| January | | | | | | | 174 | 108 | 126 | 7,760 | | |
| February | | | | | | | 168 | 123 | 136 | 7,540 | | |
| March | | | | | | | 123 | 72 | 114 | 7,040 | | |
| April | | | | | | | 72 | 6 | 21.7 | 1,290 | | |
| May | | | | | | | 23 | 6 | 12.3 | 756 | | |
| June | | | | | | | 12 | 8 | 9.6 | 571 | | |
| July | | | | | | | 10 | 7 | 8.6 | 532 | | |
| August | | | | | | | 68 | 7 | 13.2 | 813 | | |
| September | | | | | | | 16 | 10 | 11.3 | 672 | | |
| The year | | | | | | | 174 | 6 | 60.6 | 43,860 | | |

*Estimated.

SEVIER LAKE BASIN

Piute Reservoir near Marysville, Utah

Location.- Staff gage in NW $\frac{1}{4}$ sec. 3. T. 29 S., R. 3 W., at Piute Dam, 11 miles south of Marysville.

Records available.- March 1914 to September 1934.

Remarks.- Capacity of reservoir, 90,000 acre-feet. Gage-height record furnished by Piute Reservoir & Irrigation Co.

Contents, in acre-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|-------|-------|--------|--------|--------|--------|--------|--------|-------|------|------|-------|
| 1 | 1,880 | 2,820 | 6,960 | 13,150 | 17,560 | 21,800 | 27,600 | 18,160 | 5,600 | 0 | | |
| 2 | 1,880 | 2,880 | 7,280 | 13,260 | 17,680 | 22,080 | 27,520 | 17,800 | 6,000 | 0 | | |
| 3 | 1,800 | 3,000 | 7,440 | 13,370 | 17,920 | 22,500 | 27,450 | 17,560 | 6,560 | 0 | | |
| 4 | 1,760 | 3,060 | 7,600 | 13,480 | 18,040 | 22,800 | 27,380 | 17,320 | 6,480 | 0 | | |
| 5 | 1,720 | 3,180 | 7,780 | 13,590 | 18,160 | 23,100 | 27,300 | 16,840 | 6,560 | 10 | | |
| 6 | 1,680 | 3,260 | 7,960 | 13,700 | 18,280 | 23,400 | 27,220 | 16,480 | 6,640 | 20 | | |
| 7 | 1,640 | 3,540 | 8,140 | 13,920 | 18,280 | 23,700 | 27,150 | 16,120 | 6,640 | 20 | | |
| 8 | 1,600 | 3,720 | 8,320 | 14,140 | 18,400 | 23,850 | 27,000 | 15,760 | 6,720 | 0 | | |
| 9 | 1,640 | 3,840 | 8,500 | 14,250 | 18,400 | 24,000 | 26,850 | 15,280 | 6,800 | 0 | | |
| 10 | 1,680 | 3,960 | 8,700 | 14,470 | 18,530 | 24,150 | 26,700 | 14,800 | 6,720 | 0 | | |
| 11 | 1,720 | 4,080 | 9,000 | 14,580 | 18,660 | 24,450 | 26,400 | 14,360 | 6,640 | 0 | | |
| 12 | 1,960 | 4,200 | 9,300 | 14,690 | 18,660 | 24,750 | 26,100 | 13,920 | 6,560 | 0 | | |
| 13 | 2,120 | 4,320 | 9,600 | 14,800 | 18,790 | 24,900 | 25,650 | 13,370 | 6,400 | 0 | | |
| 14 | 2,200 | 4,440 | 10,000 | 15,040 | 18,920 | 25,050 | 25,200 | 12,820 | 6,160 | 0 | | |
| 15 | 2,160 | 4,500 | 10,400 | 15,280 | 19,050 | 25,300 | 24,750 | 12,270 | 5,920 | 0 | | |
| 16 | 2,160 | 4,640 | 10,800 | 15,400 | 19,180 | 25,500 | 24,300 | 11,830 | 5,680 | 0 | | |
| 17 | 2,120 | 4,710 | 10,900 | 15,520 | 19,310 | 25,650 | 24,000 | 11,500 | 5,440 | 0 | | |
| 18 | 2,160 | 4,850 | 11,000 | 15,640 | 19,440 | 25,800 | 23,550 | 11,000 | 5,130 | 0 | | |
| 19 | 2,200 | 4,990 | 11,100 | 15,760 | 19,570 | 25,950 | 23,250 | 10,500 | 4,850 | 0 | | |
| 20 | 2,300 | 5,130 | 11,200 | 16,000 | 19,700 | 26,100 | 22,950 | 10,000 | 4,500 | 0 | | |
| 21 | 2,400 | 5,280 | 11,300 | 16,240 | 19,840 | 26,250 | 22,650 | 9,500 | 4,260 | 0 | | |
| 22 | 2,500 | 5,360 | 11,400 | 16,360 | 19,980 | 26,400 | 22,220 | 9,000 | 3,960 | 0 | | |
| 23 | 2,600 | 5,440 | 11,500 | 16,480 | 20,120 | 26,550 | 21,800 | 8,410 | 3,660 | 0 | | |
| 24 | 2,650 | 5,520 | 11,610 | 16,600 | 20,260 | 26,700 | 21,380 | 7,870 | 3,060 | 0 | | |
| 25 | 2,700 | 5,600 | 11,720 | 16,720 | 20,540 | 26,850 | 20,960 | 7,360 | 2,200 | 0 | | |
| 26 | 2,760 | 5,760 | 11,940 | 16,840 | 20,960 | 27,080 | 20,540 | 6,800 | 1,760 | 0 | | |
| 27 | 2,820 | 6,000 | 12,160 | 16,960 | 21,240 | 27,300 | 20,120 | 6,480 | 1,260 | 0 | | |
| 28 | 2,880 | 6,240 | 12,380 | 17,080 | 21,520 | 27,450 | 19,570 | 5,920 | 800 | 0 | | |
| 29 | 2,880 | 6,480 | 12,600 | 17,200 | | 27,520 | 19,050 | 5,520 | 0 | 0 | | |
| 30 | 2,880 | 6,720 | 12,820 | 17,320 | | 27,600 | 18,530 | 5,200 | 0 | 0 | | |
| 31 | 2,880 | | 13,040 | 17,440 | | 27,750 | | 5,200 | | 0 | | |

Note: Storage on Sept. 30, 1933, was 1,800 acre-feet. No storage during August and September, 1934.

Sevier River below Piute Dam, near Marysville, Utah

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

Drainage area.- 2,440 square miles.

Records available.- May to August 1911, May 1912 to September 1934.

Average discharge.- 22 years (1912-34), 267 second-feet.

Extremes.- Maximum daily discharge during year, 360 second-feet May 20-25 (gage height, 1.79 feet); minimum (principally leakage), 2 second-feet Oct. 12.
1911-34: Maximum discharge, 2,600 second-feet May 23-24, 1922 (gage height, 4.45 feet); practically no flow at times when reservoir gates are closed.

Remarks.- Records fair. Discharge estimated Aug. 8, Sept. 26. No diversion between gage and Piute Reservoir. Flow regulated by operation of gates in dam.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
|-----------|------|------|------|------|------|------|---------|-----|---------|------|------|-------|-------------------------|--|
| 1 | 49 | 146 | 124 | 128 | 128 | 3 | 93 | 353 | 7 | 100 | 40 | 42 | | |
| 2 | 46 | 103 | 124 | 128 | 128 | 6 | 107 | 353 | 5 | 100 | 38 | 42 | | |
| 3 | 111 | 96 | 124 | 128 | 128 | 13 | 160 | 340 | 5 | 111 | 38 | 42 | | |
| 4 | 85 | 96 | 124 | 128 | 128 | 13 | 137 | 346 | 36 | 120 | 40 | 42 | | |
| 5 | 116 | 96 | 124 | 128 | 128 | 20 | 93 | 346 | 96 | 128 | 40 | 42 | | |
| 6 | 116 | 96 | 124 | 128 | 128 | 45 | 107 | 353 | 116 | 124 | 41 | 42 | | |
| 7 | 111 | 96 | 124 | 128 | 128 | 45 | 116 | 353 | 128 | 103 | 42 | 42 | | |
| 8 | 104 | 96 | 124 | 128 | 128 | 45 | 116 | 353 | 124 | 120 | 45 | 42 | | |
| 9 | 68 | 124 | 124 | 128 | 128 | 45 | 120 | 353 | 93 | 120 | 48 | 42 | | |
| 10 | 51 | 124 | 124 | 128 | 128 | 45 | 155 | 353 | 128 | 116 | 45 | 42 | | |
| 11 | 15 | 124 | 124 | 128 | 128 | 45 | 174 | 353 | 160 | 116 | 45 | 45 | | |
| 12 | 2 | 124 | 124 | 128 | 128 | 45 | 243 | 353 | 155 | 100 | 48 | 45 | | |
| 13 | 45 | 124 | 124 | 128 | 128 | 45 | 308 | 353 | 174 | 89 | 51 | 45 | | |
| 14 | 111 | 124 | 124 | 128 | 128 | 45 | 334 | 353 | 210 | 82 | 54 | 45 | | |
| 15 | 111 | 124 | 124 | 128 | 128 | 45 | 334 | 334 | 243 | 76 | 56 | 45 | | |
| 16 | 111 | 124 | 124 | 128 | 128 | 45 | 320 | 272 | 272 | 71 | 54 | 45 | | |
| 17 | 111 | 124 | 124 | 128 | 128 | 42 | 278 | 327 | 266 | 68 | 51 | 45 | | |
| 18 | 111 | 124 | 124 | 128 | 128 | 42 | 272 | 353 | 264 | 65 | 48 | 45 | | |
| 19 | 93 | 124 | 124 | 128 | 128 | 42 | 272 | 353 | 221 | 65 | 42 | 48 | | |
| 20 | 75 | 124 | 124 | 128 | 128 | 42 | 272 | 360 | 243 | 62 | 42 | 51 | | |
| 21 | 75 | 124 | 124 | 128 | 128 | 42 | 272 | 360 | 290 | 71 | 42 | 51 | | |
| 22 | 75 | 124 | 124 | 128 | 128 | 42 | 290 | 360 | 314 | 56 | 42 | 51 | | |
| 23 | 75 | 124 | 124 | 128 | 128 | 42 | 327 | 360 | 334 | 56 | 45 | 48 | | |
| 24 | 75 | 124 | 124 | 128 | 128 | 42 | 327 | 360 | 340 | 45 | 42 | 45 | | |
| 25 | 75 | 124 | 124 | 128 | 5 | 42 | 327 | 360 | 340 | 48 | 42 | 48 | | |
| 26 | 75 | 124 | 124 | 128 | 5 | 42 | 327 | 302 | 327 | 48 | 42 | 50 | | |
| 27 | 75 | 124 | 124 | 128 | 5 | 45 | 353 | 278 | 314 | 48 | 78 | 51 | | |
| 28 | 100 | 124 | 124 | 128 | 3 | 45 | 353 | 272 | 266 | 45 | 93 | 45 | | |
| 29 | 111 | 124 | 124 | 128 | | 45 | 353 | 272 | 150 | 42 | 56 | 40 | | |
| 30 | 111 | 124 | 124 | 128 | | 56 | 353 | 254 | 100 | 42 | 54 | 40 | | |
| 31 | 124 | | 124 | 128 | | 78 | | 34 | | 42 | 51 | | | |
| Month | | | | | | | Maximum | | Minimum | | Mean | | Run-off in acre-feet | |
| October | | | | | | | 124 | | 2 | | 84.2 | | 5,180 | |
| November | | | | | | | 146 | | 96 | | 118 | | 7,050 | |
| December | | | | | | | 124 | | 124 | | 124 | | 7,820 | |
| January | | | | | | | 128 | | 128 | | 128 | | 7,870 | |
| February | | | | | | | 128 | | 5 | | 110 | | 6,130 | |
| March | | | | | | | 78 | | 3 | | 40.0 | | 2,460 | |
| April | | | | | | | 353 | | 93 | | 243 | | 14,450 | |
| May | | | | | | | 360 | | 34 | | 327 | | 20,080 | |
| June | | | | | | | 340 | | 5 | | 180 | | 11,330 | |
| July | | | | | | | 128 | | 42 | | 80.0 | | 4,920 | |
| August | | | | | | | 93 | | 38 | | 48.2 | | 2,970 | |
| September | | | | | | | 51 | | 40 | | 44.9 | | 2,670 | |
| The year | | | | | | | 360 | | 2 | | 128 | | 92,730 | |

Sevier River near Vermilion, Utah

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

Drainage area.- 3,340 square miles.

Records available.- July to September 1912, July 1914 to September 1934.

Average discharge.- 20 years (1914-34), 125 second-feet.

Extremes.- Maximum daily discharge during year, 174 second-feet Jan. 2 (gage height, 4.15 feet); practically no flow (seepage only) during latter part of year.
1914-34: Maximum discharge, 2,400 second-feet May 30, 1922 (gage height, about 8.1 feet); practically no flow (seepage only) when Rockyford gates are closed.

Remarks.- Records good except those estimated, which are fair. Entire flow usually diverted during low-water season. Flow past station at such times represents seepage and return flow from canals. Flow also regulated by dams and reservoirs above.

Discharge, in second-feet, 1935-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 3 | *52 | 69 | 171 | 136 | 11 | 37 | 49 | 145 | *1 | | |
| 2 | 2 | 52 | 90 | 174 | 136 | 11 | 37 | 49 | 140 | *1 | | |
| 3 | 2 | *52 | 90 | 156 | 136 | *11 | 37 | 59 | 69 | *1 | | |
| 4 | 2 | *55 | 90 | 145 | 136 | *11 | 58 | 64 | 5 | *1 | | |
| 5 | 2 | *55 | 92 | 138 | 130 | *11 | 117 | 59 | 5 | *1 | | |
| 6 | 2 | *54 | 92 | 136 | 121 | *11 | 117 | 59 | 3 | *1 | | |
| 7 | 2 | *54 | 92 | 136 | 117 | *11 | 103 | 65 | *2 | *1 | | |
| 8 | 3 | *55 | 92 | 136 | 105 | *23 | 94 | 69 | 2 | *1 | | |
| 9 | 2 | *55 | 92 | 130 | 102 | 35 | 100 | 69 | 2 | *1 | | |
| 10 | 2 | 56 | 92 | 125 | 110 | *50 | 34 | 68 | 2 | *1 | | |
| 11 | 3 | *56 | 94 | 132 | 108 | *125 | 15 | 64 | 2 | *1 | | |
| 12 | *3 | *56 | 94 | 132 | 107 | *125 | 15 | 65 | 2 | *1 | | |
| 13 | *3 | *58 | 94 | 132 | 107 | *125 | 20 | 62 | 10 | *1 | | |
| 14 | *3 | *60 | 95 | 132 | 105 | *125 | 20 | 57 | 21 | *1 | | |
| 15 | *3 | *62 | 95 | 132 | 105 | 125 | 50 | 60 | 21 | *1 | | |
| 16 | 25 | *66 | 95 | 132 | 105 | *140 | 98 | 72 | 21 | 113 | | |
| 17 | *46 | *68 | 97 | 132 | 110 | *140 | 98 | 90 | 21 | 146 | | |
| 18 | *46 | *70 | 97 | 132 | 112 | *140 | 98 | 94 | 15 | 67 | | |
| 19 | 46 | *74 | 97 | 132 | 114 | *140 | 97 | 65 | *1 | 65 | | |
| 20 | *46 | 75 | 98 | 132 | 112 | *110 | 94 | 68 | *1 | 41 | | |
| 21 | *47 | 81 | 98 | 132 | 112 | 13 | 80 | 54 | *1 | 40 | | |
| 22 | *47 | 82 | 98 | 134 | 112 | 13 | 72 | 50 | *1 | 32 | | |
| 23 | *48 | 82 | 102 | 134 | 115 | 13 | 62 | 48 | *1 | 35 | | |
| 24 | *48 | 84 | 102 | 134 | 117 | 13 | 47 | 42 | *1 | 14 | | |
| 25 | *49 | 84 | 103 | 134 | 117 | 13 | 36 | 43 | *1 | *4 | | |
| 26 | *49 | 84 | 103 | 134 | 60 | 13 | 33 | 54 | *1 | *2 | | |
| 27 | 50 | 86 | 105 | 134 | 11 | 13 | 32 | 70 | *1 | *1 | | |
| 28 | *50 | 86 | 105 | 134 | 11 | 13 | 33 | 100 | *1 | *1 | | |
| 29 | *50 | 87 | 107 | 134 | | *20 | 33 | 119 | *1 | *1 | | |
| 30 | *51 | 89 | 108 | 136 | | *25 | 50 | 136 | *1 | *1 | | |
| 31 | *51 | | 126 | 136 | | *30 | | 151 | | *1 | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 51 | 2 | 25.4 | 1,560 | | |
| November | | | | | | | 89 | 52 | 67.6 | 4,020 | | |
| December | | | | | | | 126 | 89 | 97.5 | 6,000 | | |
| January | | | | | | | 174 | 125 | 137 | 8,410 | | |
| February | | | | | | | 136 | 11 | 106 | 5,890 | | |
| March | | | | | | | 140 | 11 | 53.5 | 3,290 | | |
| April | | | | | | | 117 | 15 | 60.6 | 3,600 | | |
| May | | | | | | | 151 | 42 | 70.1 | 4,310 | | |
| June | | | | | | | 145 | 1 | 16.5 | 984 | | |
| July | | | | | | | 146 | 1 | 18.6 | 1,140 | | |
| August | | | | | | | | | *1 | 61 | | |
| September | | | | | | | | | *1 | 60 | | |
| The year | | | | | | | 174 | 1 | 54.3 | 39,320 | | |

*Estimated.

†Field estimate.

Sevier River below San Pitch River, near Gunnison, Utah

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

Drainage area.- 4,880 square miles.

Records available.- October 1917 to September 1934.

Average discharge.- 17 years, 249 second-feet.

Extremes.- Maximum discharge during year, 279 second-feet Jan. 2 (gage height, 1.73 feet); minimum daily discharge, 8 second-feet July 13-17, Sept. 8, 1917-34; Maximum discharge, 2,620 second-feet June 1, 1922 (gage height, 5.32 feet); minimum, that of July and September 1934.

Remarks.- Records good. Discharge estimated Jan. 9-13, Mar. 26-30. Most of flow is diverted above station during irrigation season. Flow regulated by operation of reservoirs and numerous irrigation diversions above.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 46 | 74 | 148 | 204 | 234 | 125 | 61 | 63 | 136 | 25 | 12 | 14 |
| 2 | 48 | 72 | 151 | 259 | 234 | 91 | 61 | 68 | 146 | 27 | 11 | 14 |
| 3 | 70 | 70 | 151 | 263 | 237 | 87 | 61 | 83 | 141 | 29 | 10 | 14 |
| 4 | 67 | 74 | 156 | 237 | 237 | 87 | 61 | 89 | 116 | 30 | 10 | 13 |
| 5 | 64 | 74 | 156 | 222 | 234 | 87 | 87 | 95 | 56 | 30 | 22 | 10 |
| 6 | 52 | 74 | 151 | 207 | 222 | 85 | 153 | 95 | 45 | 30 | 21 | 8 |
| 7 | 45 | 74 | 155 | 185 | 216 | 83 | 153 | 95 | 45 | 18 | 20 | 11 |
| 8 | 42 | 72 | 159 | 179 | 207 | 81 | 153 | 91 | 44 | 13 | 19 | 14 |
| 9 | 52 | 74 | 161 | 170 | 204 | 79 | 153 | 95 | 43 | 13 | 20 | 16 |
| 10 | 54 | 76 | 164 | 175 | 204 | 79 | 153 | 83 | 54 | 13 | 22 | 16 |
| 11 | 55 | 76 | 164 | 185 | 201 | 79 | 118 | 93 | 51 | 13 | 23 | 16 |
| 12 | 56 | 78 | 169 | 195 | 196 | 93 | 83 | 85 | 50 | 9 | 24 | 16 |
| 13 | 65 | 78 | 161 | 200 | 190 | 120 | 83 | 85 | 44 | 8 | 15 | 17 |
| 14 | 70 | 80 | 161 | 210 | 193 | 141 | 83 | 91 | 33 | 8 | 14 | 19 |
| 15 | 69 | 84 | 146 | 216 | 187 | 127 | 83 | 89 | 30 | 8 | 12 | 20 |
| 16 | 69 | 88 | 131 | 225 | 182 | 146 | 118 | 68 | 30 | 8 | 15 | 21 |
| 17 | 70 | 92 | 121 | 225 | 182 | 161 | 163 | 79 | 28 | 8 | 12 | 20 |
| 18 | 90 | 92 | 128 | 228 | 185 | 168 | 163 | 97 | 33 | 26 | 11 | 19 |
| 19 | 88 | 103 | 141 | 225 | 187 | 166 | 187 | 114 | 23 | 58 | 11 | 19 |
| 20 | 84 | 114 | 151 | 231 | 187 | 158 | 174 | 97 | 19 | 87 | 12 | 19 |
| 21 | 64 | 126 | 161 | 234 | 196 | 146 | 161 | 76 | 16 | 74 | 12 | 17 |
| 22 | 58 | 131 | 172 | 240 | 190 | 131 | 148 | 79 | 16 | 60 | 13 | 17 |
| 23 | 62 | 133 | 172 | 243 | 193 | 87 | 107 | 72 | 16 | 65 | 22 | 17 |
| 24 | 65 | 133 | 167 | 250 | 199 | 78 | 107 | 72 | 16 | 54 | 21 | 19 |
| 25 | 65 | 136 | 167 | 240 | 201 | 68 | 107 | 72 | 16 | 37 | 20 | 21 |
| 26 | 69 | 138 | 172 | 231 | 201 | 68 | 107 | 72 | 16 | 29 | 20 | 22 |
| 27 | 69 | 138 | 175 | 234 | 171 | 66 | 107 | 74 | 16 | 22 | 21 | 22 |
| 28 | 69 | 141 | 178 | 231 | 139 | 64 | 72 | 78 | 16 | 17 | 14 | 22 |
| 29 | 72 | 143 | 178 | 228 | | 62 | 68 | 97 | 27 | 14 | 14 | 22 |
| 30 | 70 | 148 | 184 | 231 | | 62 | 68 | 109 | 26 | 14 | 15 | 22 |
| 31 | 72 | | 186 | 228 | | 61 | | 120 | | 13 | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 90 | 42 | 64.2 | 3,950 | | |
| November | | | | | | | 148 | 70 | 99.6 | 5,930 | | |
| December | | | | | | | 186 | 121 | 158 | 9,730 | | |
| January | | | | | | | 263 | 170 | 220 | 15,650 | | |
| February | | | | | | | 237 | 139 | 200 | 11,130 | | |
| March | | | | | | | 158 | 61 | 100 | 6,160 | | |
| April | | | | | | | 187 | 61 | 113 | 6,750 | | |
| May | | | | | | | 120 | 63 | 86.3 | 5,300 | | |
| June | | | | | | | 146 | 16 | 44.9 | 2,670 | | |
| July | | | | | | | 87 | 8 | 27.7 | 1,700 | | |
| August | | | | | | | 24 | 10 | 16.2 | 996 | | |
| September | | | | | | | 22 | 8 | 17.2 | 1,030 | | |
| The year | | | | | | | 263 | 8 | 95.2 | 68,900 | | |

Sevier Bridge Reservoir near Juab, Utah

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

Records available.- January 1914 to September 1934.

Remarks.- Reservoir capacity, 250,000 acre-feet. Gage-height record and capacity table furnished by Consolidated Sevier Bridge Reservoir Co.

Contents, in acre-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|------|-------|--------|--------|--------|--------|--------|--------|--------|------|------|-------|
| 1 | | 0 | 7,200 | 18,960 | 33,020 | 44,120 | 48,190 | 23,640 | 10,120 | 246 | | |
| 2 | | 0 | 7,610 | 19,390 | 33,430 | 44,360 | 48,060 | 22,760 | 10,460 | 0 | | |
| 3 | | 0 | 8,010 | 19,860 | 33,950 | 44,480 | 47,940 | 22,070 | 10,820 | 0 | | |
| 4 | | 246 | 8,320 | 20,370 | 34,470 | 44,710 | 47,820 | 21,390 | 11,000 | 0 | | |
| 5 | | 917 | 8,700 | 21,050 | 34,990 | 44,830 | 47,700 | 20,710 | 11,230 | 0 | | |
| 6 | | 1,200 | 9,070 | 21,480 | 35,520 | 44,950 | 47,700 | 19,710 | 11,470 | 0 | | |
| 7 | | 1,460 | 9,390 | 21,890 | 35,940 | 45,020 | 47,700 | 18,740 | 11,660 | 0 | | |
| 8 | | 1,740 | 9,640 | 22,330 | 36,380 | 45,120 | 47,700 | 17,800 | 11,790 | 0 | | |
| 9 | | 1,960 | 10,290 | 22,680 | 36,800 | 45,180 | 47,700 | 16,880 | 11,900 | 0 | | |
| 10 | | 2,130 | 10,640 | 23,020 | 37,120 | 45,300 | 47,700 | 16,290 | 12,020 | 0 | | |
| 11 | | 2,270 | 11,000 | 23,460 | 37,560 | 45,420 | 47,460 | 15,550 | 12,090 | 0 | | |
| 12 | | 2,410 | 11,230 | 23,810 | 38,000 | 45,540 | 47,100 | 14,650 | 12,210 | 0 | | |
| 13 | | 2,550 | 11,720 | 24,170 | 38,440 | 45,660 | 46,730 | 14,150 | 12,280 | 0 | | |
| 14 | | 2,690 | 12,210 | 24,530 | 38,770 | 45,900 | 46,140 | 13,680 | 12,210 | 0 | | |
| 15 | | 2,910 | 12,520 | 24,980 | 39,100 | 46,140 | 45,420 | 13,300 | 12,090 | 0 | | |
| 16 | | 3,150 | 12,830 | 25,420 | 39,430 | 46,370 | 44,360 | 12,900 | 11,590 | 0 | | |
| 17 | | 3,380 | 13,160 | 25,790 | 39,990 | 46,610 | 43,190 | 12,460 | 11,120 | 0 | | |
| 18 | | 3,610 | 13,490 | 26,340 | 40,330 | 46,860 | 42,260 | 11,960 | 10,640 | 0 | | |
| 19 | | 3,860 | 13,890 | 26,800 | 40,670 | 47,100 | 41,240 | 11,590 | 10,180 | 0 | | |
| 20 | | 4,070 | 14,290 | 27,170 | 41,120 | 47,340 | 40,220 | 11,230 | 9,680 | 0 | | |
| 21 | | 4,280 | 14,710 | 27,640 | 41,460 | 47,580 | 39,210 | 11,000 | 9,070 | 0 | | |
| 22 | | 4,490 | 15,130 | 28,120 | 41,800 | 47,820 | 37,890 | 10,640 | 8,060 | 0 | | |
| 23 | | 4,700 | 15,550 | 28,980 | 42,260 | 48,060 | 36,590 | 10,290 | 7,710 | 0 | | |
| 24 | | 4,970 | 15,920 | 29,350 | 42,730 | 48,310 | 34,990 | 9,950 | 7,010 | 0 | | |
| 25 | | 5,310 | 16,290 | 29,740 | 42,960 | 48,410 | 33,530 | 9,500 | 6,230 | 0 | | |
| 26 | | 5,590 | 16,660 | 30,130 | 43,190 | 48,500 | 31,910 | 9,120 | 5,410 | 0 | | |
| 27 | | 5,870 | 17,020 | 30,620 | 43,540 | 48,600 | 30,220 | 9,170 | 4,530 | 0 | | |
| 28 | | 6,190 | 17,420 | 31,100 | 43,890 | 48,670 | 28,680 | 9,260 | 3,700 | 0 | | |
| 29 | | 6,430 | 17,800 | 31,600 | | 48,550 | 26,990 | 9,440 | 2,910 | 0 | | |
| 30 | | 6,810 | 18,190 | 32,110 | | 48,430 | 25,250 | 9,620 | 2,130 | 0 | | |
| 31 | | | 18,580 | 32,610 | | 48,310 | | 9,780 | | 0 | | |

Note.- No storage during months left blank.

Sevier River near Juab, Utah

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

Drainage area.- 5,120 square miles.

Records available.- September 1911 to September 1934.

Average discharge.- 23 years, 281 second-feet.

Extremes.- Maximum daily discharge during year, 1,030 second-feet Apr. 26-30 (gage height, 4.56 feet); practically no flow at times when gates are closed.
1911-34: Maximum discharge, 2,140 second-feet June 2, 1922 (gage height, 8.50 feet); practically no flow at times when reservoir gates are closed.

Remarks.- Records fair. No diversions between this station and that near Gunnison. Flow regulated by gates in Sevier Bridge Dam. Gage-height record furnished by Consolidated Sevier Bridge Reservoir Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|------|------|------|------|------|------|--------|------|------|------|------|-------|
| 1 | 70 | 94 | | | | | 101 | 799 | †5 | 386 | 24 | 25 |
| 2 | 193 | 112 | | | | | 101 | 623 | †5 | 294 | 20 | 25 |
| 3 | 116 | 44 | | | | | *101 | *556 | †5 | 84 | 18 | 25 |
| 4 | 116 | | | | | | 101 | 556 | †5 | 62 | 20 | 25 |
| 5 | 116 | | | | | | 101 | 582 | †5 | 68 | 20 | 25 |
| 6 | 77 | | | | | | *101 | *621 | †5 | 57 | 27 | 25 |
| 7 | *57 | | | | | | *101 | 621 | †5 | 57 | 33 | 25 |
| 8 | 57 | | | | | | 101 | 556 | †5 | 34 | 27 | 25 |
| 9 | *58 | | | | | | 163 | 534 | †5 | 29 | 27 | 25 |
| 10 | *60 | | | | | | 242 | 512 | †5 | 29 | 25 | 25 |
| 11 | 62 | | | | | | 292 | 512 | †6 | 33 | 29 | 25 |
| 12 | 78 | | | | | | 300 | 484 | †7 | 22 | 29 | 25 |
| 13 | 88 | | | | | | 362 | 444 | 51 | 20 | 29 | 25 |
| 14 | 88 | | | | | | 481 | 368 | 88 | 20 | 25 | 25 |
| 15 | *88 | | | | | †5 | 574 | 320 | 182 | 19 | †25 | †25 |
| 16 | *88 | | | | | | *648 | 320 | 275 | 19 | †25 | †25 |
| 17 | 88 | †2 | | | | | *648 | 320 | 275 | 20 | †24 | 25 |
| 18 | *88 | | | | | | 868 | 320 | 272 | 20 | †24 | 31 |
| 19 | *88 | | | | | | *711 | 320 | 275 | 34 | 24 | 29 |
| 20 | 88 | | | | | | 711 | 320 | 371 | 75 | 24 | 27 |
| 21 | 94 | | | | | | 766 | 320 | 363 | 112 | 24 | 27 |
| 22 | 88 | | | | | | *809 | 318 | 353 | 112 | 24 | 25 |
| 23 | 88 | | | | | | 844 | 318 | 340 | 81 | 24 | 25 |
| 24 | 94 | | | | | | 905 | 318 | 330 | 75 | 25 | 27 |
| 25 | 94 | | | | | | 975 | 315 | 396 | 65 | 25 | 31 |
| 26 | *94 | | | | | | *1,030 | 160 | 435 | 66 | 25 | 29 |
| 27 | 94 | | | | | | *1,030 | 25 | 429 | 34 | 25 | 29 |
| 28 | *94 | | | | | 46 | *1,030 | 11 | 423 | 29 | 29 | 27 |
| 29 | *94 | | | | | 101 | *1,030 | †5 | 432 | 22 | 24 | 25 |
| 30 | 94 | | | | | 101 | *1,030 | †5 | 441 | 25 | 25 | 25 |
| 31 | *94 | | | | | *101 | | †5 | | 22 | 25 | |

| Month | Maximum | Minimum | Mean | Run-off in acre-feet |
|-----------|---------|---------|------|----------------------|
| October | 116 | 57 | 86.6 | 5,330 |
| November | 112 | | 10.1 | 603 |
| December | | | †2 | 123 |
| January | | | †2 | 123 |
| February | | | †3 | 167 |
| March | 101 | | 13.9 | 853 |
| April | 1,030 | 101 | 535 | 31,850 |
| May | 799 | 5 | 371 | 22,790 |
| June | 441 | 5 | 193 | 11,490 |
| July | 386 | 19 | 65.4 | 4,020 |
| August | 33 | 18 | 25.0 | 1,540 |
| September | 31 | 25 | 26.1 | 1,550 |
| The year | 1,030 | | 111 | 80,440 |

*Interpolated between readings made when gate openings were changed.

†Estimated; leakage only.

‡Interpolated.

East Fork of Sevier River near Kingston, Utah

Location.- Water-stage recorder in SW $\frac{1}{4}$ sec. 13. T. 20 S., R. 3 W., 1 mile below highway Kingston and 2 miles east of Kingston.

Drainage area.- 1,280 square miles.

Records available.- April 1913 to September 1934. Records obtained $1\frac{1}{2}$ miles above Rockyford Bridge March 1913 to April 1914; also three-quarters of a mile north of Kingston May to September 1912.

Average discharge.- 21 years, 97.8 second-feet.

Extremes.- Maximum discharge during year, 242 second-feet July 20 (gage height, 3.98 feet); minimum, 9 second-feet July 30.
1913-34: Maximum discharge, about 2,000 second-feet Aug. 28, 1929; minimum, 6 second-feet Oct. 30, 1930.

Remarks.- Records fair. Stage-discharge relation affected by ice Dec. 14 to Jan. 31. Station above all diversions in vicinity of Kingston. Flow regulated at Otter Creek Reservoir, 8 miles above.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 22 | 14 | 11 | | 21 | 25 | 18 | 90 | 112 | 85 | 10 | 22 |
| 2 | 17 | 14 | 12 | | 21 | 24 | 17 | 92 | 110 | 87 | 10 | 24 |
| 3 | 15 | 14 | 14 | | 21 | 24 | 17 | 92 | 108 | 96 | 11 | 22 |
| 4 | 13 | 15 | 15 | | 21 | 24 | 17 | 96 | 100 | 92 | 12 | 20 |
| 5 | 12 | 15 | 15 | | 21 | 24 | 18 | 100 | 98 | 92 | 12 | 20 |
| 6 | 12 | 15 | 10 | | 21 | 24 | 18 | 100 | 98 | 87 | 12 | 20 |
| 7 | 12 | 14 | 10 | | 22 | 24 | 16 | 100 | 102 | 83 | 12 | 20 |
| 8 | *12 | 14 | 10 | | 22 | 23 | 16 | 100 | 100 | *80 | 12 | 21 |
| 9 | *12 | 15 | 10 | | 22 | 21 | 15 | 100 | 98 | *76 | 16 | 21 |
| 10 | *13 | 15 | 13 | | 22 | 20 | 15 | 100 | 94 | *74 | 12 | 21 |
| 11 | *13 | 15 | 15 | | 21 | 20 | 15 | 100 | 92 | *70 | 12 | 20 |
| 12 | *13 | 15 | 15 | | 21 | 20 | 46 | 98 | 80 | *66 | 12 | 17 |
| 13 | *14 | 15 | 13 | | 21 | 20 | 102 | 96 | 90 | *62 | 14 | *16 |
| 14 | *14 | 15 | | | 21 | 20 | 90 | 96 | 92 | *58 | 23 | *15 |
| 15 | 14 | 14 | | | 22 | 19 | 92 | 98 | 100 | 55 | 19 | *14 |
| 16 | 13 | 14 | | | 22 | 19 | 94 | 98 | 100 | 53 | 19 | 13 |
| 17 | 14 | 14 | | | 23 | 19 | 96 | 96 | 102 | 46 | 24 | 13 |
| 18 | 14 | 14 | | | 23 | 19 | 92 | 94 | 102 | 38 | 21 | 13 |
| 19 | 14 | 14 | | | 22 | 18 | 92 | 92 | 102 | 31 | 22 | 15 |
| 20 | 15 | 14 | | | 22 | 18 | 92 | 92 | 100 | 46 | 26 | 17 |
| 21 | 15 | 14 | | | 24 | 18 | 92 | 94 | 100 | 30 | 27 | 19 |
| 22 | 14 | 15 | *15 | | 24 | 18 | 92 | 94 | 96 | 24 | 24 | 18 |
| 23 | 12 | 17 | | | 24 | 18 | 92 | 102 | 94 | 20 | 22 | 15 |
| 24 | 12 | 16 | | | 27 | 18 | 90 | 112 | 83 | 19 | 21 | 15 |
| 25 | 14 | 15 | | | 26 | 22 | 90 | 118 | 92 | 14 | 18 | 16 |
| 26 | 14 | 15 | | | 26 | 22 | 90 | 139 | 90 | 12 | 16 | 19 |
| 27 | 15 | 15 | | | 25 | 20 | 87 | 142 | 96 | 11 | 21 | 20 |
| 28 | 15 | 13 | | | 24 | 20 | 87 | 145 | 92 | 11 | 27 | 21 |
| 29 | 16 | 13 | | | | 20 | 87 | 102 | 90 | 11 | 24 | 21 |
| 30 | 17 | 12 | | | | 20 | 87 | 94 | 87 | 9 | 22 | 23 |
| 31 | 15 | | | | | 18 | | 100 | | 10 | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 22 | 12 | 14.1 | 867 | | |
| November | | | | | | | 17 | 12 | 14.5 | 861 | | |
| December | | | | | | | | | 14.0 | 859 | | |
| January | | | | | | | | | *18 | 1,110 | | |
| February | | | | | | | 27 | 21 | 22.6 | 1,250 | | |
| March | | | | | | | 25 | 18 | 20.6 | 1,270 | | |
| April | | | | | | | 102 | 15 | 62.4 | 3,710 | | |
| May | | | | | | | 145 | 80 | 102 | 6,290 | | |
| June | | | | | | | 112 | 87 | 97.3 | 5,790 | | |
| July | | | | | | | 96 | 9 | 49.9 | 3,070 | | |
| August | | | | | | | 27 | 10 | 18.0 | 1,100 | | |
| September | | | | | | | 24 | 13 | 18.4 | 1,090 | | |
| The year | | | | | | | 145 | 9 | 37.7 | 27,270 | | |

*Estimated.

