

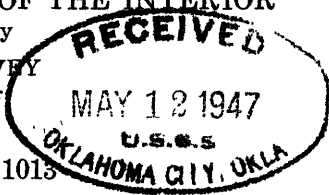
UNITED STATES DEPARTMENT OF THE INTERIOR

J. A. KRUG, Secretary

GEOLOGICAL SURVEY

W. E. WRATHER, Director

Water-Supply Paper 1013



SURFACE WATER SUPPLY *of the* UNITED STATES 1944

PART 13 SNAKE RIVER BASIN

Prepared by
WATER RESOURCES BRANCH
DIVISION OF SURFACE WATER

In cooperation with the States of
IDAHO, OREGON, WASHINGTON, AND WYOMING
and other agencies



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ILLUSTRATION

Figure 1. Gaging-station structures: A, Snake River at King Hill, Idaho; B, Snake River near Murphy, Idaho; C, Snake River near Clarkston, Wash.....

SURFACE WATER SUPPLY OF SNAKE RIVER BASIN, 1944

SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of stage and flow made on streams, lakes, and reservoirs in the United States during the water year ending September 30, 1944. The work was begun in 1888 in connection with special studies relating to irrigation. Measurements of the flow of streams and of the stage and contents of lakes and reservoirs have been made at about 10,000 gaging stations in the 48 States and also at many in the Territories of Alaska and Hawaii. In July 1944, 5,340 gaging stations, including those in Hawaii, were being maintained by the Geological Survey and cooperating organizations. Miscellaneous discharge measurements were made during the water year at many other points.

In the execution of the work many State and private organizations have cooperated, either by furnishing data or by assisting in collecting data. Cooperation of the first kind is acknowledged in connection with the description of each station affected; cooperation of the second kind is acknowledged, under the heading "Cooperation," in the introductory matter that precedes the gaging-station records in each volume. In the present volume, the section on cooperation of the second kind appears on page 12.

DEFINITION OF TERMS

The units in which stream-flow data are presented in this report and other terms used herein are defined as follows:

"Second-foot" is an abbreviation for "cubic feet per second." A second-foot is the rate of discharge of a stream whose channel is 1 square foot in cross-sectional area and whose average velocity is 1 foot per second.

"Second-foot 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 runoff is distributed uniformly both as regards time and area.

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

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

"Second-foot-day" is the volume of water represented by a flow of 1 second-foot for 24 hours. It is equivalent to 86,400 cubic feet, 1.983471 acre-feet, or 646,317 gallons and represents a runoff of 0.0372 inch from 1 square mile.

"Stage-discharge relation" is an abbreviation for the term "relation between gage height and discharge."

"Control" is a term used to designate a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural section, a reach of the channel, or an artificial structure.

"Contents" is a term applied to the volume of water in a reservoir, not including water in bank storage unless so indicated.

EXPLANATION OF DATA

The base data collected at gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the records of stage 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. Typical structures in use at gaging stations are shown in figure 1.

Rating tables giving the discharge for any stage are prepared from the discharge measurements. The application of the daily mean gage height to those rating tables gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the "shifting-control method," in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. At times the stage-discharge relation for a station may be temporarily changed by the presence of aquatic growth or debris on the control. For such times the daily mean discharge is computed by what is essentially the "shifting-control" method, described above.

At some gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources, which necessitates the use of the "slope method," in which the slope or fall in a reach of the stream is a factor in the determination of discharge. Information requisite for determining the slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage, and from them the rate of change of stage is used as a factor in the determination of discharge.

At most gaging stations in the northern part of the United States and at some in the mountainous regions of other parts the stage-discharge relation is affected by ice during the winter, which makes it impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and engineers, and comparable records of discharge for stations in the same or nearby basins. For those stations at which the stage-discharge relation is affected by ice, the days included in the periods of ice effect either are indicated in the table by symbols referring to a footnote that states this fact or are given in a general note following the table. The days on which discharge measurements were made during or between periods of ice effect, shortly before the first period, or shortly after the last period are similarly indicated by a footnote.

For most of the gaging stations on streams in the area covered by this report the data presented comprise a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly discharge and runoff. Skeleton rating



A. SNAKE RIVER AT KING HILL, IDAHO.



B. SNAKE RIVER NEAR MURPHY, IDAHO.



C. SNAKE RIVER NEAR CLARKSTON, WASH.

FIGURE 1.—GAGING-STATION STRUCTURES

tables are published for all stations except those at which the daily discharge for the greater part of the year was determined by the shifting-control method, the slope method, or other special methods.

The description of the station gives the type of gage, its latitude and longitude as determined from the best available maps, and information in regard to 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. Under "Extremes" are given 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 (also the minimum discharge if useful); and the minimum gage height (unless 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 discharge represents the lowest stage, unless otherwise qualified. Selected peak discharges with the times of their occurrence are given, below the table of monthly discharge, for some stations. This supplementary information is generally omitted for a station at which the drainage area of the stream is less than 10 or more than 10,000 square miles or at which, on most days, the peak discharge exceeds the mean discharge by less than 10 percent.

For stations equipped with water-stage recorders, except those on streams subject to sudden or rapid fluctuation, the table gives the discharge corresponding to the daily mean gage height. For stations subject to such fluctuation the daily mean gage height may not indicate the true daily mean discharge, which must be obtained by averaging the discharge for parts of the day or by using the discharge integrator, an instrument for obtaining the daily mean discharge from a continuous gage-height graph and containing as an essential element a curve representing the stage-discharge relation at the station. For stations equipped with nonrecording gages, the table of daily discharge gives the discharge in second-feet corresponding to once-daily readings of the gage or the mean of twice-daily readings. For periods of rapidly changing stage the daily mean discharge is determined from gage-height graphs based on gage readings made once or twice daily or oftener, as stated in the station description.

In the table of monthly discharge the column headed "Second-foot-days" gives the sum for each month of the figures given in the table of daily discharge. The column headed "Maximum" gives the maximum daily discharge, not the momentary discharge when the water surface was at crest stage. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" gives the average flow in cubic feet per second during the month.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents is given. A skeleton table of capacity at given stages is usually given in the first report in which data for a station are published but is omitted from succeeding reports.

TIME BASIS

At 2 a.m. on February 9, 1942, as an emergency measure, the Nation shifted from standard time to "war time," and clock time in the several zones of the country was moved ahead 1 hour, or to 3 a.m. Records of daily discharge prior to February 9, 1942, were computed on the basis of standard time. Records subsequent to that date have been computed on the basis of war time. To convert war time to standard time, subtract 1 hour.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of stream-flow data depends primarily on (1) the permanency of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements and (2) the accuracy of observations 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 error in the daily records is believed to be less than 5 percent; "good," less than 10 percent; "fair," less than 15 percent; and "poor," probably more than 15 percent. The records of monthly and yearly mean discharge and runoff are, in general, more accurate than the daily records.

Yield at some stations as indicated by monthly means may vary widely from natural yield, owing to diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or other factors. For such stations figures of "second-feet per square mile" and "runoff in inches" are not published unless storage or diversion records are included indicating the extent of the regulation or diversion or unless satisfactory adjustments can be made for changes in contents or reservoirs or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless its inclusion is indicated. Figures of second-feet per square mile and runoff in inches are also omitted if the drainage area includes large noncontributing areas or if the average annual rainfall over the drainage area 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 therefore the discharge recorded does not show the water supply available for further development, as prior appropriations below the station must first be satisfied.

The table of monthly discharge presents in summary the distribution of the flow past the station. The table of daily discharge affords opportunity for more detailed studies of the variation in flow. As further observations in each succeeding year may be expected to throw new light on data previously published, it should be borne in mind that such data are subject to revision in succeeding water-supply papers.

PUBLICATIONS

The results of stream-flow measurements are now published annually in 14 parts, each part covering an area whose boundaries coincide with natural drainage features as indicated below:

- Part 1. North Atlantic slope basins (St. John River to York River).
2. South Atlantic 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.

- Part 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. Pacific slope basins in Washington and upper Columbia River Basin.
 13. Snake River Basin.
 14. Pacific slope basins in Oregon and lower Columbia River Basin.

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

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

East of the Mississippi River:

Albany, N. Y., 528 Federal Building.
 Asheville, N. C., 220 Post Office Building.
 Atlanta, Ga., 410 Grand Theater Building.
 Augusta, Maine, Statehouse.
 Baton Rouge, La., 124 Geology Building, Louisiana State University.
 Boston, Mass., 939 Post Office Building.
 Charleston, W. Va., 408 Union Building.
 Charlottesville, Va., House G, Dawson Row, University of Virginia.
 Chattanooga, Tenn., 442 Post Office Building.
 College Park, Md., 105 Engineering Building, University of Maryland.
 Columbia, S. C., 207 Creason Building.
 Columbus, Ohio, 404 Engineering Experiment Station, Ohio State University.
 Harrisburg, Pa., 490 Education Building.
 Hartford, Conn., 203 Federal Building.
 Indianapolis, Ind., 205 Underwriters Building.
 Jackson, Miss., 208 Millsaps Building.
 Knoxville, Tenn., 337 Post Office Building.
 Louisville, Ky., 531 Federal Building.
 Madison, Wis., 666 State Office Building.
 Montgomery, Ala., 507 Post Office Building.
 Morgantown, W. Va., 406 Mineral Industries Building.
 New Philadelphia, Ohio, Muskingum Watershed Conservancy District Building.
 Ocala, Fla., 304 Post Office Building.
 Pittsburgh, Pa., 515 Plaza Building.
 Raleigh, N. C., 242 Education Building.
 St. Paul, Minn., 1427 New Post Office Building.
 Trenton, N. J., 223 Federal Building.
 Urbana, Ill., 14 Post Office Annex, Elm Street.
 Washington, D. C., Federal Works Agency Building.
 Williamsburg, Ky., Kentucky Highway Building.

West of the Mississippi River:

Albuquerque, N. Mex., 723 North Second Street.
 Austin, Tex., 302 West Fifteenth Street.
 Bismarck, N. Dak., 1301 State Capitol.
 Boise, Idaho, 429 Federal Building.
 Denver, Colo., 310 Denham Building.
 Fort Smith, Ark., 6 Post Office Building.
 Helena, Mont., 408 Federal Building.
 Honolulu, Hawaii, 225 Federal Building.
 Idaho Falls, Idaho, 204 Federal Building.
 Iowa City, Iowa, 508 Hydraulic Laboratory, University of Iowa.
 Lincoln, Nebr., 349 Statehouse.
 Los Angeles, Calif., 429-F United States Post Office and Courthouse.
 Oklahoma City, Okla., 535 State Capitol.
 Pierre, S. Dak., City Hall.
 Portland, Oreg., 606 Post Office Building.
 Rolla, Mo., Missouri Geological Survey Building, Missouri School of Mines and Metallurgy.
 St. Louis, Mo., 1002 New Federal Building.
 Salt Lake City, Utah, 303 Federal Building.
 San Francisco, Calif., 625 Market Street Building.
 Santa Fe, N. Mex., 204 United States Courthouse.
 Tacoma, Wash., 207 Federal Building.
 Topeka, Kans., 305 Federal Building.
 Tucson, Ariz., 210 Post Office Building.

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

Early records of the flow of streams in the United States are published in the reports listed below. In many of these reports records for years earlier than those indicated have been included for some streams.

Stream-flow data for the years 1884-1901, in reports of the 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 September 1890.
12th A, pt. 2	do.....	1894 to June 30, 1891.
13th A, pt. 3	do.....	1884-92.
14th A, pt. 2	Monthly discharge.....	1888-93.
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.	1895.
W 11.....	Gage heights.....	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge..	1895-96.
W 15.....	Descriptions, measurements, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries above Kansas River.	1897.
W 16.....	Descriptions, measurements, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries above Kansas River.	1897.
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge.	
W 27.....	Measurements, ratings, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries.	1898.
W 28.....	Measurements, ratings, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries.	1898.
20th A, pt. 4	Monthly discharge.....	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.

Papers on surface water supply containing records from 1899 to date, grouped by years and drainage basins, are listed by number on page 8. The data for any particular gaging station will, in general, be found in the reports covering the years during which the station was maintained. For example, the data for 1910 to 1920 for any station in the area covered by part 3 are published in Water-Supply Papers 283, 303, 323, 353, 403, 433, 453, 473, and 503, which contain records for the Ohio River Basin for those years.

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, the streams and points of measurement listed appearing in the same relative order as the streams and gaging stations in the body of the report. An index of the records obtained prior to 1904 has been published in Water-Supply Paper 119.

Each of the reports on surface water supply for the year 1939, issued as Water-Supply Papers 871 to 884 (see table on p. 8), contains, for the area covered by that report, a summary of yearly discharge at gaging stations at which 10 or more complete years of record have been collected. These summaries are available also as separate reprints.

Numbers of water-supply papers containing results of stream measurements, 1899-1944

(For basins included see pp. 5-6).

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1899 a...	36	356, 36	36	36	36	356, 37	37	37	437, 38	38, 39	38, 39	38	38	38
1900 g...	47, 48	65, 73	49	49	49	49, 150	50	50	50	51	51	51	51	51
1901...	66, 80	186, 83	56	55	55	165, 75	66	66	66	66	66	66	66	66
1902...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1903...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1904...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1905...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1906...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1907-8...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1909...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1910...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1911...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1912...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1913...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1914...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1915...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1916...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1917...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1918...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1919-20...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1921...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1922...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1923...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1924...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1925...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1926...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1927...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1928...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1929...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1930...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1931...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1932...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1933...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1934...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1935...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1936...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1937...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1938...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1939...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1940...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1941...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1942...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1943...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100
1944...	97	197, 98	98	98	98	198, 99	99	99	100	100	100	100	100	100

a Rating tables and index to Water-Supply Papers 35-59 contained in Water-Supply

Paper 59. Tables of monthly discharge for 1898 in 21st Annual Report, part 4.

b James River only.

c Gallatin River.

d Green and Gunnison Rivers and Colorado River above Gunnison River.

e Mojave River only.

f Kings and Kern Rivers and south Pacific slope basins.

g Rating tables and index to Water-Supply Papers 47-52 contained in Water-Supply

Paper 52. Monthly discharge for 1900 in 22d Annual Report, part 4.

h Colorado River and San Joaquin River to James River.

i Salado River.

j Loup, Platte, and Elbow Rivers and tributaries below Platte River.

k Tributaries of Mississippi River from east.

m Hudson Bay only.

n Hudson River.

o New England rivers only.

p Hudson River to Delaware River, inclusive.

q Susquehanna River to Yackin River, inclusive.

r Atlantic and Kansas rivers.

s Pacific and Colorado rivers.

t Below mouth of Gila River.

u Rogue, Umpqua, and Siletz Rivers only.

Reports have been published that are compilations of records for various areas, usually a single State or drainage basin. These reports contain records previously published (some of which have been revised), as well as some records not contained in the annual series of water-supply papers. The following table gives the numbers and titles of these reports, arranged alphabetically, some by States and some by drainage basins.

Reports containing compilations of records of discharge by States and drainage basins

Report	Period	Water-Supply Paper
STATE		
Alabama, Water powers of, with an appendix on stream measurements in Mississippi.	1895-1903	107
California, Water resources of, part 1, Stream measurements in Sacramento River Basin.	1887-1912	298
California, Water resources of, part 2, Stream measurements in San Joaquin River Basin.	1878-1912	299
California, Water resources of, part 3, Stream measurements in the Great Basin and Pacific Coast river basins.	1891-1912	300
California, southern, Surface water supply of Pacific slope of.....	1890-1918	447
California, Surface water supply of Sacramento River Basin.....	1895-1927	597-E
California, Surface water supply of San Joaquin River Basin.....	1895-1927	636-D
California, southern, Surface water supply of Pacific slope basins in..	1894-1927	636-E
California, Surface water supply of minor San Francisco Bay, northern Pacific, and Great basins in.	1895-1927	637-A
Colorado, Water resources of.....	1884-1900	74
Georgia, Water resources of.....	1895-1905	197
Massachusetts, Surface waters of.....	1845-1915	415
Nebraska, Surface water supply of.....	1894-1906	230
Oregon, Surface water supply of.....	1878-1910	370
Texas, Summary of records of surface waters of.....	1898-1937	850
Vermont, Surface waters of.....	1875-1916	424
Washington, Summary of hydrometric data in.....	1878-1919	492
Washington, Summary of records of surface waters of.....	1919-35	870
Wisconsin, northern, Water power of.....	1895-1905	156
Wyoming, Surface waters of, and their utilization.....	1894-1921	469
DRAINAGE BASIN		
Colorado River (Ariz., Colo., N. Mex., Utah, Wyo.) and its utilization..	1888-1914	395
Colorado River, upper (Colo., Utah), and its utilization.....	1897-1927	617
Colorado River Basin (Ariz., Calif., Colo., Utah, Wyo.), Surface waters at base stations in.	1891-1938	918
Columbia River Basin, upper (Mont., Idaho), Surface waters of.....	1898-1938	916
Great Salt Lake Basin, Water powers of.....	1889-1920	517
Green River (Colo., Utah, Wyo.) and its utilization.....	1894-1926	618
Kennebec River Basin (Maine), Water resources of.....	1890-1906	198
Milk River. See St. Mary and Milk Rivers.....		
Missouri and St. Mary River Basins (Mont.), Surface waters of.....	1881-1938	917
New-Kanawha River Basin (N. C., Va., W. Va.), Surface water supply of..	1895-1920	536
Penobscot River Basin (Maine), Water resources of.....	1904-9	279
Potomac River Basin (D. C., Md., W. Va.).....	1895-1906	192
Rio Grande Basin (Colo., N. Mex., Tex.), Water resources of.....	1888-1913	368
St. Mary and Milk Rivers (Mont., Canada), Water supply of.....	1898-1917	491
St. Mary River. See St. Mary and Milk Rivers; Missouri and St. Mary River Basin.		
Susquehanna River Basin (Pa., Md.), Hydrography of.....	1890-1904	109

Records of discharge have been published also in State reports. Some of these are not contained in the publications of the Geological Survey or are revisions of records previously published in its water-supply papers. The following table contains a list of these reports.