Rockyford Canal near Vermilion, Utah

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

Records available.- July 1914 to September 1934.

Average discharge.- 20 years, 44.8 second-feet.

Remarks.- Records good. Discharge estimated Oct. 17 to Nov. 9, Feb. 4, 7-13, 15-20, 22-24. Gage is a short distance below wasteway which returns surplus water to Sevier River. Flow regulated by head gates and wasteway. Canal diverts from Rockyford Reservoir on Sevier River at Vermilion. Water is used for irrigation north of Vermilion.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 43 | | 21 | 21 | 21 | 12 | 11 | 49 | 5 | 49 | 32 | 30 |
| 2 | 43 | | 21 | 21 | 21 | 12 | 20 | 52 | 5 | 32 | 33 | 30 |
| 3 | 46 | | 21 | 21 | 21 | 11 | 28 | 39 | 5 | 32 | 40 | 29 |
| 4 | 48 | | 21 | 21 | 21 | 12 | 29 | 34 | 5 | 34 | 40 | 30 |
| 5 | 47 | | 21 | 21 | 21 | 12 | 26 | 34 | 7 | 37 | 40 | 30 |
| 6 | 48 | 5 | 21 | 21 | 21 | 12 | 23 | 34 | 7 | 51 | 41 | 31 |
| 7 | 49 | | 21 | 21 | 21 | 12 | 38 | 24 | 21 | 57 | 41 | 30 |
| 8 | 49 | | 21 | 21 | 21 | 13 | 49 | 21 | 27 | 57 | 41 | 31 |
| 9 | 48 | | 22 | 21 | 21 | 15 | 35 | 22 | 29 | 44 | 41 | 32 |
| 10 | 48 | 7 | 22 | 21 | 21 | 14 | 43 | 21 | 34 | 26 | 40 | 32 |
| 11 | 51 | 14 | 22 | 21 | 21 | 12 | 60 | 19 | 28 | 35 | 39 | 32 |
| 12 | 49 | 14 | 22 | 21 | 21 | 11 | 72 | 18 | 44 | 40 | 36 | 32 |
| 13 | 47 | 14 | 22 | 21 | 21 | 13 | 75 | 20 | 53 | 42 | 39 | 31 |
| 14 | 49 | 14 | 22 | 21 | 21 | 13 | 74 | 34 | 53 | 41 | 38 | 30 |
| 15 | 48 | 14 | 21 | 21 | 21 | 13 | 74 | 43 | 54 | 33 | 35 | 30 |
| 16 | 22 | 14 | 21 | 21 | 21 | 12 | 74 | 36 | 54 | 35 | 35 | 30 |
| 17 | | 14 | 21 | 21 | 21 | 12 | 65 | 0 | 54 | 32 | 33 | 31 |
| 18 | | 14 | 21 | 21 | 21 | 12 | 64 | 0 | 54 | 32 | 33 | 32 |
| 19 | | 14 | 21 | 21 | 21 | 12 | 60 | 41 | 54 | 31 | 36 | 33 |
| 20 | | 14 | 21 | 21 | 21 | 12 | 58 | 69 | 54 | 29 | 38 | 34 |
| 21 | | 14 | 21 | 21 | 21 | 14 | 64 | 78 | 50 | 14 | 37 | 34 |
| 22 | | 14 | 21 | 21 | 21 | 16 | 63 | 79 | 48 | 8 | 36 | 34 |
| 23 | | 14 | 21 | 21 | 21 | 16 | 65 | 79 | 48 | 3 | 35 | 32 |
| 24 | 5 | 14 | 21 | 21 | 21 | 16 | 74 | 78 | 47 | 0 | 32 | 32 |
| 25 | | 14 | 21 | 21 | 21 | 17 | 78 | 78 | 46 | 0 | 32 | 31 |
| 26 | | 14 | 21 | 21 | 16 | 18 | 74 | 80 | 43 | 3 | 32 | 31 |
| 27 | | 14 | 21 | 21 | 12 | 17 | 71 | 76 | 36 | 4 | 33 | 33 |
| 28 | | 14 | 20 | 21 | 12 | 17 | 62 | 56 | 32 | 9 | 32 | 34 |
| 29 | | 14 | 20 | 21 | 17 | 17 | 43 | 36 | 45 | 19 | 32 | 34 |
| 30 | | 17 | 20 | 21 | 17 | 17 | 40 | 16 | 57 | 30 | 29 | 32 |
| 31 | | | 21 | 21 | 17 | 17 | | 7 | | 31 | 29 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 51 | | 26.1 | 1,610 | | |
| November | | | | | | | 17 | | 11.2 | 664 | | |
| December | | | | | | | 22 | 20 | 21.1 | 1,500 | | |
| January | | | | | | | 21 | 21 | 21.0 | 1,290 | | |
| February | | | | | | | 21 | 12 | 20.2 | 1,120 | | |
| March | | | | | | | 18 | 11 | 13.8 | 861 | | |
| April | | | | | | | 78 | 11 | 53.7 | 3,200 | | |
| May | | | | | | | 80 | 0 | 41.0 | 2,520 | | |
| June | | | | | | | 57 | 5 | 36.6 | 2,180 | | |
| July | | | | | | | 57 | 0 | 29.8 | 1,770 | | |
| August | | | | | | | 41 | 29 | 36.0 | 2,220 | | |
| September | | | | | | | 34 | 29 | 31.6 | 1,980 | | |
| The year | | | | | | | 80 | 0 | 28.4 | 20,600 | | |

Beaver River near Beaver, Utah

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 18, T. 29 S., R. 8 W., a quarter of a mile above city diversion dam at mouth of canyon and $\frac{1}{4}$ miles east of Beaver.

Drainage area.- 82 square miles.

Records available.- June to September 1906, March 1914 to September 1934.

Average discharge.- 20 years (1914-34), 54.5 second-feet.

Extremes.- Maximum discharge during year, 82 second-feet May 5 (gage height, 4.11 feet); minimum, 8 second-feet Sept. 17 (gage height, 3.34 feet).
1914-34: Maximum discharge, 785 second-feet May 25, 1922 (gage height, 6.31 feet); minimum, about 5 second-feet Aug. 29, 1931 (gage height, 3.19 feet).

Remarks.- Records good except those estimated, which are fair. Stage-discharge relation affected by ice most days Dec. 5 to Feb. 10. No irrigation diversions above station. Water diverted by Beaver River Power Co. but returned to stream several miles above. Flow slightly regulated by operation of power plants and storage in Kents Lake.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 22 | 22 | 21 | | | 19 | 30 | 65 | 30 | 21 | 13 | 10 |
| 2 | 27 | 20 | 21 | | | 22 | 31 | 59 | 26 | 19 | 13 | 10 |
| 3 | 29 | 22 | 21 | | | 19 | 25 | 53 | 27 | 22 | 12 | 10 |
| 4 | 25 | 20 | 19 | | | 18 | 27 | 57 | 29 | 31 | 13 | 11 |
| 5 | 24 | 20 | *18 | | | 19 | 23 | 65 | 25 | 24 | 16 | 10 |
| 6 | 22 | 21 | *17 | | *15 | 20 | 26 | 61 | 27 | 22 | 14 | 10 |
| 7 | 22 | 24 | *17 | | | 22 | 27 | 64 | 29 | 20 | 15 | 10 |
| 8 | 24 | 22 | *16 | | | 20 | 30 | 64 | 30 | 21 | 16 | 10 |
| 9 | 22 | 22 | *15 | | | 21 | 34 | 64 | 27 | 19 | 19 | 11 |
| 10 | 23 | 22 | 15 | | | 21 | 35 | 65 | 24 | 19 | 16 | 13 |
| 11 | 23 | 21 | 14 | | 16 | 22 | 36 | 63 | 23 | 18 | 12 | 12 |
| 12 | 24 | 21 | 15 | | 14 | 22 | 40 | 61 | 24 | 16 | 14 | 11 |
| 13 | 24 | 21 | | | 16 | 22 | 36 | 59 | 22 | 19 | 19 | 10 |
| 14 | 23 | 22 | | | 16 | 23 | 38 | 54 | 22 | 19 | 18 | 10 |
| 15 | 22 | 20 | | | 17 | 23 | 40 | 52 | 23 | 19 | 18 | 11 |
| 16 | 23 | 21 | | | 18 | 25 | 42 | 51 | 23 | 19 | 13 | 11 |
| 17 | 22 | 22 | | | 19 | 22 | 37 | 46 | 24 | 17 | 14 | 11 |
| 18 | 22 | 20 | | | 19 | 22 | 36 | 43 | 24 | 16 | 15 | 12 |
| 19 | 22 | 22 | | | 21 | 24 | 40 | *42 | 22 | 17 | 14 | 11 |
| 20 | 21 | 20 | | | 22 | 23 | 44 | 41 | 20 | 18 | 17 | 14 |
| 21 | 19 | 20 | | | 22 | 23 | 45 | *40 | 20 | 20 | 22 | 12 |
| 22 | 22 | 18 | *15 | | 20 | 23 | 46 | *36 | 17 | 20 | 12 | 11 |
| 23 | 21 | 19 | | | 22 | 24 | 54 | *37 | 19 | 17 | 12 | 10 |
| 24 | 21 | 19 | | | 21 | 23 | 63 | *35 | 27 | 18 | 11 | 11 |
| 25 | 22 | 19 | | | 19 | 22 | 64 | 34 | 29 | 17 | 10 | 13 |
| 26 | 22 | 20 | | | 22 | 22 | 61 | 33 | 23 | 14 | 12 | 12 |
| 27 | 21 | 22 | | | 20 | 24 | 61 | 32 | 22 | 13 | 12 | 12 |
| 28 | 20 | 23 | | | 20 | 26 | 64 | 34 | 19 | 13 | 11 | 12 |
| 29 | 19 | 23 | | | | 29 | 64 | 36 | 21 | 14 | 11 | 11 |
| 30 | 22 | 23 | | | | 32 | 65 | 34 | 22 | 17 | 11 | 12 |
| 31 | 22 | | | | | 32 | | 31 | | 16 | 12 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 29 | 19 | 22.5 | 1,380 | | |
| November | | | | | | | 24 | 18 | 21.0 | 1,250 | | |
| December | | | | | | | 21 | | 15.9 | 990 | | |
| January | | | | | | | | | *14 | 861 | | |
| February | | | | | | | 22 | | 17.6 | 980 | | |
| March | | | | | | | 32 | 18 | 22.9 | 1,410 | | |
| April | | | | | | | 65 | 23 | 42.3 | 2,520 | | |
| May | | | | | | | 65 | 31 | 48.9 | 3,000 | | |
| June | | | | | | | 30 | 17 | 24.1 | 1,430 | | |
| July | | | | | | | 31 | 13 | 18.5 | 1,140 | | |
| August | | | | | | | 22 | 10 | 14.1 | 867 | | |
| September | | | | | | | 14 | 10 | 11.1 | 662 | | |
| The year | | | | | | | 65 | 10 | 22.8 | 16,480 | | |

*Estimated.

Beaver River at Adamsville, Utah

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

Drainage area.- 272 square miles.

Records available.- December 1913 to September 1934.

Average discharge.- 20 years (1914-34), 36.9 second-feet.

Extremes.- Maximum discharge recorded during year, 673 second-feet Aug. 5 (gage height, 4.75 feet); no flow for several months.
1913-34: Maximum discharge, 796 second-feet May 23, 1920 (gage height, 4.85 feet); no flow during periods in 1924, 1931, 1934.

Remarks.- Records fair. Discharge estimated for period of ice effect, Dec. 17-19, Jan. 7-14, and for period Aug. 5, 6. No diversions between station and storage reservoir of Beaver County Irrigation Co. Several ditches above station supply Adamsville and Beaver districts. Flow practically all diverted during irrigation season.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 4 | 18 | 44 | 48 | 37 | 34 | 21 | 1 | | | 0 | |
| 2 | 5 | 36 | 43 | 50 | 36 | 34 | 13 | 1 | | | 0 | |
| 3 | 6 | 36 | 42 | 42 | 30 | 34 | 13 | 1 | | | 0 | |
| 4 | 6 | 41 | 48 | 44 | 27 | 34 | 14 | 1 | | | 0 | |
| 5 | 6 | 40 | 45 | 43 | 30 | 34 | 14 | 1 | | | 200 | |
| 6 | 8 | 41 | 43 | 42 | 30 | 34 | 11 | 1 | | | 100 | |
| 7 | 8 | 41 | 44 | 40 | 30 | 32 | 2 | 1 | | | 5 | |
| 8 | 8 | 40 | 49 | 38 | 29 | 31 | 1 | 1 | | | 0 | |
| 9 | 8 | 40 | 45 | 38 | 32 | 32 | 1 | 1 | | | 0 | |
| 10 | 8 | 41 | 48 | 38 | 31 | 30 | 2 | 0 | | | 0 | |
| 11 | 9 | 34 | 45 | 38 | 33 | 29 | 2 | 0 | | | 0 | |
| 12 | 9 | 38 | 45 | 37 | 35 | 26 | 2 | 0 | | | 5 | |
| 13 | 9 | 36 | 43 | 37 | 36 | 29 | 1 | 0 | | | 0 | |
| 14 | 8 | 39 | 52 | 37 | 33 | 30 | 1 | 0 | | | 0 | |
| 15 | 9 | 40 | 51 | 37 | 31 | 29 | 1 | 0 | | | 0 | |
| 16 | 9 | 40 | 44 | 37 | 31 | 26 | 1 | 1 | | | 0 | |
| 17 | 8 | 41 | 40 | 37 | 32 | 25 | 1 | 0 | | | 0 | |
| 18 | 8 | 41 | 42 | 35 | 30 | 26 | 1 | 0 | | | 0 | |
| 19 | 8 | 41 | 46 | 35 | 32 | 25 | 1 | 0 | | | 0 | |
| 20 | 8 | 40 | 48 | 32 | 34 | 25 | 1 | 0 | | | 0 | |
| 21 | 10 | 40 | 48 | 37 | 41 | 26 | 1 | 0 | | | 0 | |
| 22 | 10 | 41 | 43 | 39 | 35 | 27 | 1 | 0 | | | 0 | |
| 23 | 10 | 41 | 41 | 32 | 45 | 28 | 1 | 0 | | | 0 | |
| 24 | 9 | 40 | 41 | 31 | 44 | 29 | 1 | 0 | | | 0 | |
| 25 | 9 | 40 | 41 | 42 | 39 | 29 | 1 | 0 | | | 0 | |
| 26 | 10 | 40 | 42 | 56 | 38 | 35 | 1 | 0 | | | 0 | |
| 27 | 10 | 40 | 41 | 33 | 44 | 31 | 1 | 0 | | | 0 | |
| 28 | 9 | 41 | 40 | 36 | 40 | 29 | 1 | 0 | | | 0 | |
| 29 | 8 | 43 | 39 | 35 | | 29 | 1 | 0 | | | 0 | |
| 30 | 8 | 43 | 40 | 35 | | 31 | 1 | 0 | | | 0 | |
| 31 | 9 | | 46 | 37 | | 33 | | 0 | | | 0 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 10 | 4 | 6.2 | 504 | | |
| November | | | | | | | 43 | 18 | 39.3 | 2,340 | | |
| December | | | | | | | 52 | 39 | 44.2 | 2,720 | | |
| January | | | | | | | 56 | 31 | 38.7 | 2,380 | | |
| February | | | | | | | 45 | 27 | 34.5 | 1,910 | | |
| March | | | | | | | 35 | 25 | 29.9 | 1,840 | | |
| April | | | | | | | 21 | 1 | 3.8 | 226 | | |
| May | | | | | | | 1 | 0 | .5 | 20 | | |
| June | | | | | | | 0 | 0 | 0 | 0 | | |
| July | | | | | | | 0 | 0 | 0 | 0 | | |
| August | | | | | | | 200 | 0 | 9.6 | 605 | | |
| September | | | | | | | 0 | 0 | 0 | Q | | |
| The year | | | | | | | 200 | 0 | 17.3 | 12,540 | | |

Note.- No flow during months left blank.

Beaver River at Rockyford Dam, near Minersville, Utah

Location.- Staff gage in NW $\frac{1}{4}$ sec. 11, T. 30 S., R. 9 W., half a mile below Rockyford Dam and 4 miles east of Minersville.

Drainage area.- 512 square miles.

Records available.- December 1913 to September 1934.

Average discharge.- 20 years (1914-34), 39.4 second-feet.

Extremes.- Maximum daily discharge during year, 111 second-feet May 7 (gage height, 1.68 feet); minimum, 4 second-feet Dec. 21-23 and Aug. 27-31.
1913-34: Maximum, 727 second-feet June 10, 1921 (gage height, 3.53 feet); minimum (estimated), 0.3 second-foot Mar. 19, 20, 1914.

Remarks.- Records fair. Gage read about once weekly October to June, also read before and after each change in gate openings; discharge interpolated for intervening days. Discharge July to September determined from weir record in Minersville Canal on account of moss in river channel. No diversions between dam and gage. Flow regulated by operation of gates at Rockyford Dam. Entire gage-height record and daily-discharge record July to September furnished by Beaver County Irrigation Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | 12 | 7 | 7 | 10 | 8 | 9 | 9 | 29 | 35 | | | 6 |
| 2 | 12 | 5 | 7 | 10 | 8 | 9 | 9 | 29 | 35 | | | 7 |
| 3 | 12 | 5 | 7 | 10 | 9 | 9 | 9 | 51 | 35 | | | |
| 4 | 12 | 5 | 7 | 10 | 9 | 8 | 9 | 96 | 35 | | | |
| 5 | 12 | 5 | 7 | 10 | 9 | 8 | 9 | 96 | 35 | | | |
| 6 | 12 | 5 | 7 | 10 | 9 | 8 | 9 | 104 | 34 | | | |
| 7 | 12 | 5 | 7 | 10 | 9 | 8 | 9 | 111 | 34 | | | |
| 8 | 12 | 5 | 7 | 10 | 9 | 8 | 9 | 108 | 34 | | | |
| 9 | 12 | 5 | 7 | 10 | 9 | 8 | 9 | 105 | 30 | | | |
| 10 | 12 | 5 | 7 | 10 | 9 | 8 | 9 | 103 | 28 | | | |
| 11 | 10 | 5 | 7 | 11 | 9 | 8 | 9 | 101 | 28 | | | |
| 12 | 8 | 5 | 7 | 11 | 9 | 8 | 9 | 98 | 28 | | 26 | |
| 13 | 8 | 6 | 7 | 11 | 9 | 9 | 9 | 60 | 28 | | | |
| 14 | 8 | 7 | 7 | 11 | 9 | 9 | 22 | 40 | 28 | | | |
| 15 | 8 | 7 | 7 | 11 | 9 | 9 | 29 | 39 | 28 | 29 | | |
| 16 | 8 | 7 | 7 | 11 | 9 | 9 | 28 | 39 | 28 | | | 5 |
| 17 | 8 | 7 | 7 | 10 | 9 | 9 | 27 | 38 | 28 | | | |
| 18 | 8 | 7 | 7 | 10 | 9 | 9 | 26 | 38 | 28 | | | |
| 19 | 8 | 7 | 7 | 10 | 9 | 9 | 25 | 37 | 28 | | | |
| 20 | 8 | 7 | 5 | 10 | 9 | 9 | 24 | 37 | 28 | | | |
| 21 | 8 | 7 | 4 | 10 | 9 | 9 | 24 | 37 | 28 | | | |
| 22 | 8 | 7 | 4 | 10 | 9 | 9 | 24 | 37 | 28 | | | |
| 23 | 8 | 7 | 4 | 10 | 9 | 9 | 24 | 37 | 29 | | 24 | |
| 24 | 8 | 7 | 6 | 10 | 9 | 9 | 23 | 36 | 30 | | 21 | |
| 25 | 8 | 7 | 7 | 10 | 9 | 9 | 23 | 36 | 30 | | 8 | |
| 26 | 7 | 7 | 7 | 10 | 9 | 9 | 23 | 36 | 30 | | 5 | |
| 27 | 7 | 7 | 7 | 10 | 9 | 9 | 23 | 36 | 30 | | 4 | |
| 28 | 7 | 7 | 7 | 10 | 9 | 9 | 23 | 36 | 30 | | 4 | |
| 29 | 7 | 7 | 7 | 10 | 9 | 9 | 28 | 36 | 30 | 23 | 4 | |
| 30 | 7 | 7 | 7 | 10 | 9 | 9 | 30 | 36 | 30 | 24 | 4 | |
| 31 | 7 | | 9 | 9 | | 9 | | 36 | | 24 | 4 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 12 | 7 | 9.2 | 563 | | |
| November | | | | | | | 7 | 5 | 6.3 | 373 | | |
| December | | | | | | | 9 | 4 | 6.7 | 411 | | |
| January | | | | | | | 11 | 9 | 10.2 | 625 | | |
| February | | | | | | | 9 | 8 | 8.9 | 496 | | |
| March | | | | | | | 9 | 8 | 8.7 | 536 | | |
| April | | | | | | | 30 | 9 | 18.1 | 1,080 | | |
| May | | | | | | | 111 | 29 | 56.7 | 3,490 | | |
| June | | | | | | | 35 | 28 | 30.3 | 1,800 | | |
| July | | | | | | | | 23 | 28.5 | 1,750 | | |
| August | | | | | | | | 4 | 21.0 | 1,290 | | |
| September | | | | | | | 7 | | 5.1 | 303 | | |
| The year | | | | | | | 111 | 4 | 17.6 | 12,720 | | |

Salton Sea, Calif.

Location.— Bench mark set by Imperial Irrigation District in NW $\frac{1}{4}$ sec. 27, T. 8 S., R. 9 E., 1 mile northeast of Fig Tree John Spring and about 9 miles south of Mecca.
Records available.— November 1904 to September 1934; revision 1904-32 published in Water-Supply Paper 735.

Extremes.— Maximum stage, 195.0 feet below sea level in February and March 1907; minimum (since 1903), 250.7 feet below sea level in November 1924; bottom of Sea (from 1904-5 determinations) is 273.5 feet below sea level.

Remarks.— See Water-Supply Paper 735 for condensed history of Salton Sea and all records to 1932. Area of water surface is 266 square miles when Sea is at elevation 250 feet below sea level; and 328 square miles when at elevation 240 feet below sea level. Elevations in the following table, furnished by Imperial Irrigation District, were determined directly by leveling from the bench mark.

Elevation, in feet, below mean sea level, 1933-34

| | | | | | |
|--------------|-------|--------------|-------|---------------|-------|
| Oct. 1, 1933 | 245.4 | Mar. 1, 1934 | 244.0 | Aug. 1, 1934 | 246.0 |
| Nov. 1, 1933 | 245.1 | Apr. 1, 1934 | 244.1 | Sept. 1, 1934 | 246.5 |
| Dec. 4, 1933 | 244.9 | May 2, 1934 | 244.4 | Oct. 1, 1934 | 247.4 |
| Jan. 2, 1934 | 244.6 | June 1, 1934 | 244.8 | | |
| Feb. 1, 1934 | 244.3 | July 3, 1934 | 245.1 | | |

Southern Pacific Co.'s ditch near Whitewater, Calif.

Location.— Water-stage recorder in NW $\frac{1}{4}$ sec. 33, T. 3 S., R. 3 E., 200 feet below intake and $\frac{3}{4}$ miles southwest of Whitewater. Altitude, about 1,900 feet.

Records available.— July 1921 to September 1927, October 1929 to September 1930, October 1931 to September 1934.

Remarks.— Ditch diverts all low-water flow of Snow Creek. No record available for Snow Creek between September 1931. Record of daily discharge furnished by Southern Sierras Power Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|---------|------|------|------|------|------|---------|-----|------|------|----------------------|-------|
| 1 | 3.4 | 3.4 | 4.6 | 24.6 | 5.1 | 7.1 | 5.9 | 5.6 | 4.9 | 4.5 | 4.3 | 4.2 |
| 2 | 3.4 | 3.4 | 4.6 | 14.8 | 5.1 | 6.9 | 5.9 | 5.6 | 5.1 | 4.4 | 4.2 | 4.1 |
| 3 | 3.4 | 3.4 | 4.4 | 10.1 | 5.1 | 6.9 | 5.9 | 5.5 | 5.9 | 4.4 | 4.2 | 4.1 |
| 4 | 3.4 | 3.5 | 4.5 | 8.5 | 5.1 | 6.9 | 5.8 | 5.5 | 5.9 | 4.4 | 4.4 | 4.1 |
| 5 | 3.4 | 3.6 | 4.4 | 7.5 | 5.1 | 6.9 | 5.7 | 5.4 | 6.0 | 4.3 | 4.5 | 4.1 |
| 6 | 3.4 | 3.6 | 4.2 | 7.1 | 5.1 | 7.0 | 5.7 | 5.4 | 6.7 | 4.2 | 4.4 | 4.1 |
| 7 | 3.4 | 3.6 | 4.1 | 6.8 | 5.1 | 6.9 | 5.6 | 5.4 | 6.3 | 4.2 | 4.3 | 4.0 |
| 8 | 3.4 | 3.6 | 4.0 | 6.6 | 5.1 | 6.8 | 5.6 | 5.4 | 6.1 | 4.2 | 4.3 | 4.0 |
| 9 | 3.4 | 3.6 | 4.0 | 6.2 | 5.0 | 6.6 | 5.6 | 5.3 | 6.0 | 4.3 | 4.3 | 4.1 |
| 10 | 3.4 | 3.6 | 4.2 | 6.0 | 5.0 | 6.4 | 5.6 | 5.3 | 5.7 | 4.2 | 4.2 | 4.1 |
| 11 | 3.4 | 3.6 | 4.2 | 5.9 | 5.0 | 6.3 | 5.6 | 5.4 | 5.5 | 4.2 | 4.2 | 4.1 |
| 12 | 3.4 | 3.5 | 4.3 | 5.7 | 5.0 | 6.2 | 5.6 | 5.4 | 5.5 | 4.2 | 4.1 | 4.0 |
| 13 | 3.4 | 3.5 | 17.5 | 5.6 | 5.0 | 6.1 | 5.7 | 5.4 | 5.5 | 4.2 | 4.2 | 3.9 |
| 14 | 3.4 | 3.6 | 9.8 | 5.6 | 5.0 | 6.0 | 5.8 | 5.3 | 5.6 | 4.0 | 4.2 | 3.9 |
| 15 | 3.4 | 3.6 | 7.6 | 5.5 | 5.0 | 6.0 | 6.0 | 5.3 | 5.5 | 4.0 | 4.2 | 4.1 |
| 16 | 3.4 | 3.6 | 6.6 | 5.4 | 5.0 | 5.9 | 6.0 | 5.2 | 5.0 | 4.0 | 4.1 | 4.1 |
| 17 | 3.4 | 3.6 | 5.9 | 5.4 | 5.0 | 5.9 | 5.9 | 5.1 | 4.4 | 4.2 | 4.0 | 4.1 |
| 18 | 3.4 | 3.6 | 5.5 | 5.3 | 5.0 | 5.8 | 5.9 | 5.0 | 4.4 | 4.2 | 4.2 | 4.1 |
| 19 | 3.4 | 3.7 | 5.3 | 5.2 | 5.0 | 5.8 | 5.8 | 5.0 | 4.3 | 4.2 | 4.4 | 4.0 |
| 20 | 3.4 | 3.7 | 5.1 | 5.2 | 5.7 | 5.8 | 5.8 | 5.0 | 4.3 | 4.3 | 4.4 | 4.0 |
| 21 | 3.3 | 3.6 | 5.0 | 5.1 | 5.5 | 5.8 | 5.9 | 5.0 | 4.2 | 4.2 | 4.4 | 4.1 |
| 22 | 3.2 | 3.6 | 4.8 | 5.1 | 5.3 | 5.8 | 6.0 | 5.0 | 4.2 | 4.8 | 4.3 | 4.1 |
| 23 | 3.2 | 3.7 | 4.9 | 5.0 | 12.0 | 5.8 | 6.0 | 5.0 | 4.4 | 5.0 | 4.3 | 4.1 |
| 24 | 3.2 | 3.7 | 5.0 | 5.3 | 6.3 | 5.8 | 6.0 | 4.9 | 4.5 | 4.8 | 4.2 | 4.2 |
| 25 | 3.2 | 3.7 | 5.0 | 5.1 | 8.8 | 5.6 | 5.8 | 4.9 | 4.4 | 4.7 | 4.2 | 4.2 |
| 26 | 3.2 | 3.9 | 5.0 | 5.1 | 8.1 | 5.1 | 5.7 | 4.9 | 4.3 | 4.4 | 4.1 | 4.2 |
| 27 | 3.2 | 3.8 | 5.0 | 5.1 | 7.8 | 5.0 | 5.6 | 5.0 | 4.3 | 4.0 | 4.1 | 4.1 |
| 28 | 3.2 | 4.4 | 5.0 | 5.1 | 7.4 | 5.0 | 5.6 | 5.0 | 4.3 | 4.0 | 4.1 | 4.1 |
| 29 | 3.4 | 4.8 | 5.0 | 5.1 | 5.1 | 5.5 | 5.6 | 5.0 | 4.5 | 4.5 | 4.1 | 4.1 |
| 30 | 3.4 | 4.4 | 5.5 | 5.1 | 5.4 | 5.4 | 5.6 | 4.9 | 4.6 | 4.5 | 4.1 | 4.0 |
| 31 | 3.4 | | 14.6 | 5.1 | | 5.5 | | 4.8 | | 4.4 | 4.1 | |
| Month | Maximum | | | | | | Minimum | | Mean | | Run-off in acre-feet | |
| October | 3.4 | | | | | | 3.2 | | 3.55 | | 206 | |
| November | 4.3 | | | | | | 3.4 | | 3.70 | | 220 | |
| December | 17.5 | | | | | | 4.0 | | 5.79 | | 356 | |
| January | 24.6 | | | | | | 5.0 | | 6.75 | | 415 | |
| February | 12.0 | | | | | | 5.0 | | 5.81 | | 323 | |
| March | 7.1 | | | | | | 5.0 | | 6.08 | | 374 | |
| April | 6.0 | | | | | | 5.6 | | 5.77 | | 343 | |
| May | 5.6 | | | | | | 4.8 | | 5.19 | | 319 | |
| June | 6.7 | | | | | | 4.2 | | 5.08 | | 302 | |
| July | 5.0 | | | | | | 4.0 | | 4.32 | | 266 | |
| August | 4.5 | | | | | | 4.0 | | 4.25 | | 260 | |
| September | 4.2 | | | | | | 3.9 | | 4.08 | | 243 | |
| The year | 24.6 | | | | | | 3.2 | | 5.01 | | 3,630 | |

Palm Canyon Creek near Palm Springs, Calif.

Location.- Water-stage recorder in S $\frac{1}{2}$ sec. 11, T. 5 S., R. 4 E., three-quarters of a mile above Murray Canyon Creek and 6 miles south of Palm Springs. Altitude, about 800 feet.

Drainage area.- 94.0 square miles.

Records available.- January 1930 to September 1934.

Extremes.- Maximum discharge during year, about 700 second-feet Aug. 4 (gage height, 5.20 feet, from flood marks); no flow for several months.
1930-34: Maximum discharge, 1,870 second-feet Feb. 9, 1932; no flow several months each year.

Remarks.- Records fair. Discharge estimated Jan. 1-9, 21-31, Mar. 10-12, July 23, Aug. 4, Sept. 23.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | | | 0 | 6.5 | 0 | 0.9 | | | | 0 | 0 | 0 |
| 2 | | | 0 | 4.8 | 0 | .8 | | | | 0 | 0 | 0 |
| 3 | | | 0 | 2.5 | 0 | .4 | | | | 0 | 0 | 0 |
| 4 | | | 0 | 2.0 | 0 | .4 | | | | 0 | 25 | 0 |
| 5 | | | 0 | 1.5 | 0 | .3 | | | | 0 | 0 | 0 |
| 6 | | | 0 | 1.0 | 0 | .3 | | | | 0 | 0 | 0 |
| 7 | | | 0 | .5 | 0 | .2 | | | | 0 | 0 | 0 |
| 8 | | | 0 | .3 | 0 | .2 | | | | 0 | 0 | 0 |
| 9 | | | 0 | .2 | 0 | .1 | | | | 0 | 0 | 0 |
| 10 | | | 0 | .2 | 0 | .1 | | | | 0 | 0 | 0 |
| 11 | | | 0 | .2 | 0 | .1 | | | | 0 | 0 | 0 |
| 12 | | | 0 | .2 | 0 | .1 | | | | 0 | 0 | 0 |
| 13 | | | .4 | .2 | 0 | 0 | | | | 0 | 0 | 0 |
| 14 | | | .7 | .2 | 0 | 0 | | | | 0 | 0 | 0 |
| 15 | | | 0 | .1 | 0 | 0 | | | | 0 | 0 | 0 |
| 16 | | | 0 | .1 | 0 | 0 | | | | 0 | 0 | 0 |
| 17 | | | 0 | .1 | 0 | 0 | | | | 0 | 0 | 0 |
| 18 | | | 0 | .1 | 0 | 0 | | | | 0 | 0 | 0 |
| 19 | | | 0 | .1 | 0 | 0 | | | | 0 | 0 | 0 |
| 20 | | | 0 | .1 | .1 | 0 | | | | 0 | 0 | 0 |
| 21 | | | 0 | .1 | .2 | 0 | | | | 0 | 0 | 0 |
| 22 | | | 0 | .1 | .2 | 0 | | | | 10 | 0 | 0 |
| 23 | | | 0 | .1 | 2.0 | 0 | | | | 0 | 0 | 5 |
| 24 | | | 0 | .1 | 5.5 | 0 | | | | 0 | 0 | 0 |
| 25 | | | 0 | .1 | 3.6 | 0 | | | | 0 | 0 | 0 |
| 26 | | | 0 | .1 | 2.6 | 0 | | | | 0 | 0 | 0 |
| 27 | | | 0 | .1 | 2.0 | 0 | | | | 0 | 0 | 0 |
| 28 | | | 0 | .1 | 1.4 | 0 | | | | 0 | 0 | 0 |
| 29 | | | 0 | .1 | 0 | 0 | | | | 0 | 0 | 0 |
| 30 | | | 0 | .1 | 0 | 0 | | | | 0 | 0 | 0 |
| 31 | | | 0 | .1 | 0 | 0 | | | | 0 | 0 | 0 |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 0 | 0 | 0 | 0 | | |
| November | | | | | | | 0 | 0 | 0 | 0 | | |
| December | | | | | | | .7 | 0 | .04 | 2.2 | | |
| January | | | | | | | 6.5 | .1 | .71 | 43.6 | | |
| February | | | | | | | 5.5 | 0 | .63 | 34.9 | | |
| March | | | | | | | .9 | 0 | .13 | 7.7 | | |
| April | | | | | | | 0 | 0 | 0 | 0 | | |
| May | | | | | | | 0 | 0 | 0 | 0 | | |
| June | | | | | | | 0 | 0 | 0 | 0 | | |
| July | | | | | | | 10 | 0 | .32 | 19.8 | | |
| August | | | | | | | 25 | 0 | .81 | 49.6 | | |
| September | | | | | | | 5 | 0 | .17 | 9.9 | | |
| The year | | | | | | | 25 | 0 | .23 | 168 | | |

Note.- No flow during months left blank.