State reports containing compilations of records of discharge

State	Period	Report	Issued by
Alabama.....	1895-1915	Bull. 17, Water powers of Alabama.....	Geological Survey of Alabama.
Arkansas.....	1857-1928	Stream-gaging Rept. 1.....	Arkansas Geological Survey.
Colorado.....	1881-1935	Water resources of Colorado, Appendix 2, Data on stream-gaging stations of Colorado. 1	State Planning Commission, Water Conservation Board, State engineer.
Do.....	1881-1938	Water resources of Colorado, Appendix 3, vols. 1 and 2, Stream-flow data of Colorado.	Do.
Connecticut...	1900-1927	Bull. 44, Water resources of Connecticut..	State Geological and Natural History Survey.
Do.....	1912-33	5th biennial report ²	State Water Commission.
Georgia.....	1895-1906	Bull. 16, Water powers of Georgia.....	Geological Survey of Georgia.
Do.....	1907-19	Bull. 36, Water powers of Georgia.....	Do.
Illinois.....	1908-11	Water resources of Illinois.....	Rivers and Lakes Commission.
Do.....	1900-1934	Stream-flow data of Illinois.....	Division of Waterways.
Indiana.....	1923-27	Pub. 72, Surface water supply of Indiana.	Department of Conservation.
Do.....	1927-30	Pub. 112, Surface water supply of Indiana.	Do.
Iowa.....	1873-1932	Stream-flow records of Iowa.....	State Planning Board.
Do.....	1873-1940	Water-Supply Bull. 1, Summaries of yearly and flood flow relating to Iowa streams.	Iowa Geological Survey.
Do.....	1941-42	Water-Supply Bull. 2, Surface water resources of Iowa.	Do.

¹ Contains records of yearly discharge only.

² Contains records of monthly discharge in second-feet per square mile.

State reports containing compilations of records of discharge--Continued

State	Period	Report	Issued by
Kansas.....	1895-1919	Surface waters of Kansas.....	Kansas Water Commission.
Do.....	1919-24		Do.
Do.....	1924-25	Report of Division of Water Resources.....	State Board of Agriculture.
Do.....	1925-35	Stream-flow data of Kansas.....	Do.
Do.....	1935-39		Do.
Do.....	1939-41		Do.
Kentucky.....	1910-20	Surface waters of Kentucky.....	Kentucky Geological Survey.
Louisiana.....	1903-38	Geol. Bull. 16, Surface water supply of Louisiana.	Department of Conservation.
Maine.....	1887-1920	1st annual report ²	Maine Water Power Commission.
Maryland.....	1929-37	Flow data and draft storage curves for major streams in Maryland.	State Planning Commission and Water Resources Commission.
Do.....	1892-1943	Bull. 1, Summary of records of surface waters of Maryland and the Potomac River Basin.	Department of Geology, Mines, and Water Resources.
Minnesota.....	1909-12	Water-resources investigation of Minnesota.	State Drainage Commission.
Missouri.....	1857-1926	Vol. 20, 2d series, Water resources of Missouri.	Missouri Bureau of Geology and Mines.
Do.....	1927-39	Vol. 26, 2d series, Surface waters of Missouri.	Missouri Geological Survey and Water Resources.
Montana.....	1889-1911	5th biennial report.....	Office of the State Engineer.
Do.....	1881-1933	Special Rept. 10, vols. 1-4, Water resources of Montana.	Montana Agricultural Experiment Station.
Nebraska.....	1894-1914	1st hydrographic report.....	Bureau of Water Power, Irrigation, and Drainage.
Do.....	1914-23	2d hydrographic report.....	Do.
New Hampshire.....	1889-1922	Annual and statistical report, vol. 12 ² ...	Public Service Commission.
New Jersey.....	1891-1923	Bull. 33, Surface water supply of New Jersey.	Department of Conservation and Development.
Do.....	1923-34	Special Rept. 5, Surface water supply of New Jersey.	State Water Policy Commission.
Do.....	1934-40	Special Rept. 9, Surface water supply of New Jersey.	Do.
New Mexico.....	1888-1925	Surface water supply of New Mexico.....	Office of the State Engineer.
North Carolina.....	1889-1923	Bull. 34, Discharge records of North Carolina streams. ³	Department of Conservation and Development.
Do.....	1889-1936	Bull. 39, Discharge records of North Carolina streams. ⁴	Do.
North Dakota.....	1919-21	Report to Governor of North Dakota on flood control.	State chief engineer.
Do.....	1882-1938	Surface water in North Dakota.....	State Planning Board.
Do.....	1882-1944	Supplement B, 4th biennial report.....	State Water Conservation Commission.
Ohio.....	1898-1921	Bull. 73, Ohio stream flow.....	Engineering Experiment Station, Ohio State University.
Do.....	1902-39	Bull. 200, Compilation of stream-flow records of Ohio.	Department of Agriculture, Division of Conservation and Natural Resources.
Do.....	1898-1939	Bull. 111, Ohio stream-drainage areas and flow-duration tables.	Engineering Experiment Station, Ohio State University.
Oregon.....	1878-1914	Bull. 4, Water resources of the State of Oregon.	Office of the State Engineer.
Do.....	1914-24	Bull. 7, Water resources of the State of Oregon.	Do.
Do.....	1924-30	Bull. 8, Water resources of the State of Oregon.	Do.
Do.....	1930-36	Bull. 9, Water resources of the State of Oregon.	Do.
Pennsylvania.....	1890-1911	Report of the Water Supply Commission of Pennsylvania.	Water Supply Commission of Pennsylvania.
Do.....	1928-32	Stream-flow records of Pennsylvania.....	Department of Forests and Waters.
Rhode Island.....	1929-41	7th annual report.....	Department of Public Works.
Tennessee.....	1874-1924	Bull. 34, Water resources of Tennessee.....	Department of Education.
Do.....	1920-30	Bull. 40, Surface waters of Tennessee.....	Do.
Utah.....	1889-1905	5th biennial report.....	Office of the State Engineer.
Do.....	1906-10	7th biennial report.....	Do.
Do.....	1911-16	10th biennial report.....	Do.
Virginia.....	1895-1927	Bull. 31, Water resources of Virginia.....	Virginia Geological Survey.
Do.....	1927-42	Bull. 4, Surface water supply of Virginia (Potomac, Rappahannock, and York River Basins).	Virginia Conservation Commission.
Do.....	1927-42	Bull. 5, Surface water supply of Virginia (James River Basin).	Do.
Do.....	1927-42	Bull. 6, Surface water supply of Virginia (Roanoke and Chowan River Basins).	Do.
Do.....	1927-42	Bull. 7, Surface water supply of Virginia (New, Tennessee, and Big Sandy River Basins).	Do.
Washington.....	1878-1933	Bull. 5, Monthly and yearly summaries of hydrometric data.	Department of Conservation and Development.
Wisconsin.....	1888-1914	1st report of Railroad Commission of Wisconsin to Legislature on water powers.	Railroad Commission of Wisconsin.
Do.....	1914-23	2d report of Railroad Commission of Wisconsin to Legislature on water powers.	Do.

² Contains records of monthly discharge in second-feet per square mile.

³ Contains records of weekly discharge.

⁴ Contains records of maximum and minimum daily, weekly, and monthly discharges and yearly mean discharge.

Note.—In addition to the records contained in the reports listed above, the following States have issued annual or biennial reports in which are contained records of discharge: California, Colorado, Connecticut, Idaho, Indiana, Maine, Missouri, Montana, Nebraska, Nevada, New Mexico, New York (also New York City Board of Water Supply and city of Rochester), North Dakota, Oregon, Pennsylvania, Rhode Island, Washington, and Wyoming.

The reports listed in the foregoing tables contain the customary records of discharge collected during the systematic operation of gaging stations. Detailed information on the stage and discharge of many streams during major floods has been included in special reports on these floods published by the Geological Survey. The more recent of these special reports also contain other pertinent hydrologic information and analyses and compilations of data relating to earlier noteworthy floods. The following list gives the numbers and titles of these reports:

Water-Supply Paper	Title
88	The Passaic flood of 1902.
92	The Passaic flood of 1903.
96	Destructive floods in the United States in 1903.
147	Destructive floods in the United States in 1904.
162	Destructive floods in the United States in 1905.
334	The Ohio Valley flood of March-April 1913.
426	Southern California floods of January 1916.
487	The Arkansas River flood of June 3-5, 1921.
488	The floods in central Texas in September 1921.
520-G	Some floods in the Rocky Mountain region.
636-C	The New England flood of November 1927.
771	Floods in the United States, magnitude and frequency.
773-E	The New York State flood of July 1935.
796-B	Flood on Republican and Kansas Rivers, May and June 1935.
796-C	Flood in La Canada Valley, Calif., January 1, 1934.
796-G	Major Texas floods of 1935.
798	The floods of March 1936, part 1, New England rivers.
799	The floods of March 1936, part 2, Hudson River to Susquehanna River region.
800	The floods of March 1936, part 3, Potomac, James, and upper Ohio Rivers.
816	Major Texas floods of 1936.
836-A	Stages and flood discharges of the Connecticut River at Hartford, Conn.
838	Floods of Ohio and Mississippi Rivers, January-February 1937.
842	Floods in Canadian and Pecos River Basins of New Mexico, May and June 1937.
843	Floods of December 1937 in northern California.
844	Floods of March 1938 in southern California.
847	Maximum discharges at stream-measurement stations through September 1938.
867	Hurricane floods of September 1938.
869	Flood of August 1935 in Muskingum River Basin, Ohio.
914	Texas floods of 1938 and 1939.
967-A	Floods of September 1939 in Colorado River Basin below Boulder Dam.
967-B	Flood of July 5, 1939, in eastern Kentucky.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

The following table contains a list of gaging stations for the area covered by this report at which records of daily discharge were collected during the water year October 1943 to September 1944 by agencies other than the Geological Survey. The records for these stations are not contained in the publications of the Geological Survey except as noted.

Records of discharge collected by agencies other than the Geological Survey

Stream	Location	Period	Collected by
American Falls Reservoir, inflow to.	Near American Falls, Idaho.....	1927-28, 1932-44..	Idaho Water District 36.
Bully Creek.....	SW $\frac{1}{4}$ sec. 33, T. 18 S., R. 44 E., 5 miles southwest of Vale, Oreg. Prior to spring of 1937 in sec. 20, 6 miles west of Vale, Oreg.	1935-44.....	Oregon State engineer.
Grande Ronde River...	SW $\frac{1}{4}$ sec. 11, T. 3 S., R. 36 E., near La Grande, Oreg.	1937-44.....	Do.
Indian Creek.....	SE $\frac{1}{4}$ sec. 33, T. 1 S., R. 40 E., above North Indian Creek near Imbler, Oreg.	1938-44.....	Do.
Malheur River.....	SW $\frac{1}{4}$ sec. 32, T. 20 S., R. 41 E., near Mamoff, Oreg.	1931-44†.....	Do.
Do.....	Below Nevada Dam, near Vale, Oreg.	1934, 1936-42, 1944†.	Do.
Snake River tributaries.	Near Irwin, Idaho.....	1940-44†.....	Idaho Water District 36.
Teton River tributaries and diversions.	Near Driggs, Idaho.....	1934-44†.....	Do.

† Records for some earlier years published in water-supply papers of the Geological Survey.
‡ Fragmentary.

Records of discharge collected by agencies other than the Geological Survey--Continued

Stream	Location	Period	Collected by
Wallowa Lake Reservoir	At outlet, near Joseph, Oreg.....	1925-44†.....	Oregon State engineer.
Wallowa River.....	Below Wallowa Lake, Oreg.....	1926-44†.....	Do.

† Records for some earlier years published in water-supply papers of the Geological Survey.
 Note.—Of the records for the stations operated by the Oregon State engineer, those for 1925-30 are published in Bulletin 8 of the State engineer, and those for 1931-36 (including some to December 1936) in Bulletin 9; those for 1937-43 have not been published.
 Records for the stations operated by Idaho Water District 36 are published in the annual reports of that organization.
 The Soil Conservation Service of the United States Department of Agriculture began in 1932 to collect records of runoff from one area of about 760 acres and three areas of less than 70 acres each near Pullman, Wash. The records are in the files of the Soil Conservation Service.

COOPERATION

The work in the several States was done under cooperative agreements with the organizations listed below.

Idaho: Idaho Department of Reclamation, E. V. Berg, commissioner until December 31, 1942, James Spofford, State reclamation engineer, thereafter.

Oregon: Office of the State Engineer, C. E. Stricklin.

Washington: State Department of Conservation and Development, Ed Davis, director, and C. J. Bartholet, supervisor of hydraulics.

Wyoming: Office of the State Engineer, L. C. Bishop.

Financial assistance was furnished by the Corps of Engineers, United States Army, in the operation of five gaging stations in Idaho.

Financial assistance was furnished also by the Office of Indian Affairs and the Bureau of Reclamation of the United States Department of the Interior and the Federal Power Commission. Assistance was furnished by the Weather Bureau of the United States Department of Commerce.

Assistance in collecting records was rendered by the following counties, municipality, corporations and other organizations, and watermasters.

Idaho: City of Pocatello, Idaho Power Co., Board of Control for Boise Project, Idaho Water District 36, North Side Canal Co., Twin Falls Canal Co., Utah Power & Light Co., Washington Water Power Co., and watermasters for Big Lost, Little Lost, Big Wood, Little Wood, Boise, and Weiser Rivers, Lake Fork of Payette River, and Mud Lake.

Oregon: Malheur, Baker, Union, and Wallowa Counties, Eastern Oregon Light & Power Co., Pacific Power & Light Co., and Warm Springs irrigation District.

Washington: Washington Water Power Co.

DIVISION OF WORK

The stream-gaging work was conducted by the water resources branch of the Geological Survey, Glenn L. Parker, chief hydraulic engineer, Carl G. Paulsen, assistant chief hydraulic engineer, and Rudolph G. Kasel, chief of the division of surface waters. The data for the stations in the several States were collected and prepared for publication under supervision of district engineers as follows: For certain stations in Idaho, namely, Snake River at and above Milner and stations on tributaries of Snake River above American Falls Reservoir, Lynn Crandall; for all other stations in Idaho, for Salmon Falls Creek near San Jacinto, Nev., and for Snake River at Oxbow, Oreg., T. R. Newell; in Nevada (except for Salmon Falls Creek near San Jacinto), M. T. Wilson; in Oregon (except for

Snake River at Oxbow), G. R. Canfield, the work being done in collaboration with C. E. Stricklin, State engineer; in Washington, F. M. Veatch; in Wyoming, Robert Follansbee.

The records were reviewed and the manuscript prepared for publication under the direction of B. J. Peterson, hydraulic engineer in charge, and F. J. Flynn, associate engineer, section of reports.

SNAKE RIVER MAIN STEM

Jackson Lake at Moran, Wyo.

Location.— Electric tape gage, lat. 43°51', long. 110°35', in sec. 18, T. 45 N., R. 114 W., at dam on Snake River, at Moran. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

Drainage area.— 816 square miles.

Records available.— July 1908 to September 1944 (1908-10, fragmentary).

Extremes.— Maximum contents during year, 855,940 acre-feet June 27 (elevation, 6,769.35 feet); minimum, 297,590 acre-feet Sept. 20-24 (elevation, 6,745.61 feet).

1908-44: Maximum contents, 857,220 acre-feet June 23, 1937 (elevation, 6,769.40 feet); no usable contents several days in period August to October 1919 (elevation, 6,730.00 feet).

Remarks.— Reservoir was formed by log crib dam in 1906 with a usable capacity of 300,000 acre-feet. The dam washed out in July 1910 was replaced by an earth dam, forming a reservoir with a usable capacity of 380,000 acre-feet. The earth dam was raised in 1915 increasing the usable capacity to 790,000 acre-feet. In 1917, by dredging the outlet, the capacity was further increased to 847,000 acre-feet between elevations 6,730 feet (top of baffles in sluices) and 6,769 feet (top of spillway gates). Water is used for irrigation in Snake River Valley, Idaho. Gage read once daily at 8 a.m. Contents as given herein are computed from elevation at that time; all available for release.

Cooperation.— Reservoir elevations and capacity table furnished by Bureau of Reclamation.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	650,540	655,670	647,920	656,640	674,330	696,030	720,580	749,020	853,640	862,100	862,370	405,420
2	650,100	655,430	647,920	657,610	674,810	697,000	721,070	749,770	852,100	863,380	872,860	399,380
3	649,370	655,190	647,920	658,090	675,550	697,500	721,810	751,020	851,070	862,870	863,900	392,900
4	649,370	655,670	648,400	659,060	676,030	698,230	722,300	752,260	849,790	851,580	863,970	387,360
5	649,130	656,640	654,400	660,030	676,760	699,960	722,800	753,510	850,060	862,100	864,320	382,710
6	649,130	655,910	648,400	661,000	677,740	700,930	724,030	756,000	849,790	852,350	853,460	378,280
7	649,130	655,430	648,400	662,690	678,720	701,420	725,270	759,490	850,660	852,100	853,640	372,300
8	649,160	654,940	648,400	663,180	679,690	702,160	727,000	762,470	853,580	852,610	813,610	366,800
9	649,130	653,970	647,920	663,660	680,420	702,900	728,240	766,950	855,680	852,350	804,770	360,860
10	649,620	653,250	647,920	664,140	681,400	703,630	729,470	771,940	854,150	851,840	896,200	352,990
11	650,100	652,520	647,440	664,390	682,370	704,370	730,460	776,960	852,350	847,480	898,140	345,150
12	650,580	653,260	647,440	664,630	682,860	705,110	731,700	779,710	852,100	840,610	890,310	336,880
13	650,830	653,730	647,440	664,870	683,350	706,090	732,690	784,730	851,580	833,990	870,150	329,070
14	650,830	653,730	647,200	665,360	684,080	707,070	733,680	790,750	852,350	828,140	869,790	319,820
15	651,070	653,730	646,960	665,600	684,810	707,810	734,660	797,280	853,120	820,610	848,980	313,810
16	651,070	653,000	647,200	665,840	685,540	708,540	735,410	805,860	853,890	811,670	838,210	305,870
17	651,070	652,280	647,680	666,320	686,280	709,280	736,160	813,410	852,610	804,100	828,630	299,930
18	652,280	652,040	648,160	666,810	687,010	710,020	736,840	822,290	851,940	795,760	819,560	286,870
19	652,760	652,040	648,560	667,290	687,490	710,750	737,140	828,400	852,100	787,490	810,960	297,810
20	654,220	652,040	649,370	667,530	687,980	711,490	737,680	833,480	852,100	779,460	802,160	297,390
21	654,700	651,550	649,860	667,780	688,470	712,470	738,370	838,320	852,610	770,190	493,860	297,390
22	654,940	650,830	650,340	668,260	689,440	713,210	738,870	842,900	852,870	762,220	485,320	297,390
23	655,670	650,580	651,070	668,740	690,660	713,700	739,360	847,230	852,100	753,260	478,660	297,390
24	656,150	650,830	651,800	669,230	691,400	714,680	739,860	850,580	852,100	746,280	469,030	297,390
25	656,640	650,580	652,520	669,710	692,130	715,180	740,840	850,820	852,100	737,680	460,780	297,600
26	656,150	650,340	653,490	670,200	692,860	716,160	742,330	851,070	853,120	730,710	452,600	297,810
27	656,910	649,370	653,970	670,920	693,590	717,140	743,070	851,580	855,940	723,290	444,640	298,240
28	656,640	648,400	654,460	671,650	694,080	717,880	744,060	853,120	855,100	716,400	436,910	298,660
29	656,910	647,920	654,940	672,360	694,570	718,610	745,300	853,120	850,660	709,440	428,790	299,510
30	656,150	647,680	655,670	675,110	-	719,100	747,630	850,820	852,100	698,710	420,460	300,570
31	656,150	-	656,150	673,600	-	719,840	-	852,350	-	691,160	413,020	-

Monthly elevations and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	6,761.08	650,340'	-
Oct. 31.....	6,761.32	656,150	+5,810
Nov. 30.....	6,760.97	647,680	-8,470
Dec. 31.....	6,761.32	656,150	+8,470
Calendar year 1943.....	-	-	+256,990
Jan. 31.....	6,762.04	673,600	+17,450
Feb. 29.....	6,762.90	694,570	+20,970
Mar. 31.....	6,763.93	719,840	+25,270
Apr. 30.....	6,765.05	747,530	+27,690
May 31.....	6,769.21	852,350	+104,820
June 30.....	6,769.20	852,100	-250
July 31.....	6,762.76	681,150	-160,950
Aug. 31.....	6,760.90	413,020	-278,130
Sept. 30.....	6,745.76	300,570	-112,450
Water year 1943-44.....	-	-	-549,770

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River at Moran, Wyo.

Location.- Water-stage recorder, lat. 43°51', long. 110°35', in sec. 18, T. 45 N., R. 114 W., at Moran, 1,000 feet downstream from Jackson Lake Dam. Datum of gage is 6,725.61 feet above mean sea level (Bureau of Reclamation bench mark).

Drainage area.- 816 square miles.

Records available.- September 1903 to September 1944.

Average discharge.- 41 years, 1,413 second-feet.

Extremes.- Maximum discharge during year, 8,470 second-feet Aug. 12 (gage height, 9.19 feet); minimum daily, 6 second-feet Feb. 27 to Mar. 31.

1903-44: Maximum discharge, 15,100 second-feet June 12, 1918 (gage height, 10.41 feet, site and datum then in use); practically no flow for a few days in 1907 and 1909.

Remarks.- Records excellent except those for Dec. 16 to May 17, which are fair. Flow regulated by Jackson Lake (see preceding page).

Cooperation.- Gage-height record furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	712	696	453	47	34	6	7	25	6,130	2,490	5,940	4,140
2	712	696	448	47	34	6	8	24	6,570	3,350	6,030	3,780
3	712	696	448	47	34	6	7	22	5,650	3,260	6,330	3,510
4	662	696	444	40	34	6	6	22	4,320	2,370	6,180	3,120
5	591	696	444	40	34	6	12	22	3,940	1,890	6,260	2,670
6	505	696	444	40	34	6	15	18	3,940	1,900	6,740	3,170
7	458	690	444	40	34	6	18	18	3,340	1,900	6,570	3,460
8	390	690	444	40	34	6	22	18	3,400	1,900	5,860	3,260
9	292	690	444	40	34	6	23	13	5,530	2,080	5,250	4,040
10	292	690	444	40	34	6	24	10	5,930	3,590	5,260	4,760
11	292	313	444	40	34	6	25	10	4,920	5,240	4,840	4,560
12	292	408	444	40	34	6	26	10	4,440	5,400	6,140	4,880
13	292	657	444	40	34	6	26	10	3,830	4,900	6,250	4,420
14	292	657	444	40	34	6	26	10	3,710	5,490	6,670	4,420
15	292	657	394	40	34	6	26	12	3,770	6,150	6,640	4,240
16	292	657	47	40	34	6	26	12	4,520	6,080	6,230	3,690
17	292	657	47	40	34	6	26	12	4,640	6,180	5,770	2,330
18	292	657	47	40	34	6	23	236	3,940	6,180	5,520	640
19	292	657	47	40	34	6	24	526	2,550	6,110	5,320	453
20	292	657	47	40	34	6	24	520	3,070	6,130	5,320	351
21	292	657	47	40	34	6	24	520	3,180	6,270	5,200	354
22	292	657	47	40	34	6	24	540	3,640	6,010	5,080	337
23	288	657	47	40	34	6	24	555	3,600	5,650	5,110	337
24	284	657	47	40	34	6	24	1,590	2,900	5,770	5,270	337
25	402	657	47	40	23	6	25	2,190	2,650	5,720	4,930	201
26	701	657	47	40	13	6	25	2,190	3,510	5,040	5,040	36
27	696	657	47	34	6	6	25	2,500	5,770	4,920	4,920	35
28	696	657	47	34	6	6	25	4,240	4,660	5,200	4,920	35
29	696	657	47	34	6	6	25	6,080	2,550	5,590	5,000	35
30	696	498	47	34	-	6	25	5,350	2,130	5,930	4,920	35
31	696	-	47	34	-	6	-	4,800	-	5,960	4,420	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runciff in acre-feet
October.....	13,986	712	284	451	27,740
November.....	19,322	696	313	644	38,320
December.....	7,379	453	47	238	14,640
Calendar year 1943.....	584,780	12,000	42	1,602	1,160,000
January.....	1,231	47	34	39.7	2,440
February.....	870	34	6	30.0	1,730
March.....	186	6	6	6.0	569
April.....	642	26	7	21.4	1,270
May.....	32,104	6,080	10	1,036	63,680
June.....	122,480	6,570	2,130	4,083	242,800
July.....	144,650	6,270	1,980	4,656	286,800
August.....	173,820	6,740	4,420	5,607	344,800
September.....	67,856	4,680	35	2,262	134,600
Water year 1943-44.....	584,525	6,740	6	1,597	1,159,000

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Dec. 22 to Mar. 31. Staff-gage readings used Dec. 16 to May 17.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River near Heise, Idaho

Location.- Water-stage recorder, lat. $43^{\circ}37'$, long. $111^{\circ}40'$, in sec. 5, T. 3 N., R. 41 E., 3 miles upstream from Heise and 23 miles upstream from Henrys Fork. Altitude of gage, 5,015 feet (from river-profile map).

Drainage area.- 5,740 square miles.

Records available.- September 1910 to September 1944, except winters of 1914-24.

Average discharge.- 34 years, 6,715 second-feet.

Extremes.- Maximum discharge during year, 20,000 second-feet June 11 (gage height, 7.21 feet); minimum, 2,070 second-feet Jan. 8 (gage height, 1.77 feet).

1910-44: Maximum discharge, about 60,000 second-feet May 19, 1927, result of washing out of landslide on Gros Ventre River (gage height, about 16.0 feet, present datum); minimum, 1,210 second-feet Jan. 22, 1935 (gage height, 1.15 feet).

Remarks.- Records excellent except those for periods of ice effect, which are fair.

Station is above all irrigation diversions from main river except Riley ditch (3,670 acre-feet diverted during year), which diverts 1 mile upstream from station. About 130,000 acres in Wyoming and Idaho irrigated by diversions from tributaries above station. Some regulation by Jackson Lake (see p. 14).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,480	4,310	3,620	2,700	b2,500	2,370	2,320	4,550	16,600	12,900	9,840	7,150
2	4,430	4,170	3,560	2,740	b2,550	2,670	2,420	4,400	18,000	13,500	9,810	7,020
3	4,400	4,080	3,490	2,760	b2,600	2,320	2,560	4,120	19,000	14,600	9,670	6,720
4	4,380	4,210	3,490	2,670	b2,650	2,300	2,840	3,940	18,000	14,500	9,650	6,600
5	4,380	4,600	3,470	2,700	b2,700	2,320	3,260	4,140	16,000	13,100	9,700	6,430
6	4,260	4,600	3,490	2,580	b2,900	2,310	3,510	4,780	14,700	11,500	9,600	5,980
7	4,190	4,240	3,450	2,720	b2,900	2,240	3,760	5,420	14,600	11,200	9,650	5,870
8	4,080	4,050	3,450	b2,500	b2,700	2,210	3,730	5,760	14,700	10,700	9,650	6,310
9	4,030	4,010	3,400	b2,600	b2,600	2,240	3,620	5,920	15,400	10,200	9,420	6,030
10	3,940	4,030	3,190	b2,450	b2,500	2,310	3,760	6,750	19,000	9,840	8,570	6,230
11	3,980	4,050	3,150	b2,300	b2,400	2,300	4,080	6,720	19,600	10,200	8,540	6,990
12	4,170	3,980	3,190	b2,200	2,360	2,250	4,550	6,690	18,000	11,800	8,030	6,930
13	4,140	3,690	3,230	b2,200	2,380	2,250	4,720	6,930	17,200	11,700	8,880	7,180
14	4,010	3,800	b2,230	b2,250	2,420	2,280	4,310	7,530	16,100	11,100	9,110	6,810
15	3,980	3,980	b2,230	b2,350	2,450	2,220	3,890	8,400	15,900	11,200	9,460	6,780
16	3,960	3,920	b2,200	b2,400	2,430	2,190	3,510	9,150	15,800	11,800	9,530	6,600
17	3,920	3,890	b2,950	b2,450	2,370	2,210	3,360	9,370	16,400	11,600	9,260	6,570
18	3,890	3,890	b2,850	b2,500	2,420	2,280	3,210	10,600	16,800	11,500	8,770	6,140
19	3,980	3,920	2,820	b2,550	2,560	2,260	3,170	10,300	15,400	11,500	8,540	4,500
20	4,240	3,940	2,880	b2,600	2,370	2,260	3,150	9,460	13,600	11,600	8,160	3,800
21	4,280	3,960	2,880	b2,600	2,400	2,260	3,230	8,860	13,900	11,400	8,160	3,510
22	4,260	3,940	2,840	b2,600	2,460	2,260	3,280	8,570	14,800	11,500	7,990	3,380
23	4,120	3,960	2,800	b2,620	2,400	2,190	3,340	8,330	14,800	11,200	7,820	3,280
24	3,980	4,010	2,760	*b2,640	2,420	2,240	3,470	8,060	13,900	10,500	7,720	3,210
25	3,960	3,980	2,760	b2,650	2,370	2,220	3,620	7,890	13,300	10,400	8,060	3,170
26	3,980	3,870	2,760	b2,650	2,370	2,180	3,670	8,540	14,100	10,500	7,630	3,110
27	4,100	3,620	2,690	b2,600	2,370	2,170	3,710	8,600	17,800	9,940	7,660	3,020
28	4,380	3,580	2,680	b2,400	2,310	2,170	3,690	9,460	19,400	9,420	7,630	2,860
29	4,450	3,620	b2,480	b2,500	2,320	2,150	4,140	12,000	17,000	9,500	7,460	2,820
30	4,400	3,620	b2,580	b2,400	-	2,220	4,500	15,300	13,600	9,670	7,530	2,960
31	4,400	-	*b2,670	b2,500	-	2,250	-	16,100	-	9,840	7,630	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	129,130	4,480	3,890	4,165	256,100
November.....	119,440	4,600	3,580	3,981	236,900
December.....	95,160	3,620	2,480	3,070	188,700
Calendar year 1943	3,214,400	35,600	1,910	8,607	6,375,000
January.....	78,580	2,880	2,200	2,536	155,600
February.....	72,030	2,900	2,310	2,494	142,900
March.....	69,800	2,370	2,150	2,262	136,400
April.....	106,580	4,720	2,320	3,553	211,400
May.....	246,960	16,100	3,940	7,967	489,800
June.....	483,200	19,600	13,300	16,100	968,400
July.....	349,610	14,600	9,420	11,280	692,400
August.....	270,052	9,980	7,460	8,711	535,600
September.....	167,960	7,180	2,820	5,266	313,300
Water year 1943-44.....	2,178,500	19,600	2,150	8,952	4,321,000

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Diversions from Snake River between Heise and Shelley gaging stations, Idaho

Between Heise and Shelley gaging stations, 47 canals divert water from Snake River for irrigation; of these, 36 divert above mouth of Henrys Fork. Records available during each irrigation season from 1919 to 1944. One of the canals is equipped with a water-stage recorder, the others with staff gages which are read once daily. Discharge combined to show total diverted flow. Records include Riley ditch which diverts 1 mile above Heise gaging station. Records good.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								822	5,780	5,320	7,880	6,240
2								875	5,500	5,920	8,180	5,920
3								708	4,870	6,260	8,180	5,550
4								760	3,940	6,550	8,210	5,910
5								993	3,320	6,830	8,040	6,030
6								1,160	2,810	7,140	7,990	5,940
7								1,320	3,130	7,280	7,970	5,940
8								1,440	3,180	7,710	8,080	6,310
9								1,690	3,060	7,720	8,080	6,130
10								1,860	3,060	7,760	7,750	5,640
11								1,900	2,810	8,040	7,700	5,910
12								2,360	2,690	8,380	7,030	5,940
13								2,690	2,650	8,630	7,100	6,290
14								2,660	2,510	8,470	7,140	6,250
15								3,490	2,650	8,350	7,610	6,260
16								4,020	2,650	8,370	7,390	6,170
17								4,440	2,710	8,500	7,280	5,590
18								4,400	2,980	8,340	7,180	4,660
19								4,010	3,980	8,500	7,280	4,430
20								3,930	4,980	8,630	7,180	4,050
21								3,870	6,360	8,540	7,040	3,920
22								3,320	7,400	8,480	6,710	3,740
23								3,780	7,990	8,340	6,740	3,670
24								3,550	8,390	8,130	6,730	3,690
25								4,080	8,310	8,110	7,160	3,500
26								4,760	8,050	8,120	6,540	3,660
27								5,290	5,970	8,160	6,670	3,800
28								5,750	5,570	7,710	6,870	3,870
29								6,040	5,350	7,480	6,960	3,850
30								6,500	4,970	7,510	6,920	3,840
31								6,340	-	7,580	6,870	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....					
November.....					
December.....					
Calendar year					
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	-	-	-	-	-
May.....	99,398	6,500	622	3,206	197,200
June.....	137,370	8,390	2,510	4,579	272,500
July.....	240,680	8,540	5,320	7,762	477,300
August.....	228,370	8,210	6,540	7,367	453,000
September.....	152,710	6,310	3,600	5,090	302,900
The period	-	-	-	-	1,703,000

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

SNAKE RIVER MAIN STEM

Snake River near Shelley, Idaho

Location.— Water-stage recorder, lat. 43°25', long. 112°08', in sec. 17, T. 1 N., R. 37 E., a quarter of a mile east of Woodville and 3 miles north of Shelley. Altitude of gage, 4,596 feet (from river-profile map).