Deep Creek near Hesperia, Calif.

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 18, T. 3 N., R. 3 W., half a mile above junction with West Fork of the Mojave River and 8 miles southeast of Hesperia. Altitude, about 3,050 feet.

Drainage area.- 137 square miles.

Records available.- December 1929 to September 1934.

Extremes.- Maximum discharge during year, 2,340 second-feet Dec. 31 (gage height, 6.80 feet); minimum, 0.1 second-foot at various times.
1929-34: Maximum discharge, 7,900 second-feet Feb. 9, 1932 (gage height, 11.30 feet); minimum, 0.1 second-foot at various times during 1932, 1933, 1934.

Remarks.- Records good. Discharge estimated Oct. 1 to Nov. 5. Hesperia Water Co.'s canal diverts about 2 miles above station.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|-------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 0.1 | 0.6 | 5.5 | 1,570 | 13 | 38 | 11 | 4.4 | 1.5 | 0.5 | 0.6 | 0.2 |
| 2 | .1 | .7 | 5 | 500 | 12 | 38 | 10 | 5 | 1.5 | .4 | .4 | .2 |
| 3 | .1 | .8 | 5 | 183 | 12 | 36 | 9.5 | 5.5 | 1.5 | .4 | .3 | .2 |
| 4 | .1 | .9 | 5 | 101 | 12 | 35 | 9.5 | 5 | 1.4 | .4 | .3 | .2 |
| 5 | .2 | .9 | 5.5 | 68 | 12 | 34 | 9.5 | 4.6 | 1.5 | .4 | .3 | .2 |
| 6 | .2 | 1.0 | 5 | 52 | 12 | 33 | 9.5 | 4.6 | 2.3 | .3 | .3 | .2 |
| 7 | .2 | 1.4 | 5 | 41 | 12 | 30 | 9.5 | 4.4 | 5 | .3 | .2 | .1 |
| 8 | .2 | 1.6 | 4.8 | 33 | 12 | 29 | 9.5 | 3.9 | 3.6 | .3 | .2 | .1 |
| 9 | .3 | 1.9 | 4.8 | 26 | 12 | 25 | 9.5 | 3.4 | 2.8 | .2 | .2 | .1 |
| 10 | .3 | 2.0 | 5 | 25 | 13 | 24 | 8.5 | 3.1 | 2.5 | .2 | .2 | .1 |
| 11 | .3 | 2.2 | 5 | 23 | 12 | 22 | 8 | 1.6 | 2.3 | .1 | .2 | .1 |
| 12 | .3 | 2.3 | 5 | 22 | 12 | 21 | 8 | 1.5 | 2.0 | .1 | .2 | .2 |
| 13 | .3 | 2.3 | 163 | 22 | 12 | 20 | 8 | 1.5 | 1.9 | .1 | .3 | .3 |
| 14 | .3 | 2.3 | 125 | 22 | 11 | 19 | 7.5 | 1.4 | 1.9 | .1 | .3 | .3 |
| 15 | .3 | 2.3 | 37 | 22 | 11 | 18 | 7.5 | 1.2 | 1.7 | .1 | .3 | .4 |
| 16 | .2 | 2.3 | 23 | 21 | 11 | 17 | 7.5 | 1.1 | 1.7 | .1 | .2 | .4 |
| 17 | .2 | 2.3 | 17 | 19 | 11 | 17 | 7 | 1.1 | 1.6 | .1 | .2 | .4 |
| 18 | .2 | 2.3 | 15 | 17 | 11 | 17 | 7 | 1.2 | 1.5 | .1 | .3 | .4 |
| 19 | .2 | 2.3 | 12 | 17 | 11 | 16 | 7 | 1.2 | 1.5 | .1 | .4 | .4 |
| 20 | .2 | 2.5 | 11 | 16 | 12 | 16 | 7 | 1.7 | 1.5 | .1 | .4 | .4 |
| 21 | .2 | 2.5 | 11 | 15 | 21 | 16 | 6.5 | 1.7 | 1.5 | .1 | .4 | .4 |
| 22 | .2 | 2.5 | 10 | 15 | 19 | 15 | 6.5 | 1.7 | 1.5 | .1 | .4 | .4 |
| 23 | .2 | 2.5 | 10 | 14 | 63 | 15 | 6 | 1.4 | 1.5 | .1 | .5 | .5 |
| 24 | .2 | 2.5 | 10 | 15 | 103 | 16 | 5.5 | 1.4 | 1.0 | .1 | .6 | .6 |
| 25 | .2 | 2.6 | 10 | 16 | 64 | 16 | 5.5 | 1.4 | .6 | .1 | .6 | .6 |
| 26 | .2 | 2.6 | 10 | 15 | 49 | 15 | 5.5 | 1.4 | .6 | .1 | .5 | 1.2 |
| 27 | .2 | 2.8 | 10 | 15 | 41 | 14 | 5 | 1.4 | .6 | .1 | .5 | 1.2 |
| 28 | .3 | 3.1 | 11 | 14 | 38 | 13 | 5 | 1.4 | .6 | .1 | .4 | 1.1 |
| 29 | .3 | 4.4 | 11 | 15 | 13 | 13 | 4.4 | 1.5 | .5 | .1 | .4 | 1.1 |
| 30 | .4 | 5.5 | 11 | 16 | 13 | 13 | 4.4 | 1.5 | .5 | .2 | .2 | 1.0 |
| 31 | .5 | | 603 | 15 | 13 | 13 | | 1.4 | | 1.7 | .2 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 0.5 | 0.1 | 0.23 | 14.5 | | |
| November | | | | | | | 5.5 | .6 | 2.20 | 131 | | |
| December | | | | | | | 603 | 4.8 | 37.9 | 2,330 | | |
| January | | | | | | | 1,570 | 14 | 95.6 | 5,880 | | |
| February | | | | | | | 103 | 11 | 22.6 | 1,260 | | |
| March | | | | | | | 38 | 13 | 21.4 | 1,320 | | |
| April | | | | | | | 11 | 4.4 | 7.49 | 446 | | |
| May | | | | | | | 5.5 | 1.1 | 2.37 | 146 | | |
| June | | | | | | | 5 | .5 | 1.67 | 99.4 | | |
| July | | | | | | | 1.7 | .1 | .23 | 14.3 | | |
| August | | | | | | | .6 | .2 | .34 | 20.8 | | |
| September | | | | | | | 1.2 | .1 | .43 | 25.8 | | |
| The year | | | | | | | 1,570 | .1 | 16.1 | 11,690 | | |

Mojave River at Victorville, Calif.

Location.- Water-stage recorder in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 5 N., R. 4 W., 500 feet above Bear Valley highway bridge at Victorville.

Records available.- November 1930 to September 1934.

Extremes.- Maximum discharge during year, about 810 second-feet Jan. 1 (gage height, 2.82 feet); minimum, 16 second-feet Aug. 7-9, Sept. 5.
1930-34: Maximum discharge, 12,500 second-feet Feb. 9, 1932; minimum, 15 second-feet Aug. 13, 1932, and Aug. 4, 1933.

Remarks.- Records fair. Discharge estimated July 10-15, 18-23, 25-29, Aug. 2-6, 8-13, 17-20, 23-26. Storage at Lake Arrowhead and diversion from Deep Creek by Hesperia Water Co.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 26 | 29 | 37 | 543 | 45 | 42 | 38 | 27 | 24 | 23 | 18 | 19 |
| 2 | 24 | 29 | 36 | 314 | 45 | 40 | 32 | 28 | 24 | 23 | 18 | 20 |
| 3 | 27 | 31 | 34 | 86 | 44 | 40 | 32 | 31 | 28 | 21 | 19 | 18 |
| 4 | 26 | 32 | 37 | 50 | 44 | 38 | 32 | 32 | 27 | 19 | 19 | 17 |
| 5 | 24 | 32 | 40 | 45 | 42 | 38 | 29 | 32 | 28 | 20 | 18 | 16 |
| 6 | 23 | 32 | 34 | 44 | 42 | 37 | 31 | 32 | 26 | 21 | 17 | 17 |
| 7 | 24 | 31 | 40 | 42 | 41 | 40 | 33 | 32 | 23 | 21 | 16 | 17 |
| 8 | 26 | 32 | 42 | 42 | 38 | 40 | 34 | 32 | 21 | 21 | 16 | 18 |
| 9 | 29 | 34 | 44 | 42 | 40 | 38 | 31 | 32 | 23 | 18 | 16 | 18 |
| 10 | 29 | 34 | 40 | 42 | 40 | 34 | 27 | 29 | 23 | 22 | 17 | 20 |
| 11 | 27 | 34 | 38 | 44 | 38 | 34 | 28 | 28 | 26 | 21 | 17 | 18 |
| 12 | 27 | 38 | 40 | 47 | 36 | 33 | 32 | 26 | 27 | 20 | 18 | 22 |
| 13 | 28 | 41 | 45 | 47 | 36 | 33 | 32 | 27 | 29 | 20 | 17 | 22 |
| 14 | 33 | 42 | 42 | 48 | 38 | 31 | 31 | 28 | 28 | 19 | 17 | 20 |
| 15 | 33 | 45 | 42 | 47 | 37 | 28 | 31 | 27 | 27 | 19 | 18 | 20 |
| 16 | 28 | 47 | 42 | 50 | 36 | 27 | 32 | 24 | 28 | 18 | 20 | 21 |
| 17 | 32 | 47 | 38 | 50 | 34 | 31 | 32 | 24 | 28 | 18 | 21 | 21 |
| 18 | 33 | 47 | 36 | 50 | 34 | 31 | 33 | 27 | 33 | 18 | 21 | 21 |
| 19 | 31 | 38 | 34 | 47 | 38 | 32 | 32 | 27 | 26 | 18 | 21 | 21 |
| 20 | 31 | 41 | 37 | 47 | 38 | 32 | 29 | 24 | 24 | 19 | 20 | 23 |
| 21 | 32 | 36 | 37 | 42 | 38 | 31 | 29 | 24 | 26 | 19 | 20 | 23 |
| 22 | 36 | 35 | 37 | 42 | 36 | 34 | 29 | 24 | 26 | 19 | 18 | 26 |
| 23 | 33 | 36 | 32 | 42 | 37 | 37 | 28 | 24 | 28 | 20 | 18 | 27 |
| 24 | 31 | 34 | 37 | 41 | 41 | 36 | 28 | 27 | 24 | 20 | 18 | 28 |
| 25 | 33 | 36 | 42 | 42 | 42 | 36 | 28 | 27 | 24 | 20 | 18 | 29 |
| 26 | 32 | 34 | 41 | 44 | 44 | 37 | 28 | 26 | 24 | 20 | 18 | 29 |
| 27 | 33 | 36 | 40 | 44 | 41 | 37 | 28 | 26 | 26 | 19 | 17 | 28 |
| 28 | 33 | 36 | 44 | 45 | 44 | 34 | 28 | 27 | 27 | 19 | 17 | 26 |
| 29 | 32 | 36 | 45 | 45 | 40 | 40 | 28 | 26 | 24 | 19 | 17 | 23 |
| 30 | 31 | 38 | 44 | 50 | 37 | 28 | 28 | 24 | 23 | 19 | 18 | 23 |
| 31 | 31 | 41 | 47 | 47 | 40 | 40 | | 26 | | 19 | 17 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 36 | 23 | 29.6 | 1,820 | | |
| November | | | | | | | 47 | 29 | 36.5 | 2,170 | | |
| December | | | | | | | 45 | 32 | 39.3 | 2,420 | | |
| January | | | | | | | 543 | 41 | 71.3 | 4,390 | | |
| February | | | | | | | 45 | 34 | 39.6 | 2,200 | | |
| March | | | | | | | 42 | 27 | 35.4 | 2,180 | | |
| April | | | | | | | 38 | 27 | 30.4 | 1,810 | | |
| May | | | | | | | 32 | 24 | 27.4 | 1,690 | | |
| June | | | | | | | 33 | 21 | 25.8 | 1,540 | | |
| July | | | | | | | 23 | 18 | 19.7 | 1,210 | | |
| August | | | | | | | 21 | 16 | 18.1 | 1,110 | | |
| September | | | | | | | 29 | 16 | 21.7 | 1,290 | | |
| The year | | | | | | | 543 | 16 | 32.9 | 23,930 | | |

Mojave River at Barstow, Calif.

Location.- Water-stage recorder in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T. 10 N., R. 1 W., on U. S. Highway 91 at Barstow.

Records available.- November 1930 to September 1934.

Extremes.- 1930-34: Maximum discharge, 8,300 second-feet Feb. 9, 1932 (gage height, 3.95 feet); no flow during part of each year.

Remarks.- No flow during year. Considerable irrigation diversion above station.

West Fork of Mojave River near Hesperia, Calif.

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 13, T. 3 N., R. 4 W., at highway bridge half a mile above junction with Mojave River and 7 miles southeast of Hesperia. Altitude, about 3,050 feet.

Drainage area.- 74.8 square miles.

Records available.- January 1930 to September 1934.

Extremes.- Maximum discharge during year, 1,380 second-feet Jan. 1 (gage height, 5.25 feet); no flow during summer.
1930-34: Maximum discharge, 6,000 second-feet Feb. 8, 1932 (gage height, 10.00 feet); no flow during each summer.

Remarks.- Records good.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | | | 0 | 946 | 0.5 | 10 | 1.2 | | | | | |
| 2 | | | 0 | 319 | .8 | 9 | 1.0 | | | | | |
| 3 | | | 0 | 143 | .8 | 9 | .6 | | | | | |
| 4 | | | 0 | 82 | .6 | 8.5 | .6 | | | | | |
| 5 | | | 0 | 54 | .6 | 8.5 | .5 | | | | | |
| 6 | | | 0 | 36 | .6 | 8 | .4 | | | | | |
| 7 | | | 0 | 29 | .6 | 5.5 | .3 | | | | | |
| 8 | | | 0 | 23 | .6 | 4.6 | .3 | | | | | |
| 9 | | | 0 | 17 | .6 | 3.9 | .3 | | | | | |
| 10 | | | 0 | 16 | .5 | 3.6 | .2 | | | | | |
| 11 | | | 0 | 13 | .5 | 3.6 | .3 | | | | | |
| 12 | | | 0 | 8.5 | .6 | 3.3 | .2 | | | | | |
| 13 | | | 0 | 8 | .9 | 3.0 | .2 | | | | | |
| 14 | | | 0 | 8 | .9 | 3.0 | .2 | | | | | |
| 15 | | | 0 | 8 | .6 | 3.0 | .2 | | | | | |
| 16 | | | 0 | 8 | .6 | 3.0 | .2 | | | | | |
| 17 | | | 0 | 8 | .6 | 2.7 | .2 | | | | | |
| 18 | | | 0 | 5.5 | .6 | 2.4 | .2 | | | | | |
| 19 | | | 0 | 3.6 | 1.1 | 2.1 | .2 | | | | | |
| 20 | | | 0 | 3.2 | 1.4 | 1.8 | .1 | | | | | |
| 21 | | | 0 | 2.7 | .9 | 1.5 | .1 | | | | | |
| 22 | | | 0 | 2.0 | 1.1 | 1.5 | .1 | | | | | |
| 23 | | | 0 | 1.9 | .45 | 1.8 | .1 | | | | | |
| 24 | | | 0 | 3.6 | .47 | 4.2 | .1 | | | | | |
| 25 | | | 0 | 1.9 | .31 | 3.3 | .1 | | | | | |
| 26 | | | 0 | 1.2 | .19 | 2.1 | .1 | | | | | |
| 27 | | | 0 | 1.1 | .13 | 1.8 | 0 | | | | | |
| 28 | | | 0 | 1.1 | .11 | 1.8 | 0 | | | | | |
| 29 | | | 0 | .9 | | 1.8 | 0 | | | | | |
| 30 | | | 0 | .9 | | 1.5 | 0 | | | | | |
| 31 | | | 166 | .6 | | 1.2 | | | | | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 0 | 0 | 0 | 0 | | |
| November | | | | | | | 0 | 0 | 0 | 0 | | |
| December | | | | | | | 166 | 0 | 5.35 | 329 | | |
| January | | | | | | | 946 | .6 | 56.7 | 3,480 | | |
| February | | | | | | | 47 | .5 | 6.50 | 561 | | |
| March | | | | | | | 10 | 1.2 | 3.90 | 240 | | |
| April | | | | | | | 1.2 | 0 | .27 | 15.9 | | |
| May | | | | | | | 0 | 0 | 0 | 0 | | |
| June | | | | | | | 0 | 0 | 0 | 0 | | |
| July | | | | | | | 0 | 0 | 0 | 0 | | |
| August | | | | | | | 0 | 0 | 0 | 0 | | |
| September | | | | | | | 0 | 0 | 0 | 0 | | |
| The year | | | | | | | 946 | 0 | 6.12 | 4,430 | | |

Note.- No flow during months left blank.

Rock Creek near Valyermo, Calif.

Location.- Water-stage recorder in NE $\frac{1}{4}$ sec. 20, T. 4 N., R. 9 W., 1 $\frac{1}{2}$ miles southeast of Valyermo. Altitude, about 4,050 feet.

Drainage area.- 23.0 square miles.

Records available.- January 1923 to September 1934.

Average discharge.- 11 years, 10.2 second-feet.

Extremes.- Maximum discharge during year, 246 second-feet Jan. 1 (gage height, 2.97 feet); minimum, 1.6 second-feet several days in September (gage height, 0.72 foot).

1923-34: Maximum discharge, 510 second-feet Feb. 18, 1927; minimum, 1.2 second-feet Aug. 22, 1925.

Remarks.- Records good. Discharge estimated Dec. 14-19. No diversions. Results of some discharge measurements furnished by Los Angeles County Flood Control District.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 3.0 | 2.5 | 3.4 | 193 | 8.0 | 11 | 8.5 | 6 | 4.4 | 3.7 | 3.0 | 2.2 |
| 2 | 3.0 | 2.5 | 3.4 | 72 | 8 | 11 | 8.5 | 5.5 | 4.7 | 3.7 | 2.8 | 2.2 |
| 3 | 3.0 | 2.5 | 3.4 | 45 | 7.5 | 12 | 8.5 | 5.5 | 5 | 3.4 | 2.8 | 2.0 |
| 4 | 3.0 | 2.5 | 3.4 | 34 | 7.5 | 13 | 9 | 5.5 | 5 | 3.7 | 2.8 | 2.2 |
| 5 | 3.0 | 2.5 | 3.4 | 28 | 7.5 | 14 | 9 | 5.5 | 5 | 3.4 | 3.0 | 2.0 |
| 6 | 3.0 | 2.4 | 3.5 | 24 | 7.5 | 14 | 9 | 5.5 | 5 | 3.7 | 3.0 | 2.0 |
| 7 | 2.8 | 2.4 | 3.5 | 19 | 8 | 14 | 8.5 | 6 | 5 | 3.4 | 2.8 | 2.0 |
| 8 | 2.8 | 2.4 | 3.5 | 17 | 8 | 14 | 8 | 6.5 | 5 | 3.4 | 2.8 | 2.0 |
| 9 | 2.8 | 2.4 | 3.5 | 15 | 8 | 14 | 8 | 6.5 | 4.7 | 3.4 | 2.9 | 2.0 |
| 10 | 3.0 | 2.5 | 3.5 | 16 | 8 | 13 | 8 | 6.5 | 4.7 | 3.2 | 2.8 | 2.2 |
| 11 | 2.8 | 2.5 | 3.5 | 13 | 8 | 13 | 7.5 | 6.5 | 4.4 | 3.4 | 2.6 | 2.0 |
| 12 | 3.0 | 2.5 | 3.5 | 12 | 8 | 13 | 7.5 | 6 | 4.2 | 3.2 | 2.6 | 2.0 |
| 13 | 2.8 | 2.5 | 23 | 11 | 8 | 13 | 7.5 | 5.5 | 4.2 | 3.2 | 2.4 | 2.2 |
| 14 | 2.8 | 2.5 | 12 | 10 | 7.5 | 12 | 7.5 | 5.5 | 4.2 | 3.4 | 2.6 | 2.0 |
| 15 | 3.0 | 2.5 | 10 | 10 | 8 | 12 | 7 | 5.5 | 4.2 | 3.7 | 2.6 | 2.0 |
| 16 | 3.0 | 2.7 | 8 | 10 | 8 | 11 | 7 | 5 | 4.0 | 3.7 | 2.4 | 2.0 |
| 17 | 3.0 | 2.8 | 6 | 10 | 8 | 10 | 7 | 5 | 3.7 | 4.0 | 2.4 | 2.0 |
| 18 | 3.0 | 2.8 | 5 | 11 | 8 | 10 | 7 | 5 | 3.7 | 3.7 | 2.6 | 2.0 |
| 19 | 2.8 | 2.8 | 4.5 | 10 | 8 | 10 | 7 | 5 | 3.7 | 4.0 | 2.6 | 2.0 |
| 20 | 3.0 | 2.8 | 4.2 | 11 | 7.5 | 10 | 7 | 4.4 | 3.7 | 4.2 | 2.6 | 2.0 |
| 21 | 2.8 | 3.0 | 4.2 | 11 | 7.5 | 10 | 7 | 4.4 | 3.7 | 3.7 | 2.4 | 2.0 |
| 22 | 2.8 | 3.0 | 4.2 | 10 | 8 | 10 | 7 | 4.2 | 3.7 | 4.0 | 2.4 | 2.0 |
| 23 | 2.8 | 2.8 | 4.2 | 10 | 10 | 9.5 | 7 | 4.2 | 3.7 | 3.7 | 2.4 | 2.0 |
| 24 | 2.8 | 2.8 | 4.2 | 10 | 14 | 9.5 | 7 | 4.0 | 3.7 | 3.7 | 2.4 | 2.2 |
| 25 | 2.7 | 3.0 | 4.2 | 10 | 11 | 9 | 7 | 4.0 | 3.7 | 3.2 | 2.2 | 2.0 |
| 26 | 2.5 | 3.0 | 4.2 | 10 | 11 | 9 | 7 | 4.2 | 3.7 | 3.2 | 2.2 | 2.0 |
| 27 | 2.7 | 3.0 | 4.2 | 9.5 | 10 | 9 | 7 | 4.2 | 3.7 | 3.0 | 2.2 | 2.0 |
| 28 | 2.5 | 3.2 | 4.2 | 9.5 | 11 | 9 | 6.5 | 4.2 | 3.7 | 3.0 | 2.2 | 2.0 |
| 29 | 2.5 | 3.2 | 4.2 | 9 | | 8.5 | 6.5 | 4.2 | 3.7 | 3.2 | 2.2 | 2.0 |
| 30 | 2.5 | 3.4 | 4.9 | 9 | | 8.5 | 6.5 | 4.2 | 3.7 | 3.0 | 2.2 | 2.0 |
| 31 | 2.5 | | 59 | 8.5 | | 8.5 | | 4.2 | | 3.0 | 2.2 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 3.0 | 2.5 | 2.83 | 174 | | |
| November | | | | | | | 3.4 | 2.4 | 2.71 | 161 | | |
| December | | | | | | | 59 | 3.4 | 6.96 | 428 | | |
| January | | | | | | | 193 | 8.5 | 21.9 | 1,340 | | |
| February | | | | | | | 14 | 7.5 | 8.55 | 475 | | |
| March | | | | | | | 14 | 9.5 | 11.1 | 603 | | |
| April | | | | | | | 9 | 6.5 | 7.52 | 447 | | |
| May | | | | | | | 6.5 | 4.0 | 5.11 | 314 | | |
| June | | | | | | | 5 | 3.7 | 4.18 | 249 | | |
| July | | | | | | | 4.2 | 3.0 | 3.49 | 215 | | |
| August | | | | | | | 3.0 | 2.2 | 2.55 | 157 | | |
| September | | | | | | | 2.2 | 2.0 | 2.04 | 121 | | |
| The year | | | | | | | 193 | 2.0 | 6.59 | 4,760 | | |

Little Rock Creek near Little Rock, Calif.

Location.- Water-stage recorder about a quarter of a mile above junction with Santiago Creek and 5 miles south of Little Rock, Los Angeles County.

Drainage area.- 49.0 square miles.

Records available.- October 1930 to September 1934.

Extremes.- Maximum discharge during year not determined; no flow several months.
1930-34: Maximum discharge, 2,200 second-feet Feb. 8, 1932; no flow part of each year.

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

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|---------|------|---------|-----|------|------|----------------------|-------|
| 1 | | | 0 | 455 | 4.2 | 16 | 4.6 | 1.2 | 0.3 | | | |
| 2 | | | 0 | 106 | 4.2 | 17 | 4.4 | 1.2 | .3 | | | |
| 3 | | | 0 | 61 | 4.2 | 16 | 4.2 | 1.2 | .3 | | | |
| 4 | | | 0 | 37 | 4.2 | 16 | 4.2 | 1.1 | .3 | | | |
| 5 | | | 0 | 38 | 4.2 | 15 | 3.8 | 1.1 | .2 | | | |
| 6 | | | 0 | 32 | 4.2 | 14 | 3.6 | 1.0 | .2 | | | |
| 7 | | | 0 | 26 | 4.2 | 13 | 3.4 | 1.0 | .2 | | | |
| 8 | | | 0 | 20 | 4.2 | 12 | 3.2 | 1.0 | .2 | | | |
| 9 | | | 0 | 13 | 4.2 | 11 | 3.0 | 1.0 | .1 | | | |
| 10 | | | 0 | 12 | 4.2 | 10 | 2.8 | 1.0 | .1 | | | |
| 11 | | | 0 | 12 | 4.0 | 10 | 2.6 | .9 | .1 | | | |
| 12 | | | 0 | 10 | 3.8 | 9.5 | 2.6 | .9 | 0 | | | |
| 13 | | | 0 | 9 | 3.8 | 8.5 | 2.4 | .9 | 0 | | | |
| 14 | | | 0 | 8 | 3.8 | 8 | 2.2 | .8 | 0 | | | |
| 15 | | | 0 | 8 | 3.6 | 8 | 2.0 | .8 | 0 | | | |
| 16 | | | 18 | 8 | 3.6 | 7.5 | 2.0 | .7 | 0 | | | |
| 17 | | | 9 | 7.5 | 3.4 | 7 | 1.9 | .7 | 0 | | | |
| 18 | | | 4.7 | 7 | 3.4 | 7 | 1.7 | .7 | 0 | | | |
| 19 | | | 2.6 | 6.5 | 3.6 | 6.5 | 1.7 | .7 | 0 | | | |
| 20 | | | 2.0 | 6.5 | 3.6 | 6.5 | 1.7 | .7 | 0 | | | |
| 21 | | | 1.7 | 6 | 3.6 | 7 | 1.6 | .6 | 0 | | | |
| 22 | | | 1.5 | 6 | 3.4 | 6.5 | 1.6 | .6 | 0 | | | |
| 23 | | | 1.3 | 5.5 | 20 | 7 | 1.6 | .6 | 0 | | | |
| 24 | | | 1.1 | 5 | 25 | 7 | 1.6 | .6 | 0 | | | |
| 25 | | | 1.0 | 5 | 20 | 6.5 | 1.6 | .6 | 0 | | | |
| 26 | | | .8 | 6 | 16 | 6.5 | 1.4 | .4 | 0 | | | |
| 27 | | | .6 | 4.8 | 16 | 6 | 1.4 | .4 | 0 | | | |
| 28 | | | .5 | 4.6 | 16 | 5.5 | 1.4 | .4 | 0 | | | |
| 29 | | | .3 | 4.6 | 5 | 5 | 1.4 | .4 | 0 | | | |
| 30 | | | .2 | 4.4 | 5 | 5 | 1.4 | .4 | 0 | | | |
| 31 | | | 333 | 4.4 | | 4.6 | | .3 | | | | |
| Month | | | | | Maximum | | Minimum | | Mean | | Run-off in acre-feet | |
| October | | | | | 0 | | 0 | | 0 | | 0 | |
| November | | | | | 0 | | 0 | | 0 | | 0 | |
| December | | | | | 333 | | 0 | | 12.2 | | 750 | |
| January | | | | | 455 | | 4.4 | | 30.3 | | 1,860 | |
| February | | | | | 25 | | 3.4 | | 7.09 | | 394 | |
| March | | | | | 17 | | 4.6 | | 9.20 | | 565 | |
| April | | | | | 4.6 | | 1.4 | | 2.43 | | 144 | |
| May | | | | | 1.2 | | .3 | | .76 | | 47.0 | |
| June | | | | | .3 | | 0 | | .08 | | 4.6 | |
| July | | | | | 0 | | 0 | | 0 | | 0 | |
| August | | | | | 0 | | 0 | | 0 | | 0 | |
| September | | | | | 0 | | 0 | | 0 | | 0 | |
| The year | | | | | 455 | | 0 | | 5.20 | | 3,760 | |

Note.- No flow during months left blank.

Owens River near Round Valley, Calif.

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 10, T. 6 S., R. 31 E., below Sheep Bridge, 700 feet above mouth of Rock Creek, and 2 miles north of Round Valley. Altitude, about 4,450 feet.

Drainage area.- About 450 square miles.

Records available.- August 1903 to September 1923, April 1927 to September 1934.

Average discharge.- 27 years, 228 second-feet.

Extremes.- Maximum discharge during year, 375 second-feet (estimated) Dec. 12 (gage height, 2.80 feet, estimated); minimum, 46 second-feet Aug. 20.
1903-23, 1927-34: Maximum discharge recorded, 1,190 second-feet June 30, 1907 (gage height, 4.0 feet); minimum, 5.4 second-feet Feb. 13, 1923.

Remarks.- No diversions above station. Daily-discharge record furnished by city of Los Angeles.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 109 | 138 | 133 | 167 | 141 | 151 | 137 | 116 | 134 | 129 | 84 | 102 |
| 2 | 110 | 134 | 131 | 153 | 141 | 153 | 135 | 122 | 130 | 133 | 84 | 102 |
| 3 | 110 | 134 | 131 | 153 | 141 | 171 | 131 | 117 | 124 | 136 | 78 | 98 |
| 4 | 118 | 128 | 128 | 151 | 141 | 196 | 131 | 117 | 125 | 129 | 77 | 94 |
| 5 | 117 | 125 | 123 | 146 | 141 | 224 | 130 | 117 | 138 | 120 | 73 | 92 |
| 6 | 116 | 125 | 125 | 141 | 142 | 238 | 127 | 120 | 162 | 120 | 70 | 90 |
| 7 | 116 | 128 | 130 | 139 | 144 | 273 | 127 | 122 | 162 | 112 | 71 | 90 |
| 8 | 117 | 125 | 128 | 131 | 144 | 271 | 125 | 122 | 172 | 104 | 71 | 88 |
| 9 | 122 | 128 | 130 | 128 | 144 | 260 | 125 | 133 | 178 | 104 | 72 | 86 |
| 10 | 120 | 128 | 133 | 139 | 143 | 271 | 121 | 146 | 164 | 102 | 72 | 83 |
| 11 | 120 | 128 | 136 | 139 | 141 | 268 | 120 | 150 | 144 | 94 | 71 | 82 |
| 12 | 118 | 128 | 190 | 146 | 141 | 283 | 118 | 144 | 135 | 88 | 70 | 86 |
| 13 | 117 | 128 | 285 | 141 | 138 | 289 | 118 | 150 | 144 | 88 | 71 | 88 |
| 14 | 116 | 128 | 180 | 134 | 143 | 280 | 117 | 158 | 150 | 88 | 74 | 86 |
| 15 | 116 | 131 | 166 | 139 | 146 | 259 | 120 | 166 | 148 | 88 | 76 | 86 |
| 16 | 116 | 130 | 150 | 138 | 150 | 228 | 126 | 167 | 146 | 83 | 76 | 86 |
| 17 | 116 | 130 | 163 | 136 | 148 | 200 | 126 | 164 | 154 | 88 | 77 | 84 |
| 18 | 116 | 128 | 162 | 134 | 150 | 176 | 126 | 160 | 162 | 88 | 75 | 86 |
| 19 | 116 | 126 | 153 | 138 | 151 | 164 | 126 | 156 | 170 | 83 | 76 | 89 |
| 20 | 114 | 126 | 144 | 146 | 153 | 158 | 126 | 152 | 166 | 82 | 75 | 89 |
| 21 | 111 | 126 | 144 | 139 | 150 | 158 | 128 | 148 | 170 | 82 | 77 | 92 |
| 22 | 114 | 128 | 144 | 141 | 150 | 152 | 130 | 144 | 170 | 82 | 84 | 94 |
| 23 | 116 | 131 | 141 | 138 | 151 | 152 | 130 | 140 | 166 | 82 | 82 | 92 |
| 24 | 118 | 130 | 139 | 143 | 153 | 174 | 128 | 137 | 156 | 82 | 80 | 95 |
| 25 | 120 | 131 | 138 | 148 | 151 | 158 | 126 | 144 | 148 | 84 | 80 | 95 |
| 26 | 125 | 128 | 136 | 150 | 153 | 146 | 126 | 148 | 136 | 82 | 80 | 95 |
| 27 | 125 | 131 | 136 | 148 | 153 | 144 | 123 | 144 | 135 | 82 | 101 | 94 |
| 28 | 125 | 133 | 136 | 146 | 150 | 140 | 120 | 138 | 132 | 82 | 115 | 94 |
| 29 | 126 | 122 | 136 | 144 | | 138 | 120 | 141 | 125 | 84 | 105 | 94 |
| 30 | 128 | 128 | 139 | 143 | | 138 | 116 | 144 | 125 | 90 | 102 | 94 |
| 31 | 143 | | 141 | 143 | | 137 | 140 | 140 | | 90 | 99 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 143 | 109 | 118 | 7,260 | | |
| November | | | | | | | 138 | 122 | 129 | 7,680 | | |
| December | | | | | | | 285 | 123 | 146 | 8,980 | | |
| January | | | | | | | 167 | 123 | 143 | 8,790 | | |
| February | | | | | | | 153 | 138 | 146 | 8,110 | | |
| March | | | | | | | 289 | 137 | 198 | 12,200 | | |
| April | | | | | | | 137 | 117 | 125 | 7,440 | | |
| May | | | | | | | 167 | 116 | 141 | 8,670 | | |
| June | | | | | | | 178 | 124 | 149 | 8,870 | | |
| July | | | | | | | 136 | 82 | 96.3 | 5,920 | | |
| August | | | | | | | 115 | 70 | 80.6 | 4,960 | | |
| September | | | | | | | 102 | 82 | 90.9 | 5,410 | | |
| The year | | | | | | | 289 | 70 | 130 | 94,300 | | |

Owens River at Pleasant Valley, near Bishop, Calif.

Location.- Water-stage recorder in NW $\frac{1}{4}$ sec. 24, T. 6 S., R. 31 E., 1,000 feet above Owens River Canal intake and 8 miles northwest of Bishop. Altitude, about 4,350 feet.

Drainage area.- 596 square miles.

Records available.- March 1918 to September 1934.

Average discharge.- 16 years, 227 second-feet.

Extremes.- Maximum discharge during year, 420 second-feet Dec. 12 (gage height, 4.16 feet); minimum, 90 second-feet July 1.
1918-34: Maximum discharge, 1,580 second-feet June 13, 1921 (gage height, 6.15 feet); minimum, 53 second-feet Aug. 25, 1931.