Records available.— March 1915 to September 1944 (summer months only during some years).

Extremes.— Maximum discharge during year, 21,900 second-feet June 12 (gage height, 11.05 feet); minimum, 1,260 second-feet Sept. 30 (gage height, 4.42 feet); minimum daily, 1,560 second-feet Sept. 30.

1915-44: Maximum discharge, 47,200 second-feet June 17, 1918 (gage height, 16.97 feet); minimum, 288 second-feet Nov. 5, 1934 (gage height, 2.22 feet).

Maximum discharge known, 70,000 second-feet (estimated) June 6, 1894, at former station at Eagle Rock (now Idaho Falls), 7 miles upstream from present site.

Remarks.— Records excellent except those for periods of ice effect, which are fair. Some regulation by Jackson Lake (see p. 14), Henrys Lake (see p. 48), Island Park Reservoir (see p. 40), and Grassy Lake (see p. 48). Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,940	5,510	4,220	2,750	3,200	3,500	3,330	6,050	11,900	15,000	3,520	2,700
2	2,940	5,470	4,270	2,850	3,250	3,600	3,400	6,240	15,700	11,400	3,330	2,880
3	2,880	5,380	4,270	2,900	3,330	3,600	3,420	5,990	16,200	11,500	3,210	3,290
4	2,960	5,190	4,220	2,900	3,400	3,650	3,520	5,630	18,000	11,200	3,210	3,440
5	3,030	5,880	4,140	2,900	3,500	3,650	3,730	5,190	18,200	10,400	3,370	2,990
6	3,090	5,630	4,070	2,900	3,500	3,650	4,020	5,150	16,600	8,240	3,330	2,490
7	2,960	5,890	4,070	2,800	3,500	3,600	4,380	5,510	15,100	6,770	3,400	2,060
8	2,850	5,600	4,040	2,650	3,550	3,400	4,870	6,050	15,700	6,020	3,480	1,800
9	2,790	5,440	3,900	2,550	3,800	3,290	4,750	6,210	16,000	5,090	3,400	1,690
10	2,790	5,310	3,700	2,550	3,850	3,330	4,640	6,470	17,800	4,170	3,000	1,680
11	2,880	5,310	3,220	2,600	3,800	3,500	4,690	7,130	20,800	3,550	2,650	2,000
12	3,110	5,310	3,280	2,750	3,800	3,520	5,220	7,000	21,700	3,730	2,540	2,720
13	3,480	5,280	3,270	2,900	3,700	3,580	5,630	6,700	20,300	4,410	2,650	2,900
14	3,620	5,000	3,270	3,100	3,550	3,400	5,730	6,660	19,800	4,220	3,550	2,810
15	3,620	5,030	3,320	*3,300	3,600	3,400	5,310	6,670	19,500	3,800	3,870	2,540
16	3,730	5,150	3,370	3,360	3,500	3,400	4,810	6,700	17,800	3,870	3,850	2,540
17	3,830	5,060	3,400	3,440	3,450	3,400	4,380	6,730	17,300	4,120	4,020	3,010
18	3,830	4,780	3,400	3,500	3,400	*3,400	4,250	7,600	17,600	4,120	4,000	3,950
19	4,000	4,720	3,340	3,600	3,350	3,440	4,040	9,080	17,100	4,100	3,520	4,170
20	4,390	4,690	3,520	3,700	3,550	3,550	3,970	9,120	14,200	4,100	3,190	3,550
21	4,720	4,660	3,780	3,700	3,350	3,570	3,900	8,940	10,700	4,270	3,130	2,790
22	4,940	4,660	3,850	3,650	3,370	3,520	4,120	8,450	9,610	4,550	3,000	2,610
23	5,000	4,660	3,780	3,650	*3,500	3,440	4,150	8,210	8,870	4,750	3,000	2,510
24	4,940	4,690	3,710	3,600	3,600	3,440	4,200	7,870	7,840	4,520	2,980	2,470
25	5,060	4,780	3,680	3,600	3,650	3,420	4,380	7,100	6,630	4,100	3,000	2,320
26	4,970	4,660	3,560	*3,600	3,700	3,310	4,550	6,470	6,470	4,000	2,900	2,100
27	4,870	4,450	3,470	3,600	3,600	3,270	4,660	5,950	10,800	3,920	2,860	1,990
28	5,150	4,250	3,250	3,550	3,500	3,190	4,660	5,540	15,600	3,750	2,880	1,760
29	5,280	4,220	2,550	3,450	3,500	3,190	4,940	5,950	17,900	3,620	2,740	1,690
30	5,310	*4,250	2,520	3,300	-	3,190	5,350	8,240	16,200	3,640	2,540	1,560
31	5,470	-	2,590	3,150	-	3,270	-	11,100	-	3,850	2,590	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	121,420	5,470	2,790	3,917	240,800
November.....	150,420	5,890	4,220	5,014	298,400
December.....	111,000	4,270	2,520	3,581	220,200
Calendar year 1943.....	2,963,750	29,800	1,310	8,120	5,879,000
January.....	98,850	3,700	2,550	3,189	196,100
February.....	102,400	3,850	3,200	3,531	203,100
March.....	106,510	3,650	3,190	3,436	211,300
April.....	132,900	5,730	3,330	4,430	265,600
May.....	215,640	11,100	5,150	6,956	427,700
June.....	456,120	21,700	6,470	15,200	904,700
July.....	172,610	13,000	3,550	5,568	342,400
August.....	98,740	4,020	2,540	3,185	195,900
September.....	76,570	4,170	1,560	2,552	151,900
Water year 1943-44.....	1,843,180	21,700	1,560	5,036	3,656,000

* Winter discharge measurement made on this day.

Note.— Stage-discharge relation affected by ice Dec. 9-19, Dec. 26 to Feb. 21, Feb. 24 to Mar. 8 (no gage-height record Dec. 12-15, Jan. 13-14).

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

Diversions from Snake River between Shelley and Clough Ranch gaging stations, Idaho

Between Shelley and Clough Ranch gaging stations, 13 canals divert water from Snake River for irrigation. Records available during each irrigation season from 1919 to 1944. The two largest canals are equipped with recorders, the others with staff gages which are read once daily. Discharge combined to show total diverted flow. Records good.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								488	3,190	3,170	3,020	1,980
2								495	2,780	3,210	2,940	2,320
3								524	2,340	3,190	2,920	2,290
4								576	1,760	3,250	2,890	2,240
5								639	1,770	3,410	2,870	2,170
6								780	1,980	3,490	2,420	2,100
7								821	1,850	3,390	2,470	2,020
8								1,040	1,510	3,400	2,500	1,850
9								1,390	1,030	3,340	2,950	1,700
10								1,100	983	3,300	2,580	1,540
11								834	785	3,080	1,560	1,670
12								919	827	3,080	1,650	1,940
13								1,520	845	3,340	1,530	2,440
14								2,080	863	3,410	2,370	2,470
15								2,440	798	3,340	2,900	2,260
16								2,810	1,050	3,310	2,840	1,910
17								3,040	1,290	2,970	2,530	2,020
18								2,980	1,390	3,450	2,790	1,920
19								2,720	2,200	3,450	2,700	1,680
20								2,720	2,840	3,440	2,550	1,650
21								2,940	3,410	3,450	2,540	1,610
22								2,810	3,550	3,450	2,800	1,540
23								2,790	3,910	3,450	2,580	1,490
24								2,860	3,970	3,360	2,550	1,490
25								3,040	3,730	3,170	2,550	1,520
26								3,310	3,650	3,260	2,700	1,640
27								3,510	3,240	3,380	2,530	1,760
28								3,550	3,220	3,180	2,540	1,830
29								3,570	3,070	3,290	2,500	1,610
30								3,660	2,960	2,980	2,020	1,800
31								3,480	-	2,770	2,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....					
November.....					
December.....					
Calendar year.....					
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	-	-	-	-	-
May.....	65,416	3,660	488	2,111	129,800
June.....	67,082	3,970	785	2,236	133,100
July.....	101,750	3,490	2,770	3,282	201,800
August.....	79,000	3,020	1,630	2,548	156,700
September.....	56,600	2,470	1,480	1,887	112,300
The period.....	-	-	-	-	733,700

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River at Clough Ranch, near Blackfoot, Idaho

Location.- Water-stage recorder, lat. $43^{\circ}07'$, long. $112^{\circ}31'$, in SE $\frac{1}{4}$ sec. 30, T. 3 S., R. 34 E., a quarter of a mile downstream from Blackfoot River and 14 miles southwest of Blackfoot. Altitude of gage, 4,401 feet (from river-profile map).

Records available.- June 1910 to September 1944.

Extremes.- Maximum discharge during year, 20,600 second-feet June 12, 13 (gage height, 9.98 feet); minimum, 177 second-feet Sept. 11, 12 (gage height, 0.48 foot).

1910-44: Maximum discharge, 46,200 second-feet June 18, 1918 (gage height, 14.80 feet); minimum, 111 second-feet Nov. 10, 1934 (gage height, 0.80 foot).

Late in summer of 1905 there was no flow in Snake River for a distance of 10 miles in vicinity of Blackfoot. On Aug. 9, 1905, discharge of Snake River just below mouth of Blackfoot River was 39 second-feet, supplied by ground-water inflow a short distance upstream.

Remarks.- Records excellent except those for periods of no gage-height record, which are fair. Flow partly regulated by Jackson Lake (see p. 14), Henry's Lake (see p. 48) Island Park Reservoir (see p. 40), Grassy Lake (see p. 48), and Blackfoot-Marsh Reservoir, having a combined capacity of 1,483,000 acre-feet. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,960	5,490	4,320	2,510	2,460	3,240	3,190	4,800	8,000	10,100	594	648
2	2,020	5,490	4,260	2,420	2,660	3,320	3,200	5,180	9,150	8,000	335	546
3	2,000	5,430	4,330	2,350	2,780	3,380	3,220	5,200	12,100	7,610	282	674
4	1,980	5,280	4,280	2,300	3,000	3,550	3,340	4,950	15,200	7,560	240	1,080
5	2,020	5,280	4,240	2,250	2,920	3,530	3,460	4,460	15,800	6,900	229	1,090
6	2,160	5,550	4,210	2,200	2,850	3,500	3,610	4,230	14,900	5,590	546	702
7	2,130	5,810	4,190	2,100	3,320	3,400	3,880	4,170	14,100	3,650	750	435
8	2,050	5,710	4,150	2,000	3,540	3,370	4,280	4,560	13,700	2,750	779	246
9	2,000	5,550	4,010	1,790	3,630	3,370	4,480	4,410	14,600	1,970	576	194
10	2,070	5,390	3,690	1,600	3,560	3,370	4,300	4,520	14,900	1,200	405	184
11	2,160	5,330	3,300	1,560	3,320	3,370	4,250	5,350	18,200	667	674	180
12	2,420	5,350	3,270	1,630	3,460	3,480	4,460	5,510	20,200	405	137	
13	2,800	5,320	3,250	1,820	3,160	3,490	4,920	5,120	20,200	534	848	322
14	3,090	5,140	3,320	1,720	3,290	3,360	5,220	4,650	19,200	744	936	415
15	2,610	5,090	3,320	2,000	2,930	3,290	5,050	4,370	17,700	492	888	366
16	3,190	5,070	3,360	2,270	3,140	3,270	4,820	3,780	16,500	286	936	420
17	3,220	5,120	3,420	2,540	3,040	3,300	4,320	3,320	15,500	278	1,000	650
18	3,240	4,980	3,370	2,840	2,960	3,240	4,080	3,720	15,200	588	1,140	1,410
19	3,410	4,740	3,300	2,930	2,610	3,250	3,980	5,240	14,900	350	1,050	2,510
20	3,720	4,690	3,540	2,510	2,780	3,410	3,670	6,090	11,900	302	744	2,280
21	4,240	4,610	3,650	2,870	2,860	3,480	3,530	5,810	8,310	365	546	1,670
22	4,800	4,630	3,850	2,860	2,960	3,590	3,510	5,590	5,790	475	498	1,370
23	4,940	4,710	3,850	2,740	3,000	3,540	3,690	5,280	5,110	716	430	1,270
24	4,940	4,690	3,880	2,780	3,110	3,200	3,720	4,970	4,420	912	395	1,170
25	4,950	4,730	3,790	2,810	3,270	3,190	3,810	4,370	3,780	674	340	1,030
26	4,990	4,780	3,610	2,860	3,320	3,140	4,010	3,520	2,810	540	318	796
27	4,880	4,630	3,600	2,930	3,160	3,060	4,080	2,700	4,350	435	318	540
28	4,900	4,370	3,290	2,840	3,160	2,960	4,060	2,040	9,150	506	345	326
29	5,110	4,260	2,680	2,760	3,520	3,000	4,140	1,790	12,600	254	375	236
30	5,370	4,260	2,480	2,410	-	2,950	4,300	2,680	13,000	218	455	208
31	5,430	-	2,510	2,340	-	3,010	-	5,710	-	355	588	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	105,000	5,430	1,960	3,387	205,300
November.....	181,380	5,810	4,260	5,046	300,300
December.....	112,270	4,330	2,480	3,622	222,700
Calendar year 1943.....	2,448,722	25,400	285	6,709	4,857,000
January.....	73,890	2,930	1,560	2,384	146,600
February.....	89,940	3,650	2,460	3,101	178,400
March.....	102,120	3,530	2,930	3,294	202,600
April.....	120,460	5,220	3,190	4,015	235,900
May.....	137,570	6,090	1,790	4,447	275,600
June.....	370,850	20,200	2,810	12,360	735,600
July.....	65,026	10,100	218	2,098	129,000
August.....	18,372	1,140	229	563	36,440
September.....	23,124	2,510	180	771	46,870
Water year 1943-44.....	1,370,312	20,200	180	3,744	2,718,000

a No gage-height record; discharge computed on basis of records for station near Shelley.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

American Falls Reservoir at American Falls, Idaho

Location.- Water-stage recorder, lat. 42°46', long. 112°53', in sec. 30, T. 7 S., R. 31 E., at outlet gates of reservoir on Snake River at American Falls. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

Records available.- March 1926 to September 1944.

Extremes.- Maximum contents during year, 1,718,600 acre-feet June 13 (elevation, 4,354.83 feet); minimum, 530,040 acre-feet Sept. 22 (elevation, 4,327.16 feet).
1926-44: Maximum contents, 1,726,580 acre-feet June 10, 1938 (elevation, 4,354.97 feet); minimum, 3,240 acre-feet Aug. 30, 1926 (elevation, 4,296.82 feet).

Remarks.- Reservoir is formed by concrete gravity dam with earth dikes at each end; partial storage began in 1926, full storage in 1927. Capacity, 1,700,000 acre-feet between elevations 4,295.66 feet (bottom of outlet gate) and 4,354.50 feet (top of spillway radial gates). Small amount of dead storage. Water is used for irrigation by canals diverting from Snake River at Minidoka and Milner Dams. Contents as given herein are computed from mean daily elevations; all available for release.

Cooperation.- Reservoir elevations and capacity table furnished by Bureau of Reclamation.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	900,580	958,490	1,138,150	1,280,570	1,388,190	1,638,250
2	898,220	966,840	1,144,140	1,284,470	1,396,260	1,642,680
3	895,480	973,510	1,150,600	1,288,850	1,404,330	1,647,650
4	894,690	978,110	1,157,050	1,292,260	1,411,510	1,652,630
5	895,120	981,440	1,164,490	1,297,130	1,420,250	1,656,940
6	891,560	989,970	1,169,670	1,299,090	1,429,510	1,660,920
7	890,380	997,690	1,170,140	1,302,000	1,438,760	1,666,450
8	888,810	1,006,710	1,180,970	1,302,000	1,448,050	1,673,100
9	887,240	1,014,000	1,188,500	1,296,640	1,460,430	1,678,700
10	885,670	1,020,440	1,190,380	1,296,640	1,471,940	1,678,140
11	879,400	1,027,330	1,195,090	1,296,640	1,481,890	1,680,940
12	879,000	1,034,370	1,197,450	1,297,130	1,489,750	1,685,990
13	877,440	1,039,220	1,200,270	1,297,320	1,499,170	1,690,470
14	879,790	1,046,700	1,204,510	1,299,670	1,508,120	1,694,960
15	880,180	1,052,860	1,208,750	1,299,080	1,517,110	1,697,200
16	878,610	1,059,460	1,212,110	1,299,570	1,527,220	1,700,560
17	880,970	1,065,190	1,216,900	1,301,030	1,536,270	1,701,120
18	883,320	1,071,370	1,220,740	1,302,970	1,545,860	1,700,560
19	884,100	1,077,230	1,225,060	1,306,690	1,553,310	1,700,560
20	887,240	1,083,100	1,227,930	1,308,580	1,561,830	1,701,120
21	889,200	1,089,410	1,232,730	1,310,360	1,570,510	1,702,240
22	895,480	1,092,560	1,237,060	1,312,340	1,580,290	1,703,360
23	901,560	1,097,070	1,242,320	1,317,780	1,588,440	1,701,680
24	909,450	1,104,740	1,247,600	1,324,220	1,597,140	1,702,240
25	917,130	1,110,600	1,251,910	1,331,150	1,605,830	1,702,800
26	924,010	1,116,020	1,258,170	1,338,560	1,613,980	1,701,120
27	929,670	1,122,480	1,264,500	1,348,470	1,622,220	1,704,480
28	930,480	1,127,090	1,269,860	1,357,430	1,629,410	1,704,480
29	936,540	1,133,540	1,272,780	1,366,000	1,634,380	1,703,920
30	938,160	1,136,770	1,274,730	1,375,080	-	1,703,360
31	950,150	-	1,277,160	1,381,640	-	1,702,800

SNAKE RIVER MAIN STEM

Contents, in acre-feet, of American Falls Reservoir at American Falls, Idaho, water year
October 1943 to September 1944--Continued

Day	Apr.	May	June	July	Aug.	Sept.
1	1,703,920	1,698,320	1,693,880	1,706,720	1,270,360	762,090
2	1,705,040	1,706,720	1,697,148	1,702,800	1,254,510	751,630
3	1,705,600	1,707,280	1,695,280	1,703,360	1,235,610	737,930
4	1,705,600	1,706,160	1,684,990	1,703,360	1,222,180	723,530
5	1,703,360	1,705,040	1,648,200	1,697,200	1,203,100	710,000
6	1,706,160	1,701,680	1,669,210	1,693,830	1,185,200	697,360
7	1,707,280	1,700,660	1,689,350	1,685,430	1,169,670	683,020
8	1,708,960	1,701,120	1,705,600	1,677,020	1,152,440	669,030
9	1,707,280	1,703,360	1,709,520	1,664,240	1,135,580	653,760
10	1,707,840	1,705,040	1,709,520	1,649,310	1,117,400	640,720
11	1,704,480	1,705,040	1,713,470	1,634,940	1,101,130	626,540
12	1,701,120	1,705,600	1,716,690	1,617,800	1,084,900	613,100
13	1,700,000	1,705,600	1,718,600	1,596,050	1,069,590	598,720
14	1,698,320	1,704,480	1,718,030	1,681,920	1,049,780	581,340
15	1,706,160	1,701,120	1,714,040	1,564,530	1,035,690	569,630
16	1,707,840	1,694,960	1,707,280	1,646,920	1,021,300	556,810
17	1,699,440	1,688,790	1,707,280	1,589,880	1,007,140	548,820
18	1,698,880	1,683,190	1,712,330	1,512,850	990,830	540,310
19	1,696,640	1,676,460	1,712,900	1,496,550	976,440	534,160
20	1,696,080	1,674,780	1,714,610	1,477,700	965,080	533,270
21	1,703,360	1,671,420	1,707,840	1,460,430	948,480	531,220
22	1,705,040	1,665,340	1,696,640	1,444,420	932,090	530,040
23	1,706,720	1,663,680	1,695,880	1,427,960	915,510	531,900
24	1,707,280	1,659,810	1,695,880	1,410,480	896,650	532,390
25	1,702,800	1,652,630	1,696,080	1,393,740	875,470	532,980
26	1,706,160	1,645,440	1,689,910	1,377,100	861,380	533,860
27	1,706,160	1,635,490	1,685,990	1,380,980	847,280	535,570
28	1,704,480	1,624,990	1,686,550	1,344,020	828,600	531,510
29	1,702,800	1,611,270	1,694,400	1,324,710	815,380	530,540
30	1,703,360	1,600,400	1,706,720	1,304,440	801,420	534,450
31	-	1,594,420	-	1,287,390	784,450	-

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	4,337.89	897,050	-
Oct. 31.....	4,339.20	950,150	+53,100
Nov. 30.....	4,343.46	1,136,770	+186,620
Dec. 31.....	4,346.42	1,277,160	+140,390
Calendar year 1943.....	-	-	+324,930
Jan. 31.....	4,349.53	1,381,640	+104,480
Feb. 29.....	4,353.32	1,634,380	+252,740
Mar. 31.....	4,354.55	1,702,800	+68,420
Apr. 30.....	4,354.56	1,703,360	+560
May 31.....	4,352.59	1,594,420	-108,940
June 30.....	4,354.62	1,706,720	+112,300
July 31.....	4,346.63	1,287,390	-419,330
Aug. 31.....	4,354.95	784,450	-502,940
Sept. 30.....	4,327.31	534,450	-250,000
Water year 1943-44.....	-	-	-362,600

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River at Neeley, Idaho

Location.— Water-stage recorder, lat. $42^{\circ}45'$, long. $112^{\circ}54'$, in sec. 31, T. 7 S., R. 31 E., half a mile downstream from American Falls Dam. Datum of gage is 4,241.8 feet above mean sea level (river-profile survey). Records computed to show flow at former site in sec. 11, T. 8 S., R. 30 E., half a mile north of Neeley and 3 miles downstream from present site, by adding inflow between sites.

Records available.— March 1906 to September 1944.

Extremes.— Maximum discharge during year, 23,500 second-feet June 14 (gage height, 9.24 feet); minimum, 65 second-feet Oct. 28 (gage height, 1.10 feet); minimum daily, 810 second-feet Feb. 20.

1906-44: Maximum daily discharge, 48,400 second-feet June 20, 1918 (gage height, 13.5 feet, at site and datum then in use); minimum, 50 second-feet Oct. 22, 23, Nov. 14-16, 1941.

Remarks.— Records excellent. Flow regulated by American Falls Reservoir (see p. 21) and other reservoirs, having a combined usable capacity of 3,200,000 acre-feet. About 700,000 acres of land irrigated by water diverted from river and tributaries above station.

Cooperation.— Gage-height record furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,880	4,610	4,870	4,300	1,720	3,870	5,920	7,390	9,340	14,900	11,800	10,900
2	5,850	4,350	4,340	4,200	1,680	3,870	5,920	7,670	8,210	11,800	11,800	11,000
3	5,810	4,560	4,380	4,340	1,540	3,880	5,920	8,420	8,870	10,900	11,500	11,100
4	5,630	4,820	4,400	4,320	1,400	4,140	5,880	8,780	8,870	11,800	11,600	10,700
5	5,640	4,690	3,160	4,410	1,210	3,980	5,840	8,750	7,030	11,500	11,400	10,500
6	5,640	4,720	4,380	4,380	1,280	3,940	5,540	7,960	7,830	11,500	11,300	10,300
7	5,610	4,710	4,420	4,520	1,230	3,940	5,840	6,750	8,290	11,200	11,400	10,200
8	5,720	4,720	4,380	5,760	1,220	3,940	7,330	6,060	11,400	11,100	11,500	9,860
9	5,710	4,770	4,380	6,340	1,240	4,380	7,330	6,830	18,700	11,200	11,700	9,640
10	5,720	4,740	4,400	4,530	1,780	6,130	5,880	7,830	16,600	11,600	11,800	9,860
11	5,780	4,770	4,380	4,150	1,550	5,600	9,810	8,120	17,900	11,600	11,700	10,000
12	5,830	4,770	4,380	4,390	1,570	3,330	8,320	8,250	21,900	11,600	11,500	9,980
13	5,720	4,840	4,380	4,030	1,610	4,050	7,350	8,250	21,900	11,700	11,600	9,940
14	5,790	4,820	4,380	4,150	1,520	4,530	6,770	8,460	22,600	11,700	11,700	10,100
15	5,710	4,810	4,420	4,900	1,610	4,820	6,560	8,670	23,300	11,800	11,500	9,940
16	5,690	4,790	4,230	4,410	1,250	4,070	8,680	8,920	20,600	11,900	11,400	9,130
17	5,790	4,840	4,240	4,750	1,100	5,690	9,940	9,680	17,800	12,100	11,000	8,420
18	5,790	4,840	4,280	3,970	1,110	5,990	9,000	10,500	16,600	12,100	10,800	7,550
19	5,690	4,910	4,260	3,970	1,170	6,030	8,610	10,600	16,700	11,900	10,700	6,560
20	5,340	4,890	4,260	5,410	810	5,990	5,020	10,200	16,700	11,600	10,800	5,880
21	5,330	4,910	4,260	4,510	1,500	6,030	3,760	9,980	16,600	11,900	11,200	5,020
22	5,140	4,890	4,160	4,310	938	6,060	5,590	10,000	11,000	11,800	11,400	4,040
23	4,820	4,940	4,140	1,930	998	6,100	5,820	10,300	7,230	11,600	11,400	3,880
24	4,820	4,920	4,200	1,930	1,610	6,080	6,640	10,400	7,830	11,500	11,100	3,880
25	4,440	4,800	4,190	1,720	1,630	6,060	7,190	10,300	8,970	11,500	10,900	3,880
26	4,420	4,770	4,160	1,290	1,580	6,060	7,230	10,300	8,750	11,700	10,800	4,430
27	5,110	4,820	4,160	1,120	1,580	6,030	7,270	10,500	8,750	11,700	10,700	4,590
28	6,970	4,640	4,180	1,100	3,850	6,030	7,230	10,500	8,630	11,900	10,800	3,070
29	4,750	4,790	4,200	1,120	3,920	6,030	7,270	10,400	9,430	12,100	10,800	2,980
30	4,600	4,820	4,180	1,700	-	5,990	7,270	10,400	11,600	12,200	10,900	2,500
31	4,570	-	4,180	1,680	-	5,990	-	10,300	-	12,200	10,900	-

Month	Second- days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	168,210	6,970	4,220	5,426	333,600
November.....	143,310	4,980	4,330	4,777	284,500
December.....	132,320	4,870	3,160	4,268	262,600
Calendar year 1943.....	3,361,110	30,000	2,320	9,181	6,646,000
January.....	113,640	6,340	1,100	3,666	226,400
February.....	45,034	3,920	810	1,553	89,320
March.....	169,220	6,130	3,330	5,136	315,800
April.....	209,030	9,940	3,760	6,988	414,600
May.....	281,480	10,800	6,060	9,080	559,500
June.....	332,930	23,300	8,670	13,100	779,600
July.....	364,700	14,900	10,900	11,760	723,400
August.....	349,000	11,800	10,700	11,280	692,800
September.....	229,230	11,100	2,500	7,641	454,700
Water year 1943-44.....	2,588,104	23,300	810	7,071	5,134,000

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Lake Walcott near Minidoka, Idaho

Location.- Staff gage, lat. 42°40', long. 113°29', in sec. 1, T. 9 S., R. 25 E., in powerhouse at Minidoka Dam on Snake River, 6 miles southeast of Minidoka. Datum of gage is 4,200.00 feet above datum of Bureau of Reclamation, which is 49.52 feet below mean sea level.

Records available.- April 1909 to September 1917 (gage heights only), October 1917 to September 1944.

Extremes.- Maximum contents during year, 98,560 acre-feet May 14 (gage height, 45.28 feet); minimum, 35,400 acre-feet Oct. 27 (gage height, 39.56 feet).
1909-44: Maximum contents, 110,740 acre-feet Aug. 8, 1922 (gage height, 46.28 feet); minimum, -101,410 acre-feet Nov. 17, 1941 (gage height, 15.19 feet).

Remarks.- Reservoir is formed by rock-fill dam with concrete core; storage began in 1909. Capacity, 107,240 acre-feet between gage height 36.00 feet (sill of powerhouse penstock) and 46.00 feet (top of flashboards). Dead storage, about 115,000 acre-feet. Gage read at 8 a.m. and 4 p.m. Contents given herein are computed from mean gage heights. Water used for power development and irrigation on Minidoka project of Bureau of Reclamation.

Cooperation.- Gage-height record and capacity table furnished by Bureau of Reclamation.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41,760	38,920	41,440	39,030	45,030	55,580	96,150	94,020	96,630	97,350	96,030	92,860
2	42,600	38,920	43,550	38,920	45,670	60,200	96,150	97,110	96,150	96,630	96,630	94,720
3	42,180	38,400	43,550	38,610	46,500	64,690	96,030	96,750	94,020	96,030	95,670	95,910
4	41,760	38,300	43,760	38,720	46,400	68,860	95,910	96,510	95,320	96,630	96,150	96,630
5	41,020	36,230	42,710	38,720	46,090	72,940	94,950	96,590	95,380	96,150	96,390	96,870
6	40,580	37,780	41,440	39,340	45,880	77,450	95,910	95,310	95,200	97,350	95,910	96,750
7	39,960	37,300	41,020	39,560	45,290	80,630	95,670	94,490	94,250	96,630	96,150	95,870
8	39,130	38,510	41,560	40,490	45,560	84,350	95,270	94,490	95,550	96,630	95,670	97,470
9	38,720	38,720	42,180	47,040	45,450	87,500	95,150	94,490	96,270	96,390	95,310	96,030
10	38,200	38,920	42,180	46,930	45,670	91,110	96,630	95,670	96,270	96,150	95,310	96,180
11	36,120	38,920	42,500	46,720	46,190	95,910	95,910	96,630	96,870	96,510	95,430	94,720
12	37,470	39,340	42,070	46,090	46,510	95,670	94,720	97,350	95,950	96,390	95,430	94,500
13	37,260	39,920	42,600	45,450	46,930	94,020	95,550	97,590	97,590	95,430	95,430	95,790
14	37,890	39,440	42,920	45,240	47,870	94,720	95,180	96,560	96,630	95,790	95,180	95,390
15	38,300	39,750	43,130	45,240	47,870	94,720	97,350	96,080	96,990	95,670	96,150	94,020
16	37,890	40,170	42,920	45,240	47,780	92,510	95,910	97,840	96,390	95,310	96,390	94,490
17	38,090	40,170	42,510	45,030	47,870	91,460	94,950	94,950	96,630	95,180	96,870	94,020
18	38,200	40,380	42,800	45,450	46,930	93,090	94,950	94,950	96,320	95,430	95,910	94,950
19	36,890	40,380	42,390	44,080	46,510	93,090	94,720	96,870	96,080	96,080	95,180	94,950
20	38,750	40,700	42,280	45,560	45,980	94,140	94,490	97,110	96,440	96,150	94,950	94,490
21	39,340	41,020	42,280	45,870	45,450	94,950	95,870	96,630	97,840	95,790	95,070	95,090
22	39,550	40,910	42,070	45,870	45,140	95,790	95,430	95,670	96,630	96,150	95,670	91,690
23	39,130	41,230	41,650	45,240	44,190	95,670	95,670	96,030	96,150	96,150	96,150	88,900
24	37,990	41,970	41,650	46,510	43,550	96,150	95,070	96,150	95,910	95,310	95,560	87,270
25	36,850	42,180	40,910	46,930	43,760	96,390	95,180	96,390	94,950	94,950	95,180	84,940
26	36,120	42,070	40,910	46,080	44,400	96,030	97,350	96,750	94,370	94,250	94,950	81,610
27	35,400	42,500	41,120	45,030	45,030	96,030	95,080	96,630	94,020	94,250	95,070	80,610
28	38,920	42,920	41,020	43,760	46,400	95,910	96,630	96,870	94,370	94,490	94,140	79,710
29	39,440	42,710	40,170	43,550	51,060	95,790	95,670	96,630	94,950	94,720	94,490	77,680
30	37,570	42,390	39,560	43,130	-	95,180	95,550	96,150	95,910	94,950	94,600	78,020
31	38,720	-	39,340	44,190	-	95,430	-	96,870	-	95,550	95,070	-

Monthly gage height and contents, water year October 1943 to September 1944

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	40.26	42,710	-
Oct. 31.....	39.88	38,720	-3,990
Nov. 30.....	40.23	42,390	+3,670
Dec. 31.....	39.94	39,340	-3,050
Calendar year 1943.....	-	-	+29,610
Jan. 31.....	40.40	44,190	+4,850
Feb. 29.....	41.05	51,060	+6,870
Mar. 31.....	44.02	95,430	+44,370
Apr. 30.....	45.03	95,550	+120
May 31.....	45.14	96,870	+1,320
June 30.....	45.06	95,910	-960
July 31.....	45.03	95,550	-360
Aug. 31.....	44.99	95,070	-480
Sept. 30.....	43.51	78,020	-17,050
Water year 1943-44.....	-	-	+35,310

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River near Minidoka, Idaho

Location.— Water-stage recorder, lat. 42°40', long. 113°30', in sec. 2, T. 9 S., R. 25 E., 1 mile downstream from Minidoka Dam and 6 miles southeast of Minidoka. Datum of gage is 4,132.2 feet above mean sea level (river-profile survey).