Remarks.- Diversions from tributaries above station. Daily-discharge record furnished by city of Los Angeles.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 144 | 160 | 173 | 285 | 179 | 191 | 177 | 146 | 159 | 90 | 117 | 133 |
| 2 | 149 | 157 | 173 | 212 | 180 | 194 | 175 | 144 | 149 | 93 | 116 | 136 |
| 3 | 149 | 157 | 173 | 205 | 182 | 212 | 173 | 138 | 132 | 100 | 106 | 131 |
| 4 | 148 | 157 | 169 | 203 | 183 | 236 | 175 | 144 | 140 | 107 | 102 | 126 |
| 5 | 146 | 154 | 160 | 193 | 185 | 259 | 179 | 142 | 165 | 114 | 99 | 128 |
| 6 | 146 | 155 | 171 | 188 | 188 | 283 | 179 | 147 | 208 | 122 | 95 | 123 |
| 7 | 146 | 159 | 173 | 185 | 189 | 306 | 178 | 153 | 201 | 129 | 95 | 125 |
| 8 | 149 | 158 | 172 | 175 | 188 | 330 | 175 | 155 | 221 | 136 | 97 | 125 |
| 9 | 156 | 158 | 169 | 171 | 186 | 308 | 179 | 169 | 224 | 143 | 97 | 122 |
| 10 | 154 | 160 | 175 | 186 | 182 | 320 | 177 | 191 | 208 | 138 | 97 | 117 |
| 11 | 152 | 160 | 178 | 180 | 183 | 320 | 169 | 201 | 185 | 126 | 94 | 115 |
| 12 | 154 | 160 | 262 | 190 | 182 | 332 | 165 | 203 | 173 | 118 | 92 | 117 |
| 13 | 152 | 160 | 344 | 186 | 183 | 338 | 163 | 220 | 187 | 115 | 98 | 117 |
| 14 | 151 | 160 | 228 | 186 | 185 | 320 | 163 | 238 | 200 | 112 | 99 | 112 |
| 15 | 149 | 163 | 212 | 186 | 186 | 306 | 171 | 246 | 198 | 111 | 98 | 112 |
| 16 | 146 | 160 | 183 | 176 | 188 | 276 | 179 | 246 | 191 | 115 | 98 | 114 |
| 17 | 144 | 160 | 183 | 184 | 183 | 249 | 171 | 245 | 202 | 118 | 101 | 118 |
| 18 | 145 | 158 | 203 | 181 | 189 | 224 | 171 | 238 | 210 | 115 | 97 | 118 |
| 19 | 136 | 157 | 200 | 184 | 191 | 206 | 169 | 230 | 219 | 111 | 97 | 115 |
| 20 | 135 | 159 | 191 | 192 | 191 | 199 | 175 | 222 | 203 | 108 | 95 | 117 |
| 21 | 133 | 160 | 197 | 186 | 188 | 200 | 171 | 219 | 202 | 108 | 99 | 118 |
| 22 | 137 | 161 | 197 | 189 | 188 | 193 | 181 | 219 | 200 | 108 | 106 | 118 |
| 23 | 139 | 163 | 193 | 187 | 192 | 192 | 177 | 216 | 198 | 108 | 105 | 118 |
| 24 | 139 | 163 | 192 | 180 | 194 | 216 | 173 | 208 | 193 | 111 | 101 | 125 |
| 25 | 140 | 164 | 188 | 181 | 192 | 196 | 169 | 208 | 190 | 114 | 102 | 128 |
| 26 | 141 | 163 | 187 | 187 | 197 | 185 | 163 | 208 | 186 | 106 | 105 | 128 |
| 27 | 143 | 167 | 183 | 187 | 193 | 183 | 153 | 200 | 182 | 105 | 138 | 131 |
| 28 | 142 | 173 | 183 | 186 | 191 | 180 | 152 | 181 | 178 | 106 | 161 | 131 |
| 29 | 143 | 158 | 184 | 185 | | 177 | 150 | 171 | 174 | 105 | 140 | 133 |
| 30 | 146 | 167 | 187 | 181 | | 177 | 148 | 179 | 170 | 126 | 133 | 133 |
| 31 | 164 | | 191 | 180 | | 175 | | 171 | | 125 | 128 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 164 | 133 | 146 | 9,980 | | |
| November | | | | | | | 173 | 154 | 160 | 9,520 | | |
| December | | | | | | | 344 | 160 | 193 | 11,900 | | |
| January | | | | | | | 285 | 171 | 190 | 11,700 | | |
| February | | | | | | | 197 | 179 | 187 | 10,400 | | |
| March | | | | | | | 338 | 175 | 241 | 14,800 | | |
| April | | | | | | | 181 | 148 | 170 | 10,100 | | |
| May | | | | | | | 246 | 138 | 193 | 11,900 | | |
| June | | | | | | | 224 | 132 | 188 | 11,200 | | |
| July | | | | | | | 143 | 90 | 114 | 7,010 | | |
| August | | | | | | | 161 | 92 | 107 | 6,580 | | |
| September | | | | | | | 136 | 112 | 123 | 7,320 | | |
| The year | | | | | | | 344 | 90 | 168 | 121,000 | | |

Owens River near Big Pine, Calif.

Location.- Water-stage recorder in sec. 2, T. 11 S., R. 34 E., at Charlies Butte, 11 miles southeast of Big Pine. Altitude, about 3,850 feet.

Drainage area.- 1,930 square miles.

Records available.- September 1906 to September 1934.

Average discharge.- 28 years, 331 second-feet.

Extremes.- Maximum discharge during year, 650 second-feet Dec. 7 (gage height, 4.08 feet); minimum, 16 second-feet Feb. 20.
1906-34: Maximum discharge, about 3,220 second-feet Jan. 26, 1914 (gage height, 11.2 feet); minimum, 4 second-feet June 6, 1930.

Remarks.- Diversions above station from river and tributaries. Storage in Tinemaha Reservoir, capacity 16,600 acre-feet. Daily-discharge record furnished by city of Los Angeles.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 18 | 475 | 492 | 303 | 339 | 299 | 288 | 297 | 288 | 270 | 228 | 231 |
| 2 | 18 | 475 | 499 | 297 | 339 | 301 | 288 | 296 | 280 | 269 | 226 | 226 |
| 3 | 18 | 477 | 499 | 349 | 339 | 307 | 289 | 299 | 276 | 279 | 219 | 230 |
| 4 | 18 | 476 | 495 | 418 | 339 | 303 | 288 | 301 | 271 | 294 | 211 | 232 |
| 5 | 18 | 474 | 493 | 416 | 339 | 301 | 288 | 301 | 264 | 293 | 204 | 232 |
| 6 | 18 | 474 | 501 | 416 | 325 | 299 | 286 | 301 | 266 | 281 | 205 | 218 |
| 7 | 18 | 474 | 511 | 414 | 319 | 295 | 288 | 300 | 283 | 270 | 197 | 212 |
| 8 | 18 | 472 | 505 | 420 | 319 | 289 | 288 | 299 | 296 | 263 | 196 | 205 |
| 9 | 18 | 474 | 504 | 478 | 317 | 303 | 288 | 384 | 303 | 250 | 199 | 202 |
| 10 | 18 | 474 | 502 | 478 | 315 | 305 | 288 | 482 | 317 | 244 | 200 | 198 |
| 11 | 18 | 472 | 496 | 478 | 311 | 307 | 286 | 471 | 318 | 239 | 195 | 196 |
| 12 | 18 | 470 | 466 | 475 | 285 | 309 | 285 | 468 | 306 | 244 | 192 | 182 |
| 13 | 18 | 473 | 451 | 478 | 180 | 311 | 282 | 465 | 292 | 244 | 191 | 178 |
| 14 | 18 | 471 | 448 | 478 | 174 | 314 | 281 | 458 | 283 | 237 | 186 | 177 |
| 15 | 18 | 470 | 469 | 422 | 172 | 316 | 280 | 460 | 281 | 230 | 187 | 177 |
| 16 | 18 | 471 | 451 | 355 | 171 | 296 | 279 | 469 | 266 | 223 | 186 | 178 |
| 17 | 18 | 470 | 443 | 325 | 171 | 300 | 279 | 465 | 290 | 222 | 188 | 181 |
| 18 | 18 | 471 | 412 | 295 | 112 | 296 | 280 | 455 | 297 | 220 | 188 | 185 |
| 19 | 141 | 475 | 384 | 289 | 19 | 290 | 284 | 415 | 317 | 223 | 189 | 191 |
| 20 | 368 | 471 | 386 | 285 | 16 | 293 | 282 | 362 | 316 | 223 | 188 | 186 |
| 21 | 368 | 446 | 351 | 285 | 48 | 295 | 282 | 349 | 332 | 227 | 189 | 186 |
| 22 | 368 | 34 | 311 | 285 | 484 | 295 | 282 | 345 | 331 | 220 | 193 | 189 |
| 23 | 363 | 30 | 311 | 287 | 505 | 294 | 282 | 339 | 324 | 213 | 196 | 185 |
| 24 | 368 | 25 | 312 | 309 | 411 | 295 | 282 | 345 | 332 | 214 | 195 | 182 |
| 25 | 373 | 20 | 306 | 343 | 307 | 290 | 282 | 332 | 329 | 218 | 189 | 179 |
| 26 | 378 | 20 | 304 | 343 | 299 | 290 | 284 | 321 | 307 | 218 | 189 | 184 |
| 27 | 380 | 20 | 308 | 345 | 299 | 289 | 286 | 313 | 292 | 211 | 202 | 188 |
| 28 | 382 | 310 | 304 | 345 | 299 | 289 | 289 | 304 | 285 | 208 | 228 | 192 |
| 29 | 384 | 443 | 303 | 345 | 289 | 289 | 292 | 297 | 285 | 208 | 232 | 196 |
| 30 | 431 | 493 | 306 | 343 | 289 | 289 | 295 | 290 | 283 | 217 | 240 | 199 |
| 31 | 476 | | 310 | 341 | | 289 | | 287 | | 223 | 232 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 476 | 18 | 164 | 10,100 | | |
| November | | | | | | | 493 | 20 | 377 | 22,400 | | |
| December | | | | | | | 511 | 303 | 414 | 25,500 | | |
| January | | | | | | | 478 | 285 | 369 | 22,700 | | |
| February | | | | | | | 505 | 16 | 270 | 15,000 | | |
| March | | | | | | | 316 | 289 | 298 | 18,300 | | |
| April | | | | | | | 295 | 279 | 285 | 17,000 | | |
| May | | | | | | | 482 | 287 | 364 | 22,400 | | |
| June | | | | | | | 352 | 264 | 298 | 17,700 | | |
| July | | | | | | | 294 | 208 | 239 | 14,700 | | |
| August | | | | | | | 240 | 186 | 202 | 12,400 | | |
| September | | | | | | | 232 | 177 | 197 | 11,700 | | |
| The year | | | | | | | 511 | 16 | 290 | 210,000 | | |

Rock Creek at Sherwin Hill, near Bishop, Calif.

Location.- Water-stage recorder in SW $\frac{1}{4}$ sec. 29, T. 5 S., R. 31 E., at Sherwin Hill, 3 miles above Pine Creek and 14 miles northwest of Bishop. Altitude, about 4,900 feet.

Drainage area.- 51.7 square miles.

Records available.- August 1922 to September 1934.

Average discharge.- 12 years, 20.3 second-feet.

Extremes.- Maximum discharge during year, 22 second-feet Apr. 22 (gage height, 0.95 foot); minimum, 3.9 second-feet Nov. 29.
1922-34: Maximum discharge recorded, 162 second-feet June 17, 1927 (gage height, 3.04 feet at old gage); minimum, 1.8 second-feet Jan. 6, 7, 1930.

Remarks.- No diversions. Daily-discharge record furnished by city of Los Angeles.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 8 | 8.5 | 9 | 8.5 | 11 | 12 | 16 | 10 | 8 | 11 | 9 | 15 |
| 2 | 8 | 9.5 | 10 | 13 | 11 | 12 | 15 | 11 | 10 | 14 | 9.5 | 14 |
| 3 | 8 | 9.5 | 10 | 14 | 11 | 13 | 15 | 11 | 11 | 13 | 9.5 | 14 |
| 4 | 8 | 9 | 7.5 | 13 | 11 | 13 | 14 | 10 | 10 | 11 | 10 | 13 |
| 5 | 8 | 8.5 | 8 | 11 | 11 | 13 | 15 | 12 | 11 | 13 | 10 | 12 |
| 6 | 8 | 9 | 12 | 11 | 11 | 13 | 15 | 13 | 11 | 13 | 9.5 | 12 |
| 7 | 8.5 | 9 | 11 | 11 | 11 | 13 | 15 | 14 | 11 | 13 | 9 | 12 |
| 8 | 8.5 | 8.5 | 10 | 10 | 11 | 12 | 16 | 14 | 12 | 13 | 9 | 12 |
| 9 | 9 | 9 | 10 | 8 | 9.5 | 12 | 16 | 15 | 11 | 10 | 9 | 11 |
| 10 | 9 | 9 | 11 | 9 | 8 | 12 | 17 | 16 | 11 | 9 | 8.5 | 11 |
| 11 | 9 | 9 | 11 | 13 | 10 | 12 | 17 | 17 | 11 | 7 | 9 | 11 |
| 12 | 9 | 9 | 14 | 11 | 10 | 12 | 19 | 16 | 10 | 7.5 | 8.5 | 10 |
| 13 | 9 | 9 | 15 | 13 | 10 | 13 | 19 | 19 | 11 | 7.5 | 8.5 | 10 |
| 14 | 9 | 9 | 11 | 12 | 11 | 13 | 20 | 20 | 11 | 7 | 8 | 9.5 |
| 15 | 9 | 9 | 10 | 12 | 11 | 13 | 20 | 20 | 11 | 7 | 7.5 | 9 |
| 16 | 8.5 | 8.5 | 7.5 | 10 | 11 | 13 | 21 | 20 | 11 | 7 | 7.5 | 9 |
| 17 | 8.5 | 8.5 | 8 | 13 | 9 | 14 | 21 | 19 | 11 | 7 | 7.5 | 8.5 |
| 18 | 3.5 | 8 | 16 | 11 | 11 | 13 | 21 | 18 | 12 | 7 | 7.5 | 8.5 |
| 19 | 8.5 | 8.5 | 14 | 11 | 11 | 13 | 21 | 16 | 14 | 9 | 7.5 | 8 |
| 20 | 8.5 | 8.5 | 12 | 11 | 11 | 13 | 21 | 15 | 15 | 9 | 9 | 8 |
| 21 | 8.5 | 8.5 | 12 | 10 | 11 | 13 | 21 | 15 | 16 | 9 | 9.5 | 8 |
| 22 | 8.5 | 8.5 | 13 | 13 | 11 | 13 | 22 | 15 | 18 | 9 | 9.5 | 8 |
| 23 | 8 | 9 | 15 | 12 | 11 | 14 | 22 | 14 | 17 | 9 | 9.5 | 7.5 |
| 24 | 8 | 9 | 12 | 10 | 11 | 15 | 18 | 14 | 16 | 9 | 9.5 | 8 |
| 25 | 8 | 9 | 12 | 10 | 10 | 15 | 13 | 13 | 17 | 9 | 9.5 | 8 |
| 26 | 8 | 8.5 | 12 | 11 | 12 | 14 | 12 | 13 | 17 | 9 | 11 | 8.5 |
| 27 | 8.5 | 9 | 12 | 12 | 12 | 15 | 11 | 12 | 16 | 9 | 13 | 8.5 |
| 28 | 8.5 | 7.5 | 12 | 11 | 11 | 15 | 10 | 12 | 13 | 9 | 13 | 8.5 |
| 29 | 8.5 | 7 | 12 | 12 | 12 | 16 | 10 | 11 | 12 | 9 | 13 | 8.5 |
| 30 | 8.5 | 11 | 11 | 11 | 11 | 16 | 10 | 11 | 11 | 9 | 13 | 8.5 |
| 31 | 9 | | 12 | 11 | | 15 | | 9 | | 9 | 14 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 9 | 8 | 8.47 | 521 | | |
| November | | | | | | | 11 | 7 | 8.78 | 522 | | |
| December | | | | | | | 16 | 7.5 | 11.3 | 695 | | |
| January | | | | | | | 14 | 8 | 11.2 | 689 | | |
| February | | | | | | | 12 | 8 | 10.7 | 594 | | |
| March | | | | | | | 16 | 12 | 13.4 | 824 | | |
| April | | | | | | | 22 | 10 | 16.8 | 1,000 | | |
| May | | | | | | | 20 | 9 | 14.4 | 885 | | |
| June | | | | | | | 18 | 8 | 12.5 | 744 | | |
| July | | | | | | | 14 | 7 | 9.48 | 583 | | |
| August | | | | | | | 14 | 7.5 | 9.61 | 591 | | |
| September | | | | | | | 15 | 7.5 | 9.98 | 594 | | |
| The year | | | | | | | 22 | 7 | 11.4 | 8,240 | | |

Rock Creek near Round Valley, Calif.

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 9, T. 6 S., R. 31 E., above mouth of Pine Creek and 2 miles northwest of Round Valley. Altitude, about 4,450 feet.

Drainage area.- About 96 square miles.

Records available.- August 1903 to September 1923, April 1930 to September 1934.

Average discharge.- 24 years, 39.1 second-feet.

Extremes.- Maximum discharge during year, 110 second-feet Jan. 1 (gage height, 2.22 feet); minimum, 8 second-feet July 30.

1903-23, 1930-34: Maximum discharge recorded, 360 second-feet Jan. 25, 1914 (gage height, 5.0 feet at old gage); minimum, 7.5 second-feet Sept. 16, 1933.

Remarks.- Water diverted above station for irrigation. Record of daily discharge furnished by city of Los Angeles.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | 14 | 18 | 12 | 80 | 21 | 23 | 18 | 10 | 11 | 14 | 11 | 14 |
| 2 | 14 | 19 | 20 | 29 | 21 | 22 | 18 | 12 | 11 | 15 | 11 | 16 |
| 3 | 13 | 19 | 20 | 29 | 21 | 23 | 17 | 12 | 11 | 15 | 9.5 | 16 |
| 4 | 13 | 19 | 18 | 27 | 21 | 22 | 18 | 12 | 11 | 17 | 9.5 | 16 |
| 5 | 13 | 19 | 16 | 24 | 21 | 23 | 16 | 12 | 13 | 16 | 11 | 16 |
| 6 | 13 | 19 | 22 | 24 | 21 | 22 | 20 | 14 | 17 | 15 | 11 | 15 |
| 7 | 13 | 21 | 22 | 23 | 21 | 23 | 20 | 15 | 17 | 16 | 11 | 15 |
| 8 | 13 | 20 | 20 | 19 | 21 | 22 | 20 | 16 | 21 | 16 | 11 | 16 |
| 9 | 14 | 20 | 20 | 14 | 19 | 23 | 20 | 17 | 17 | 14 | 10 | 14 |
| 10 | 14 | 20 | 21 | 18 | 17 | 23 | 20 | 16 | 16 | 12 | 10 | 15 |
| 11 | 14 | 20 | 32 | 22 | 18 | 22 | 19 | 18 | 16 | 12 | 9.5 | 14 |
| 12 | 14 | 20 | 43 | 21 | 20 | 21 | 18 | 19 | 17 | 11 | 9 | 14 |
| 13 | 14 | 20 | 54 | 22 | 20 | 21 | 18 | 18 | 17 | 10 | 9.5 | 14 |
| 14 | 14 | 20 | 30 | 22 | 21 | 22 | 18 | 22 | 18 | 11 | 9 | 14 |
| 15 | 14 | 19 | 24 | 22 | 21 | 22 | 20 | 20 | 18 | 11 | 9 | 14 |
| 16 | 14 | 19 | 23 | 22 | 19 | 22 | 20 | 17 | 18 | 12 | 9 | 13 |
| 17 | 14 | 19 | 22 | 22 | 17 | 21 | 20 | 17 | 19 | 10 | 9 | 13 |
| 18 | 14 | 19 | 24 | 22 | 21 | 21 | 21 | 17 | 19 | 10 | 9 | 12 |
| 19 | 14 | 19 | 24 | 22 | 20 | 21 | 21 | 20 | 19 | 11 | 9 | 12 |
| 20 | 15 | 20 | 23 | 22 | 19 | 22 | 21 | 20 | 20 | 10 | 9 | 11 |
| 21 | 15 | 19 | 24 | 21 | 20 | 22 | 18 | 16 | 20 | 10 | 9 | 10 |
| 22 | 15 | 19 | 24 | 22 | 20 | 22 | 20 | 16 | 19 | 10 | 10 | 10 |
| 23 | 16 | 19 | 24 | 22 | 20 | 20 | 18 | 16 | 21 | 11 | 11 | 9.5 |
| 24 | 16 | 19 | 24 | 22 | 19 | 21 | 17 | 14 | 19 | 11 | 11 | 9.5 |
| 25 | 16 | 19 | 24 | 22 | 19 | 14 | 14 | 14 | 19 | 11 | 11 | 9.5 |
| 26 | 16 | 19 | 24 | 22 | 22 | 13 | 12 | 12 | 19 | 12 | 12 | 11 |
| 27 | 16 | 20 | 24 | 23 | 21 | 14 | 12 | 12 | 18 | 11 | 14 | 11 |
| 28 | 16 | 18 | 24 | 22 | 19 | 16 | 13 | 12 | 14 | 11 | 11 | 11 |
| 29 | 15 | 14 | 24 | 22 | | 16 | 12 | 12 | 13 | 11 | 11 | 11 |
| 30 | 16 | 20 | 24 | 22 | | 16 | 10 | 12 | 13 | 10 | 12 | 11 |
| 31 | 18 | | 24 | 22 | | 17 | | 12 | | 11 | 12 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 18 | 13 | 14.5 | 892 | | |
| November | | | | | | | 20 | 14 | 19.2 | 1,140 | | |
| December | | | | | | | 54 | 12 | 24.3 | 1,490 | | |
| January | | | | | | | 80 | 14 | 24.1 | 1,480 | | |
| February | | | | | | | 22 | 17 | 20.0 | 1,110 | | |
| March | | | | | | | 23 | 13 | 20.4 | 1,250 | | |
| April | | | | | | | 21 | 10 | 17.7 | 1,050 | | |
| May | | | | | | | 22 | 10 | 15.3 | 941 | | |
| June | | | | | | | 21 | 11 | 16.7 | 994 | | |
| July | | | | | | | 17 | 10 | 12.2 | 750 | | |
| August | | | | | | | 14 | 9 | 10.3 | 633 | | |
| September | | | | | | | 16 | 9.5 | 12.8 | 762 | | |
| The year | | | | | | | 80 | 9 | 17.3 | 12,500 | | |

Pine Creek at division box near Bishop, Calif.

Location.- Water-stage recorder in NW $\frac{1}{4}$ sec. 19, T. 6 S., R. 31 E., a quarter of a mile above division box and forks of creek, 4 miles west of Round Valley, and 13 miles northwest of Bishop. Altitude, about 5,250 feet.

Drainage area.- 37.9 square miles.

Records available.- October 1921 to September 1934.

Average discharge.- 13 years, 36.1 second-feet.

Extremes.- Maximum discharge during year, 71 second-feet May 13 (gage height, 2.32 feet); minimum, 14 second-feet Jan. 17-25.

1922-34: Maximum discharge, 315 second-feet June 20, 1922 (gage height, 3.65 feet); minimum, 10 second-feet Jan. 8, 1930.

Remarks.- No diversions. Daily-discharge record furnished by city of Los Angeles.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 16 | 16 | 17 | 17 | 16 | 16 | 23 | 33 | 24 | 31 | 22 | 20 |
| 2 | 16 | 16 | 17 | 17 | 16 | 16 | 22 | 29 | 24 | 32 | 22 | 20 |
| 3 | 16 | 16 | 17 | 17 | 16 | 17 | 22 | 29 | 22 | 34 | 23 | 20 |
| 4 | 16 | 16 | 17 | 17 | 16 | 17 | 21 | 33 | 22 | 35 | 22 | 20 |
| 5 | 16 | 16 | 17 | 17 | 16 | 17 | 21 | 48 | 25 | 31 | 22 | 19 |
| 6 | 16 | 16 | 17 | 17 | 17 | 17 | 22 | 59 | 28 | 29 | 22 | 19 |
| 7 | 16 | 16 | 17 | 17 | 17 | 17 | 23 | 60 | 25 | 28 | 22 | 19 |
| 8 | 16 | 16 | 17 | 17 | 17 | 17 | 26 | 59 | 28 | 27 | 21 | 19 |
| 9 | 16 | 16 | 17 | 17 | 17 | 17 | 31 | 60 | 30 | 26 | 21 | 19 |
| 10 | 16 | 16 | 17 | 17 | 17 | 17 | 34 | 64 | 29 | 25 | 21 | 19 |
| 11 | 16 | 16 | 17 | 17 | 16 | 17 | 36 | 66 | 30 | 25 | 21 | 18 |
| 12 | 16 | 16 | 20 | 17 | 16 | 17 | 39 | 67 | 34 | 25 | 20 | 18 |
| 13 | 16 | 16 | 21 | 17 | 16 | 17 | 35 | 67 | 37 | 25 | 20 | 18 |
| 14 | 16 | 16 | 17 | 17 | 16 | 18 | 39 | 67 | 35 | 25 | 19 | 18 |
| 15 | 16 | 16 | 16 | 17 | 16 | 18 | 41 | 66 | 35 | 24 | 19 | 18 |
| 16 | 16 | 16 | 15 | 15 | 16 | 16 | 41 | 62 | 36 | 23 | 18 | 18 |
| 17 | 16 | 16 | 16 | 14 | 16 | 19 | 38 | 57 | 44 | 23 | 18 | 18 |
| 18 | 16 | 16 | 17 | 14 | 16 | 19 | 40 | 55 | 48 | 23 | 18 | 18 |
| 19 | 16 | 16 | 17 | 14 | 16 | 19 | 41 | 54 | 45 | 23 | 18 | 18 |
| 20 | 16 | 16 | 17 | 14 | 16 | 19 | 44 | 54 | 42 | 23 | 18 | 18 |
| 21 | 16 | 16 | 17 | 14 | 16 | 19 | 46 | 56 | 42 | 23 | 18 | 17 |
| 22 | 16 | 16 | 17 | 14 | 16 | 19 | 45 | 56 | 43 | 23 | 18 | 17 |
| 23 | 16 | 16 | 17 | 14 | 16 | 19 | 43 | 55 | 44 | 22 | 18 | 17 |
| 24 | 16 | 16 | 17 | 14 | 16 | 19 | 37 | 52 | 42 | 22 | 18 | 17 |
| 25 | 16 | 16 | 17 | 14 | 16 | 19 | 34 | 46 | 39 | 21 | 18 | 17 |
| 26 | 16 | 16 | 17 | 17 | 16 | 19 | 36 | 43 | 34 | 21 | 19 | 17 |
| 27 | 16 | 16 | 17 | 17 | 16 | 19 | 38 | 37 | 31 | 21 | 20 | 17 |
| 28 | 16 | 16 | 17 | 15 | 16 | 19 | 40 | 33 | 28 | 22 | 19 | 17 |
| 29 | 16 | 16 | 17 | 15 | 16 | 19 | 38 | 30 | 30 | 22 | 19 | 17 |
| 30 | 16 | 17 | 17 | 16 | 16 | 20 | 35 | 27 | 31 | 22 | 19 | 17 |
| 31 | 16 | 17 | 17 | 16 | 16 | 20 | | 25 | | 22 | 19 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 16 | 16 | 16.0 | 984 | | |
| November | | | | | | | 17 | 16 | 16.0 | 952 | | |
| December | | | | | | | 21 | 15 | 17.1 | 1,050 | | |
| January | | | | | | | 17 | 14 | 15.9 | 978 | | |
| February | | | | | | | 17 | 16 | 16.2 | 900 | | |
| March | | | | | | | 20 | 16 | 18.1 | 1,110 | | |
| April | | | | | | | 46 | 21 | 34.4 | 2,050 | | |
| May | | | | | | | 67 | 25 | 50.0 | 3,070 | | |
| June | | | | | | | 49 | 22 | 33.6 | 2,000 | | |
| July | | | | | | | 34 | 21 | 25.0 | 1,540 | | |
| August | | | | | | | 23 | 18 | 19.7 | 1,210 | | |
| September | | | | | | | 20 | 17 | 18.1 | 1,080 | | |
| The year | | | | | | | 67 | 14 | 23.4 | 16,900 | | |

Pine Creek near Round Valley, Calif.

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 9, T. 6 S., R. 31 E., 600 feet above junction with Rock Creek and 2 miles northwest of Round Valley. Altitude, about 4,450 feet.

Drainage area.- About 58 square miles.

Records available.- August 1903 to September 1923, April 1930 to September 1934.

Average discharge.- 24 years, 21.6 second-feet.

Extremes.- Maximum stage during year, 1.59 feet Jan. 1 (discharge not computed); minimum, 0.1 second-foot Aug. 25.

1903-23, 1930-34: Maximum daily discharge (estimated), 370 second-feet June 22, 1911; minimum, 0.1 second-foot July 30, Aug. 13, 1920, May 23, 1930, many days in 1931, Aug. 25, 1934.

Remarks.- Water diverted above station for irrigation. Daily-discharge record furnished by city of Los Angeles.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 0.6 | 1.8 | 2.8 | 30 | 3.3 | 3.3 | 2.1 | 3.5 | 1.2 | 3.8 | 1.3 | 1.0 |
| 2 | 1.0 | 1.8 | 2.8 | 8.5 | 3.2 | 3.0 | 1.8 | 2.4 | 1.2 | 3.8 | .5 | .8 |
| 3 | .8 | 1.9 | 3.0 | 6 | 3.2 | 2.8 | 1.7 | 1.9 | 1.2 | 4.2 | .2 | .5 |
| 4 | 1.0 | 2.1 | 2.8 | 5.5 | 3.2 | 2.8 | 1.2 | 2.7 | 1.2 | 6 | .5 | 2.1 |
| 5 | 1.3 | 2.1 | 2.7 | 5 | 3.2 | 2.8 | 1.0 | 2.4 | 2.2 | 4.6 | .2 | 1.9 |
| 6 | 1.4 | 2.2 | 3.0 | 5 | 3.2 | 2.8 | 1.0 | 3.8 | 4.7 | 1.5 | .3 | .7 |
| 7 | 1.6 | 2.5 | 3.3 | 4.9 | 3.5 | 2.8 | .8 | 4.4 | 6 | 3.2 | .4 | 1.4 |
| 8 | 1.7 | 2.8 | 3.3 | 4.7 | 3.7 | 2.8 | .7 | 3.3 | 8.5 | 3.8 | .3 | .3 |
| 9 | 1.8 | 3.0 | 3.3 | 4.6 | 3.5 | 2.8 | .8 | 4.6 | 6.5 | 1.8 | .3 | .3 |
| 10 | 2.0 | 3.0 | 3.7 | 4.7 | 3.5 | 2.7 | 1.4 | 8 | 7 | .4 | .2 | 1.0 |
| 11 | 2.1 | 3.0 | 3.3 | 4.9 | 3.7 | 2.5 | 2.7 | 11 | 7.5 | .7 | .2 | .4 |
| 12 | 1.7 | 3.1 | 10 | 4.9 | 3.7 | 2.5 | 4.0 | 15 | 8.5 | 1.0 | .2 | .2 |
| 13 | 1.4 | 3.2 | 14 | 4.7 | 3.5 | 2.7 | 4.7 | 19 | 11 | .3 | .2 | .2 |
| 14 | 1.3 | 3.2 | 4.9 | 4.7 | 3.7 | 2.7 | 2.8 | 34 | 9.5 | .4 | .2 | .2 |
| 15 | 1.2 | 3.2 | 3.8 | 4.6 | 3.7 | 2.5 | 4.0 | 36 | 8.5 | 2.2 | .3 | .2 |
| 16 | 1.2 | 3.2 | 4.4 | 4.4 | 3.7 | 2.8 | 4.6 | 37 | 6.5 | 2.7 | .5 | .2 |
| 17 | 1.1 | 3.0 | 4.0 | 4.6 | 3.5 | 2.5 | 4.4 | 40 | 9.5 | 1.4 | .6 | .2 |
| 18 | 1.1 | 3.0 | 4.6 | 4.6 | 3.5 | 2.5 | 3.7 | 37 | 13 | .4 | .2 | .6 |
| 19 | 1.0 | 3.0 | 4.6 | 4.6 | 3.5 | 2.7 | 3.5 | 33 | 8 | .7 | .2 | .6 |
| 20 | 1.1 | 3.2 | 5 | 4.6 | 3.5 | 2.7 | 6.5 | 32 | 2.6 | 1.1 | .2 | .7 |
| 21 | 1.1 | 3.2 | 4.9 | 4.6 | 3.5 | 2.7 | 4.7 | 34 | 3.0 | 1.4 | .3 | 1.2 |
| 22 | 1.1 | 3.2 | 4.7 | 4.7 | 3.5 | 2.5 | 6.5 | 36 | 1.7 | 1.4 | .2 | 1.1 |
| 23 | 1.0 | 3.2 | 4.4 | 4.9 | 3.5 | 2.5 | 6 | 31 | 1.9 | 1.2 | .2 | .6 |
| 24 | .6 | 3.2 | 4.2 | 5.5 | 3.5 | 4.6 | 4.9 | 29 | 1.5 | 1.2 | .4 | 1.9 |
| 25 | .6 | 3.3 | 4.0 | 4.2 | 3.5 | 3.2 | 5 | 26 | 1.2 | 1.5 | .1 | 2.5 |
| 26 | .6 | 3.3 | 3.8 | 4.0 | 5 | 2.2 | 3.5 | 22 | 1.3 | 1.5 | .7 | 1.4 |
| 27 | .6 | 3.3 | 3.8 | 4.0 | 4.0 | 1.5 | 2.8 | 16 | 1.7 | .5 | .7 | 3.7 |
| 28 | .7 | 3.0 | 4.0 | 4.0 | 3.7 | 1.4 | 4.2 | 8.5 | 2.4 | .7 | .6 | 4.2 |
| 29 | 1.4 | 2.8 | 4.2 | 3.7 | | 1.4 | 4.9 | 5 | 2.8 | 1.0 | .3 | 4.6 |
| 30 | 1.8 | 2.8 | 4.4 | 3.5 | | 1.8 | 4.2 | 5.5 | 3.5 | 1.4 | .5 | 4.6 |
| 31 | 1.8 | | 4.6 | 3.3 | | 1.9 | | 2.3 | | 1.0 | .2 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 2.1 | 0.6 | 1.22 | 75.0 | | |
| November | | | | | | | 3.3 | 1.8 | 2.85 | 170 | | |
| December | | | | | | | 14 | 2.7 | 4.40 | 271 | | |
| January | | | | | | | 30 | 3.3 | 5.55 | 341 | | |
| February | | | | | | | 5 | 3.2 | 3.56 | 198 | | |
| March | | | | | | | 4.6 | 1.4 | 2.58 | 159 | | |
| April | | | | | | | 6.5 | .7 | 3.34 | 199 | | |
| May | | | | | | | 40 | 1.9 | 17.7 | 1,080 | | |
| June | | | | | | | 13 | 1.2 | 4.85 | 289 | | |
| July | | | | | | | 6 | .3 | 1.83 | 113 | | |
| August | | | | | | | 1.3 | .1 | .36 | 22.2 | | |
| September | | | | | | | 4.6 | .2 | 1.31 | 78.0 | | |
| The year | | | | | | | 40 | .1 | 4.15 | 3,010 | | |

Mono Lake near Mono Lake, Calif.

Location.- Staff gage in NE $\frac{1}{4}$ sec. 31, T. 2 N., R. 26 E., about 1 mile south of Mono Lake post office.

Records available.- June 1912 to September 1934.

Extremes.- 1912-34: Maximum stage, 37.4 feet July 18, 1919; minimum, 25.0 feet Sept. 10, 1934.

Remarks.- All previous records of gage height of Mono Lake have been reviewed, including additional unpublished gage readings furnished by City of Los Angeles, Department of Water and Power. Gage readings during May 1915 are obviously in error and have been omitted. The following table supersedes records for Mono Lake published in previous water-supply papers. All gage heights have been reduced to a common datum, which is 6,390.29 feet above mean sea level according to the datum used in U. S. Geological Survey Bulletin 766 (1925) and also by city of Los Angeles in its Mono Basin survey; and 6,390.66 feet above mean sea level according to U. S. Coast and Geodetic Survey levels of 1932 referred to the 1929 general adjustment of level net.

Gage height, in feet, 1912-34

| Date | U.S.Forest Service | City of Los Angeles | Date | U.S.Forest Service | City of Los Angeles | Date | U.S.Forest Service | City of Los Angeles |
|----------|-----------------------|------------------------|----------|-----------------------|------------------------|----------|-----------------------|------------------------|
| 1912 | | | 1917 | | | 1923 | | |
| June 15 | 33.1 | | June 15 | 36.0 | | Nov. 7 | 35.6 | |
| June 22 | 33.1 | | June 26 | 36.2 | | Dec. 7 | 35.5 | |
| June 30 | 33.1 | | July 10 | 36.2 | | | | |
| July 5 | 33.1 | | July 29 | 36.3 | | 1924 | | |
| July 24 | 33.1 | | Aug. 23 | 36.3 | | Apr. 4 | 35.8 | |
| Aug. 3 | 33.1 | | Sept. 26 | 35.7 | | May 9 | 35.8 | |
| Aug. 12 | 33.0 | | Oct. 18 | 35.6 | | June 26 | 35.5 | |
| Aug. 24 | 32.9 | | Nov. 11 | 35.6 | | July 25 | 35.1 | |
| Aug. 30 | 32.8 | | Nov. 22 | 35.5 | | Aug. 20 | 34.8 | |
| Sept. 11 | 32.6 | | Dec. 4 | 35.4 | | Sept. 20 | 34.6 | |
| Sept. 17 | 32.6 | | | | | Oct. 20 | 34.2 | |
| Sept. 29 | 32.6 | | 1918 | | | Nov. 18 | 34.0 | |
| Oct. 11 | 32.4 | | Apr. 21 | 36.2 | | Dec. 10 | 34.1 | |
| Oct. 28 | 32.2 | | May 10 | 36.2 | | | | |
| Nov. 10 | 32.2 | | June 16 | 36.4 | | 1925 | | |
| Nov. 21 | 32.2 | | July 8 | 36.7 | | Mar. 14 | 34.2 | |
| Dec. 3 | 32.2 | | Aug. 20 | 36.3 | | Apr. 25 | 34.3 | |
| | | | Aug. 21 | 36.1 | | May 19 | 34.2 | |
| 1913 | | | Sept. 22 | 36.0 | | June 16 | 34.2 | |
| Apr. 16 | 32.3 | | Oct. 16 | 36.1 | | July 18 | 34.2 | |
| May 15 | 32.2 | | | | | Aug. 25 | 33.9 | |
| May 19 | 32.3 | | 1919 | | | Sept. 20 | 33.6 | |
| June 29 | 32.6 | | Apr. 24 | 36.9 | | Oct. 17 | 33.4 | |
| Aug. 25 | 32.4 | | May 27 | 37.1 | | Nov. 17 | 33.4 | |
| Sept. 14 | 32.4 | | June 23 | 37.2 | | Nov. 19 | 33.3 | |
| Oct. 12 | 32.1 | | July 18 | 37.4 | | Dec. 15 | 33.4 | |
| Oct. 25 | 32.0 | | Aug. 20 | 36.8 | | Dec. 28 | | 33.5 |
| Dec. 11 | 31.6 | | Sept. 25 | 36.2 | | | | |
| | | | Oct. 15 | 36.1 | | 1926 | | |
| 1914 | | | Nov. 8 | 35.9 | | Jan. 4 | | 33.5 |
| Jan. 4 | 32.0 | | Dec. 9 | 35.9 | | Jan. 11 | | 33.5 |
| Jan. 28 | 32.5 | | | | | Jan. 21 | | 33.5 |
| Feb. 7 | 32.6 | | 1920 | | | Jan. 25 | | 33.5 |
| Feb. 14 | 32.6 | | Apr. 7 | 36.4 | | Feb. 1 | | 33.6 |
| Feb. 21 | 32.8 | | May 22 | 36.4 | | Feb. 14 | | 33.8 |
| Mar. 30 | 32.9 | | June 28 | 36.2 | | Feb. 25 | | 33.8 |
| May 9 | 33.2 | | July 19 | 36.1 | | Mar. 17 | | 33.8 |
| May 29 | 33.5 | | Aug. 24 | 35.6 | | Mar. 18 | 33.9 | |
| June 13 | 33.7 | | Sept. 28 | 35.3 | | Mar. 22 | | 33.9 |
| June 19 | 33.9 | | Oct. 20 | 35.2 | | Apr. 5 | | 33.9 |
| June 26 | 34.0 | | Nov. 19 | 35.0 | | Apr. 15 | | 33.9 |
| July 8 | 34.5 | | | | | Apr. 27 | 33.9 | 34.0 |
| July 20 | 34.6 | | 1921 | | | May 10 | 34.0 | |
| Aug. 9 | 34.8 | | Apr. 15 | 35.5 | | May 18 | | 33.9 |
| Sept. 13 | 34.3 | | May 16 | 35.5 | | May 25 | 33.9 | |
| Sept. 23 | 34.3 | | June 23 | 35.7 | | May 28 | | 33.9 |
| Oct. 4 | 34.2 | | July 16 | 35.8 | | June 17 | | 33.9 |
| Oct. 31 | 34.0 | | Aug. 17 | 35.3 | | June 30 | 33.6 | |
| Dec. 30 | 33.9 | | Sept. 15 | 35.2 | | July 23 | | 33.7 |
| | | | Oct. 20 | 35.0 | | July 24 | 33.6 | |
| 1915 | | | Nov. 20 | 34.9 | | July 26 | | 33.6 |
| Jan. 26 | 34.0 | | Dec. 15 | 34.8 | | Aug. 16 | | 33.4 |
| Feb. 25 | 34.4 | | | | | Aug. 19 | 33.4 | |
| Mar. 12 | 34.5 | | 1922 | | | Aug. 24 | | 33.3 |
| Mar. 31 | 34.6 | | May 13 | 35.7 | | Sept. 6 | | 33.1 |
| Apr. 10 | 34.6 | | June 24 | 36.2 | | Sept. 12 | | 33.0 |
| Apr. 24 | 34.6 | | July 20 | 36.1 | | Sept. 18 | 33.0 | |
| | | | Aug. 25 | 36.0 | | Oct. 13 | 32.7 | |
| 1916 | | | Sept. 27 | 35.7 | | Oct. 15 | | 32.6 |
| July 13 | 35.9 | | Oct. 31 | 35.6 | | Oct. 30 | | 32.6 |
| Aug. 23 | 35.7 | | | | | Nov. 10 | | 32.6 |
| Sept. 28 | 35.4 | | 1923 | | | Nov. 20 | 32.4 | |
| Nov. 20 | 35.3 | | Mar. 28 | 36.2 | | Dec. 3 | | |
| | | | Apr. 24 | 36.3 | | Dec. 21 | 32.8 | |
| 1917 | | | May 20 | 36.2 | | | | |
| Apr. 15 | 35.7 | | June 29 | 36.4 | | 1927 | | |
| Apr. 27 | 35.7 | | July 30 | 36.4 | | Jan. 1 | | 32.8 |
| May 4 | 35.8 | | Aug. 15 | 36.2 | | Mar. 21 | | 33.2 |
| May 19 | 35.8 | | Sept. 18 | 35.9 | | Apr. 24 | 32.9 | |
| May 28 | 36.0 | | Oct. 10 | 35.8 | | Apr. 28 | | 33.2 |

*Read by employee of Southern Sierras Power Co.

Gage height, in feet, of Mono Lake near Mono Lake, Calif., 1912-34--Continued

| Date | U.S.Forest Service | City of Los Angeles | Date | U.S.Forest Service | City of Los Angeles | Date | U.S.Forest Service | City of Los Angeles |
|---------|-----------------------|------------------------|---------|-----------------------|------------------------|---------|-----------------------|------------------------|
| 1927 | | | 1930 | | | 1932 | | |
| May 14 | | 33.2 | June 18 | | 30.1 | Sept. 1 | | 27.3 |
| May 30 | 33.1 | | June 26 | | 30.0 | Sept.13 | | 27.3 |
| May 31 | | 33.2 | June 30 | 30.0 | | Sept.22 | | 27.2 |
| June 11 | | 33.2 | July 3 | | 30.0 | Sept.29 | | 27.2 |
| June 29 | | 33.2 | July 11 | | 30.0 | Oct. 6 | | 27.2 |
| June 30 | 33.2 | | July 17 | | 29.9 | Oct. 13 | | 27.1 |
| July 27 | | 33.3 | July 20 | 29.9 | | Oct. 22 | | 26.9 |
| Aug. 13 | | 33.1 | July 24 | | 29.9 | Oct. 26 | | 26.9 |
| Aug. 27 | | 33.0 | July 31 | | 29.8 | Nov. 3 | | 26.9 |
| Sept.14 | | 32.7 | Aug. 7 | | 29.7 | Nov. 10 | | 26.9 |
| Oct. 6 | | 32.5 | Aug. 14 | | 29.6 | Nov. 17 | | 26.9 |
| Oct. 13 | | 32.5 | Aug. 21 | | 29.6 | Nov. 26 | | 27.0 |
| Oct. 26 | | 32.6 | Aug. 28 | | 29.5 | Nov. 28 | 27.0 | |
| Dec. 8 | | 32.6 | Sept.23 | 29.1 | | Dec. 4 | | 26.9 |
| | | | Sept.25 | | 29.0 | Dec. 8 | | 26.9 |
| 1928 | | | Oct. 2 | | 29.1 | Dec. 15 | | 26.8 |
| Jan. 12 | | 32.6 | Oct. 9 | | 29.0 | Dec. 21 | | 26.9 |
| Jan. 16 | | 32.5 | Oct. 13 | 29.0 | | Dec. 31 | | 26.9 |
| Jan. 20 | | 32.5 | Oct. 16 | | 29.0 | | | |
| Jan. 24 | | 32.6 | Oct. 23 | | 29.0 | 1933 | | |
| Jan. 26 | | 32.6 | Oct. 30 | | 29.0 | Apr. 8 | | 27.1 |
| Feb. 2 | | 32.6 | Nov. 6 | | 29.0 | Apr. 9 | 27.1 | |
| Feb. 9 | | 32.6 | Nov. 23 | 28.9 | | Apr. 14 | | 27.1 |
| Feb. 16 | | 32.7 | Nov. 24 | | 28.9 | Apr. 21 | | 27.1 |
| Feb. 26 | | 32.7 | Dec. 2 | | 28.9 | Apr. 26 | | 27.0 |
| Mar. 8 | | 32.8 | Dec. 9 | 28.9 | | May 5 | | 27.0 |
| Apr. 7 | | 32.9 | Dec. 12 | | 28.8 | May 12 | | 27.0 |
| Apr. 15 | 32.9 | | | | | May 18 | 27.0 | |
| May 13 | | 32.9 | 1931 | | | May 20 | | 27.0 |
| May 27 | 33.0 | | Jan. 20 | | 28.9 | May 26 | | 27.0 |
| June 6 | | 33.0 | Jan. 27 | | 28.8 | May 31 | | 27.0 |
| June 22 | | 32.8 | Feb. 6 | | 28.9 | June 7 | | 26.9 |
| June 30 | 32.7 | | Feb. 12 | | 28.9 | June 14 | 27.0 | |
| July 8 | | 32.7 | Feb. 24 | | 28.9 | June 19 | | 26.9 |
| Aug. 18 | 32.2 | | Mar. 3 | | 28.9 | June 21 | | 27.0 |
| Aug. 19 | | 32.2 | Mar. 16 | | 28.9 | June 28 | | 26.8 |
| Aug. 22 | 32.2 | | Mar. 23 | | 28.9 | July 7 | | 26.9 |
| Sept.16 | 31.8 | | Mar. 30 | | 28.9 | July 12 | | 26.8 |
| Sept.22 | | 31.8 | Apr. 16 | | 28.9 | July 15 | 26.8 | |
| Oct. 15 | | 31.6 | Apr. 17 | 28.9 | | July 19 | | 26.8 |
| Oct. 16 | 31.6 | | Apr. 27 | | 28.9 | July 28 | | 26.8 |
| Oct. 22 | | 31.5 | May 10 | | 28.9 | Aug. 2 | | 26.8 |
| Oct. 31 | | 31.5 | May 16 | | 28.9 | Aug. 8 | | 26.6 |
| Nov. 8 | | 31.5 | May 18 | 28.9 | | Aug. 15 | | 26.5 |
| Nov. 15 | 31.5 | | May 22 | | 28.8 | Aug. 19 | 26.4 | |
| Nov. 21 | | 31.4 | May 28 | | 28.8 | Aug. 25 | | 26.4 |
| | | | June 9 | | 28.8 | Sept. 8 | | 26.2 |
| 1929 | | | June 12 | | 28.8 | Sept.13 | | 26.1 |
| Jan. 10 | | 31.5 | June 17 | | 28.7 | Sept.18 | 26.0 | |
| Jan. 17 | | 31.5 | June 23 | 28.7 | | Sept.19 | | 26.0 |
| Mar. 16 | 31.6 | | July 3 | | 28.6 | Sept.27 | | 25.9 |
| Apr. 18 | | 31. | July 10 | | 28.5 | Oct. 4 | | 25.8 |
| Apr. 25 | | 31.6 | July 16 | | 28.5 | Oct. 11 | | 25.8 |
| Apr. 27 | 31.6 | | July 23 | | 28.4 | Oct. 18 | | 25.8 |
| May 3 | | 31.6 | July 30 | | 28.4 | Oct. 24 | | 25.7 |
| May 14 | 31.5 | | Aug. 6 | | 28.3 | Oct. 27 | 25.7 | |
| May 16 | | 31.6 | Aug. 8 | 28.2 | | Nov. 7 | | 25.7 |
| May 23 | | 31.6 | Aug. 13 | | 28.2 | Nov. 14 | | 25.6 |
| May 30 | | 31.5 | Aug. 20 | | 28.2 | Nov. 21 | | 25.6 |
| June 6 | | 31.4 | Aug. 26 | | 28.1 | Nov. 24 | 25.6 | |
| June 10 | | 31.6 | Sept.10 | | 27.8 | Nov. 27 | | 25.6 |
| June 28 | | 31.4 | Sept.14 | 27.6 | | Dec. 6 | | 25.6 |
| June 30 | 31.5 | | Sept.17 | | 27.8 | Dec. 11 | | 25.6 |
| July 5 | | 31.4 | Sept.23 | | 27.7 | Dec. 20 | | 25.8 |
| July 11 | | 31.4 | Sept.30 | | 27.6 | Dec. 22 | 25.7 | |
| July 18 | | 31.3 | Oct. 8 | | 27.6 | | | |
| July 25 | | 31.4 | Oct. 15 | | 27.5 | 1934 | | |
| Aug. 1 | | 31.3 | Oct. 20 | 27.5 | | Jan. 26 | | 25.8 |
| Aug. 8 | | 31.2 | Oct. 28 | | 27.3 | Feb. 5 | | 25.8 |
| Aug. 15 | | 31.1 | Nov. 5 | | 27.4 | Feb. 12 | | 25.9 |
| Aug. 22 | | 31.0 | Nov. 12 | | 27.5 | Feb. 19 | | 25.9 |
| Aug. 29 | | 30.9 | Nov. 19 | | 27.2 | Feb. 28 | | 26.0 |
| Aug. 30 | 30.9 | | Nov. 25 | | 27.2 | Mar. 6 | | 25.9 |
| Sept.17 | 30.5 | | Dec. 3 | | 27.2 | Mar. 7 | | 26.0 |
| Sept.20 | | 30.6 | Dec. 17 | | 27.2 | Mar. 12 | | 26.0 |
| Sept.27 | | 30.5 | | | | Mar. 20 | | 26.0 |
| Oct. 3 | | 30.4 | 1932 | | | Mar. 27 | | 26.0 |
| Oct. 10 | | 30.4 | Apr. 1 | | | Mar. 29 | | 26.0 |
| Oct. 16 | | 30.3 | Apr. 28 | 27.8 | | Apr. 3 | | 26.0 |
| Oct. 24 | | 30.3 | May 12 | | 27.8 | Apr. 12 | | 26.0 |
| Nov. 1 | | 30.3 | May 14 | 27.9 | | Apr. 14 | 26.0 | |
| Dec. 2 | | 30.2 | May 19 | | 27.8 | Apr. 17 | | 26.0 |
| Dec. 9 | | 30.2 | May 26 | | 27.7 | Apr. 24 | | 26.0 |
| Dec. 19 | | 30.1 | June 3 | | 27.8 | Apr. 28 | | 26.0 |
| Dec. 27 | | 30.1 | June 10 | | 27.7 | May 4 | | 25.9 |
| | | | June 13 | 28.0 | | May 10 | | 25.9 |
| | | | June 24 | | 27.8 | May 14 | | 25.9 |
| 1930 | | | July 4 | | 27.9 | May 17 | | 25.9 |
| Apr. 5 | 30.2 | | July 14 | | 27.9 | May 18 | 25.9 | |
| Apr. 9 | | 30.2 | July 18 | 27.8 | | May 21 | | 25.8 |
| Apr. 24 | | 30.2 | July 21 | | 27.8 | May 22 | | 25.9 |
| May 8 | | 30.2 | July 28 | | 27.8 | May 26 | | 25.8 |
| May 15 | | 30.2 | Aug. 3 | | 27.7 | May 28 | | 25.8 |
| May 22 | 30.2 | | Aug. 17 | | 27.7 | May 29 | | 25.8 |
| June 5 | | 30.1 | Aug. 20 | 27.8 | | June 1 | | 25.8 |
| June 11 | | 30.1 | Aug. 25 | | 27.4 | June 2 | | 25.7 |

Gage height, in feet, of Mono Lake near Mono Lake, Calif., 1912-34--Continued

| Date | U.S.Forest Service | City of Los Angeles | Date | U.S.Forest Service | City of Los Angeles | Date | U.S.Forest Service | City of Los Angeles |
|---------|-----------------------|------------------------|---------|-----------------------|------------------------|----------|-----------------------|------------------------|
| 1934 | | | 1934 | | | 1934 | | |
| June 4 | | 25.7 | July 24 | | 25.5 | Aug. 30 | | 25.1 |
| June 7 | | 25.7 | July 26 | 25.5 | 25.5 | Aug. 31 | | 25.2 |
| June 14 | | 25.8 | July 30 | | 25.4 | Sept. 1 | | 25.1 |
| June 15 | | 25.8 | July 31 | | 25.4 | Sept. 4 | | 25.1 |
| June 19 | | 25.8 | Aug. 7 | | 25.4 | Sept. 8 | | 25.0 |
| June 21 | 25.6 | 25.8 | Aug. 9 | | 25.4 | Sept. 10 | 25.0 | 25.0 |
| June 26 | | 25.8 | Aug. 13 | | 25.3 | Sept. 11 | | 25.0 |
| June 28 | | 25.7 | Aug. 14 | 25.3 | | Sept. 13 | | 25.0 |
| July 3 | | 25.8 | Aug. 16 | | 25.3 | Sept. 15 | | 24.9 |
| July 5 | | 25.7 | Aug. 21 | | 25.2 | Sept. 17 | | 24.9 |
| July 10 | | 25.6 | Aug. 24 | *25.2 | | Sept. 18 | | 24.9 |
| July 16 | | 25.6 | Aug. 25 | | 25.2 | Sept. 25 | | 24.7 |
| July 17 | | 25.6 | Aug. 29 | | 25.1 | Sept. 29 | | 24.7 |
| July 23 | | 25.5 | | | | | | |

*Read by H. D. McGlashan.

WALKER LAKE BASIN

Walker Lake near Hawthorne, Nev.

Location.- Elevations determined by spirit leveling in NW $\frac{1}{4}$ sec. 1, T. 8 N., R. 29 E., at bathing beach of United States naval ammunition depot, 6 miles northwest of Hawthorne.

Records available.- August 1928 to September 1934. Occasional readings prior to August 1928.

Extremes.- 1928-34: Maximum elevation recorded, 4,051.8 feet Mar. 13, 1928 (U. S. Indian Service); minimum, 4,028.9 feet Sept. 10, 1934. On Sept. 27, 1908, lake elevation was 4,078.0 feet, determined by U. S. Coast and Geodetic Survey. Elevation based on 1912 adjustment elevations of bench marks along precise level lines of Coast and Geodetic Survey.

Elevations, in feet, above mean sea level, 1934.

| | | | |
|---------|---------|----------|---------|
| Jan. 24 | 4,031.3 | June 8 | 4,030.6 |
| Mar. 7 | 4,030.8 | June 27 | 4,030.4 |
| Apr. 10 | 4,031.0 | Aug. 13 | 4,030.0 |
| May 8 | 4,030.7 | Sept. 10 | 4,028.9 |

Bridgeport Reservoir near Bridgeport, Calif.

Location.- Elevation determined at Bridgeport Dam, in SE $\frac{1}{4}$ sec. 34, T. 6 N., R. 25 E.,
4 $\frac{1}{2}$ miles north of Bridgeport.

Records available.- October 1931 to September 1934.

Remarks.- Capacity of reservoir, 42,500 acre-feet. Gage-height record and capacity
table furnished by Walker River Irrigation District.

Contents, in acre-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1 | 4,640 | 3,750 | 5,720 | 9,100 | 12,280 | 15,630 | 21,700 | 18,580 | 13,170 | 12,770 | 5,330 | 766 |
| 2 | 4,640 | 3,810 | 5,760 | 9,260 | 12,320 | 15,870 | 21,600 | 18,350 | 12,900 | 12,700 | 5,000 | 717 |
| 3 | 4,580 | 3,970 | 5,800 | 9,480 | 12,440 | 16,260 | 21,600 | 18,160 | 12,770 | 12,560 | 4,710 | 681 |
| 4 | 4,510 | 3,930 | 5,840 | 9,650 | 12,560 | 16,740 | 21,500 | 18,090 | 12,630 | 12,500 | 4,450 | 642 |
| 5 | 4,420 | 3,990 | 5,920 | 9,760 | 12,630 | 17,060 | 21,400 | 18,090 | 12,500 | 12,440 | 4,150 | 610 |
| 6 | 4,310 | 4,050 | 6,000 | 9,870 | 12,770 | 17,490 | 21,400 | 18,000 | 12,560 | 12,260 | 3,870 | 578 |
| 7 | 4,250 | 4,120 | 6,080 | 9,920 | 12,900 | 18,090 | 21,400 | 17,920 | 12,560 | 12,000 | 3,570 | 555 |
| 8 | 4,220 | 4,180 | 6,160 | 10,040 | 13,040 | 18,520 | 21,300 | 17,760 | 12,970 | 11,700 | 3,340 | 539 |
| 9 | 4,180 | 4,250 | 6,240 | 10,090 | 13,170 | 18,870 | 21,210 | 17,580 | 13,450 | 11,380 | 3,150 | 527 |
| 10 | 4,120 | 4,310 | 6,330 | 10,200 | 13,310 | 19,240 | 21,210 | 17,400 | 13,450 | 11,200 | 3,000 | 515 |
| 11 | 4,050 | 4,380 | 6,420 | 10,320 | 13,450 | 19,330 | 21,100 | 17,230 | 13,170 | 10,910 | 2,830 | 509 |
| 12 | 4,020 | 4,510 | 6,560 | 10,380 | 13,580 | 19,420 | 21,010 | 17,060 | 13,040 | 10,730 | 2,640 | 503 |
| 13 | 3,990 | 4,580 | 6,770 | 10,440 | 13,650 | 19,610 | 21,010 | 16,900 | 12,900 | 10,440 | 2,450 | 497 |
| 14 | 3,930 | 4,640 | 6,900 | 10,500 | 13,720 | 19,790 | 21,010 | 16,740 | 12,900 | 10,140 | 2,310 | 491 |
| 15 | 3,870 | 4,710 | 6,980 | 10,610 | 13,780 | 19,980 | 20,920 | 16,580 | 12,900 | 9,920 | 2,170 | 486 |
| 16 | 3,810 | 4,740 | 7,080 | 10,670 | 13,850 | 20,160 | 20,920 | 16,420 | 12,900 | 9,700 | 2,030 | 480 |
| 17 | 3,780 | 4,820 | 7,120 | 10,730 | 13,920 | 20,340 | 20,720 | 15,950 | 12,900 | 9,430 | 1,910 | 480 |
| 18 | 3,750 | 4,900 | 7,220 | 10,790 | 13,990 | 20,620 | 20,720 | 15,630 | 12,900 | 9,260 | 1,850 | 468 |
| 19 | 3,690 | 4,930 | 7,310 | 10,850 | 14,060 | 20,720 | 20,620 | 15,470 | 13,040 | 9,050 | 1,780 | 456 |
| 20 | 3,630 | 4,960 | 7,460 | 10,850 | 14,140 | 20,820 | 20,440 | 15,170 | 13,170 | 8,740 | 1,700 | 444 |
| 21 | 3,570 | 5,040 | 7,600 | 10,970 | 14,290 | 20,920 | 20,340 | 15,030 | 13,170 | 8,490 | 1,640 | 432 |
| 22 | 3,510 | 5,080 | 7,790 | 11,030 | 14,430 | 21,010 | 20,250 | 14,730 | 13,310 | 8,230 | 1,540 | 420 |
| 23 | 3,450 | 5,150 | 7,980 | 11,030 | 14,580 | 21,110 | 20,070 | 14,580 | 13,310 | 7,980 | 1,440 | 416 |
| 24 | 3,450 | 5,220 | 8,130 | 11,200 | 14,730 | 21,400 | 19,880 | 14,360 | 13,170 | 7,700 | 1,350 | 416 |
| 25 | 3,450 | 5,290 | 8,340 | 11,320 | 14,960 | 21,600 | 19,610 | 14,060 | 13,170 | 7,600 | 1,220 | 416 |
| 26 | 3,480 | 5,360 | 8,440 | 11,460 | 15,190 | 21,600 | 19,520 | 13,920 | 13,170 | 7,410 | 1,110 | 416 |
| 27 | 3,510 | 5,440 | 8,540 | 11,560 | 15,320 | 21,600 | 19,240 | 13,850 | 13,170 | 7,220 | 1,020 | 426 |
| 28 | 3,540 | 5,520 | 8,640 | 11,760 | 15,470 | 21,600 | 19,060 | 13,850 | 13,100 | 6,860 | 954 | 432 |
| 29 | 3,570 | 5,600 | 8,740 | 11,880 | | 21,600 | 18,870 | 13,660 | 13,040 | 6,500 | 885 | 432 |
| 30 | 3,600 | 5,680 | 8,840 | 12,000 | | 21,700 | 18,700 | 13,580 | 12,900 | 6,080 | 846 | 432 |
| 31 | 3,630 | | 9,000 | 12,130 | | 21,600 | | 13,310 | | 5,680 | 796 | |

Note.- Contents on Sept. 30, 1933, was 4,640 acre-feet.

East Walker River near Bridgeport, Calif.

Location.- Staff gage in SW $\frac{1}{4}$ sec. 34, T. 6 N., R. 25 E., 1,500 feet downstream from Bridgeport Reservoir, 5 miles north of Bridgeport, and 10 miles above Sweetwater Creek.

Drainage area.- 362 square miles.

Records available.- October 1921 to September 1934. July 1911 to September 1914 at a site $\frac{1}{2}$ miles upstream.

Average discharge.- 11 years (1922-24, 1925-34), 93.2 second-feet.

Extremes.- Maximum discharge during year, 221 second-feet July 29 to Aug. 2; minimum, 6 second-feet Nov. 12 to Mar. 19, 1921-34: Maximum discharge (estimated), 1,050 second-feet June 28-30, 1922; minimum, 2 second-feet several times when reservoir gates were closed.

Remarks.- Records good. Considerable areas of meadow and pasture irrigated near Bridgeport. Flow regulated by Bridgeport Reservoir; capacity, 42,000 acre-feet. Gage-height record furnished by Walker River Irrigation District.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 33 | 14 | 6 | 6 | 6 | 6 | 65 | 93 | 154 | 115 | 221 | 57 |
| 2 | 33 | 14 | 6 | 6 | 6 | 6 | 65 | 92 | 154 | 115 | 221 | 57 |
| 3 | 60 | 8 | 6 | 6 | 6 | 6 | 65 | 92 | 154 | 124 | 150 | 57 |
| 4 | 60 | 8 | 6 | 6 | 6 | 6 | 64 | 92 | 154 | 124 | 150 | 57 |
| 5 | 60 | 8 | 6 | 6 | 6 | 6 | 59 | 92 | 141 | 124 | 169 | 47 |
| 6 | 58 | 8 | 6 | 6 | 6 | 6 | 59 | 92 | 143 | 143 | 169 | 46 |
| 7 | 58 | 8 | 6 | 6 | 6 | 6 | 59 | 92 | 143 | 143 | 146 | 43 |
| 8 | 58 | 8 | 6 | 6 | 6 | 6 | 54 | 92 | 143 | 160 | 141 | 43 |
| 9 | 58 | 8 | 6 | 6 | 6 | 6 | 32 | 132 | 143 | 160 | 110 | 43 |
| 10 | 58 | 8 | 6 | 6 | 6 | 6 | 52 | 132 | 200 | 160 | 110 | 43 |
| 11 | 58 | 8 | 6 | 6 | 6 | 6 | 52 | 145 | 200 | 160 | 110 | 43 |
| 12 | 58 | 6 | 6 | 6 | 6 | 6 | 52 | 145 | 200 | 160 | 110 | 43 |
| 13 | 58 | 6 | 6 | 6 | 6 | 6 | 52 | 145 | 200 | 160 | 110 | 43 |
| 14 | 58 | 6 | 6 | 6 | 6 | 6 | 52 | 145 | 169 | 160 | 110 | 43 |
| 15 | 58 | 6 | 6 | 6 | 6 | 6 | 52 | 161 | 150 | 141 | 88 | 43 |
| 16 | 58 | 6 | 6 | 6 | 6 | 6 | 52 | 183 | 150 | 141 | 88 | 43 |
| 17 | 58 | 6 | 6 | 6 | 6 | 6 | 88 | 181 | 141 | 141 | 51 | 43 |
| 18 | 58 | 6 | 6 | 6 | 6 | 6 | 88 | 181 | 141 | 141 | 63 | 43 |
| 19 | 58 | 6 | 6 | 6 | 6 | 6 | 87 | 181 | 141 | 141 | 63 | 43 |
| 20 | 58 | 6 | 6 | 6 | 6 | 30 | 87 | 181 | 141 | 165 | 63 | 43 |
| 21 | 58 | 6 | 6 | 6 | 6 | 30 | 112 | 181 | 141 | 165 | 63 | 43 |
| 22 | 58 | 6 | 6 | 6 | 6 | 30 | 112 | 181 | 154 | 165 | 76 | 43 |
| 23 | 58 | 6 | 6 | 6 | 6 | 30 | 112 | 181 | 154 | 165 | 76 | 43 |
| 24 | 26 | 6 | 6 | 6 | 6 | 30 | 112 | 181 | 130 | 165 | 84 | 43 |
| 25 | 26 | 6 | 6 | 6 | 6 | 30 | 112 | 179 | 130 | 165 | 84 | 40 |
| 26 | 26 | 6 | 6 | 6 | 6 | 65 | 112 | 179 | 107 | 165 | 76 | 40 |
| 27 | 26 | 6 | 6 | 6 | 6 | 65 | 141 | 154 | 94 | 165 | 76 | 46 |
| 28 | 26 | 6 | 6 | 6 | 6 | 65 | 120 | 154 | 115 | 165 | 76 | 46 |
| 29 | 26 | 6 | 6 | 6 | 6 | 65 | 115 | 154 | 112 | 221 | 64 | 46 |
| 30 | 26 | 6 | 6 | 6 | 6 | 65 | 113 | 154 | 127 | 221 | 64 | 46 |
| 31 | 17 | | 6 | 6 | | 65 | | 154 | | 221 | 57 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 60 | 17 | 48.0 | 2,950 | | |
| November | | | | | | | 14 | 6 | 7.1 | 424 | | |
| December | | | | | | | 6 | 6 | 6.0 | 369 | | |
| January | | | | | | | 6 | 6 | 6.0 | 369 | | |
| February | | | | | | | 6 | 6 | 6.0 | 333 | | |
| March | | | | | | | 65 | 6 | 22.1 | 1,360 | | |
| April | | | | | | | 141 | 32 | 79.9 | 4,750 | | |
| May | | | | | | | 183 | 92 | 145 | 8,930 | | |
| June | | | | | | | 200 | 94 | 147 | 8,770 | | |
| July | | | | | | | 221 | 115 | 157 | 9,640 | | |
| August | | | | | | | 221 | 51 | 104 | 6,420 | | |
| September | | | | | | | 57 | 40 | 45.3 | 2,700 | | |
| The year | | | | | | | 221 | 6 | 65.0 | 47,020 | | |

Walker River near Wabuska, Nev.

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 16, T. 15 N., R. 26 E., on Walker River Indian Reservation, 6 $\frac{1}{2}$ miles east of Wabuska.

Records available.- October 1929 to September 1934. July 1902 to July 1908 at railroad bridge $4\frac{1}{2}$ miles upstream; January 1920 to September 1929 at Parker ranch $1\frac{1}{2}$ miles upstream.

Average discharge.- 13 years (1920-24, 1925-34), 89.5 second-feet.

Extremes.- Maximum daily discharge during year, 129 second-feet June 21; minimum, 1 second-foot Sept. 11-26.
1920-34: Maximum discharge, 2,220 second-feet June 8, 1922; no flow at times in 1924, 1925, 1931.

Remarks.- Records good. Station below all diversions except for the Indian reservation. Regulated by storage in reservoirs above station; also by diversions. Records of daily discharge furnished by U. S. Indian Service.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 16 | 23 | 33 | 43 | 43 | 34 | 32 | 19 | 36 | 27 | 48 | 3 |
| 2 | 16 | 24 | 29 | 67 | 42 | 34 | 32 | 21 | 30 | 26 | 48 | 3 |
| 3 | 16 | 25 | 25 | 77 | 42 | 34 | 30 | 20 | 27 | 24 | 42 | 2 |
| 4 | 16 | 26 | 48 | 77 | 42 | 33 | 32 | 18 | 18 | 21 | 40 | 2 |
| 5 | 16 | 25 | 48 | 69 | 42 | 31 | 29 | 20 | 36 | 20 | 37 | 2 |
| 6 | 16 | 25 | 40 | 63 | 42 | 31 | 25 | 21 | 43 | 20 | 18 | 2 |
| 7 | 16 | 25 | 23 | 57 | 42 | 31 | 22 | 33 | 43 | 19 | 30 | 2 |
| 8 | 16 | 25 | 29 | 57 | 40 | 30 | 19 | 35 | 40 | 16 | 15 | 2 |
| 9 | 16 | 25 | 29 | 57 | 40 | 30 | 18 | 36 | 37 | 15 | 16 | 2 |
| 10 | 16 | 25 | 24 | 40 | 42 | 29 | 17 | 39 | 34 | 15 | 20 | 2 |
| 11 | 16 | 25 | 23 | 42 | 43 | 29 | 16 | 40 | 45 | 14 | 16 | 1 |
| 12 | 17 | 25 | 26 | 42 | 45 | 29 | 16 | 35 | 43 | 10 | 13 | 1 |
| 13 | 17 | 25 | 32 | 42 | 40 | 27 | 24 | 35 | 40 | 12 | 11 | 1 |
| 14 | 17 | 25 | 45 | 45 | 40 | 27 | 22 | 34 | 37 | 17 | 10 | 1 |
| 15 | 15 | 25 | 85 | 45 | 40 | 26 | 21 | 34 | 45 | 16 | 7 | 1 |
| 16 | 15 | 26 | 48 | 43 | 40 | 24 | 24 | 34 | 55 | 15 | 7 | 1 |
| 17 | 15 | 26 | 117 | 43 | 40 | 21 | 38 | 34 | 63 | 20 | 5 | 1 |
| 18 | 15 | 25 | 88 | 42 | 40 | 21 | 45 | 34 | 67 | 21 | 5 | 1 |
| 19 | 17 | 25 | 88 | 42 | 40 | 20 | 20 | 34 | 77 | 26 | 5 | 1 |
| 20 | 17 | 25 | 77 | 40 | 40 | 20 | 33 | 30 | 114 | 38 | 4 | 1 |
| 21 | 18 | 24 | 53 | 42 | 40 | 20 | 26 | 31 | 129 | 35 | 4 | 1 |
| 22 | 18 | 22 | 48 | 42 | 40 | 20 | 24 | 27 | 93 | 29 | 3 | 1 |
| 23 | 18 | 21 | 40 | 42 | 40 | 20 | 22 | 26 | 75 | 27 | 3 | 1 |
| 24 | 18 | 21 | 39 | 43 | 40 | 19 | 27 | 30 | 67 | 24 | 3 | 1 |
| 25 | 19 | 22 | 40 | 45 | 42 | 19 | 26 | 34 | 53 | 33 | 3 | 1 |
| 26 | 19 | 32 | 39 | 43 | 37 | 19 | 18 | 40 | 52 | 35 | 3 | 1 |
| 27 | 19 | 20 | 39 | 43 | 36 | 20 | 17 | 35 | 45 | 26 | 2 | 2 |
| 28 | 19 | 29 | 39 | 43 | 36 | 23 | 17 | 39 | 33 | 21 | 3 | 2 |
| 29 | 19 | 40 | 39 | 43 | 21 | 14 | 37 | 30 | 29 | 3 | 2 | 2 |
| 30 | 20 | 33 | 39 | 43 | 20 | 13 | 33 | 26 | 30 | 3 | 3 | 2 |
| 31 | 21 | 40 | 43 | 43 | 29 | 29 | 39 | 39 | 39 | 3 | 3 | 2 |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 21 | 15 | 17.1 | 1,050 | | |
| November | | | | | | | 40 | 20 | 25.5 | 1,520 | | |
| December | | | | | | | 117 | 23 | 45.5 | 2,800 | | |
| January | | | | | | | 77 | 40 | 48.5 | 2,990 | | |
| February | | | | | | | 45 | 36 | 40.6 | 2,250 | | |
| March | | | | | | | 34 | 19 | 25.5 | 1,570 | | |
| April | | | | | | | 45 | 14 | 24.8 | 1,480 | | |
| May | | | | | | | 40 | 18 | 31.5 | 1,940 | | |
| June | | | | | | | 129 | 18 | 51.1 | 3,040 | | |
| July | | | | | | | 39 | 10 | 23.1 | 1,420 | | |
| August | | | | | | | 48 | 2 | 13.9 | 853 | | |
| September | | | | | | | 5 | 1 | 1.5 | 91 | | |
| The year | | | | | | | 129 | 1 | 29.0 | 21,000 | | |

West Walker River near Coleville, Calif.