Records available.— April 1910 to September 1944. August 1895 to December 1899, May 1901 to December 1910 at site at Montgomery Ferry, 6 miles downstream.

Extremes.— Maximum discharge during year, 23,800 second-feet June 15 (gage height, 11.88 feet); minimum daily, 1,380 second-feet Jan. 30.
1910-44: Maximum discharge, 45,900 second-feet June 21, 1918 (gage height, 16.02 feet); minimum, 59 second-feet Nov. 18, 1936 (gage height, 1.56 feet).

Remarks.— Records good. Flow regulated by American Falls Reservoir (see p. 21), Lake Waicott (see p. 24), and other reservoirs, having a combined usable capacity of about 3,300,000 acre-feet, and greatly reduced by diversions above station for irrigation.

Cooperation.— Gage-height record furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,250	4,890	4,670	4,560	1,570	1,700	5,900	6,850	7,380	19,600	8,750	8,270
2	4,780	4,870	4,390	4,480	1,550	1,730	5,920	6,680	6,900	10,100	8,750	8,270
3	4,830	4,870	4,390	4,300	1,550	1,760	5,950	7,700	6,710	8,060	8,780	8,180
4	4,850	4,920	4,370	4,520	1,750	1,860	5,920	8,120	6,630	7,880	8,660	8,060
5	4,870	4,920	4,370	4,610	1,750	1,960	5,880	7,970	6,280	8,240	8,510	7,970
6	4,870	4,940	4,370	4,610	1,700	1,970	5,710	7,500	6,250	8,360	8,420	7,880
7	4,850	4,890	4,370	4,590	1,690	2,010	5,810	6,000	6,490	8,330	8,420	7,250
8	4,890	4,850	4,370	4,520	1,680	2,120	6,850	5,170	8,840	8,300	8,570	7,620
9	4,870	4,860	4,320	4,430	1,640	2,730	8,120	5,210	16,300	8,500	8,570	7,700
10	4,920	4,830	4,320	4,430	1,560	3,580	8,990	5,860	16,300	8,420	8,540	7,650
11	5,140	4,850	4,320	4,520	1,570	4,370	10,300	6,180	17,200	8,570	8,510	7,680
12	5,030	4,850	4,340	4,650	1,570	4,430	8,360	6,180	21,100	8,600	8,510	7,590
13	4,960	4,850	4,370	4,650	1,600	4,210	6,380	6,180	22,100	8,780	8,540	7,470
14	4,920	4,850	4,390	4,650	1,610	4,260	6,360	6,260	23,000	8,810	8,690	7,560
15	4,890	4,830	4,390	4,650	1,600	5,100	6,310	6,440	23,600	8,870	8,630	7,380
16	4,940	4,830	4,370	4,650	1,600	5,830	7,620	6,650	20,800	8,870	8,570	6,990
17	4,940	4,850	4,340	4,650	1,600	6,000	10,200	7,330	17,000	8,870	8,540	6,440
18	4,980	4,850	4,340	4,670	1,620	5,640	9,420	7,530	15,800	8,870	8,530	5,950
19	4,980	4,850	4,370	4,670	1,620	5,660	6,540	7,650	15,800	8,900	8,300	5,370
20	5,030	4,860	4,410	4,670	1,620	5,750	4,960	7,500	15,900	8,690	8,120	5,010
21	5,030	4,850	4,410	3,670	1,610	5,610	3,700	7,330	15,700	8,690	8,210	4,630
22	4,980	4,870	4,430	4,670	1,650	5,660	5,030	7,380	11,300	8,810	8,420	4,300
23	4,960	4,870	4,430	2,710	1,610	5,730	5,120	7,380	5,780	8,990	8,660	3,780
24	4,940	4,860	4,430	1,790	1,610	5,850	5,610	7,500	6,150	8,990	8,630	3,620
25	4,920	4,860	4,500	2,030	1,620	6,150	6,150	7,500	6,640	8,990	8,450	3,760
26	4,890	4,850	4,480	2,030	1,600	6,250	6,540	7,650	6,790	8,930	8,530	3,810
27	4,890	4,850	4,410	2,030	1,600	6,180	6,740	7,680	6,740	8,810	8,270	3,810
28	4,940	4,870	4,430	1,700	1,610	6,100	6,990	7,680	6,460	8,780	8,240	3,800
29	4,920	4,830	4,430	1,410	1,660	6,100	6,850	7,680	6,630	8,960	8,240	2,170
30	4,920	4,850	4,480	1,380	-	5,980	6,520	7,730	7,620	9,110	8,180	1,920
31	4,940	-	4,500	1,580	-	5,900	-	7,620	-	8,990	8,150	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	151,120	5,140	3,250	4,875	299,700
November.....	145,940	4,960	4,830	4,665	289,500
December.....	136,510	4,670	4,320	4,404	270,800
Calendar year 1943.....	2,988,480	29,700	2,290	8,188	5,927,000
January.....	117,480	4,670	1,380	3,790	233,000
February.....	47,000	1,750	1,550	1,621	93,220
March.....	138,160	6,250	1,700	4,457	274,000
April.....	200,570	10,300	3,700	6,686	397,800
May.....	218,070	8,120	5,170	7,035	432,600
June.....	360,090	23,600	5,780	12,000	714,200
July.....	274,470	12,600	7,880	8,654	544,400
August.....	262,490	8,760	8,120	8,467	520,600
September.....	161,670	8,270	1,920	6,056	360,500
Water year 1943-44.....	2,233,570	23,600	1,380	6,103	4,430,000

* Winter discharge measurement made on this day.

Note.— Stage-discharge relation affected by ice Dec. 29, Jan. 1-30, Feb. 3, 4, 6-17.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

SNAKE RIVER MAIN STEM

Snake River at Milner, Idaho

Location.— Water-stage recorder, lat. 42°32', long. 114°01', in sec. 29, T. 10 S., R. 21 E., at Milner, a quarter of a mile downstream from Milner Dam. Altitude of gage, 4,062 feet (from river-profile map).

Records available.— May 1909 to September 1944.

Extremes.— Maximum discharge during year, 19,700 second-feet June 15 (gage height, 18.84 feet); minimum daily, 6 second-feet July 13.

1909-44: Maximum discharge, 44,400 second-feet June 12, 1909 (gage height, 20.10 feet, site and datum then in use); minimum, 2 second-feet Mar. 17-28, 1936 (gage height, 1.18 feet).

Remarks.— Records excellent except those below 50 second-feet and those for periods of ice effect, which are fair. Flow regulated by American Falls Reservoir (see p. 21). Lake Walcott (see p. 24), and other reservoirs having a combined usable capacity of about 3,300,000 acre-feet, and greatly reduced by diversions above Milner Dam for irrigation. About 1,300,000 acres of land irrigated by diversion from river and its tributaries above station. Flow includes some stored water released for use downstream by Idaho Power Co.

Cooperation.— Gage-height record furnished by Twin Falls Canal Co. and North Side Canal Co.

Rating table, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 15 to Sept. 30)

1.5	10	2.9	135	5.5	1,060	13.0	9,290
1.7	17	3.3	207	6.0	1,500	15.6	13,200
2.0	32	3.8	336	7.0	2,540	17.0	18,600
2.3	58	4.4	531	9.0	4,620	20.0	22,800
2.6	94	5.0	775	11.0	6,760		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	480	4,820	3,500	3,610	587	744	4,790	3,920	9	2,850	9	125
2	2,730	4,720	3,790	3,580	687	655	4,780	4,230	121	5,000	9	125
3	2,910	4,170	3,620	3,130	553	721	4,520	4,940	9	553	9	122
4	2,970	3,720	3,550	3,190	531	898	3,550	5,440	9	109	9	124
5	2,980	3,260	3,510	3,700	775	755	3,520	4,540	9	10	9	125
6	2,980	4,110	3,440	3,790	937	798	3,030	3,900	8	9	9	125
7	2,990	3,890	3,410	3,750	925	1,280	3,020	1,750	8	8	9	124
8	3,010	3,780	3,430	3,590	940	1,400	3,990	551	1,060	8	8	122
9	2,990	3,620	3,450	3,350	559	1,350	6,140	103	10,200	8	8	122
10	2,990	3,890	3,480	3,310	510	1,990	6,440	60	11,400	8	8	124
11	5,850	3,610	3,480	3,390	620	2,930	6,260	93	12,300	7	26	124
12	4,320	3,840	3,460	3,660	705	3,890	3,230	449	15,600	7	122	122
13	3,320	3,850	3,470	3,870	697	3,260	4,720	61	17,000	6	122	122
14	3,520	3,840	3,470	3,710	688	3,670	3,850	12	17,900	7	121	122
15	3,520	4,240	3,510	3,700	688	3,400	4,060	11	18,900	7	120	122
16	3,620	4,060	3,540	3,680	701	4,800	6,000	10	17,600	7	120	122
17	3,630	3,790	3,520	3,680	705	4,400	6,330	9	13,100	7	129	121
18	3,800	3,970	3,520	3,710	710	5,290	6,630	9	10,800	7	128	122
19	3,760	4,040	3,520	3,810	710	3,760	5,440	11	10,600	7	127	122
20	4,520	3,990	3,510	3,720	622	4,770	2,140	13	10,500	7	125	131
21	3,940	4,000	3,520	3,780	516	5,070	3,340	12	10,000	7	124	121
22	4,180	3,870	3,540	3,880	663	4,520	3,920	10	8,150	7	121	118
23	3,990	3,920	3,560	3,440	705	3,970	4,360	9	892	8	120	121
24	3,670	4,320	3,570	1,260	659	4,670	4,310	8	102	9	121	121
25	3,620	4,140	3,530	898	538	4,910	5,310	8	14	9	125	121
26	3,700	3,910	3,550	985	568	4,950	5,180	8	14	9	125	122
27	3,710	3,940	3,590	bl,160	586	4,980	5,100	10	22	10	125	122
28	4,080	3,940	3,590	bl,030	680	5,630	4,820	10	283	9	124	124
29	4,470	3,930	3,590	bl,687	664	6,460	5,320	9	12	8	125	122
30	3,580	3,920	3,620	bl,456	-	5,320	3,990	8	-	8	125	122
31	6,040	-	3,650	bl,410	-	5,080	-	6	-	8	125	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	110,760	6,830	480	3,573	219,700
November.....	119,490	4,820	3,260	3,983	237,000
December.....	108,480	3,790	2,890	3,499	215,200
Calendar year 1943.....	1,605,814	63,000	18	4,592	3,185,000
January.....	89,628	5,980	410	2,888	177,500
February.....	19,539	937	510	574	38,760
March.....	105,112	5,620	665	3,591	208,500
April.....	147,890	6,630	2,140	4,930	293,300
May.....	30,042	6,440	8	969	59,590
June.....	186,631	18,900	8	6,221	370,200
July.....	6,704	3,000	8	316	15,300
August.....	2,560	129	8	68.5	6,140
September.....	3,670	230	118	129	7,660
Water year 1943-44.....	930,654	18,900	6	2,543	1,846,000

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River near Kimberly, Idaho

Location.— Water-stage recorder, lat. 42°36', long. 114°22', in NW¼ sec. 4, T. 10 S., R. 18 E., 1,200 feet downstream from Twin Falls power plant, 2½ miles upstream from Shoshone Falls, and 4 miles north of Kimberly.

Records available.— July 1923 to September 1944.

Extremes.— Maximum discharge during year, 18,100 second-feet June 15 (gage height, 18.65 feet); minimum, 10 second-feet (regulated) May 17 (gage height, 1.15 feet); minimum daily, 175 second-feet May 17.

1923-44: Maximum discharge, 27,200 second-feet July 4, 1927 (gage height, 14.76 feet, site and datum then in use), from rating curve extended above 20,000 second-feet; minimum, undetermined leakage through Twin Falls power plant at times since Nov. 23, 1935.

Remarks.— Records excellent except those for periods of no gage-height record, which are fair. Flow regulated by Twin Falls power plant and several reservoirs above station. Practically entire flow is diverted at Milner during irrigation season; no diversions between Milner and Kimberly.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used June 9-23)

3.1	173	5.5	735	10.0	3,340
3.5	238	6.0	910	12.0	5,580
4.0	332	7.0	1,340	14.2	9,070
4.5	445	8.0	1,880		
5.0	580	9.0	2,510		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	990	5,180	3,910	3,790	840	1,020	4,920	4,060	387	1,080	364	566
2	1,930	5,010	3,900	3,770	908	1,280	4,960	4,300	534	3,470	404	592
3	3,120	4,640	3,930	3,450	1,030	1,010	4,990	4,950	376	1,860	422	564
4	3,250	4,060	3,770	3,320	974	1,320	3,930	5,800	403	934	398	597
5	3,210	3,510	3,740	3,510	982	1,170	3,570	4,650	482	655	450	599
6	3,210	4,160	3,710	4,080	1,420	1,140	3,310	4,280	366	468	374	593
7	3,220	4,160	3,660	3,930	1,410	1,330	3,080	2,530	284	422	462	602
8	3,270	3,990	3,840	3,800	1,360	1,760	3,880	1,530	591	488	413	599
9	3,250	3,990	3,890	3,480	1,230	1,640	6,220	840	7,920	310	428	636
10	3,260	4,120	3,690	3,510	934	2,060	6,520	507	11,500	476	424	530
11	5,300	4,010	3,690	3,550	980	2,650	8,420	458	11,800	366	438	590
12	5,120	4,070	3,690	4,030	1,150	4,010	8,780	535	14,800	391	618	598
13	3,700	4,080	3,680	4,020	1,080	3,410	5,380	620	15,800	412	368	603
14	3,730	4,080	3,680	3,990	1,080	3,690	4,220	504	16,800	422	580	584
15	3,900	4,380	3,690	4,010	1,080	3,460	3,540	384	17,600	418	537	601
16	3,850	4,490	3,730	3,960	1,080	4,600	6,180	468	17,000	395	540	648
17	3,960	4,000	3,720	3,950	1,080	4,500	8,030	178	12,900	430	572	580
18	3,980	4,120	3,720	3,950	1,080	6,350	9,070	443	11,400	418	576	658
19	4,050	4,320	3,730	4,120	1,070	4,340	6,920	372	10,800	406	592	627
20	4,760	4,210	3,730	4,000	1,070	4,520	2,950	380	10,800	484	524	630
21	4,360	4,270	3,730	3,900	974	5,060	2,640	366	10,200	392	554	640
22	4,490	4,100	3,740	4,070	891	4,750	4,020	368	9,070	384	670	628
23	4,360	4,120	3,750	4,000	1,080	4,230	4,640	370	2,640	348	529	620
24	4,100	4,400	3,750	2,070	1,090	4,460	4,350	380	841	463	576	552
25	4,700	4,540	3,740	1,590	1,010	5,240	5,450	366	502	438	560	588
26	4,000	4,120	3,730	1,330	942	4,960	5,350	401	438	426	600	602
27	4,030	4,140	3,760	1,620	938	5,080	5,350	360	474	378	529	627
28	4,180	4,140	3,820	1,620	974	5,860	4,860	338	414	404	587	598
29	4,860	4,180	3,140	1,380	1,050	5,690	4,680	388	646	341	566	630
30	4,140	4,150	3,850	982	-	5,440	4,300	352	498	392	566	656
31	4,810	-	3,890	784	-	5,390	-	386	-	411	566	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	118,020	5,300	990	3,807	234,100
November.....	126,710	5,180	3,510	4,224	251,300
December.....	115,200	3,910	3,140	3,716	228,500
Calendar year 1943	1,666,786	21,600	342	4,567	3,506,000
January.....	99,866	4,120	784	3,221	198,100
February.....	30,767	1,420	840	1,061	61,030
March.....	110,160	5,560	1,020	3,554	218,500
April.....	154,490	9,070	2,640	6,150	306,400
May.....	41,918	8,900	175	1,352	83,140
June.....	187,448	17,600	284	6,248	371,800
July.....	15,651	3,470	310	602	36,990
August.....	16,884	618	364	508	31,110
September.....	18,099	662	530	603	35,900
Water year 1943-44	1,037,031	17,600	175	2,833	2,057,000

a No gage-height record; discharge computed on basis of records for station near Twin Falls.

Time Basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River near Twin Falls, Idaho

Location.- Water-stage recorder, lat. 42°36', long. 114°29', in SW¹/₄ sec. 33, T. 9 S., R. 17 E., at Perrine Bridge, 200 feet upstream from outlet of Blue Lakes, 4 miles north of city of Twin Falls, and 4 miles downstream from Shoshone Falls.

Records available.- September 1911 to June 1917, May 1919 to September 1944.

Extremes.- Maximum discharge during year, 19,300 second-feet June 15 (gage height, 11.46 feet); minimum not determined (probably occurred May 18 when float was restrained by mud in well); minimum daily, 439 second-feet July 10.

1911-17, 1919-44: Maximum discharge observed, 32,200 second-feet June 10, 1914 (gage height, 13.3 feet); minimum, 250 second-feet (estimated) Apr. 16, 1936; minimum daily, 311 second-feet Apr. 17, 1936.