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

Drainage area.- 245 square miles.

Records available.- June 1915 to September 1934. October 1902 to July 1908 at a site half a mile upstream.

Average discharge.- 24 years (1903-7, 1915-34), 278 second-feet.

Extremes.- Maximum discharge during year, 750 second-feet June 18 (gage height, 3.80 feet); minimum, 15 second-feet Nov. 24 (gage height, 1.35 feet).
1915-34: Maximum, 2,710 second-feet June 12, 1921 (gage height, 5.74 feet); minimum, 5 second-feet Dec. 3, 1924, Aug. 27, 1931.

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

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 27 | 38 | 30 | 45 | 46 | 52 | 255 | 273 | 218 | 210 | 49 | 36 |
| 2 | 28 | 41 | 36 | 40 | 49 | 54 | 232 | 255 | 215 | 201 | 46 | 35 |
| 3 | 27 | 40 | 36 | 29 | 52 | 67 | 212 | 258 | 210 | 207 | 44 | 32 |
| 4 | 26 | 40 | 28 | 29 | 53 | 65 | 210 | 312 | 212 | 196 | 41 | 32 |
| 5 | 26 | 34 | 28 | 30 | 53 | 113 | 212 | 418 | 215 | 176 | 41 | 34 |
| 6 | 26 | 33 | 37 | 26 | 54 | 122 | 218 | 511 | 212 | 163 | 38 | 32 |
| 7 | 26 | 38 | 35 | 24 | 54 | 122 | 238 | 560 | 215 | 151 | 37 | 31 |
| 8 | 26 | 34 | 30 | 29 | 55 | 117 | 280 | 525 | 339 | 137 | 38 | 30 |
| 9 | 27 | 36 | 38 | 27 | 49 | 124 | 289 | 483 | 410 | 128 | 34 | 30 |
| 10 | 27 | 36 | 42 | 29 | 46 | 126 | 305 | 525 | 328 | 117 | 34 | 30 |
| 11 | 27 | 35 | 43 | 30 | 60 | 130 | 332 | 580 | 302 | 113 | 33 | 29 |
| 12 | 27 | 36 | 64 | 30 | 53 | 144 | 364 | 580 | 325 | 103 | 32 | 28 |
| 13 | 27 | 37 | 64 | 33 | 55 | 160 | 402 | 530 | 299 | 88 | 32 | 28 |
| 14 | 27 | 40 | 43 | 38 | 55 | 183 | 402 | 506 | 448 | 85 | 31 | 27 |
| 15 | 27 | 40 | 32 | 37 | 53 | 199 | 423 | 492 | 375 | 82 | 30 | 26 |
| 16 | 27 | 37 | 30 | 40 | 49 | 212 | 398 | 474 | 448 | 78 | 28 | 26 |
| 17 | 27 | 35 | | 34 | 45 | 215 | 368 | 414 | 457 | 76 | 30 | 24 |
| 18 | 27 | 33 | | 33 | 53 | 215 | 356 | 368 | 595 | 73 | 30 | 24 |
| 19 | 27 | 30 | | 31 | 50 | 221 | 394 | 350 | 550 | 68 | 31 | 24 |
| 20 | 27 | 32 | | 30 | 50 | 215 | 418 | 353 | 418 | 66 | 31 | 25 |
| 21 | 28 | 32 | 35 | 36 | 46 | 218 | 439 | 375 | 387 | 61 | 34 | 24 |
| 22 | 28 | 31 | | 44 | 52 | 218 | 448 | 402 | 379 | 60 | 35 | 24 |
| 23 | 28 | 31 | | 45 | 49 | 224 | 431 | 390 | 353 | 60 | 36 | 26 |
| 24 | 28 | 31 | | 43 | 52 | 226 | 342 | 346 | 318 | 57 | 36 | 30 |
| 25 | 28 | 32 | | 37 | 49 | 226 | 280 | 302 | 264 | 52 | 36 | 34 |
| 26 | 26 | 32 | 40 | 46 | 52 | 224 | 270 | 332 | 232 | 52 | 36 | 33 |
| 27 | 28 | 36 | 42 | 45 | 50 | 226 | 292 | 312 | 218 | 49 | 46 | 34 |
| 28 | 28 | 30 | 39 | 43 | 45 | 249 | 312 | 276 | 212 | 48 | 49 | 34 |
| 29 | 28 | 24 | 37 | 42 | | 295 | 305 | 241 | 210 | 49 | 42 | 35 |
| 30 | 41 | 33 | 37 | 43 | | 295 | 283 | 226 | 210 | 137 | 38 | 35 |
| 31 | 43 | | 41 | 44 | | 273 | | 235 | | 54 | 36 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 43 | 26 | 28.1 | 1,730 | | |
| November | | | | | | | 41 | 24 | 34.6 | 2,060 | | |
| December | | | | | | | 64 | | 37.6 | 2,310 | | |
| January | | | | | | | 46 | 24 | 35.9 | 2,210 | | |
| February | | | | | | | 60 | 45 | 51.0 | 2,830 | | |
| March | | | | | | | 295 | 52 | 179 | 11,010 | | |
| April | | | | | | | 448 | 210 | 324 | 19,260 | | |
| May | | | | | | | 580 | 226 | 394 | 24,210 | | |
| June | | | | | | | 595 | 210 | 319 | 18,990 | | |
| July | | | | | | | 210 | 48 | 103 | 6,340 | | |
| August | | | | | | | 49 | 28 | 36.6 | 2,250 | | |
| September | | | | | | | 36 | 24 | 29.7 | 1,770 | | |
| The year | | | | | | | 595 | 24 | 131 | 94,970 | | |

WALKER LAKE BASIN

Topaz Reservoir near Topaz, Calif.

Location.- Elevations obtained near outlet works of Topaz Reservoir, in sec. 28, T. 10 N., R. 22 E., 6 miles north of Topaz.

Records available.- October 1931 to September 1934.

Remarks.- Topaz Reservoir, formerly Alkali Lake, was formed by diverting water through a feeder canal from West Walker River and constructing outlet works through a low saddle in rim of lake. Contents shown represent available storage only. Gage-height record and capacity table furnished by Walker River Irrigation District.

Contents, in acre-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1 | 4,920 | | | | | | 22,220 | 22,020 | 19,420 | 21,000 | 9,110 | 3,510 |
| 2 | | | | | 15,610 | 19,540 | 22,290 | 21,850 | 19,330 | 20,960 | 7,160 | 3,360 |
| 3 | 4,830 | 4,470 | | | | | 22,290 | 21,690 | 19,260 | 20,890 | 6,910 | 3,200 |
| 4 | | | | 11,820 | | | 22,340 | 21,680 | 19,160 | 20,760 | 6,690 | 2,860 |
| 5 | | | 6,530 | | | 20,060 | 22,340 | 21,520 | 19,080 | 20,640 | 6,500 | 2,780 |
| 6 | 4,770 | | | | 16,270 | | 22,360 | 21,440 | 18,990 | 20,470 | 6,420 | 2,700 |
| 7 | | 4,640 | | | | | 22,370 | 21,390 | 19,040 | 20,220 | 6,860 | 2,530 |
| 8 | | | 6,660 | | | | 22,370 | 21,400 | 18,990 | 19,700 | 7,290 | 2,420 |
| 9 | | | | 12,400 | 16,710 | 20,380 | 22,390 | 21,390 | 18,990 | 19,110 | 7,050 | 2,260 |
| 10 | 4,610 | 4,770 | | | | | 22,410 | 21,340 | 19,260 | 18,860 | 6,800 | 2,190 |
| 11 | | | | | | | 22,460 | 21,270 | 19,450 | 18,430 | 6,580 | 2,110 |
| 12 | | | 6,900 | 12,790 | | | 22,510 | 21,240 | 19,500 | 17,950 | 6,340 | 2,030 |
| 13 | 4,560 | | | | 17,260 | 20,950 | 22,600 | 21,240 | 19,640 | 17,460 | 6,100 | 1,960 |
| 14 | | 4,940 | | | | | 22,650 | 21,250 | 19,790 | 16,930 | 5,840 | 1,860 |
| 15 | | | 8,320 | | | | 22,700 | 21,250 | 19,880 | 16,100 | 5,660 | 1,800 |
| 16 | | | | 13,290 | | 21,460 | 22,730 | 21,100 | 19,930 | 14,790 | 5,550 | 1,720 |
| 17 | 4,490 | 5,210 | | | 17,800 | | 22,750 | 21,000 | 19,980 | 14,260 | 5,110 | 1,720 |
| 18 | | | | | | | 22,820 | 20,720 | 20,220 | 13,890 | 5,000 | 1,570 |
| 19 | | | 8,800 | 13,690 | | | 22,830 | 20,420 | 20,300 | 13,400 | 4,770 | 1,510 |
| 20 | 4,530 | | | | 18,260 | 21,920 | 22,850 | 20,300 | 20,690 | 13,080 | 4,650 | 1,460 |
| 21 | | 5,520 | | 14,250 | | | 22,870 | 20,220 | 21,030 | 12,590 | 4,530 | 1,420 |
| 22 | | | 9,340 | | | | 22,870 | 20,110 | 21,200 | 12,460 | 4,300 | 1,340 |
| 23 | | | | | 18,680 | | 22,780 | 19,960 | 21,250 | 12,330 | 4,140 | 1,290 |
| 24 | 4,300 | 5,740 | | | | | 22,760 | 19,960 | 21,300 | 12,070 | 3,980 | 1,260 |
| 25 | | | | | | | 22,730 | 19,990 | 21,240 | 11,540 | 3,830 | 1,210 |
| 26 | | | 9,930 | 14,690 | | | 22,680 | 19,820 | 21,150 | 11,300 | 3,670 | 1,180 |
| 27 | 4,330 | | | | 19,200 | 22,170 | 22,610 | 19,810 | 21,130 | 10,500 | 3,510 | 1,180 |
| 28 | | 6,030 | | | | | 22,460 | 19,720 | 21,130 | 9,850 | 3,360 | 1,180 |
| 29 | | | 10,500 | | | | 22,290 | 19,640 | 21,100 | 10,500 | 3,670 | 1,180 |
| 30 | | | | 15,260 | | | 22,220 | 19,550 | 21,050 | 9,370 | 3,750 | 1,180 |
| 31 | | | | | | | 22,270 | 19,480 | | 9,370 | 3,670 | |

Note.- Contents on Sept. 30, 1933, was 4,890 acre-feet.

Carson River near Fort Churchill, Nev.

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 32, T. 19 N., R. 24 E., 2 miles west of Fort Churchill and 6 miles east of Clifton. Prior to Jan. 1, 1934, station located 8 miles upstream, 1 mile west of Clifton.

Drainage area.- 1,450 square miles.

Records available.- January to September 1934. April 1911 to December 1933 at a site 8 miles upstream; records practically comparable.

Average discharge.- 23 years (1911-34), 347 second-feet.

Extremes.- Maximum daily discharge during year, 694 second-feet Apr. 1; no flow July 8 to Sept. 30.
1911-34: Maximum discharge, 6,150 second-feet Jan. 26, 1914 (gage height, 11.5 feet on old gage); no flow during periods in nearly every year since 1923.

Remarks.- Numerous diversions for irrigation above, including diversions for irrigation of 720 acres between present site and the site used prior to Jan. 1, 1934. Practically entire flow is diverted during late irrigation season. Records of daily discharge furnished by Truckee-Carson Irrigation District.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|---------|---------|------|----------------------|------|------|-------|
| 1 | 15 | 73 | 128 | 168 | 171 | 168 | 694 | 77 | 43 | 11 | | |
| 2 | 15 | 93 | 126 | 232 | 171 | 159 | 609 | 75 | 49 | 9 | | |
| 3 | 15 | 121 | 125 | 398 | 165 | 147 | 522 | 73 | 41 | 7 | | |
| 4 | 15 | 135 | 124 | 321 | 168 | 147 | 472 | 73 | 32 | 5 | | |
| 5 | 16 | 140 | 122 | 248 | 171 | 162 | 387 | 75 | 27 | 4 | | |
| 6 | 17 | 143 | 124 | 221 | 171 | 191 | 328 | 67 | 25 | 2 | | |
| 7 | 17 | 149 | 124 | 198 | 168 | 213 | 270 | 62 | 27 | 2 | | |
| 8 | 17 | 150 | 122 | 185 | 168 | 221 | 224 | 53 | 29 | 1 | | |
| 9 | 16 | 150 | 121 | 174 | 165 | 224 | 205 | 70 | 41 | 0 | | |
| 10 | 16 | 147 | 120 | 165 | 168 | 213 | 202 | 79 | 48 | 0 | | |
| 11 | 15 | 147 | 120 | 162 | 159 | 217 | 205 | 92 | 57 | 0 | | |
| 12 | 13 | 147 | 124 | 168 | 153 | 224 | 198 | 94 | 64 | 0 | | |
| 13 | 13 | 147 | 147 | 168 | 153 | 217 | 181 | 96 | 65 | 0 | | |
| 14 | 13 | 147 | 354 | 171 | 156 | 224 | 147 | 84 | 61 | 0 | | |
| 15 | 14 | 147 | 372 | 165 | 156 | 196 | 150 | 84 | 59 | 0 | | |
| 16 | 15 | 146 | 249 | 162 | 159 | 202 | 165 | 70 | 61 | 0 | | |
| 17 | 16 | 147 | 178 | 159 | 162 | 217 | 178 | 72 | 94 | 0 | | |
| 18 | 18 | 146 | 165 | 156 | 159 | 213 | 153 | 72 | 107 | 0 | | |
| 19 | 20 | 143 | 184 | 159 | 156 | 224 | 141 | 62 | 105 | 0 | | |
| 20 | 24 | 141 | 187 | 162 | 153 | 232 | 120 | 51 | 114 | 0 | | |
| 21 | 27 | 140 | 182 | 162 | 156 | 244 | 110 | 41 | 130 | 0 | | |
| 22 | 30 | 138 | 190 | 168 | 156 | 209 | 98 | 28 | 130 | 0 | | |
| 23 | 34 | 137 | 197 | 168 | 153 | 205 | 101 | 24 | 123 | 0 | | |
| 24 | 38 | 135 | 199 | 174 | 156 | 205 | 103 | 21 | 96 | 0 | | |
| 25 | 42 | 134 | 204 | 185 | 159 | 244 | 118 | 20 | 77 | 0 | | |
| 26 | 47 | 132 | 204 | 188 | 162 | 311 | 136 | 15 | 64 | 0 | | |
| 27 | 51 | 132 | 199 | 174 | 162 | 350 | 120 | 15 | 53 | 0 | | |
| 28 | 50 | 132 | 201 | 174 | 165 | 326 | 98 | 16 | 36 | 0 | | |
| 29 | 52 | 132 | 201 | 171 | | 302 | 80 | 20 | 20 | 0 | | |
| 30 | 56 | 131 | 204 | 171 | | 351 | 66 | 36 | 14 | 0 | | |
| 31 | 59 | | 210 | 171 | | 651 | | 43 | | 0 | | |
| Month | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | | |
| October | | | | | | 59 | 13 | 26.0 | 1,600 | | | |
| November | | | | | | 150 | 75 | 137 | 8,140 | | | |
| December | | | | | | 372 | 120 | 178 | 10,920 | | | |
| January | | | | | | 398 | 156 | 189 | 11,640 | | | |
| February | | | | | | 171 | 153 | 161 | 8,970 | | | |
| March | | | | | | 651 | 147 | 238 | 14,660 | | | |
| April | | | | | | 694 | 66 | 219 | 13,050 | | | |
| May | | | | | | 96 | 15 | 56.8 | 3,490 | | | |
| June | | | | | | 130 | 14 | 65.1 | 3,750 | | | |
| July | | | | | | 11 | 0 | 1.3 | 81 | | | |
| August | | | | | | 0 | 0 | 0 | 0 | | | |
| September | | | | | | 0 | 0 | 0 | 0 | | | |
| The year | | | | | | 694 | 0 | 105 | 76,500 | | | |

Note.- No flow during months left blank.

HUMBOLDT RIVER BASIN

Humboldt River at Palisade, Nev.

Location.- Chain gage in sec. 38, T. 32 N., R. 51 E., at highway bridge at Palisade, 100 feet below Southern Pacific Railroad bridge and 1 mile above mouth of Pine Creek.

Drainage area.- 5,010 square miles.

Records available.- November 1902 to October 1906, July 1911 to September 1934.

Average discharge.- 26 years (1903-06, 1911-34), 334 second-feet.

Extremes.- Maximum discharge recorded during year, 162 second-feet Feb. 25, 28 (gage height, 2.50 feet); minimum recorded, 3 second-feet Aug. 17, 20 (gage height, 0.80 foot).
1902-8, 1911-34: Maximum, 4,300 second-feet Mar. 3, 1921 (gage height, 8.8 feet); minimum, 2 second-feet Aug. 25-28, 1931.

Remarks.- Records good except those for July to September, which are fair. Water is diverted for irrigation of about 150,000 acres of hay lands above station. Gage-height record furnished by Water Commissioner.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 16 | 26 | 30 | 51 | 84 | 160 | 55 | 10 | 12 | 10 | 7 | 5 |
| 2 | 18 | 24 | 28 | 48 | 82 | 152 | 57 | 10 | 10 | 10 | 6 | 4 |
| 3 | 18 | 25 | 27 | 50 | 87 | 144 | 55 | 11 | 11 | 11 | 5 | 4 |
| 4 | 16 | 23 | 28 | 47 | 84 | 148 | 51 | 10 | 12 | 10 | 5 | 4 |
| 5 | 18 | 22 | 30 | 48 | 79 | 141 | 55 | 10 | 13 | 9 | 5 | 5 |
| 6 | 16 | 21 | 28 | 45 | 84 | 144 | 51 | 11 | 12 | 9 | 4 | 4 |
| 7 | 16 | 19 | 29 | 47 | 90 | 137 | 51 | 12 | 12 | 10 | 4 | 5 |
| 8 | 16 | 19 | 27 | 48 | 93 | 141 | 50 | 11 | 13 | 9 | 4 | 6 |
| 9 | 18 | 18 | 30 | 50 | 98 | 133 | 47 | 9 | 15 | 8 | 4 | 7 |
| 10 | 16 | 17 | 34 | 48 | 101 | 126 | 47 | 10 | 14 | 9 | 4 | 7 |
| 11 | 16 | 17 | 37 | 50 | 98 | 119 | 37 | 10 | 11 | 10 | 3 | 7 |
| 12 | 18 | 16 | 47 | 47 | 95 | 115 | 36 | 11 | 9 | 8 | 4 | 8 |
| 13 | 16 | 17 | 44 | 50 | 98 | 109 | 47 | 13 | 8 | 10 | 3 | 8 |
| 14 | 16 | 16 | 42 | 51 | 101 | 112 | 33 | 13 | 8 | 9 | 3 | 9 |
| 15 | 16 | 18 | 39 | 55 | 104 | 106 | 30 | 12 | 9 | 8 | 4 | 10 |
| 16 | 18 | 17 | 37 | 57 | 111 | 106 | 27 | 11 | 9 | 7 | 3 | 8 |
| 17 | 18 | 16 | 34 | 61 | 111 | 100 | 21 | 12 | 10 | 10 | 3 | 7 |
| 18 | 18 | 18 | 30 | 63 | 117 | 94 | 16 | 12 | 12 | 8 | 3 | 7 |
| 19 | 18 | 17 | 28 | 67 | 121 | 91 | 15 | 11 | 14 | 9 | 4 | 7 |
| 20 | 18 | 16 | 29 | 70 | 128 | 86 | 16 | 12 | 12 | 8 | 3 | 8 |
| 21 | 18 | 15 | 31 | 70 | 139 | 88 | 13 | 12 | 11 | 7 | 3 | 7 |
| 22 | 20 | 16 | 33 | 67 | 146 | 80 | 12 | 12 | 10 | 7 | 3 | 9 |
| 23 | 22 | 17 | 31 | 72 | 154 | 73 | 10 | 11 | 11 | 7 | 4 | 10 |
| 24 | 22 | 18 | 30 | 70 | 158 | 68 | 10 | 12 | 10 | 7 | 4 | 9 |
| 25 | 20 | 19 | 31 | 67 | 162 | 68 | 11 | 11 | 11 | 8 | 4 | 10 |
| 26 | 22 | 21 | 29 | 70 | 158 | 71 | 10 | 12 | 13 | 7 | 4 | 10 |
| 27 | 22 | 22 | 34 | 72 | 154 | 68 | 8 | 12 | 14 | 7 | 4 | 10 |
| 28 | 24 | 25 | 37 | 77 | 162 | 66 | 9 | 11 | 12 | 7 | 5 | 12 |
| 29 | 24 | 27 | 40 | 79 | | 62 | 10 | 12 | 13 | 8 | 5 | 13 |
| 30 | 24 | 30 | 44 | 77 | | 52 | 9 | 11 | 11 | 7 | 4 | 13 |
| 31 | 24 | | 47 | 82 | | 52 | | 12 | | 7 | 5 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 24 | 16 | 18.8 | 1,150 | | |
| November | | | | | | | 30 | 15 | 19.7 | 1,170 | | |
| December | | | | | | | 47 | 27 | 33.7 | 2,070 | | |
| January | | | | | | | 82 | 45 | 59.9 | 3,680 | | |
| February | | | | | | | 162 | 79 | 114 | 6,350 | | |
| March | | | | | | | 160 | 52 | 104 | 6,370 | | |
| April | | | | | | | 57 | 8 | 29.9 | 1,780 | | |
| May | | | | | | | 13 | 9 | 11.3 | 692 | | |
| June | | | | | | | 15 | 8 | 11.4 | 678 | | |
| July | | | | | | | 11 | 7 | 8.4 | 518 | | |
| August | | | | | | | 7 | 3 | 4.1 | 250 | | |
| September | | | | | | | 13 | 4 | 7.8 | 462 | | |
| The year | | | | | | | 162 | 3 | 34.8 | 25,170 | | |

Martin Creek near Paradise Valley, Nev.

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

Records available.- October 1921 to September 1934.

Average discharge.- 12 years (1921-26, 1927-34), 22.1 second-feet.

Extremes.- Maximum during year not recorded; minimum recorded, 4 second-feet for several days during period July to September.

1921-34: *Maximum, about 1,000 second-feet Feb. 21 or 22, 1927 (gage height, about 12 feet); minimum, 2 second-feet Sept. 1-9, 1928.

Remarks.- Records fair. No diversions above gage. Records Mar. 12 to June 23, July 16 to Sept. 18 furnished by Little Humboldt River Water Commissioner.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 7 | 9 | | | | | 43 | 34 | 11 | | 4 | 4 |
| 2 | 7 | 8 | | | | | 43 | 34 | 11 | | 4 | 4 |
| 3 | 7 | 8 | | | | | 30 | 31 | 11 | *6 | 4 | 4 |
| 4 | 7 | | | | | | 30 | 31 | 11 | | 4 | 4 |
| 5 | 7 | | | | | | 31 | 31 | 11 | | 4 | 5 |
| 6 | 7 | | | | | *20 | 31 | 31 | 11 | | 4 | 5 |
| 7 | 7 | | | | | | 30 | 30 | 16 | | 4 | 5 |
| 8 | 7 | | | | | | 30 | 30 | 16 | | 4 | 5 |
| 9 | 7 | | | | | | 30 | 30 | 16 | | 4 | 5 |
| 10 | 7 | | | | 11 | | 33 | 30 | 11 | *5 | 4 | 5 |
| 11 | 7 | | | | | | 33 | 25 | 11 | | 4 | 5 |
| 12 | 7 | | | | | 24 | 35 | 24 | 9 | | 4 | 5 |
| 13 | 7 | | | | | 24 | 35 | 24 | 9 | | 4 | 5 |
| 14 | 7 | | | | | 24 | 35 | 22 | 9 | | 4 | 5 |
| 15 | 7 | | | | | 24 | 35 | 22 | 9 | | 4 | 5 |
| 16 | 7 | *8 | | | | 27 | 34 | 19 | 7 | 4 | 4 | 5 |
| 17 | 7 | | | | | 27 | 34 | 19 | 7 | 4 | 4 | 5 |
| 18 | 7 | | | | | 19 | 29 | 17 | 7 | 4 | 4 | 5 |
| 19 | 7 | | | | | 20 | 29 | 17 | 7 | 4 | 4 | 5 |
| 20 | 7 | | | | | 21 | 29 | 16 | 8 | 4 | 4 | 5 |
| 21 | 7 | | | | | 22 | 30 | 14 | 8 | 4 | 4 | 5 |
| 22 | 8 | | | | | 22 | 30 | 14 | 8 | 4 | 4 | 5 |
| 23 | 8 | | | | | 21 | 30 | 14 | 8 | 4 | 4 | 5 |
| 24 | 8 | | | | | 21 | 41 | 12 | | 4 | 4 | 5 |
| 25 | 8 | | | | | 20 | 39 | 12 | | 4 | 4 | 5 |
| 26 | 8 | | | | | 20 | 34 | 12 | | 4 | 4 | 5 |
| 27 | 8 | | | | | 20 | 34 | 11 | *7 | 4 | 4 | 5 |
| 28 | 8 | | | | | 24 | 34 | 11 | | 4 | 4 | 5 |
| 29 | 8 | | | | | 56 | 34 | 11 | | 4 | 4 | 5 |
| 30 | 17 | | | | | 56 | 34 | 11 | | 4 | 4 | 5 |
| 31 | 16 | | | | | 43 | | 11 | | 4 | 4 | 5 |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 17 | 7 | 7.9 | 484 | | |
| November | | | | | | | | | 8 | 478 | | |
| December | | | | | | | | | *7 | 430 | | |
| January | | | | | | | | | *7 | 430 | | |
| February | | | | | | | | | *12 | 666 | | |
| March | | | | | | | 56 | | 24.4 | 1,500 | | |
| April | | | | | | | 43 | 29 | 33.3 | 1,980 | | |
| May | | | | | | | 34 | 11 | 21.0 | 1,290 | | |
| June | | | | | | | 16 | | 9.4 | 557 | | |
| July | | | | | | | | | 4.6 | 286 | | |
| August | | | | | | | 4 | 4 | 4.0 | 248 | | |
| September | | | | | | | | | 4.9 | 290 | | |
| The year | | | | | | | | | 11.9 | 8,640 | | |

*Estimated.

Cottonwood Creek near Paradise Valley, Nev.

Location.- Staff gage in SW $\frac{1}{4}$ sec. 3, T. 42 N., R. 39 E., at Case ranch, 5 miles northwest of Paradise Valley.

Records available.- May 1925 to September 1934.

Extremes.- Maximum discharge recorded during year, 22 second-feet Mar. 29 to Apr. 1; minimum not recorded.
1925-34: Maximum, 183 second-feet Mar. 19, 1932 (gage height, 5.80 feet); no flow during periods practically every year.

Remarks.- Records fair. Two small diversions above station. Records furnished Mar. 12 to June 23 by Little Humboldt River Water Commissioner. Remainder of year estimated by U. S. Geological Survey.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|-------------------------|------|-------|
| 1 | | | | | | | 22 | 9 | 4 | | | |
| 2 | | | | | | | 15 | 9 | 4 | | | |
| 3 | | *0.3 | | | | | 15 | 9 | 4 | | | |
| 4 | | | | | | | 15 | 10 | 4 | | | |
| 5 | | | | | | | 11 | 10 | 4 | | | |
| 6 | | | | | | 2 | 11 | 9 | 4 | | | |
| 7 | | | | | | | 11 | 9 | 4 | | | |
| 8 | | | | | | | 11 | 9 | 4 | | | |
| 9 | | | | | | | 10 | 10 | 4 | | | |
| 10 | | | | | *1 | | 10 | 10 | 4 | | | |
| 11 | | | | | | | 9 | 10 | 4 | | | |
| 12 | | | | | | 3 | 9 | 10 | 4 | | | |
| 13 | | | | | | 3 | 9 | 10 | 4 | | | |
| 14 | | | | | | 4 | 9 | 10 | 4 | | | |
| 15 | | | | | | 4 | 10 | 10 | 4 | | | |
| 16 | | | | | | 3 | 10 | 9 | 3 | | | |
| 17 | | | | | | 5 | 10 | 9 | 3 | | | |
| 18 | | | | | | 5 | 8 | 9 | 3 | | | |
| 19 | | | | | | 5 | 8 | 7 | 3 | | | |
| 20 | | | | | | 5 | 8 | 7 | 3 | | | |
| 21 | | | | | | 5 | 8 | 6 | 3 | | | |
| 22 | | | | | | 5 | 8 | 6 | 3 | | | |
| 23 | | | | | | 5 | 9 | 5 | 3 | | | |
| 24 | | | | | | 5 | 11 | 5 | | | | |
| 25 | | | | | | 5 | 11 | 5 | | | | |
| 26 | | | | | | 5 | 11 | 5 | 2 | | | |
| 27 | | | | | | 5 | 9 | 5 | | | | |
| 28 | | | | | | 5 | 9 | 5 | | | | |
| 29 | | | | | | 22 | 9 | 5 | | | | |
| 30 | | | | | | 22 | 9 | 5 | | | | |
| 31 | | | | | | 22 | | 4 | | | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | | | 0.4 | 25 | | |
| November | | | | | | | | | .3 | 18 | | |
| December | | | | | | | | | .3 | 18 | | |
| January | | | | | | | | | .3 | 18 | | |
| February | | | | | | | | | 1 | 56 | | |
| March | | | | | | | 22 | | 5.3 | 327 | | |
| April | | | | | | | 22 | | 10.5 | 625 | | |
| May | | | | | | | 10 | 4 | 7.8 | 478 | | |
| June | | | | | | | 4 | | 3.3 | 194 | | |
| July | | | | | | | | | 1 | 61 | | |
| August | | | | | | | | | .5 | 31 | | |
| September | | | | | | | | | .5 | 30 | | |
| The year | | | | | | | 22 | | 2.6 | 1,880 | | |

*Field estimate.

Pyramid Lake near Nixon, Nev.

Location.- Elevations since 1904 determined by spirit leveling at points at south end of lake adjacent to General Land Office Bench Mark 1, which is top of iron post in forks of road about 900 feet north of the quarter corner of secs. 29 and 30, T. 23 N., R. 23 E., and $4\frac{1}{2}$ miles west of Pyramid Lake Sanatorium, at Nixon. Elevation of Bench Mark 1 is 3,882.258 feet above mean sea level, based on 1912 adjustment of elevations of bench marks along precise level lines of the U. S. Coast and Geodetic Survey. Location of observations prior to 1904 unknown.

Records available.- Occasional elevations 1867 to September 1934.

Remarks.- Records furnished by U. S. Indian Service.

Elevation, in feet, above mean sea level, 1933-34

| | | | |
|---------|---------|----------|---------|
| Oct. 19 | 3,826.7 | Apr. 17 | 3,825.3 |
| Nov. 21 | 3,826.3 | May 21 | 3,825.0 |
| Dec. 22 | 3,825.9 | June 17 | 3,825.0 |
| Jan. 18 | 3,825.6 | July 13 | 3,824.7 |
| Feb. 22 | 3,825.6 | Aug. 18 | 3,824.1 |
| Mar. 15 | 3,825.5 | Sept. 11 | 3,823.7 |

Lake Tahoe at Tahoe, Calif.

Location.- Staff gage in NW $\frac{1}{4}$ sec. 7, T. 15 N., R. 17 E., near outlet of lake at Tahoe. Zero of gage is 6,220.0 feet above mean sea level; rim of lake (natural control of outlet), 6,223.0 feet; sill of outlet gates below natural control, 6,219.0 feet.

Drainage area.- 519 square miles (including water surface of lake, which is 193 square miles).

Records available.- 1900 to September 1934.

Extremes.- Maximum stage during year, 3.63 feet June 18, 19, 21, 22; minimum, 2.25 feet Sept. 30.

1900-34: Maximum stage, 11.26 feet July 14, 15, 17, 18, 1907; minimum, 1.79 feet Dec. 6, 1931.

Remarks.- Gage read to hundredths once daily. Records furnished by Truckee-Carson Irrigation District. Water pumped from lake beginning July 12, 1934. (See Truckee River at Tahoe, Calif.).