Remarks.- Records good except those for Jan. 9-11, May 18, which are fair. Flow regulated by American Falls Reservoir and other reservoirs, and by Twin Falls and Shoshone Falls power plants. No diversion except by small ranch ditches between this station and station at Milner, where practically entire flow is diverted during irrigation season.

Correction.- Corrected figures of discharge, in second-feet, in the water year 1942, superseding erroneous figures published in Water-Supply Paper 963, are given herewith:

Apr. 24.....12,300
25.....14,000
26.....14,300

Rating tables, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

Oct. 1-12

Oct. 12 to Sept. 30

3.2	1,200	5.0	3,500	2.1	423	3.5	1,570	7.0	7,680
3.5	1,510	6.0	5,180	2.4	594	4.0	2,210	9.0	12,600
4.0	2,100	7.3	7,930	2.7	809	5.0	3,770	11.4	19,100
				3.0	1,060	6.0	5,570		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,240	5,970	4,570	4,300	955	1,230	5,380	4,530	565	712	601	742
2	1,420	5,810	4,320	4,260	998	1,350	5,400	4,660	614	3,230	594	779
3	3,360	5,320	4,510	3,920	1,200	1,310	5,440	5,440	749	2,740	614	779
4	4,500	4,640	4,300	3,740	1,180	1,360	4,420	6,260	628	1,320	808	841
5	3,520	4,090	4,280	4,230	1,130	1,460	3,970	5,190	551	950	594	779
6	3,500	4,660	4,210	4,590	1,450	1,320	3,770	4,780	684	712	621	817
7	3,500	4,800	4,160	4,420	1,580	1,390	3,480	3,210	614	569	635	825
8	3,550	4,660	4,140	4,330	1,560	1,900	4,200	1,910	621	551	594	825
9	3,530	4,660	4,180	44,000	1,470	1,880	6,420	1,240	6,890	544	614	825
10	3,530	4,710	4,180	44,000	1,210	2,180	6,950	905	12,200	439	808	809
11	4,180	4,660	4,180	44,000	1,080	2,890	8,670	684	12,200	557	608	779
12	6,720	4,680	4,180	4,320	1,320	4,370	9,450	575	15,800	475	645	841
13	4,590	4,660	4,180	4,410	1,260	4,020	6,420	712	16,900	486	764	825
14	4,200	4,640	4,180	4,480	1,270	3,990	4,890	691	18,100	551	828	841
15	4,410	4,870	4,180	4,480	1,250	3,960	4,040	635	18,900	557	655	817
16	4,460	5,150	4,260	4,440	1,250	4,910	6,440	614	18,400	521	742	825
17	4,650	4,770	4,210	4,440	1,250	5,210	8,230	492	14,000	532	727	835
18	4,570	4,620	4,230	4,410	1,240	5,680	9,680	440	11,700	538	756	872
19	4,750	4,910	4,230	4,670	1,230	5,050	7,840	598	11,200	515	734	930
20	5,130	4,840	4,250	4,480	1,220	4,760	3,900	532	11,400	526	727	880
21	5,150	4,870	4,250	4,330	1,190	5,480	2,610	498	11,100	538	756	825
22	5,000	4,890	4,260	4,510	1,060	5,270	4,530	557	10,590	544	727	872
23	5,030	4,710	4,260	4,510	1,150	4,690	5,030	569	4,850	509	756	856
24	4,780	4,980	4,260	2,610	1,270	4,860	4,800	544	1,210	504	727	825
25	4,320	5,190	4,260	1,650	1,240	5,770	5,650	521	841	614	772	809
26	4,550	4,710	4,230	1,530	1,130	5,340	5,810	532	727	532	749	802
27	4,550	4,760	4,260	1,710	1,120	5,550	5,830	516	676	538	742	809
28	4,730	4,760	4,140	1,800	1,120	6,070	5,400	504	588	521	742	794
29	5,490	4,770	3,580	1,650	1,210	6,130	5,150	532	655	538	786	809
30	4,980	4,770	3,990	1,830	-	5,910	4,860	521	742	555	772	913
31	5,060	-	4,390	981	-	5,870	-	526	-	655	779	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	131,790	6,720	1,240	4,261	261,400
November.....	145,110	5,970	4,090	4,837	287,800
December.....	130,810	4,570	3,680	4,220	259,500
Calendar year 1943	1,841,092	25,900	485	5,044	3,652,000
January.....	112,531	4,590	981	5,630	223,200
February.....	35,593	1,580	955	1,227	70,800
March.....	121,130	6,130	1,230	3,907	240,500
April.....	168,720	9,680	2,610	5,824	354,700
May.....	49,898	6,260	440	1,610	95,870
June.....	204,603	18,900	551	6,220	408,800
July.....	23,041	3,230	439	743	45,700
August.....	21,380	788	594	690	42,410
September.....	24,778	950	742	825	49,150
Water year 1943-44	1,169,584	18,900	439	3,195	2,520,000

d Doubtful gage-height record because of restrained float; discharge computed on basis of records for station near Kimberly.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River below Lower Salmon Falls, near Hagerman, Idaho

Location.— Water-stage recorder, lat. 42°51'36", long. 114°54'42", in lot 3, sec. 2, T. 7 S., R. 13 E., half a mile downstream from Lower Salmon Falls power plant, 1 mile upstream from Big Wood (Maia) River, and 3½ miles north of Hagerman.

Records available.— November 1937 to September 1944.

Extremes.— Maximum discharge during year, 25,100 second-feet June 15 (gage height, 14.40 feet); minimum, 4,890 second-feet (regulated) July 16 (gage height, 6.03 feet); minimum daily, 5,710 second-feet May 28, 28.

1937-44: Maximum discharge, 28,800 second-feet June 7, 1943 (gage height, 15.66 feet), from rating curve extended above 22,000 second-feet; minimum, 3,800 second-feet (regulated) Mar. 28, 29, 1938 (gage height, 5.40 feet), from rating curve extended below 5,000 second-feet; minimum daily, 5,110 second-feet May 17, 1940.

Remarks.— Records excellent. Flow regulated by Lower Salmon Falls power plant and many reservoirs above station. Practically entire flow at Milner diverted during irrigation season; only minor diversions below Milner.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

6.4	5,580	9.0	11,000	12.0	18,500
7.0	6,720	10.0	13,400	13.0	21,200
8.0	8,760	11.0	15,900	14.2	24,500

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,650	12,400	10,700	10,100	6,760	7,070	10,700	10,000	5,960	6,490	6,440	6,800
2	7,690	11,700	10,200	10,200	6,800	7,090	10,600	10,100	6,240	7,980	6,420	6,820
3	9,210	11,400	10,500	9,900	6,930	7,260	10,800	10,600	6,590	8,740	6,490	6,970
4	9,920	10,500	10,300	9,340	7,030	7,150	10,300	11,100	6,350	7,260	6,560	6,930
5	9,980	10,200	10,200	9,430	7,110	7,250	9,150	10,500	6,680	6,780	6,590	6,930
6	10,000	10,100	10,200	10,100	7,090	7,150	9,060	10,100	6,610	6,610	6,620	6,910
7	10,100	11,000	10,100	10,100	7,410	7,090	8,740	9,260	6,530	6,280	6,870	6,990
8	10,100	10,800	10,100	9,980	7,430	7,270	8,930	7,690	6,610	6,170	6,640	6,960
9	10,100	10,800	10,000	9,880	7,290	7,670	11,000	7,060	6,890	6,160	6,610	6,970
10	10,200	10,900	10,000	9,450	7,190	7,670	12,200	6,490	18,000	6,090	6,620	7,030
11	10,200	10,800	9,830	9,480	6,910	8,050	13,400	6,510	18,100	6,090	6,590	7,060
12	13,500	10,800	9,920	9,760	6,950	9,390	15,000	6,190	20,500	6,090	6,560	7,060
13	11,200	10,800	10,000	10,000	7,050	9,980	13,300	6,150	22,200	5,940	6,610	7,110
14	10,500	10,900	9,920	10,000	7,090	9,120	10,700	6,190	23,700	6,020	6,620	7,090
15	10,700	10,800	9,920	10,100	7,070	9,540	9,700	6,070	24,300	6,090	6,530	7,110
16	10,800	11,300	10,000	10,100	7,030	9,980	11,100	5,960	24,300	6,090	6,660	7,170
17	10,800	10,700	10,000	10,100	6,990	11,100	13,300	5,920	21,800	6,090	6,660	7,390
18	10,900	10,300	10,000	10,000	7,010	10,600	15,200	5,770	18,200	6,070	6,660	7,570
19	11,100	10,700	10,100	10,100	6,990	11,200	14,300	5,920	17,500	6,210	6,660	7,680
20	11,300	10,800	10,200	10,100	6,930	9,880	10,900	6,000	17,100	6,230	6,660	7,710
21	11,800	10,900	10,200	9,900	7,010	10,700	8,760	5,880	17,100	6,170	6,640	7,630
22	11,200	10,900	10,200	10,000	6,930	11,000	9,630	5,860	16,700	6,170	6,720	7,590
23	11,400	10,700	10,100	10,100	6,910	10,400	10,500	5,940	12,800	6,190	6,740	7,630
24	11,100	10,800	10,100	9,320	7,110	10,100	10,500	5,850	7,920	6,170	6,740	7,570
25	10,700	11,200	10,100	7,670	7,110	11,000	11,000	5,770	7,070	6,210	6,700	7,450
26	10,700	10,800	10,100	7,450	7,030	10,700	11,500	5,710	6,780	6,260	6,780	7,460
27	10,800	10,700	10,100	7,290	6,930	11,000	11,400	5,730	6,620	6,230	6,820	7,350
28	11,000	10,700	10,000	7,450	6,930	11,300	11,300	5,710	6,470	6,240	6,740	7,370
29	11,600	10,700	9,410	7,450	6,950	11,700	10,700	5,760	6,490	6,210	6,780	7,370
30	11,400	10,700	9,320	7,170	-	11,800	10,600	5,770	6,620	6,240	6,800	7,470
31	10,700	-	10,100	6,890	-	11,000	-	5,960	-	6,360	6,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	322,250	13,500	7,650	10,590	651,100
November.....	326,500	12,400	10,100	10,850	645,600
December.....	311,920	10,700	9,320	10,060	618,700
Calendar year 1943	3,945,170	28,500	6,300	10,810	7,825,000
January.....	288,210	10,200	6,890	9,316	572,800
February.....	203,970	7,430	6,760	7,033	404,600
March.....	281,800	11,700	7,070	9,413	575,600
April.....	333,970	15,200	9,740	11,130	662,400
May.....	217,680	11,100	5,710	7,022	431,800
June.....	381,010	24,300	5,960	12,700	755,700
July.....	197,710	8,740	5,940	6,378	392,200
August.....	206,380	6,870	6,420	6,657	409,300
September.....	217,000	7,710	6,800	7,233	430,400
Water year 1943-44	3,304,000	24,300	5,710	9,027	6,553,000

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River at King Hill, Idaho

Location.— Water-stage recorder, lat. 43°00', long. 115°11', in SW $\frac{1}{4}$ sec. 7, T. 5 S., R. 11 E., 300 feet east of railroad station at King Hill and 20 miles downstream from Big Wood River.

Records available.— May 1909 to September 1944.

Extremes.— Maximum discharge during year, 27,100 second-feet June 15 (gage height, 11.83 feet); minimum, 6,480 second-feet May 28 (gage height, 5.57 feet).
1909-44: Maximum discharge observed, 47,200 second-feet June 22, 1918 (gage height, 16.3 feet), from rating curve extended above 30,000 second-feet; minimum observed, 4,760 second-feet July 7-9, Aug. 15, 16, 1910 (gage height, 4.5 feet).

Remarks.— Records excellent except those for period of no gage-height record, which are good. Flow regulated by many reservoirs above station. Practically entire flow at Milner diverted during irrigation season so that flow at King Hill is derived largely from springs and seepage entering below Milner.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,030	13,800	12,400	11,500	8,060	8,430	12,700	12,000	6,780	7,800	7,660	8,000
2	9,080	13,700	12,100	11,500	8,080	8,480	12,300	11,800	7,060	8,130	7,630	8,000
3	9,720	13,200	12,100	11,500	8,200	8,580	12,300	12,100	7,810	10,800	7,710	8,080
4	11,400	12,500	12,100	11,100	8,480	8,640	12,300	12,700	7,930	8,790	7,780	8,180
5	11,600	12,100	12,000	10,700	8,580	8,610	11,800	12,800	7,800	8,130	7,800	8,180
6	11,600	11,700	11,900	11,000	8,530	8,610	10,700	11,700	7,930	7,830	7,860	8,180
7	11,600	12,600	11,800	11,400	8,790	8,430	10,300	11,200	7,930	7,590	8,080	8,300
8	11,600	12,600	11,800	11,400	8,900	8,530	10,200	9,690	7,760	7,470	7,960	8,180
9	11,700	12,500	11,800	11,200	8,900	8,920	11,300	8,900	8,740	7,390	7,930	8,180
10	11,800	12,600	11,700	11,000	8,710	9,030	13,300	8,230	18,400	7,300	7,960	8,180
11	11,900	12,600	11,400	10,900	8,480	9,260	13,700	8,130	19,400	7,800	8,000	8,280
12	14,600	12,500	11,400	10,900	8,330	10,000	12,700	7,780	21,100	7,260	7,880	8,280
13	13,400	12,800	11,500	11,200	8,480	11,500	13,300	7,560	23,700	7,130	7,900	8,280
14	12,300	12,600	11,500	11,300	8,560	10,800	12,400	7,490	25,400	7,110	a7,900	8,330
15	12,400	12,500	11,500	11,400	8,480	10,900	11,300	7,300	26,200	7,150	a7,900	8,300
16	12,500	12,900	11,500	11,400	8,460	10,900	11,400	7,150	26,500	7,230	a7,900	8,400
17	12,500	12,800	11,600	11,400	8,480	12,100	13,700	7,250	24,500	7,200	a7,900	8,610
18	12,600	12,200	11,600	11,400	8,400	12,000	16,900	7,180	20,200	7,180	a7,900	8,920
19	12,900	12,300	11,600	11,400	8,380	12,600	16,900	7,180	19,100	7,280	a7,900	8,970
20	12,900	12,600	11,800	11,500	8,330	11,400	13,400	7,130	18,700	7,440	a7,900	9,130
21	13,600	12,600	11,800	11,500	8,300	12,000	10,900	6,940	18,700	7,300	7,900	9,100
22	13,100	12,600	11,800	11,400	8,330	12,300	10,700	6,780	18,300	7,390	7,930	8,970
23	13,200	12,400	11,800	11,500	8,300	11,900	11,800	6,780	15,500	7,390	8,280	9,030
24	13,000	12,500	11,700	11,500	8,380	11,400	11,900	6,710	10,100	7,370	8,230	8,970
25	12,700	12,800	11,700	9,640	8,530	11,900	12,200	6,680	8,640	7,420	7,900	8,970
26	12,500	12,800	11,700	9,050	8,460	12,300	13,100	6,570	8,280	7,510	7,960	8,840
27	12,700	12,500	11,600	8,790	8,330	12,800	12,900	6,890	7,980	7,440	7,920	8,790
28	12,800	12,400	11,600	8,870	8,300	12,600	12,700	6,570	8,000	7,880	7,980	8,740
29	13,100	12,400	11,300	8,920	8,330	13,400	12,200	6,600	8,030	7,630	7,900	8,790
30	13,400	12,400	10,800	8,770	-	13,200	12,500	6,620	7,980	7,490	7,930	8,970
31	12,600	-	11,200	8,300	-	12,900	-	6,690	-	7,630	7,960	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October...	379,830	14,600	9,030	12,250	753,400
November...	378,300	13,800	11,700	12,610	750,300
December...	362,100	12,400	10,800	11,680	718,200
Calendar year 1943	4,728,190	30,800	7,390	12,260	9,378,000
January...	333,340	11,500	8,300	10,750	661,200
February...	244,850	8,900	6,080	8,443	485,700
March...	333,780	13,400	8,430	10,770	662,000
April...	376,200	15,900	10,200	12,540	746,200
May...	288,690	12,800	6,570	8,345	513,100
June...	424,250	26,600	6,780	14,140	641,500
July...	235,190	10,200	7,110	7,657	466,500
August...	245,360	8,280	7,630	7,915	488,700
September...	255,760	9,130	8,000	8,528	507,300
Water year 1943-44	3,827,650	26,500	6,570	10,460	7,592,000

a No gage-height record; discharge interpolated.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River near Murphy, Idaho

Location.— Water-stage recorder, lat. 43°18', long. 116°26', in NE¼ sec. 35, T. 1 S., R. 1 W., 4½ miles downstream from Swan Falls power plant and 7½ miles northeast of Murphy.

Drainage area.— 41,900 square miles.

Records available.— August to October 1912, August 1913 to September 1944.

Extremes.— Maximum discharge during year, 30,000 second-feet (regulated) June 16 (gage height, 10.49 feet); minimum, 6,950 second-feet (regulated) July 24 (gage height, 3.75 feet); minimum daily, 7,390 second-feet July 24.
1912-44: Maximum discharge, 47,300 second-feet June 22, 1918 (gage height, 13.95 feet, site and datum then in use); minimum observed, 3,950 second-feet (discharge measurement) July 20, 1934, when stage was below intake pipe.