Gage height, in feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1 | 2.88 | 2.91 | 2.65 | 3.07 | 3.02 | 3.17 | 3.39 | 3.51 | 3.54 | 3.55 | 3.13 | 2.72 |
| 2 | 2.88 | 2.90 | 2.64 | 3.08 | 3.02 | 3.17 | 3.41 | 3.52 | 3.53 | 3.55 | 3.12 | 2.71 |
| 3 | 2.88 | 2.89 | 2.66 | 3.08 | 3.03 | 3.18 | 3.39 | 3.52 | 3.52 | 3.54 | 3.10 | 2.69 |
| 4 | 2.87 | 2.86 | 2.67 | 3.07 | 3.04 | 3.18 | 3.37 | 3.53 | 3.52 | 3.52 | 3.08 | 2.68 |
| 5 | 2.87 | 2.84 | 2.66 | 3.07 | 3.04 | 3.18 | 3.38 | 3.54 | 3.53 | 3.50 | 3.06 | 2.66 |
| 6 | 2.87 | 2.83 | 2.65 | 3.07 | 3.04 | 3.19 | 3.38 | 3.54 | 3.55 | 3.50 | 3.05 | 2.64 |
| 7 | 2.86 | 2.82 | 2.64 | 3.06 | 3.03 | 3.19 | 3.39 | 3.54 | 3.57 | 3.49 | 3.03 | 2.62 |
| 8 | 2.85 | 2.81 | 2.63 | 3.06 | 3.08 | 3.19 | 3.39 | 3.54 | 3.58 | 3.47 | 3.01 | 2.60 |
| 9 | 2.84 | 2.80 | 2.62 | 3.05 | 3.07 | 3.19 | 3.39 | 3.54 | 3.57 | 3.45 | 3.00 | 2.59 |
| 10 | 2.84 | 2.79 | 2.61 | 3.04 | 3.06 | 3.19 | 3.40 | 3.54 | 3.57 | 3.43 | 2.99 | 2.57 |
| 11 | 2.83 | 2.78 | 2.60 | 3.04 | 3.05 | 3.19 | 3.41 | 3.54 | 3.57 | 3.43 | 2.98 | 2.54 |
| 12 | 2.82 | 2.77 | 2.71 | 3.03 | 3.04 | 3.19 | 3.41 | 3.55 | 3.58 | 3.42 | 2.97 | 2.50 |
| 13 | 2.82 | 2.77 | 2.79 | 3.03 | 3.04 | 3.20 | 3.42 | 3.55 | 3.59 | 3.41 | 2.96 | 2.46 |
| 14 | 2.81 | 2.77 | 2.90 | 3.03 | 3.04 | 3.21 | 3.43 | 3.55 | 3.61 | 3.39 | 2.95 | 2.44 |
| 15 | 2.81 | 2.77 | 2.92 | 3.02 | 3.05 | 3.21 | 3.44 | 3.55 | 3.61 | 3.39 | 2.94 | 2.43 |
| 16 | 2.80 | 2.76 | 2.98 | 3.02 | 3.06 | 3.21 | 3.45 | 3.55 | 3.62 | 3.36 | 2.92 | 2.42 |
| 17 | 2.79 | 2.76 | 2.98 | 3.02 | 3.07 | 3.22 | 3.45 | 3.54 | 3.62 | 3.35 | 2.91 | 2.41 |
| 18 | 2.79 | 2.75 | 2.97 | 3.02 | 3.07 | 3.22 | 3.45 | 3.54 | 3.63 | 3.34 | 2.89 | 2.40 |
| 19 | 2.78 | 2.75 | 2.96 | 3.01 | 3.09 | 3.23 | 3.46 | 3.53 | 3.63 | 3.33 | 2.87 | 2.39 |
| 20 | 2.77 | 2.74 | 2.95 | 3.02 | 3.09 | 3.24 | 3.46 | 3.52 | 3.62 | 3.31 | 2.85 | 2.38 |
| 21 | 2.75 | 2.74 | 2.94 | 3.02 | 3.08 | 3.24 | 3.47 | 3.52 | 3.63 | 3.29 | 2.84 | 2.37 |
| 22 | 2.74 | 2.73 | 2.94 | 3.02 | 3.08 | 3.25 | 3.47 | 3.53 | 3.63 | 3.26 | 2.83 | 2.35 |
| 23 | 2.73 | 2.73 | 2.93 | 3.02 | 3.11 | 3.25 | 3.47 | 3.53 | 3.62 | 3.25 | 2.82 | 2.32 |
| 24 | 2.72 | 2.73 | 2.93 | 3.05 | 3.13 | 3.26 | 3.47 | 3.53 | 3.61 | 3.24 | 2.81 | 2.32 |
| 25 | 2.71 | 2.73 | 2.92 | 3.04 | 3.13 | 3.27 | 3.48 | 3.52 | 3.59 | 3.22 | 2.80 | 2.32 |
| 26 | 2.70 | 2.73 | 2.92 | 3.02 | 3.17 | 3.28 | 3.49 | 3.54 | 3.57 | 3.21 | 2.79 | 2.30 |
| 27 | 2.69 | 2.72 | 2.91 | 3.01 | 3.17 | 3.28 | 3.49 | 3.54 | 3.56 | 3.20 | 2.78 | 2.28 |
| 28 | 2.68 | 2.71 | 2.91 | 3.01 | 3.17 | 3.29 | 3.50 | 3.55 | 3.55 | 3.19 | 2.77 | 2.26 |
| 29 | 2.68 | 2.68 | 2.90 | 3.01 | | | 3.54 | 3.50 | 3.54 | 3.55 | 3.18 | 2.76 |
| 30 | 2.87 | 2.66 | 2.95 | 3.01 | | | 3.55 | 3.50 | 3.54 | 3.55 | 3.17 | 2.75 |
| 31 | 2.92 | | 2.96 | 3.01 | | | 3.37 | | 3.53 | | 3.15 | 2.73 |

Truckee River at Tahoe, Calif.

Location.- Staff gage in NW $\frac{1}{4}$ sec. 7, T. 15 N., R. 17 E., at Tahoe, just below dam at outlet of Lake Tahoe. Altitude, about 6,200 feet.

Drainage area.- 519 square miles.

Records available.- July 1895 to February 1896, June 1900 to September 1934.

Average discharge.- 34 years (1900-34), 258 second-feet.

Extremes.- Maximum daily discharge during year, 288 second-feet July 23; no flow several months.
1895-96, 1900-34: Maximum daily discharge, 1,340 second-feet July 13-20, 1907; no flow during parts of 1900, 1901, 1914, 1918-34.

Remarks.- Flow regulated by operation of gates in dam at Lake Tahoe and occasionally by pumping from the lake; pumping for current year began July 12. Daily-discharge record furnished by Truckee-Carson Irrigation District.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|---------|---------|------|----------------------|------|------|-------|
| 1 | | | | 0 | 0 | 3 | 0 | 19 | 21 | 22 | 284 | 278 |
| 2 | | | | 0 | 0 | 3 | 0 | 19 | 20 | 22 | 205 | 272 |
| 3 | | | | 0 | 0 | 3 | 5 | 19 | 19 | 21 | 284 | 272 |
| 4 | | | | 1 | 0 | 3 | 10 | 20 | 19 | 19 | 282 | 272 |
| 5 | | | | 1 | 0 | 3 | 11 | 21 | 20 | 18 | 282 | 274 |
| 6 | | | | 1 | 0 | 3 | 11 | 21 | 22 | 18 | 280 | 278 |
| 7 | | | | 1 | 0 | 3 | 11 | 21 | 23 | 17 | 280 | 276 |
| 8 | | | | 1 | 1 | 3 | 11 | 21 | 24 | 16 | 282 | 274 |
| 9 | | | | 1 | 1 | 3 | 11 | 21 | 23 | 15 | 282 | 274 |
| 10 | | | | 0 | 1 | 3 | 12 | 21 | 23 | 14 | 278 | 258 |
| 11 | | | | 0 | 1 | 3 | 12 | 21 | 23 | 14 | 278 | 274 |
| 12 | | | | 0 | 0 | 3 | 12 | 22 | 24 | 137 | 278 | 274 |
| 13 | | | | 0 | 0 | 2 | 13 | 22 | 25 | 245 | 276 | 274 |
| 14 | | | | 0 | 0 | 0 | 14 | 22 | 27 | 262 | 278 | 171 |
| 15 | | | | 0 | 1 | 0 | 14 | 22 | 27 | 288 | 278 | 87 |
| 16 | | | | 0 | 1 | 2 | 15 | 22 | 27 | 270 | 276 | 86 |
| 17 | | | | 0 | 1 | 4 | 15 | 21 | 27 | 282 | 221 | 99 |
| 18 | | | | 0 | 1 | 4 | 15 | 21 | 28 | 282 | 272 | 90 |
| 19 | | | | 0 | 1 | 4 | 15 | 20 | 28 | 282 | 274 | 90 |
| 20 | | | | 0 | 1 | 5 | 15 | 19 | 27 | 282 | 276 | 90 |
| 21 | | | | 0 | 1 | 2 | 16 | 19 | 28 | 276 | 276 | 50 |
| 22 | | | | 0 | 1 | 0 | 16 | 20 | 28 | 286 | 276 | 50 |
| 23 | | | | 0 | 1 | 3 | 16 | 20 | 27 | 288 | 276 | 22 |
| 24 | | | | 1 | 2 | 5 | 16 | 20 | 27 | 283 | 276 | 48 |
| 25 | | | | 0 | 2 | 6 | 17 | 19 | 25 | 286 | 276 | 51 |
| 26 | | | | 0 | 3 | 6 | 17 | 21 | 23 | 286 | 272 | 50 |
| 27 | | | | 0 | 3 | 6 | 17 | 21 | 23 | 286 | 276 | 48 |
| 28 | | | | 0 | 3 | 2 | 18 | 22 | 22 | 288 | 280 | 48 |
| 29 | | | | 0 | | 0 | 18 | 21 | 22 | 288 | 280 | 49 |
| 30 | | | | 0 | | 0 | 13 | 21 | 22 | 288 | 280 | 48 |
| 31 | | | | 0 | | 0 | | 20 | | 286 | 278 | |
| Month | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | | |
| October | | | | | | 0 | 0 | 0 | 0 | | | |
| November | | | | | | 0 | 0 | 0 | 0 | | | |
| December | | | | | | 0 | 0 | 0 | 0 | | | |
| January | | | | | | 1 | 0 | .23 | 13.9 | | | |
| February | | | | | | 3 | 0 | .93 | 51.6 | | | |
| March | | | | | | 6 | 0 | 2.81 | 173 | | | |
| April | | | | | | 18 | 0 | 13.0 | 774 | | | |
| May | | | | | | 22 | 19 | 20.6 | 1,270 | | | |
| June | | | | | | 28 | 19 | 24.1 | 1,430 | | | |
| July | | | | | | 288 | 14 | 182 | 11,200 | | | |
| August | | | | | | 284 | 205 | 274 | 16,800 | | | |
| September | | | | | | 278 | 22 | 157 | 9,340 | | | |
| The year | | | | | | 288 | 0 | 56.7 | 41.100 | | | |

Note.- No flow during months left blank.

Truckee River at Iceland, Calif.

Location.- Water-stage recorder in sec. 36, T. 18 N., R. 17 E., above dam of National Ice Co. at Iceland. Altitude, about 5,420 feet.

Drainage area.- 937 square miles.

Records available.- August 1912 to September 1934. September 1899 to August 1912 at Nevada-California State line, 3 miles downstream.

Average discharge.- 22 years (1912-34), 633 second-feet.

Extremes.- Maximum daily discharge during year, 2,500 second-feet Mar. 29; minimum, 54 second-feet Oct. 1-3, 6, 7, 10-14, 18.
1899-1934: Maximum mean daily discharge, 15,300 second-feet Mar. 18, 1907 (gage height, 11.5 feet); minimum, 28 second-feet Dec. 18, 1930.

Remarks.- Flow regulated by operation of gates in dam at Lake Tahoe. Daily-discharge record furnished by Truckee-Carson Irrigation District.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|-------|---------|---------|------|----------------------|------|-------|
| 1 | 54 | 186 | 67 | 226 | 153 | 226 | 1,073 | 444 | 178 | 260 | 347 | 347 |
| 2 | 54 | 153 | 85 | 247 | 178 | 233 | 927 | 427 | 182 | 288 | 317 | 347 |
| 3 | 54 | 150 | 88 | 226 | 186 | 255 | 784 | 438 | 171 | 279 | 332 | 352 |
| 4 | 56 | 143 | 78 | 201 | 194 | 322 | 741 | 449 | 167 | 288 | 352 | 352 |
| 5 | 56 | 121 | 69 | 178 | 213 | 357 | 706 | 478 | 197 | 274 | 357 | 347 |
| 6 | 54 | 107 | 85 | 160 | 217 | 444 | 666 | 550 | 230 | 251 | 357 | 342 |
| 7 | 54 | 107 | 88 | 167 | 226 | 455 | 659 | 556 | 234 | 265 | 357 | 342 |
| 8 | 56 | 104 | 74 | 160 | 279 | 421 | 652 | 525 | 217 | 247 | 357 | 342 |
| 9 | 56 | 104 | 64 | 160 | 234 | 398 | 639 | 495 | 201 | 247 | 357 | 342 |
| 10 | 54 | 101 | 96 | 167 | 205 | 416 | 615 | 478 | 194 | 230 | 357 | 347 |
| 11 | 54 | 98 | 96 | 157 | 197 | 427 | 659 | 490 | 186 | 238 | 357 | 337 |
| 12 | 54 | 96 | 238 | 164 | 197 | 432 | 727 | 466 | 186 | 205 | 357 | 347 |
| 13 | 54 | 96 | 357 | 157 | 186 | 537 | 700 | 427 | 205 | 293 | 357 | 347 |
| 14 | 54 | 98 | 186 | 153 | 190 | 568 | 652 | 398 | 243 | 302 | 357 | 312 |
| 15 | 56 | 101 | 167 | 143 | 201 | 587 | 606 | 357 | 205 | 332 | 357 | 140 |
| 16 | 54 | 104 | 140 | 118 | 205 | 619 | 600 | 347 | 190 | 357 | 362 | 127 |
| 17 | 56 | 121 | 160 | 137 | 209 | 639 | 587 | 312 | 174 | 352 | 332 | 127 |
| 18 | 56 | 118 | 194 | 116 | 230 | 619 | 525 | 288 | 167 | 347 | 322 | 127 |
| 19 | 58 | 107 | 194 | 127 | 265 | 741 | 556 | 269 | 160 | 327 | 357 | 131 |
| 20 | 58 | 107 | 171 | 140 | 269 | 806 | 587 | 247 | 171 | 322 | 357 | 131 |
| 21 | 58 | 104 | 150 | 127 | 230 | 770 | 619 | 226 | 164 | 317 | 357 | 131 |
| 22 | 58 | 96 | 137 | 140 | 230 | 741 | 632 | 265 | 150 | 322 | 352 | 88 |
| 23 | 58 | 93 | 137 | 153 | 256 | 700 | 659 | 247 | 137 | 332 | 352 | 98 |
| 24 | 58 | 90 | 137 | 153 | 251 | 713 | 639 | 221 | 131 | 302 | 357 | 88 |
| 25 | 58 | 88 | 134 | 137 | 234 | 777 | 537 | 221 | 127 | 307 | 357 | 107 |
| 26 | 58 | 85 | 134 | 157 | 243 | 791 | 501 | 256 | 137 | 337 | 362 | 115 |
| 27 | 58 | 88 | 134 | 150 | 251 | 784 | 456 | 217 | 137 | 337 | 362 | 112 |
| 28 | 58 | 85 | 134 | 150 | 234 | 1,239 | 434 | 186 | 131 | 337 | 373 | 107 |
| 29 | 67 | 74 | 150 | 150 | | 2,500 | 410 | 182 | 131 | 337 | 357 | 104 |
| 30 | 466 | 62 | 186 | 157 | | 1,705 | 410 | 182 | 127 | 327 | 357 | 107 |
| 31 | 307 | | 178 | 153 | | 1,312 | | 178 | | 337 | 357 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 466 | 54 | 77.6 | 4,770 | | |
| November | | | | | | | 186 | 62 | 106 | 6,310 | | |
| December | | | | | | | 357 | 64 | 139 | 8,550 | | |
| January | | | | | | | 247 | 118 | 159 | 9,780 | | |
| February | | | | | | | 279 | 153 | 220 | 12,200 | | |
| March | | | | | | | 2,500 | 226 | 695 | 42,700 | | |
| April | | | | | | | 1,073 | 410 | 632 | 37,600 | | |
| May | | | | | | | 556 | 178 | 349 | 21,500 | | |
| June | | | | | | | 243 | 127 | 174 | 10,400 | | |
| July | | | | | | | 357 | 205 | 300 | 18,400 | | |
| August | | | | | | | 373 | 317 | 353 | 21,700 | | |
| September | | | | | | | 353 | 88 | 221 | 13,200 | | |
| The year | | | | | | | 2,500 | 54 | 286 | 207,000 | | |

Donner Creek near Truckee, Calif.

Location.- Water-stage recorder in SE $\frac{1}{4}$ sec. 16, T. 17 N., R. 16 E., 1 mile below Cold Creek and 1 $\frac{1}{2}$ miles southwest of Truckee. Altitude, about 5,800 feet.

Drainage area.- 30 square miles.

Records available.- October 1902 to September 1915, April 1928 to June 1934.

Extremes.- Maximum daily discharge during year, 415 second-feet Mar. 29; minimum, 2 second-feet Oct. 1-30, Sept. 28-30, 1902-15, 1928-34: Maximum discharge, 541 second-feet May 15, 1932 (gage height, 3.47 feet): minimum, less than 1 second-foot during many summers.

Remarks.- No diversions. Flow is partly controlled by outlet gages at Donner Lake. Daily-discharge record furnished by Truckee-Carson Irrigation District.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 2 | 27 | 8 | 9 | 15 | 21 | 262 | 94 | 27 | 208 | 19 | 15 |
| 2 | 2 | 10 | 5 | 9 | 16 | 22 | 186 | 89 | 31 | 194 | 22 | 14 |
| 3 | 2 | 10 | 6 | 15 | 16 | 26 | 159 | 95 | 31 | 197 | 22 | 13 |
| 4 | 2 | 10 | 6 | 18 | 17 | 28 | 155 | 97 | 31 | 199 | 22 | 13 |
| 5 | 2 | 8 | 8 | 24 | 20 | 32 | 134 | 95 | 33 | 182 | 22 | 12 |
| 6 | 2 | 8 | 6 | 18 | 21 | 36 | 112 | 97 | 35 | 166 | 23 | 11 |
| 7 | 2 | 7 | 4 | 18 | 22 | 35 | 104 | 97 | 35 | 174 | 27 | 11 |
| 8 | 2 | 6 | 6 | 17 | 24 | 34 | 92 | 86 | 34 | 146 | 27 | 9 |
| 9 | 2 | 6 | 7 | 16 | 23 | 36 | 87 | 78 | 32 | 126 | 27 | 9 |
| 10 | 2 | 6 | 5 | 15 | 24 | 41 | 89 | 79 | 31 | 112 | 27 | 8 |
| 11 | 2 | 7 | 5 | 14 | 24 | 43 | 131 | 81 | 30 | 99 | 28 | 8 |
| 12 | 2 | 7 | 22 | 13 | 22 | 47 | 160 | 87 | 30 | 87 | 28 | 7 |
| 13 | 2 | 7 | 27 | 13 | 21 | 52 | 136 | 56 | 36 | 32 | 27 | 6 |
| 14 | 2 | 7 | 24 | 14 | 20 | 56 | 131 | 53 | 36 | 7 | 27 | 6 |
| 15 | 2 | 8 | 21 | 14 | 22 | 59 | 131 | 51 | 33 | 6 | 26 | 6 |
| 16 | 2 | 8 | 21 | 15 | 27 | 66 | 131 | 48 | 32 | 6 | 26 | 6 |
| 17 | 2 | 8 | 19 | 13 | 30 | 81 | 123 | 45 | 30 | 6 | 27 | 6 |
| 18 | 2 | 8 | 19 | 14 | 21 | 104 | 123 | 43 | 30 | 5 | 27 | 5 |
| 19 | 2 | 8 | 19 | 14 | 24 | 170 | 126 | 41 | 30 | 5 | 26 | 5 |
| 20 | 2 | 8 | 18 | 16 | 23 | 180 | 124 | 40 | 29 | 5 | 26 | 5 |
| 21 | 2 | 7 | 15 | 18 | 22 | 191 | 129 | 50 | 29 | 5 | 25 | 4 |
| 22 | 2 | 7 | 18 | 14 | 22 | 137 | 126 | 53 | 26 | 5 | 23 | 4 |
| 23 | 2 | 7 | 16 | 16 | 22 | 111 | 126 | 45 | 29 | 4 | 22 | 6 |
| 24 | 2 | 7 | 17 | 17 | 22 | 100 | 115 | 35 | 31 | 8 | 20 | 5 |
| 25 | 2 | 6 | 17 | 21 | 22 | 118 | 110 | 36 | 32 | 17 | 20 | 5 |
| 26 | 2 | 6 | 17 | 15 | 23 | 120 | 108 | 37 | 33 | 16 | 19 | 4 |
| 27 | 2 | 6 | 16 | 15 | 22 | 191 | 105 | 32 | 33 | 16 | 21 | 3 |
| 28 | 2 | 6 | 14 | 15 | 22 | 262 | 103 | 32 | 37 | 15 | 20 | 2 |
| 29 | 2 | 8 | 15 | 15 | | 415 | 100 | 30 | 41 | 14 | 18 | 2 |
| 30 | 2 | 9 | 15 | 16 | | 382 | 99 | 30 | 99 | 16 | 17 | 2 |
| 31 | 10 | | 27 | 16 | | 304 | | 29 | | 16 | 16 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 10 | 2 | 2.3 | 139 | | |
| November | | | | | | | 27 | 6 | 8.1 | 482 | | |
| December | | | | | | | 27 | 4 | 14.3 | 879 | | |
| January | | | | | | | 24 | 9 | 15.4 | 947 | | |
| February | | | | | | | 30 | 15 | 21.8 | 1,210 | | |
| March | | | | | | | 415 | 21 | 113 | 6,950 | | |
| April | | | | | | | 262 | 87 | 127 | 7,560 | | |
| May | | | | | | | 97 | 29 | 59.4 | 3,650 | | |
| June | | | | | | | 99 | 27 | 34.3 | 2,040 | | |
| July | | | | | | | 208 | 4 | 67.5 | 4,150 | | |
| August | | | | | | | 28 | 16 | 23.5 | 1,440 | | |
| September | | | | | | | 15 | 2 | 7.1 | 421 | | |
| The year | | | | | | | 415 | 2 | 41.3 | 29,900 | | |

Deep Creek above Adel, Oreg.

Location.- Water-stage recorder in E $\frac{1}{2}$ sec. 15, T. 39 S., R. 23 E., a third of a mile below Drake Creek and 5 miles west of Adel.

Records available.- September 1922 to September 1923, October 1932 to September 1934. Records October 1929 to September 1932 available in office of State engineer.

Extremes.- Maximum discharge during year, 442 second-feet Mar. 29 (gage height, 3.17 feet); minimum, 1.7 second-feet July 20, 27-29 (gage height, 0.27 foot).
1922-23, 1932-34: Maximum discharge, that of Mar. 29, 1934; minimum, that of July 20, 27-29, 1934. Maximum discharge known, 4,950 second-feet Mar. 2, 1910, observed at station 5 miles downstream at Adel.

Remarks.- Records good except those partly or entirely estimated, Dec. 8, 9, Jan. 3, 4, 24-28, which are fair. Stage discharge relation slightly affected by ice Dec. 8, 9. Diversions for irrigation above station.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 7 | 20 | 10 | 26 | 32 | 49 | 203 | 89 | 26 | 3.8 | 2.0 | 2.6 |
| 2 | 7 | 18 | 11 | 29 | 31 | 56 | 164 | 82 | 23 | 3.6 | 2.0 | 2.4 |
| 3 | 7 | 18 | 11 | 45 | 32 | 72 | 150 | 71 | 19 | 3.2 | 2.0 | 2.4 |
| 4 | 7 | 16 | 10 | 44 | 31 | 65 | 128 | 61 | 16 | 3.2 | 2.0 | 2.4 |
| 5 | 7 | 14 | 11 | 39 | 37 | 80 | 112 | 49 | 14 | 3.0 | 2.0 | 2.4 |
| 6 | 7 | 13 | 10 | 28 | 41 | 94 | 107 | 41 | 19 | 2.8 | 2.2 | 2.4 |
| 7 | 7 | 13 | 10 | 22 | 42 | 71 | 104 | 38 | 38 | 2.6 | 2.2 | 2.4 |
| 8 | 7 | 13 | 9 | 23 | 45 | 60 | 107 | 42 | 31 | 2.6 | 2.2 | 2.6 |
| 9 | 7 | 12 | 11 | 18 | 36 | 61 | 106 | 56 | 26 | 2.6 | 1.9 | 2.6 |
| 10 | 7 | 12 | 14 | 18 | 36 | 61 | 107 | 48 | 19 | 2.4 | 1.8 | 2.8 |
| 11 | 8 | 12 | 15 | 14 | 41 | 62 | 107 | 41 | 13 | 2.2 | 1.8 | 2.8 |
| 12 | 8 | 11 | 21 | 14 | 38 | 66 | 106 | 33 | 12 | 2.0 | 2.0 | 2.8 |
| 13 | 8 | 11 | 23 | 15 | 40 | 70 | 104 | 30 | 11 | 2.0 | 1.9 | 2.8 |
| 14 | 8 | 11 | 12 | 18 | 37 | 72 | 102 | 28 | 10 | 2.0 | 1.9 | 2.8 |
| 15 | 8 | 12 | 12 | 16 | 38 | 79 | 101 | 24 | 8 | 2.0 | 1.9 | 3.0 |
| 16 | 8 | 12 | 6 | 18 | 38 | 88 | 94 | 21 | 6 | 2.2 | 1.9 | 2.8 |
| 17 | 9 | 11 | 9 | 17 | 34 | 71 | 65 | 22 | 6 | 2.2 | 1.9 | 2.8 |
| 18 | 9 | 10 | 10 | 20 | 33 | 68 | 80 | 20 | 5 | 2.2 | 2.0 | 2.8 |
| 19 | 9 | 10 | 12 | 26 | 35 | 76 | 75 | 18 | 4.6 | 2.0 | 2.0 | 2.6 |
| 20 | 9 | 12 | 12 | 26 | 43 | 71 | 69 | 16 | 4.6 | 1.9 | 2.0 | 2.6 |
| 21 | 9 | 11 | 14 | 29 | 41 | 72 | 66 | 16 | 4.3 | 2.0 | 2.0 | 2.6 |
| 22 | 9 | 11 | 18 | 52 | 42 | 75 | 65 | 15 | 4.0 | 2.2 | 2.0 | 2.8 |
| 23 | 9 | 11 | 21 | 114 | 44 | 71 | 70 | 14 | 3.6 | 2.2 | 2.0 | 3.6 |
| 24 | 9 | 11 | 20 | | 42 | 66 | 89 | 12 | 3.6 | 2.2 | 2.0 | 4.0 |
| 25 | 9 | 11 | 18 | | 38 | 85 | 84 | 12 | 3.6 | 2.0 | 2.0 | 4.0 |
| 26 | 9 | 11 | 18 | 48 | 37 | 101 | 72 | 16 | 4.6 | 2.0 | 2.0 | 3.6 |
| 27 | 9 | 11 | 17 | | 42 | 101 | 63 | 17 | 8 | 2.0 | 2.2 | 3.6 |
| 28 | 10 | 10 | 16 | | 49 | 369 | 55 | 16 | 6 | 1.9 | 2.4 | 3.6 |
| 29 | 12 | 10 | 19 | 35 | | 393 | 47 | 16 | 6 | 1.9 | 2.8 | 3.6 |
| 30 | 31 | 9 | 26 | 35 | | 257 | 57 | 18 | 4.6 | 1.9 | 2.8 | 3.4 |
| 31 | 25 | | 28 | 30 | | 244 | | 18 | | 2.0 | 2.6 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 31 | 7 | 9.5 | 585 | | |
| November | | | | | | | 20 | 9 | 12.2 | 728 | | |
| December | | | | | | | 28 | 8 | 14.7 | 904 | | |
| January | | | | | | | 114 | 14 | 32.7 | 2,010 | | |
| February | | | | | | | 49 | 31 | 36.4 | 2,130 | | |
| March | | | | | | | 393 | 49 | 104 | 6,400 | | |
| April | | | | | | | 205 | 47 | 96.0 | 5,710 | | |
| May | | | | | | | 89 | 12 | 32.3 | 1,980 | | |
| June | | | | | | | 38 | 3.6 | 12.0 | 713 | | |
| July | | | | | | | 3.8 | 1.9 | 2.35 | 144 | | |
| August | | | | | | | 2.8 | 1.8 | 2.08 | 128 | | |
| September | | | | | | | 4.0 | 2.4 | 2.92 | 174 | | |
| The year | | | | | | | 393 | 1.8 | 29.8 | 21,610 | | |

Chewaucan River above Conn Ditch, near Paisley, Oreg.

Location.- Water-stage recorder in SW $\frac{1}{4}$ sec. 27, T. 33 S., R. 18 E., at bridge 20 feet below power plant of R. R. Severin, 700 feet above diversion dam of Conn Ditch, a quarter of a mile below mouth of Mill Creek, and 2 $\frac{1}{2}$ miles west of Paisley.

Drainage area.- 266 square miles.

Records available.- April to September 1912, May 1924 to September 1934. Records at stations giving practically same yearly run-off are available January 1905 to December 1907, January 1909 to September 1921.

Average discharge.- 24 years (1905-7, 1909-21, 1924-34), 131 second-feet.

Extremes.- Maximum discharge during year, 537 second-feet Mar. 28 (gage height, 3.44 feet); minimum, 0.5 second-foot some time during period Aug. 12-17 (gage height, 0.89 foot); minimum daily discharge, 7 second-feet July 30, 31.
1905-7, 1909-21, 1924-34: Maximum discharge (estimated), 4,000 second-feet Nov. 23, 1909 (gage height, 9.40 feet at former station); frozen dry part of Dec. 7, 1927, Dec. 12, 1932; minimum daily discharge not determined.

Remarks.- Records good except those for period July 10 to Sept. 25, and those estimated, which are fair. Stage-discharge relation affected by ice Nov. 30 to Dec. 3, Dec. 17. Low flow partly regulated by power plant above station. About 180 acres are irrigated above station.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 20 | 40 | *18 | 41 | 50 | 58 | 284 | 136 | *60 | *19 | 8 | *12 |
| 2 | 20 | 37 | *26 | 47 | 47 | 70 | 262 | 125 | *45 | 20 | 9 | 12 |
| 3 | 20 | 40 | 34 | 72 | 49 | 88 | 227 | 114 | 44 | 20 | 10 | 12 |
| 4 | 20 | 36 | 30 | 64 | 48 | 83 | 213 | 105 | 44 | 19 | *10 | 11 |
| 5 | 20 | 28 | 30 | 43 | 53 | 96 | 204 | 96 | 42 | 18 | 9 | 12 |
| 6 | 20 | 27 | 36 | 30 | 68 | 125 | 199 | 93 | 57 | 19 | 9 | 12 |
| 7 | 19 | 33 | 40 | 22 | 64 | 100 | 196 | 93 | 73 | 18 | 9 | *12 |
| 8 | 19 | 30 | 40 | 33 | 76 | 91 | 190 | 107 | 56 | 18 | 11 | *14 |
| 9 | 19 | 28 | 28 | 25 | 53 | 91 | 188 | 108 | 47 | 18 | 11 | *15 |
| 10 | 19 | 27 | 30 | 36 | 48 | 93 | 188 | 91 | 40 | 18 | 11 | 16 |
| 11 | 20 | 27 | 34 | 32 | 67 | 94 | 190 | 80 | | 17 | 11 | 16 |
| 12 | 20 | 26 | 44 | 26 | *58 | 105 | 193 | 74 | | 17 | *11 | 16 |
| 13 | 20 | 28 | 53 | 43 | 57 | 110 | 188 | 71 | | 17 | *11 | 15 |
| 14 | 20 | 29 | 32 | 44 | 52 | 117 | 193 | 68 | *32 | *17 | *11 | 15 |
| 15 | 20 | 31 | 25 | 53 | 60 | 128 | 188 | 63 | | *16 | *11 | 16 |
| 16 | 20 | 27 | 23 | 26 | 53 | 136 | 180 | 61 | | 16 | *11 | 15 |
| 17 | 21 | 26 | *32 | 36 | 52 | 117 | 170 | 60 | 28 | 15 | *11 | 14 |
| 18 | 21 | 22 | 45 | 40 | 50 | 121 | 165 | 60 | 28 | 14 | *11 | 15 |
| 19 | 22 | 24 | 48 | 41 | 50 | 130 | 157 | 57 | 28 | 14 | *11 | 15 |
| 20 | 22 | 31 | 44 | 50 | 57 | 128 | 153 | 54 | 27 | 13 | 11 | 15 |
| 21 | 21 | 23 | 49 | 38 | 48 | 136 | 150 | 53 | 27 | 14 | 11 | 15 |
| 22 | 21 | 24 | 49 | 50 | 53 | 136 | 150 | 49 | 25 | 12 | 11 | 16 |
| 23 | 23 | 23 | 43 | 100 | 57 | 136 | 165 | 47 | *24 | *12 | 11 | 16 |
| 24 | 23 | 23 | 38 | 58 | 54 | 132 | 162 | 43 | 23 | *11 | 11 | 19 |
| 25 | 22 | 26 | 34 | 63 | 50 | 165 | 150 | 43 | 23 | *11 | 11 | 19 |
| 26 | 23 | 25 | 35 | 67 | 54 | 165 | 132 | *60 | 25 | *10 | 11 | 18 |
| 27 | 23 | 23 | 34 | 49 | 57 | 180 | 123 | 53 | 29 | *10 | 11 | 17 |
| 28 | 25 | 23 | 28 | 44 | 67 | 445 | 116 | 49 | 23 | *9 | 12 | 18 |
| 29 | 60 | 16 | 45 | 48 | | 471 | 110 | 47 | 18 | 9 | *12 | 17 |
| 30 | 77 | *15 | 47 | 48 | | 361 | 117 | 53 | *18 | 7 | *12 | 16 |
| 31 | 53 | | 43 | 44 | | 321 | | 45 | | 7 | *12 | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 77 | 19 | 25.0 | 1,540 | | |
| November | | | | | | | 40 | 15 | 27.3 | 1,620 | | |
| December | | | | | | | 53 | 18 | 36.7 | 2,260 | | |
| January | | | | | | | 100 | 22 | 44.9 | 2,760 | | |
| February | | | | | | | 76 | 47 | 55.4 | 3,080 | | |
| March | | | | | | | 471 | 58 | 153 | 9,390 | | |
| April | | | | | | | 284 | 110 | 177 | 10,520 | | |
| May | | | | | | | 136 | 43 | 72.8 | 4,480 | | |
| June | | | | | | | 78 | 18 | 35.0 | 2,080 | | |
| July | | | | | | | 20 | 7 | 14.7 | 902 | | |
| August | | | | | | | 12 | 8 | 10.7 | 659 | | |
| September | | | | | | | 19 | 11 | 15.0 | 895 | | |
| The year | | | | | | | 471 | 7 | 55.5 | 40,180 | | |

*Estimated.

Silver Creek near Silver Lake, Oreg.

Location.- Water-stage recorder in SW $\frac{1}{4}$ sec. 28, T. 23 S., R. 14 E., $1\frac{1}{2}$ miles below diversion dam of Silver Lake Irrigation District, $1\frac{1}{2}$ miles southwest of Silver Lake post office, and 3 miles above mouth of Bridge Creek. Zero of gage is 4,361.28 feet above mean sea level.

Drainage area.- 221 square miles.

Records available.- December 1904 to March 1907, January 1909 to September 1934.

Average discharge.- 24 years (1905-6, 1909-27, 1929-34), 26.1 second-feet.

Extremes.- Maximum discharge during year, 18 second-feet May 11 (gage height, 2.06 feet); no flow July 25 to Sept. 30, 1904-7, 1909-34; Maximum discharge, 910 second-feet Nov. 23, 1909 (gage height, 7.4 feet); no flow July 5 to Sept. 30, 1931, Oct. 21, 1931, Sept. 13, 1932, July 25 to Sept. 30, 1934.

Remarks.- Records good except those estimated because of ice, Nov. 29, 30, Dec. 1, 4, 5, 8, 16, 17, Jan. 11, which are fair. Silver Lake Irrigation District Canal diverts water above gages during irrigation season. Diversion dam $1\frac{1}{2}$ miles above gage impounds about 800 acre-feet; also storage in Thompson Valley Reservoir.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 1.6 | 2.3 | 1.3 | 2.0 | 2.3 | 2.0 | 7.8 | 13 | 14 | 1.4 | | |
| 2 | 1.6 | 2.3 | 1.2 | 2.2 | 2.3 | 2.2 | 6.6 | 10 | 14 | 1.0 | | |
| 3 | 1.4 | 2.3 | 1.2 | 2.2 | 2.3 | 2.2 | 7.4 | 12 | 14 | .8 | | |
| 4 | 1.2 | 2.3 | 1.2 | 2.2 | 2.3 | 2.2 | 8.6 | 12 | 14 | .6 | | |
| 5 | 1.1 | 2.2 | 1.2 | 2.3 | 2.3 | 2.3 | 9.0 | 10 | 14 | .5 | | |
| 6 | 1.0 | 2.2 | 1.2 | 2.3 | 2.3 | 2.3 | 11 | 7.8 | 12 | .4 | | |
| 7 | .8 | 2.2 | 1.2 | 2.2 | 2.3 | 2.3 | 12 | 9.0 | 11 | .4 | | |
| 8 | .8 | 2.2 | 1.3 | 2.3 | 2.3 | 2.3 | 9.5 | 14 | 12 | .4 | | |
| 9 | .7 | 2.2 | 1.4 | 2.3 | 2.3 | 2.3 | 7.8 | 14 | 12 | .5 | | |
| 10 | .8 | 2.2 | 1.6 | 2.2 | 2.3 | 2.3 | 7.4 | 14 | 11 | .4 | | |
| 11 | .8 | 2.2 | 1.6 | 2.3 | 2.2 | 2.3 | 5.5 | 15 | 10 | .4 | | |
| 12 | .8 | 2.2 | 1.7 | 2.3 | 2.0 | 2.3 | 5.5 | 14 | 9.0 | .3 | | |
| 13 | .8 | 2.2 | 1.9 | 2.0 | 2.0 | 2.3 | 7.0 | 13 | 8.6 | .2 | | |
| 14 | .9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.3 | 8.2 | 12 | 8.2 | .2 | | |
| 15 | .9 | 2.0 | 2.2 | 2.0 | 2.0 | 2.3 | 8.2 | 13 | 5.5 | .2 | | |
| 16 | 1.1 | 2.0 | 2.3 | 2.0 | 2.0 | 2.3 | 7.4 | 12 | 2.3 | .2 | | |
| 17 | 1.2 | 2.2 | 2.3 | 2.0 | 2.0 | 2.3 | 7.0 | 11 | 1.0 | .1 | | |
| 18 | 1.2 | 2.2 | 2.4 | 2.0 | 2.0 | 2.3 | 6.2 | 8.6 | 1.2 | .1 | | |
| 19 | 1.4 | 2.2 | 2.3 | 2.0 | 2.0 | 2.3 | 5.5 | 11 | 2.2 | .1 | | |
| 20 | 1.4 | 1.8 | 2.2 | 2.0 | 2.2 | 2.0 | 5.2 | 9.5 | 1.2 | .1 | | |
| 21 | 1.4 | 1.8 | 1.8 | 2.0 | 2.0 | 2.0 | 4.8 | 9.5 | .8 | .1 | | |
| 22 | 1.6 | 1.7 | 1.8 | 2.0 | 2.0 | 1.7 | 4.8 | 12 | .8 | .1 | | |
| 23 | 1.6 | 1.7 | 1.8 | 2.2 | 2.0 | 1.7 | 2.2 | 12 | 1.0 | .1 | | |
| 24 | 1.6 | 1.6 | 1.8 | 2.3 | 2.0 | 1.7 | 2.6 | 12 | 1.1 | .1 | | |
| 25 | 1.7 | 1.6 | 1.8 | 2.3 | 2.0 | 2.0 | 4.2 | 12 | 1.1 | 0 | | |
| 26 | 1.7 | 1.6 | 1.7 | 2.3 | 1.8 | 1.8 | 11 | 12 | 2.2 | 0 | | |
| 27 | 1.7 | 1.6 | 1.7 | 2.3 | 1.8 | 2.2 | 12 | 12 | 2.6 | 0 | | |
| 28 | 1.7 | 1.6 | 1.8 | 2.3 | 1.8 | 2.2 | 12 | 14 | 2.4 | 0 | | |
| 29 | 1.8 | 1.5 | 1.9 | 2.3 | | 2.4 | 12 | 14 | 2.2 | 0 | | |
| 30 | 2.3 | 1.4 | 1.8 | 2.3 | | 2.4 | 14 | 14 | 1.7 | 0 | | |
| 31 | 2.3 | | 1.8 | 2.3 | | 3.9 | | 14 | | 0 | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 2.3 | 0.7 | 1.32 | 81 | | |
| November | | | | | | | 2.3 | 1.4 | 1.98 | 118 | | |
| December | | | | | | | 2.4 | 1.2 | 1.72 | 106 | | |
| January | | | | | | | 2.3 | 2.0 | 2.17 | 134 | | |
| February | | | | | | | 2.3 | 1.8 | 2.10 | 117 | | |
| March | | | | | | | 3.9 | 1.7 | 2.23 | 137 | | |
| April | | | | | | | 14 | 2.2 | 7.75 | 461 | | |
| May | | | | | | | 15 | 7.8 | 12.0 | 739 | | |
| June | | | | | | | 14 | .8 | 6.44 | 383 | | |
| July | | | | | | | 1.4 | 0 | .28 | 17 | | |
| August | | | | | | | 0 | 0 | 0 | 0 | | |
| September | | | | | | | 0 | 0 | 0 | 0 | | |
| The year | | | | | | | 15 | 0 | 3.17 | 2,290 | | |

Note.- No flow during months left blank.

Silver Lake Irrigation District Canal near Silver Lake, Oreg.

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

Records available.- October 1922 to September 1928, October 1930 to September 1934.

Extremes.- Maximum discharge during year, 19 second-feet May 15 (gage height, 1.10 feet); no flow at times.
1923-28, 1930-34: Maximum discharge, 60 second-feet June 26-29, 1923; no flow at times.

Remarks.- Records good. Discharge interpolated May 13, 14. Canal diverts from Silver Creek water released from storage in Thompson Valley Reservoir.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|------|---------|---------|-------|----------------------|-------|
| 1 | | | | | | | | 2 | | | | |
| 2 | | | | | | | | 4 | | | | |
| 3 | | | | | | | | 4 | | | | |
| 4 | | | | | | | | 4 | | | | |
| 5 | | | | | | | | 4 | | | | |
| 6 | | | | | | | | 4 | | | | |
| 7 | | | | | | | | 6 | | | | |
| 8 | | | | | | | | 10 | | | | |
| 9 | | | | | | | | 14 | | | | |
| 10 | | | | | | | | 15 | | | | |
| 11 | | | | | | | | 15 | | | | |
| 12 | | | | | | | | 17 | | | | |
| 13 | | | | | | | | 18 | | | | |
| 14 | | | | | | | | 18 | | | | |
| 15 | | | | | | | | 19 | | | | |
| 16 | | | | | | | | 18 | | | | |
| 17 | | | | | | | | 8 | | | | |
| 18 | | | | | | | | 0 | | | | |
| 19 | | | | | | | | 0 | | | | |
| 20 | | | | | | | | 0 | | | | |
| 21 | | | | | | | | 0 | | | | |
| 22 | | | | | | | | 0 | | | | |
| 23 | | | | | | | | 0 | | | | |
| 24 | | | | | | | | 0 | | | | |
| 25 | | | | | | | | 0 | | | | |
| 26 | | | | | | | | 0 | | | | |
| 27 | | | | | | | | 0 | | | | |
| 28 | | | | | | | | 0 | | | | |
| 29 | | | | | | | | 0 | | | | |
| 30 | | | | | | | | 0 | | | | |
| 31 | | | | | | | | 0 | | | | |
| Month | | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | |
| October | | | | | | | | 0 | 0 | 0 | 0 | |
| November | | | | | | | | 0 | 0 | 0 | 0 | |
| December | | | | | | | | 0 | 0 | 0 | 0 | |
| January | | | | | | | | 0 | 0 | 0 | 0 | |
| February | | | | | | | | 0 | 0 | 0 | 0 | |
| March | | | | | | | | 0 | 0 | 0 | 0 | |
| April | | | | | | | | 0 | 0 | 0 | 0 | |
| May | | | | | | | | 19 | 0 | 5.8 | 357 | |
| June | | | | | | | | 0 | 0 | 0 | 0 | |
| July | | | | | | | | 0 | 0 | 0 | 0 | |
| August | | | | | | | | 0 | 0 | 0 | 0 | |
| September | | | | | | | | 0 | 0 | 0 | 0 | |
| The year | | | | | | | | 19 | 0 | 0.493 | 357 | |

Note.- No flow during months left blank.

Silvies River near Burns, Oreg.

Location.- Water-stage recorder in or near SE $\frac{1}{4}$ sec. 25, T. 21 S., R. 29 E., 1 mile below dam site for proposed lower Silvies Reservoir and 11 miles northwest of Burns. Staff gage in sec. 7, T. 22 S., R. 30 E., at Parker ranch, sometimes used during winter.

Drainage area.- 940 square miles.

Records available.- May 1903 to July 1906, December 1908 to September 1934.

Average discharge.- 21 years (1903-5, 1909-12, 1917-21, 1922-34), 135 second-feet.

Extremes.- Maximum discharge during year (estimated), 75 second-feet Dec. 31 (gage height, 2.16 feet); no flow July 19 to Sept. 22.
1903-5, 1908-34: Maximum discharge, 4,730 second-feet Apr. 15, 1904 (gage height, 17.12 feet, original datum); no flow July 19 to Sept. 22, 1934.

Remarks.- Records good. Discharge partly estimated Dec. 31 and interpolated Jan. 8, because of ice; also estimated Sept. 23-28. A large area on headwaters of Silvies River is irrigated with flood water.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 4.5 | 20 | 14 | 43 | 39 | 44 | 23 | 10 | 2.3 | 1.1 | | 0 |
| 2 | 4.8 | 18 | 13 | 42 | 37 | 44 | 22 | 10 | 2.6 | 1.0 | | 0 |
| 3 | 5.2 | 16 | 16 | 47 | 38 | 46 | 21 | 9.5 | 3.2 | .8 | | 0 |
| 4 | 5.5 | 16 | 18 | 48 | 37 | 50 | 20 | 9.2 | 4.0 | .5 | | 0 |
| 5 | 5.5 | 16 | 19 | 46 | 38 | 42 | 18 | 8.8 | 4.5 | .5 | | 0 |
| 6 | 5.2 | 15 | 20 | 38 | 43 | 46 | 16 | 8.1 | 4.8 | .6 | | 0 |
| 7 | 5.0 | 13 | 21 | 38 | 48 | 51 | 16 | 8.1 | 4.5 | 2.4 | | 0 |
| 8 | 5.0 | 16 | 22 | 36 | 50 | 43 | 14 | 7.8 | 4.2 | 1.6 | | 0 |
| 9 | 5.2 | 18 | 21 | 34 | 51 | 39 | 13 | 7.8 | 4.2 | 1.2 | | 0 |
| 10 | 5.2 | 17 | 21 | 35 | 45 | 38 | 8.1 | 8.4 | 3.5 | 1.0 | | 0 |
| 11 | 5.5 | 16 | 22 | 32 | 38 | 35 | 6.0 | 8.1 | 3.0 | .8 | | 0 |
| 12 | 5.2 | 15 | 24 | 29 | 40 | 34 | 6.4 | 7.4 | 2.9 | .6 | | 0 |
| 13 | 5.5 | 16 | 29 | 30 | 41 | 34 | 7.0 | 7.0 | 2.6 | .5 | | 0 |
| 14 | 5.5 | 16 | 29 | 34 | 41 | 34 | 7.6 | 6.4 | 2.2 | .4 | | 0 |
| 15 | 5.8 | 16 | 27 | 36 | 41 | 34 | 7.8 | 5.8 | 1.8 | .3 | | 0 |
| 16 | 6.0 | 12 | 24 | 34 | 41 | 33 | 8.4 | 5.2 | 1.6 | .2 | | 0 |
| 17 | 6.4 | 12 | 22 | 33 | 40 | 24 | 8.4 | 4.8 | 1.5 | .2 | | 0 |
| 18 | 6.4 | 14 | 24 | 35 | 40 | 22 | 8.4 | 4.8 | 1.4 | .1 | | 0 |
| 19 | 7.0 | 9.5 | 26 | 35 | 40 | 20 | 8.1 | 4.2 | 1.2 | 0 | | 0 |
| 20 | 8.1 | 14 | 26 | 39 | 41 | 19 | 8.1 | 4.0 | 1.1 | 0 | | 0 |
| 21 | 8.1 | 8.8 | 26 | 38 | 41 | 20 | 8.1 | 3.5 | 1.0 | 0 | | 0 |
| 22 | 8.1 | 12 | 30 | 40 | 40 | 20 | 8.1 | 3.5 | 1.0 | 0 | | 0 |
| 23 | 8.4 | 10 | 33 | 46 | 40 | 14 | 8.1 | 3.2 | .8 | 0 | | 0 |
| 24 | 8.4 | 16 | 33 | 46 | 43 | 11 | 9.2 | 2.9 | .6 | 0 | | 2.0 |
| 25 | 8.8 | 18 | 38 | 50 | 43 | 14 | 11 | 2.8 | .5 | 0 | | 0 |
| 26 | 9.2 | 26 | 36 | 50 | 41 | 14 | 12 | 2.6 | .8 | 0 | | 0 |
| 27 | 9.5 | 20 | 41 | 44 | 42 | 16 | 13 | 2.3 | 1.0 | 0 | | 0 |
| 28 | 9.5 | 16 | 37 | 47 | 43 | 18 | 13 | 2.2 | 1.5 | 0 | | 0 |
| 29 | 12 | 18 | 37 | 40 | | 23 | 11 | 2.0 | 1.6 | 0 | | 2.8 |
| 30 | 16 | 16 | 41 | 48 | | 26 | 10 | 1.9 | 1.3 | 0 | | 2.9 |
| 31 | 17 | | 49 | 38 | | 24 | | 2.0 | | 0 | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 17 | 4.5 | 7.34 | 451 | | |
| November | | | | | | | 26 | 8.8 | 15.5 | 925 | | |
| December | | | | | | | 49 | 13 | 27.1 | 1,670 | | |
| January | | | | | | | 50 | 29 | 39.7 | 2,440 | | |
| February | | | | | | | 51 | 37 | 41.5 | 2,300 | | |
| March | | | | | | | 51 | 11 | 30.0 | 1,850 | | |
| April | | | | | | | 23 | 6.0 | 11.7 | 696 | | |
| May | | | | | | | 10 | 1.9 | 5.62 | 346 | | |
| June | | | | | | | 4.8 | .5 | 2.24 | 133 | | |
| July | | | | | | | 2.4 | 0 | .45 | 27 | | |
| August | | | | | | | 0 | 0 | 0 | 0 | | |
| September | | | | | | | 2.9 | 0 | .59 | 35 | | |
| The year | | | | | | | 51 | 0 | 15.0 | 10,870 | | |

Note.- No flow during August.

Trout Creek near Denio, Oreg.

Location.- Water-stage recorder in SW $\frac{1}{4}$ sec. 26, T. 39 S., R. 36 E., 0.4 mile above bridge at mouth of canyon, 5 miles east of Trout Creek ranch, and 14 miles north-east of Denio.

Records available.- March 1911 to March 1912, April 1922 to November 1923, April 1925 to September 1934 (incomplete).

Discharge.- Maximum discharge during period, 24 second-feet Mar. 29 (gage height, 2.25 feet); minimum (estimated), 0.1 second-foot Aug. 1 to Sept. 28.

1911-12, 1922-23, 1925-34: Maximum discharge, 343 second-feet Aug. 1, 1933: probably no flow at times.

Maximum stage known, 6.0 feet (caused by cloud-burst), between 1922 and 1932.

Remarks.- Records good except those estimated, Jan. 10, Aug. 2 to Sept. 11, Sept. 13-27, which are fair. Field estimate, Sept. 12. Stage-discharge relation affected by ice Jan. 10. A little water is diverted for irrigating small ranch fields above station; large irrigation diversions below.

Discharge, in second-feet, 1933-34

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|---------|---------|------|----------------------|------|-------|
| 1 | 1.8 | 5.3 | 2.5 | 4.6 | 4.4 | 5.1 | 13 | 10 | 2.0 | 2.0 | 0.1 | |
| 2 | 1.9 | 5.5 | 4.0 | 4.6 | 4.2 | 5.3 | 13 | 8.6 | 2.1 | 2.2 | | |
| 3 | 1.9 | 5.1 | 5.5 | 5.8 | 4.2 | 6.6 | 12 | 6.9 | 2.8 | 2.0 | | |
| 4 | 1.8 | 4.8 | 4.4 | 5.3 | 4.2 | 6.4 | 10 | 5.1 | 2.9 | 1.8 | | |
| 5 | 1.8 | 4.0 | 2.6 | 4.6 | 4.2 | 6.4 | 9.5 | 4.8 | 4.0 | 1.7 | | |
| 6 | 1.8 | 4.0 | 4.4 | 2.9 | 4.2 | 7.3 | 8.9 | 5.5 | 5.3 | 1.7 | | 0.1 |
| 7 | 1.8 | 4.6 | 4.2 | 2.4 | 4.2 | 6.9 | 8.9 | 4.8 | 4.6 | 1.5 | | |
| 8 | 1.8 | 4.4 | 3.5 | 2.2 | 4.8 | 6.4 | 12 | 5.3 | 4.2 | 1.2 | | |
| 9 | 1.8 | 4.4 | 4.0 | 3.0 | 4.2 | 6.0 | 12 | 5.1 | 3.7 | 1.1 | | |
| 10 | 1.8 | 4.4 | 3.8 | 2.9 | 3.1 | 6.0 | 9.7 | 4.8 | 3.0 | 1.1 | | |
| 11 | 2.4 | 4.2 | 3.8 | 2.8 | 3.1 | 5.8 | 12 | 4.2 | 3.0 | 1.1 | | |
| 12 | 2.9 | 4.0 | 4.0 | 2.7 | 4.4 | 5.8 | 12 | 3.7 | 2.7 | 1.2 | | .1 |
| 13 | 2.9 | 4.0 | 4.6 | 5.1 | 4.2 | 5.8 | 11 | 3.0 | 3.1 | 1.1 | | |
| 14 | 3.0 | 4.0 | 3.7 | 5.1 | 4.8 | 5.8 | 14 | 4.2 | 2.1 | 1.1 | | |
| 15 | 3.1 | 4.0 | 3.7 | 4.6 | 5.1 | 6.2 | 12 | 2.8 | 2.4 | 1.1 | | |
| 16 | 3.1 | 4.0 | 1.8 | 4.0 | 6.2 | 5.8 | 13 | 6.4 | 2.1 | 1.0 | .1 | |
| 17 | 3.3 | 4.0 | 2.5 | 4.4 | 5.8 | 5.3 | 11 | 5.5 | 2.2 | .9 | | |
| 18 | 3.5 | 3.5 | 5.1 | 4.4 | 5.3 | 5.1 | 11 | 5.5 | 2.2 | .9 | | |
| 19 | 3.5 | 3.5 | 5.5 | 4.4 | 5.5 | 5.1 | 9.5 | 5.5 | 2.0 | .9 | | |
| 20 | 3.1 | 4.0 | 4.6 | 4.6 | 5.8 | 5.3 | 9.2 | 5.3 | 1.8 | .8 | | .1 |
| 21 | 3.5 | 3.8 | 4.4 | 4.0 | 5.8 | 5.8 | 8.6 | 4.8 | 1.4 | .8 | | |
| 22 | 3.7 | 3.8 | 4.6 | 4.6 | 5.5 | 4.8 | 9.2 | 3.7 | 1.3 | .8 | | |
| 23 | 3.8 | 3.8 | 4.4 | 5.1 | 5.8 | 5.1 | 12 | 2.5 | 1.5 | .8 | | |
| 24 | 3.8 | 3.7 | 4.4 | 4.0 | 5.8 | 3.8 | 14 | 2.2 | 1.4 | .7 | | |
| 25 | 3.5 | 3.7 | 4.4 | 3.5 | 5.5 | 5.1 | 14 | 2.1 | 1.5 | .6 | | |
| 26 | 3.5 | 3.7 | 4.2 | 5.3 | 5.5 | 5.3 | 12 | 2.1 | 1.8 | .6 | | |
| 27 | 3.3 | 3.7 | 4.4 | 4.4 | 5.3 | 5.8 | 8.1 | 2.4 | 1.9 | .5 | | |
| 28 | 3.3 | 3.5 | 4.4 | 4.0 | 5.3 | 9.2 | 8.6 | 2.4 | 2.2 | .4 | | .1 |
| 29 | 3.8 | 1.8 | 4.2 | 4.0 | | 20 | 8.1 | 2.4 | 1.9 | .3 | | .5 |
| 30 | 8.1 | 1.9 | 4.6 | 4.2 | | 16 | 8.1 | 2.6 | 2.0 | .2 | | .7 |
| 31 | 7.1 | | 4.8 | 3.5 | | 15 | | 2.4 | | .2 | | |
| Month | | | | | | | Maximum | Minimum | Mean | Run-off in acre-feet | | |
| October | | | | | | | 8.1 | 1.8 | 3.11 | 191 | | |
| November | | | | | | | 5.5 | 1.8 | 3.97 | 236 | | |
| December | | | | | | | 5.5 | 1.8 | 4.10 | 252 | | |
| January | | | | | | | 5.8 | 2.2 | 4.10 | 252 | | |
| February | | | | | | | 6.2 | 3.1 | 4.87 | 271 | | |
| March | | | | | | | 20 | 3.1 | 6.85 | 421 | | |
| April | | | | | | | 14 | 8.1 | 10.9 | 647 | | |
| May | | | | | | | 10 | 2.1 | 4.41 | 271 | | |
| June | | | | | | | 5.3 | 1.3 | 2.50 | 149 | | |
| July | | | | | | | 2.2 | .2 | 1.04 | 64 | | |
| August | | | | | | | | | .10 | 6 | | |
| September | | | | | | | .7 | | .13 | 8 | | |
| The year | | | | | | | 20 | | 3.82 | 2,770 | | |

Discharge measurements of streams in the Great Basin made at points other than regular gaging stations during the year ending September 30, 1933, are listed in the following table:

Miscellaneous discharge measurements in the Great Basin during the year ending September 30, 1934.

Bear River Basin

| Date | Stream | Tributary to or diverting from— | Locality | Discharge sec.-ft. |
|---------|---|---------------------------------|--|-----------------------|
| Oct. 15 | Devil Creek (below Evans dividers) | Malad River... | Sec. 35, T. 13 S., R. 36 E., 3 miles northeast of Malad, Idaho. | 0.75 |
| Dec. 17 |do..... |do..... |do..... | .85 |
| Dec. 17 |do..... |do..... |do..... | .84 |
| Mar. 25 |do..... |do..... |do..... | 1.81 |
| Apr. 28 |do..... |do..... |do..... | 1.51 |
| July 19 |do..... |do..... |do..... | 1.29 |
| Sept. 5 |do..... |do..... |do..... | .21 |
| Oct. 15 | Spring Creek (below Evans dividers) | Devil Creek... | Sec. 35, T. 13 S., R. 36 E., 3 miles northeast of Malad, Idaho | 1.79 |
| Dec. 17 |do..... |do..... |do..... | 1.76 |
| Mar. 25 |do..... |do..... |do..... | 4.58 |
| Apr. 28 |do..... |do..... |do..... | 1.86 |
| June 9 |do..... |do..... |do..... | 2.47 |
| July 19 |do..... |do..... |do..... | 2.14 |
| Sept. 5 |do..... |do..... |do..... | 3.86 |

Jordan River Basin

| | | | | |
|----------|------------------------|----------------|---|------|
| Feb. 2 | Factory Race... | Provo River... | SE $\frac{1}{4}$ sec. 12, T. 7 S., R. 2 E., at Municipal Golf Club at Provo, Utah. | 40.7 |
| Sept. 15 | East Jordan Canal | Jordan River.. | NW $\frac{1}{4}$ sec. 26, T. 4 S., R. 1 W., at water commissioner's gaging station, 22 miles south of Salt Lake City, Utah. | 87.4 |
| Sept. 15 | Utah & Salt Lake Canal |do..... | SW $\frac{1}{4}$ sec. 23, T. 4 S., R. 1 W., at water commissioner's gaging station, 22 miles south of Salt Lake City, Utah. | 78.6 |
| June 30 | Crystal Hot Springs |do..... | NE $\frac{1}{4}$ sec. 11, T. 4 S., R. 1 W., at artificial outlet on west side of springs, 19 miles south of Salt Lake City, Utah. | 1.4 |

Beaver River Basin

| | | | | |
|--------|-----------------|--------------|---|------|
| Mar. 7 | Beaver River... | Sevier River | SE $\frac{1}{4}$ sec. 24, T. 29 S., R. 6 W., below tailrace at upper power plant, 9 miles east of Beaver, Utah. | 19.9 |
|--------|-----------------|--------------|---|------|

Salton Sea Basin

| | | | | |
|---------|----------------------|-------------------|---|-----|
| Jan. 2 | Murray Canyon Creek | Palm Canyon Creek | At junction with Palm Canyon Creek, near Palm Springs, Calif. | 4.4 |
| Jan. 10 |do..... |do..... |do..... | .2 |
| Feb. 24 |do..... |do..... |do..... | 4.8 |
| Feb. 28 |do..... |do..... |do..... | .1 |
| Jan. 2 | Andreas Canyon Creek |do..... |do..... | 7.1 |
| Jan. 10 |do..... |do..... |do..... | .8 |
| Jan. 15 |do..... |do..... |do..... | .3 |
| Feb. 24 |do..... |do..... |do..... | 1.4 |
| Jan. 2 | Tahquitz Creek |do..... |do..... | 6.1 |
| Jan. 10 |do..... |do..... |do..... | .1 |
| Nov. 3 | San Felipe Creek | Salton Sink... | At Sentenac highway bridge, near Julian, Calif. | 2.1 |
| Nov. 24 |do..... |do..... |do..... | .9 |

Mojave River Basin

| | | | | |
|--------|-----------------|----------------|------------------------|-----|
| Jan. 3 | Mojave River... | Great Basin... | Near Hodge, Calif..... | 131 |
|--------|-----------------|----------------|------------------------|-----|

Humboldt-Carson Sink Basin

| | | | | |
|---------|------------------------------|----------------|--|------|
| Nov. 19 | South Fork of Humboldt River | Humboldt River | In sec. 30, T. 33 N., R. 55 E., at site of former gaging station "South Fork of Humboldt River near Elko, Nev" | 12.6 |
| Feb. 9 |do..... |do..... |do..... | 24.0 |
| Mar. 21 |do..... |do..... |do..... | 21.2 |
| Mar. 30 |do..... |do..... |do..... | 33.7 |
| Apr. 16 |do..... |do..... |do..... | 59.2 |
| Apr. 20 |do..... |do..... |do..... | 28.3 |
| May 31 |do..... |do..... |do..... | 14.0 |

INDEX

| | Page | | Page |
|--|-------|--|-------|
| Abert Lake Basin, Oreg., gaging-station record in..... | 86 | Crystal Hot Springs, Utah, discharge measurement of..... | 91 |
| Accuracy of data and computed results..... | 5 | Data, accuracy of..... | 5 |
| Acre-foot, definition of..... | 2 | explanation of..... | 2 |
| Adamsville, Utah, Beaver River at..... | 53 | Deep Creek (Bear River Basin) below First Creek, near Malad, Idaho..... | 25 |
| Adel, Oreg., Deep Creek above..... | 85 | Deep Creek (Mojave River Basin) near Hesperia, Calif..... | 57 |
| Alexander, Idaho, Bear River at..... | 14 | Deep Creek (Warner Lakes Basin) above Adel, Oreg..... | 85 |
| Alvord Lake Basin, Oreg., gaging-station record in..... | 90 | Denio, Oreg., Trout Creek near..... | 90 |
| Andreas Canyon Creek, Calif., discharge measurements of..... | 91 | Devil Creek, Idaho, discharge measurements of..... | 91 |
| Antelope Valley Basin, Calif., gaging-station records in..... | 60-61 | near Malad, Idaho..... | 24 |
| Appropriations, record of..... | 1 | Devils Slide, Utah, Weber River at..... | 30 |
| Barstow, Calif., Mojave River at..... | 59 | Donner Creek near Truckee, Calif..... | 84 |
| Bear River at Alexander, Idaho..... | 14 | East Jordan Canal, Utah, discharge measurement of..... | 91 |
| at Harer, Idaho..... | 13 | East Walker River near Bridgeport, Calif..... | 73 |
| discharge measurement of..... | 91 | Echo, Utah, Echo Reservoir at..... | 28 |
| near Collinston, Utah..... | 16 | Weber River at..... | 29 |
| near Evanston, Wyo..... | 12 | Evanston, Wyo., Bear River near..... | 12 |
| near Weston, Idaho..... | 15 | Factory Race (tributary to Provo River), Utah, discharge measurement of..... | 91 |
| Bear River Basin, Idaho-Wyo.-Utah, discharge measurements in..... | 91 | Forks, Utah, Provo River at..... | 39 |
| gaging-station records in..... | 12-25 | South Fork of Provo River at..... | 42 |
| Beaver River at Adamsville, Utah..... | 53 | Fort Churchill, Nev., Carson River near..... | 77 |
| at Rockyford Dam, near Minersville, Utah..... | 54 | Gateway, Utah, Weber River at..... | 31 |
| near Beaver, Utah..... | 52 | Great Salt Lake, gages on..... | 11 |
| Big Pine, Calif., Owens River near..... | 64 | Gunnison, Utah, Sevier River near..... | 47 |
| Bishop, Calif., Owens River near..... | 63 | Hammond (East Side) Canal near Collinston, Utah..... | 23 |
| Pine Creek near..... | 67 | Harer, Idaho, Bear River at..... | 13 |
| Rock Creek near..... | 65 | Hawthorne, Nev., Walker Lake near..... | 71 |
| Blacksmith Fork above Utah Power & Light Co.'s dam near Hyrum, Utah..... | 21 | Hesperia, Calif., Deep Creek near..... | 57 |
| at municipal power plant near Hyrum, Utah..... | 20 | West Fork of Mojave River near..... | 59 |
| Bridgeport, Calif., Bridgeport Reservoir near..... | 72 | Humboldt River at Palisade, Nev..... | 78 |
| East Walker River near..... | 73 | South Fork of, discharge measurements of..... | 91 |
| Burns, Oreg., Silvies River near..... | 89 | Humboldt-Carson Sink Basin, Nev., gaging-station records in..... | 77-80 |
| Carson River near Fort Churchill, Nev..... | 77 | Huntsville, Utah, South Fork of Ogden River near..... | 34 |
| Chalk Creek at Coalville, Utah..... | 33 | Hyrum, Utah, Blacksmith Fork near..... | 20-21 |
| Chewaucan River above Conn Ditch, near Paisley, Oreg..... | 86 | Iceland, Calif., Truckee River at..... | 83 |
| Coalville, Utah, Chalk Creek at..... | 33 | Jordan River near Lehi, Utah..... | 37 |
| Weber River near..... | 27 | Jordan River Basin, Utah, discharge measurements in..... | 91 |
| Coleville, Calif., West Walker River near..... | 75 | gaging-station records in..... | 37-42 |
| Collinston, Utah, Bear River near..... | 16 | Juab, Utah, Sevier Bridge Reservoir near..... | 48 |
| Hammond (East Side) Canal near..... | 23 | Sevier River near..... | 49 |
| West Side Canal near..... | 22 | Kingston, Utah, East Fork of Sevier River near..... | 50 |
| Computations, results of, accuracy of..... | 5 | Sevier River near..... | 43 |
| Control, definition of..... | 2 | | |
| Cooperation, record of..... | 10 | | |
| Cottonwood Creek near Paradise Valley, Nev..... | 80 | | |

| | Page | | Page |
|--|--------|---|-------|
| Lake Tahoe at Tahoe, Calif. | 81 | Rockyford Canal near Vermilion, Utah. | 51 |
| Lehi, Utah, Jordan River near. | 37 | Round Valley, Calif., Owens River near. | 62 |
| Little Rock Creek near Little Rock, Calif. | 61 | Pine Creek near. | 68 |
| Logan, Utah, Logan, Hyde Park & Smith- field Canal near. | 19 | Rock Creek near. | 66 |
| Logan River near. | 17 | Run-off in inches, definition of. | 2 |
| Utah Power & Light Co.'s tailrace near. | 18 | Salt Creek near Nephi, Utah. | 38 |
| Logan River above State dam near Logan, Utah. | 17 | Salton Sea, Calif. | 55 |
| Malad, Idaho, Deep Creek near. | 25 | Salton Sea Basin, Calif., discharge measure- ments in. | 91 |
| Devil Creek near. | 24 | gaging-station records in. | 55-56 |
| Malheur and Harney Lakes Basin, Oreg., gaging-station record in. | 89 | San Felipe Creek, Calif., discharge measure- ments of. | 91 |
| Martin Creek near Paradise Valley, Nev. | 79 | Second-feet per square mile, definition of. | 2 |
| Marysvale, Utah, Piute Reservoir near. | 44 | Second-foot, definition of. | 2 |
| Sevier River near. | 45 | Sevier Bridge Reservoir near Juab, Utah. | 48 |
| Minersville, Utah, Beaver River near. | 54 | Sevier Lake Basin, Utah, gaging-station records in. | 43-51 |
| Mojave River at Barstow, Calif. | 59 | Sevier River below Piute Dam, near Marys- vale, Utah. | 45 |
| at Victorville, Calif. | 58 | below San Pitch River, near Gunnison, Utah. | 47 |
| discharge measurement of. | 91 | East Fork of, near Kingston, Utah. | 50 |
| West Fork of, near Hesperia, Calif. | 59 | near Juab, Utah. | 49 |
| Mojave River Basin, Calif., gaging-station records in. | 57-59 | near Kingston, Utah. | 43 |
| Mono Lake near Mono Lake, Calif. | 69-71 | near Vermilion, Utah. | 46 |
| Murray Canyon Creek, Calif., discharge measurements of. | 91 | Silver Creek near Silver Lake, Oreg. | 87 |
| Nephi, Utah, Salt Creek near. | 38 | Silver Lake, Oreg., Silver Creek near. | 87 |
| Nixon, Nev., Pyramid Lake near. | 81 | Silver Lake Irrigation District Canal near. | 88 |
| Oakley, Utah, Weber River near. | 26 | Silver Lake Basin, Oreg., gaging-station records in. | 87-88 |
| Ogden River near Ogden, Utah. | 35-36 | Silver Lake Irrigation District Canal near Silver Lake, Oreg. | 88 |
| South Fork of, near Huntsville, Utah. | 34 | Silvies River near Burns, Oreg. | 89 |
| Owens Lake Basin, Calif., gaging-station records in. | 62-68 | Southern Pacific Co.'s ditch near White- water, Calif. | 55 |
| Owens River at Pleasant Valley, near Bishop, Calif. | 63 | Spring Creek, Idaho, discharge measurements of. | 91 |
| near Big Pine, Calif. | 64 | Stage-discharge relation, definition of. | 2 |
| near Round Valley, Calif. | 62 | Tahoe, Calif., Lake Tahoe at. | 81 |
| Paisley, Oreg., Chewaucan River near. | 86 | Truckee River at. | 82 |
| Palisade, Nev., Humboldt River at. | 78 | Tahquitz Creek, Calif., discharge measure- ments of. | 91 |
| Palm Canyon Creek near Palm Springs, Calif. | 56 | Terms, definition of. | 2 |
| Palm Springs, Calif., Palm Canyon Creek near. | 56 | Topaz, Calif., Topaz Reservoir near. | 76 |
| Paradise Valley, Nev., Cottonwood Creek near. | 80 | Trout Creek near Denio, Oreg. | 90 |
| Martin Creek near. | 79 | Truckee, Calif., Donner Creek near. | 84 |
| Pine Creek at division box near Bishop, Calif. | 67 | Truckee River at Iceland, Calif. | 83 |
| near Round Valley, Calif. | 68 | at Tahoe, Calif. | 82 |
| Piute Reservoir near Marysvale, Utah. | 44 | Utah & Salt Lake Canal, Utah, discharge measurement of. | 91 |
| Plain City, Utah, Weber River near. | 32 | Utah Power & Light Co.'s tailrace near Logan, Utah. | 18 |
| Provo River at Forks, Utah. | 39 | Valyermo, Calif., Rock Creek near. | 60 |
| at Provo, Utah. | 40 | Vermilion, Utah, Rockyford Canal near. | 51 |
| South Fork of, at Forks, Utah. | 42 | Sevier River near. | 46 |
| Publications, information concerning. | 6-9 | Victorville, Calif., Mojave River at. | 58 |
| obtaining or consulting of. | 6 | Wabuska, Nev., Walker River near. | 74 |
| on stream flow, lists of. | 7-8, 9 | Walker Lake near Hawthorne, Nev. | 71 |
| Pyramid and Winnemucca Lakes Basin, Nev.-Calif., gaging-station rec- ords in. | 81-84 | Walker Lake Basin, Nev.-Calif., gaging station records in. | 71-76 |
| Pyramid Lake near Nixon, Nev. | 81 | Walker River near Wabuska, Nev. | 74 |
| Rock Creek (Antelope Valley Basin) near Valyermo, Calif. | 60 | Warner Lakes Basin, Oreg., gaging-station record in. | 85 |
| Rock Creek (Owens Lake Basin) at Sherwin Hill, near Bishop, Calif. | 65 | Weber River at Devils Slide, Utah. | 30 |
| near Round Valley, Calif. | 66 | at Echo, Utah. | 29 |
| | | at Gateway, Utah. | 31 |

| | Page | | Page |
|--|-------|--|------|
| Weber River near Coalville, Utah..... | 27 | Weston, Idaho, Bear River near..... | 15 |
| near Oakley, Utah..... | 26 | Whitewater, Calif., Southern Pacific Co.'s | |
| near Plain City, Utah..... | 32 | ditch near..... | 55 |
| Weber River Basin, Utah, gaging-station | | Woodland, Utah, Weber-Provo diversion | |
| records in..... | 26-36 | canal near..... | 41 |
| Weber-Provo diversion canal near Woodland, | | Work, authorization of..... | 1 |
| Utah..... | 41 | division of..... | 10 |
| West Side Canal near Collinston, Utah..... | 22 | scope of..... | 1-2 |
| West Walker River near Coleville, Calif..... | 75 | | |