Remarks.— Records excellent except those for period of no gage-height record, which are fair. Flow regulated by many reservoirs above station. Diurnal fluctuations caused by Swan Falls power plant. Several diversions by pumping between this station and station at King Hill.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,220	15,000	12,800	12,100	9,130			13,700	6,210	8,740	7,650	7,980
2	9,220	14,600	12,800	12,100	9,010			13,200	8,270	8,710	7,700	8,010
3	9,310	14,100	12,400	12,200	9,040		115,000	13,100	8,440	9,310	7,730	8,070
4	10,500	13,700	12,600	12,100	9,040			13,300	8,860	10,800	7,780	8,130
5	11,600	13,000	12,600	11,400	9,260	119,800		13,700	9,160	9,340	7,870	8,210
6	11,700	12,500	12,400	11,300	9,310			13,700	8,980	8,710	7,870	8,210
7	11,800	12,500	12,300	12,000	9,280		111,500	12,700	8,980	8,330	7,870	8,180
8	11,700	12,200	12,200	12,100	9,460			12,300	8,890	8,130	8,100	8,330
9	11,800	13,100	12,300	11,900	9,520			10,800	9,220	7,900	7,980	8,210
10	11,900	13,100	12,200	11,600	9,520		13,000	10,300	10,900	7,870	7,870	8,160
11	11,800	13,100	12,000	11,400	9,430			14,500	9,640	20,300	7,730	8,240
12	12,000	13,100	11,800	11,400	9,100			15,100	9,700	21,100	7,870	8,240
13	15,000	13,000	11,900	11,600	9,980			17,000	9,370	23,400	7,590	8,240
14	15,400	13,100	12,000	12,000	9,180	111,600		16,000	9,220	25,800	7,510	8,270
15	12,300	13,100	11,900	12,000	9,180		13,500	9,160	27,600	7,420	8,070	8,500
16	12,600	13,100	12,000	12,000	9,190		12,300	8,980	28,300	7,560	7,950	8,390
17	12,700	13,500	12,000	12,000	9,130		12,800	8,960	28,300	7,560	7,900	8,500
18	12,600	13,200	12,100	12,000	9,100		12,000	8,880	25,700	7,450	8,040	8,740
19	12,700	12,700	12,100	12,100	9,070		17,100	8,740	21,600	7,660	7,830	9,010
20	15,100	13,000	12,300	12,100			16,400	8,620	20,600	7,450	7,980	9,070
21	13,200	13,100	12,300	12,200		115,000	15,800	8,470	20,000	7,650	7,950	9,220
22	13,900	13,000	12,300	12,000			11,700	8,160	20,200	7,480	7,930	9,190
23	13,300	13,100	12,300	12,100			11,900	8,130	19,700	7,620	7,970	9,040
24	13,600	12,800	12,300	12,200			12,700	8,040	16,200	7,390	8,390	9,190
25	13,200	12,800	12,100	11,900	119,000		13,000	7,960	11,100	7,560	8,270	9,070
26	12,900	13,400	12,200	10,000			13,600	7,750	9,760	7,480	7,900	9,040
27	12,700	13,100	12,200	9,790			14,100	7,700	9,450	7,620	8,040	8,890
28	13,000	13,000	12,100	9,460		115,500	13,900	7,670	9,100	7,660	8,130	8,980
29	13,200	12,900	12,000	9,580			13,700	7,650	9,070	7,840	7,980	8,920
30	13,600	12,700	11,500	9,610	-		13,500	7,810	8,980	7,610	7,900	8,920
31	13,800	-	11,500	9,460	-		-	8,010	-	7,480	8,070	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	383,250	15,000	9,220	12,360	760,200
November.....	393,500	14,500	12,300	13,120	760,500
December.....	377,300	12,800	11,300	12,170	748,400
Calendar year 1943.....	5,109,280	33,100	7,810	14,000	10,140,000
January.....	355,700	12,200	9,460	11,470	705,500
February.....	284,910	9,620	-	9,135	525,400
March.....	357,500	-	-	11,530	709,100
April.....	405,200	17,100	-	13,510	803,700
May.....	305,390	13,700	7,650	9,851	605,700
June.....	466,050	28,300	8,210	15,640	924,400
July.....	246,920	10,600	7,390	7,866	489,800
August.....	246,410	8,390	7,650	7,960	488,700
September.....	256,920	9,220	7,960	8,564	509,600
Water year 1943-44.....	4,059,050	28,300	7,390	11,090	8,051,000

a No gage-height record; discharge computed on basis of records for station at King Hill.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River at Weiser, Idaho

Location.— Water-stage recorder, lat. 44°15', long. 116°59', in sec. 31, T. 11 N., R. 5 W., a third of a mile upstream from highway bridge at Weiser. Datum of gage is 2,087.09 feet above mean sea level, datum of 1929.

Records available.— October 1910 to September 1944. Fragmentary gage-height record obtained by U. S. Weather Bureau since 1895.

Extremes.— Maximum discharge during year, 37,000 second-feet June 17 (gage height, 8.54 feet); minimum, 8,490 second-feet July 16 (gage height, 2.66 feet).
1910-44: Maximum discharge observed, 83,100 second-feet May 23, 1921 (gage height, 13.60 feet); minimum observed, 5,100 second-feet Aug. 5, 1924 (gage height, 1.35 feet).

Flood of Mar. 3, 1910, reached a stage of 15.7 feet on old U. S. Weather Bureau gage (discharge, about 100,000 second-feet). Flood of June 1894 was considerably higher.

Remarks.— Records excellent. Flow regulated by many reservoirs above station. Some diurnal fluctuation caused by Swan Falls power plant. Some diversions below Murphy for irrigation.

Cooperation.— Gage-height record collected in cooperation with U. S. Weather Bureau.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15,200	18,200	16,200	14,400	12,100	11,600	17,600	20,200	15,000	12,300	9,080	9,750
2	13,300	17,400	16,400	15,100	12,000	11,800	17,800	20,600	16,700	11,400	9,240	9,830
3	13,300	18,800	16,600	15,000	12,000	12,100	17,800	19,600	17,900	11,300	9,460	10,100
4	15,300	18,400	16,200	14,900	12,800	12,600	17,600	18,600	19,100	11,000	9,490	10,300
5	14,100	19,100	16,100	14,900	13,600	12,800	18,200	17,800	18,900	13,000	9,630	10,300
6	15,600	18,800	15,900	14,100	14,000	12,400	20,400	18,200	17,800	11,400	9,600	10,400
7	16,100	17,700	15,900	13,700	15,900	12,200	19,300	18,900	15,600	10,700	9,570	10,400
8	16,500	17,000	15,600	14,300	15,400	12,800	19,900	18,300	15,400	10,200	9,600	10,600
9	16,600	17,600	15,600	14,800	14,700	13,500	17,700	18,000	15,500	9,600	9,720	10,400
10	16,700	17,600	15,500	14,300	13,900	15,300	17,500	16,600	16,300	9,510	9,790	10,300
11	16,900	17,400	15,100	14,100	13,400	15,900	18,200	15,600	17,700	9,080	9,750	10,100
12	17,400	17,400	14,800	14,000	13,000	14,900	21,100	14,900	28,100	8,920	9,640	10,200
13	17,700	17,400	14,700	14,400	12,400	14,700	22,800	15,200	29,500	8,670	9,940	10,600
14	20,100	17,200	14,800	14,300	12,300	14,900	24,900	16,200	31,600	8,560	9,480	10,100
15	19,100	17,200	14,800	14,600	12,200	15,900	24,000	17,100	35,900	8,560	9,490	10,300
16	17,900	17,000	14,600	14,800	12,100	15,200	20,300	18,400	35,600	8,520	9,570	10,500
17	17,900	17,000	14,800	14,800	11,900	16,800	18,500	19,100	36,500	8,770	9,530	10,800
18	17,700	17,400	14,900	14,800	11,800	17,700	18,000	19,000	36,100	8,670	9,570	11,000
19	17,500	17,500	15,100	14,800	12,000	18,400	20,000	18,800	33,300	8,770	9,480	11,500
20	17,400	17,000	15,500	14,800	11,800	17,500	23,000	17,800	28,900	8,920	9,460	12,100
21	17,900	17,600	15,600	14,600	11,900	17,400	23,600	15,900	27,800	8,850	9,680	12,100
22	18,300	17,800	15,600	14,800	11,800	16,200	20,800	15,000	28,100	9,100	9,790	12,300
23	18,900	17,600	15,700	14,800	11,900	16,800	18,600	13,500	28,300	9,030	9,940	12,400
24	18,600	17,500	15,600	14,800	12,000	17,200	18,700	12,600	27,400	9,130	9,720	12,300
25	18,500	17,200	15,600	14,900	12,100	16,500	21,500	12,000	24,300	9,030	9,940	12,400
26	18,300	17,400	15,200	14,700	12,100	16,100	21,600	11,600	19,100	8,990	10,100	12,200
27	17,600	17,300	15,200	15,000	12,300	16,400	20,900	11,100	16,200	9,030	9,830	11,900
28	17,400	16,900	15,400	12,200	12,100	16,700	21,000	11,000	15,400	9,100	10,000	11,800
29	18,200	16,600	14,700	12,100	12,300	16,500	20,700	11,200	14,300	9,060	9,880	11,600
30	18,200	16,400	14,700	12,000	-	17,000	20,700	11,700	15,200	9,420	9,830	11,600
31	18,200	-	14,400	12,200	-	17,800	-	13,300	-	9,310	9,750	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	588,300	20,100	13,200	17,040	1,048,000
November.....	524,800	19,100	16,400	17,490	1,041,000
December.....	476,800	16,600	14,400	15,380	945,700
Calendar year 1943.....	9,790,700	68,900	10,500	28,820	19,420,000
January.....	441,000	15,100	18,000	14,280	874,700
February.....	387,800	15,900	11,600	12,680	729,500
March.....	473,700	18,400	11,600	15,280	939,600
April.....	601,300	24,900	17,500	20,040	1,193,000
May.....	497,700	20,600	11,000	16,050	987,800
June.....	684,400	36,500	13,200	23,150	1,377,000
July.....	297,580	15,000	8,820	9,599	590,200
August.....	299,070	10,100	9,080	9,647	593,500
September.....	329,980	12,400	9,750	11,000	654,500
Water year 1943-44.....	5,532,430	36,500	8,820	15,120	10,970,000

h Computed from staff-gage readings.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Snake River at Oxbow, Oreg.

Location.- Water-stage recorder, lat. 44°57', long. 116°51', in NW¼ sec. 16, T. 7 S., R. 48 E., at Oxbow, five-eighths of a mile upstream from intake of diversion tunnel for Oxbow power plant.

Records available.- May 1923 to September 1944.

Extremes.- Maximum discharge during year, 37,400 second-feet June 18 (gage height, 14.33 feet); minimum, 8,690 second-feet July 16 (gage height, 7.69 feet).
1923-44: Maximum discharge, 74,600 second-feet Apr. 21, 1943 (gage height, 20.71 feet); minimum, 4,890 second-feet Aug. 6, 1924 (gage height, 6.30 feet).

Remarks.- Records excellent. Flow regulated by many reservoirs above station.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

7.7	8,780	11.0	20,600
8.2	10,200	12.0	25,100
9.0	12,800	14.4	37,700

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13,200	18,600	16,900	14,900	12,300	12,400	18,200	21,200	15,900	13,800	9,480	9,720
2	13,300	18,300	16,800	15,100	12,300	12,400	18,100	20,800	17,100	12,700	9,280	9,860
3	13,300	17,700	17,100	15,500	12,100	12,200	18,500	20,800	18,400	12,000	9,600	10,000
4	13,300	19,000	16,900	15,400	12,500	12,600	18,500	19,800	19,400	11,900	9,720	10,300
5	13,300	18,900	16,300	15,400	13,700	13,000	18,500	18,900	20,200	12,300	9,660	10,300
6	14,700	19,500	16,000	15,200	13,900	12,900	19,700	18,900	19,400	13,100	9,890	10,400
7	16,700	18,700	16,100	14,400	15,100	12,600	20,800	19,600	18,500	11,600	9,720	10,500
8	16,100	17,700	16,100	14,300	16,100	12,400	19,500	19,500	17,100	10,800	9,690	10,400
9	16,400	17,600	15,800	14,600	16,100	13,300	19,100	18,100	16,500	10,300	9,740	10,500
10	16,500	18,000	15,800	14,500	14,600	14,500	18,200	18,400	17,100	10,000	9,950	10,400
11	16,900	17,900	15,600	14,600	13,900	16,300	18,000	17,000	17,700	9,740	9,830	10,200
12	17,000	17,700	15,300	14,100	13,400	16,100	20,400	16,300	22,200	9,370	9,740	10,100
13	17,500	17,700	15,000	14,300	13,000	15,200	22,600	16,100	30,000	9,140	9,720	10,300
14	18,100	17,600	16,000	14,300	12,700	15,000	24,500	16,900	30,400	8,920	9,720	10,300
15	20,200	17,800	16,100	16,000	12,400	15,600	25,800	17,800	33,200	8,920	9,480	10,200
16	18,500	17,500	15,100	16,300	12,500	16,100	23,100	18,900	34,900	8,800	9,540	10,300
17	17,700	17,400	15,200	15,300	12,200	16,900	20,400	19,800	36,400	8,860	9,570	10,500
18	17,900	17,500	16,400	15,200	12,000	17,700	18,700	20,000	37,000	9,000	9,540	10,800
19	17,600	17,900	16,500	15,200	12,100	18,300	19,500	19,300	35,700	9,920	9,460	11,200
20	17,400	17,700	16,800	15,200	12,200	18,600	21,700	19,500	31,700	9,030	9,540	11,700
21	17,900	17,800	16,100	16,100	12,000	17,800	24,300	18,100	29,200	9,220	9,570	12,100
22	18,400	18,000	16,100	15,100	12,100	17,700	23,000	16,700	29,200	9,140	9,740	12,200
23	18,700	18,100	16,100	16,300	12,000	16,700	20,300	15,800	29,500	9,340	9,720	12,300
24	19,100	17,900	16,100	15,200	12,200	17,200	19,400	14,200	29,500	9,310	9,630	12,300
25	18,700	17,700	16,200	16,200	12,300	17,500	21,000	13,400	28,100	9,450	9,630	12,300
26	18,600	17,800	16,100	15,200	12,300	16,800	22,800	13,000	23,200	9,250	10,000	12,400
27	18,300	17,600	15,800	14,400	12,400	16,200	22,000	12,600	18,800	9,340	10,100	12,100
28	17,600	17,800	15,800	12,900	12,600	16,900	21,900	12,300	17,200	9,280	9,860	11,900
29	18,100	17,100	15,600	12,400	12,400	16,700	21,600	12,500	16,000	9,340	9,950	11,700
30	18,500	17,000	15,200	12,100	-	16,900	21,500	13,000	14,800	9,310	9,980	11,700
31	18,500	-	15,200	12,300	-	17,700	-	13,900	-	9,630	9,990	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	526,900	20,200	13,200	17,000	1,045,000
November.....	536,400	18,500	17,000	17,850	1,084,000
December.....	491,100	17,100	15,000	15,840	974,100
Calendar year 1943.....	10,109,100	73,600	10,400	27,700	20,050,000
January.....	453,000	15,500	12,100	14,610	898,500
February.....	374,200	16,100	12,000	12,900	742,800
March.....	490,700	16,800	11,900	15,610	853,500
April.....	621,600	25,200	13,000	20,720	1,235,000
May.....	654,300	21,200	12,500	17,240	1,080,000
June.....	724,000	37,000	14,800	24,130	1,436,000
July.....	311,710	13,900	8,800	10,060	618,300
August.....	300,730	10,100	9,280	9,701	595,500
September.....	328,980	12,400	9,720	10,970	652,600
Water year 1943-44.....	5,683,620	37,000	8,800	15,530	11,270,000

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

SNAKE RIVER MAIN STEM

Snake River near Clarkston, Wash.

Location.— Water-stage recorder, lat. 46°25'30", long. 117°10'30", in lot 1, sec. 16, T. 11 N., R. 45 E., 2 miles upstream from Alpowa Creek, 7 miles downstream from Clarkston, and 134 miles upstream from mouth. Datum of gage is 670 feet above mean sea level (Corps of Engineers, U. S. Army, bench mark).

Drainage area.— 103,200 square miles.

Records available.— October 1935 to September 1944 in reports of Geological Survey.

October 1915 to September 1922 and August 1923 to September 1935 at site 66 miles

downstream, published as Snake River at Riparia, in reports of Geological Survey.

October 1909 to September 1933 (at site at Riparia) in State Water-Supply Bulletin 5.

Extremes.— Maximum discharge during year, 109,600 second-feet May 18 (gage height, 23.42 feet); minimum, 15,000 second-feet (regulated) Aug. 23, Sept. 2 (gage height, 9.55 feet); minimum daily, 16,400 second-feet (regulated) Sept. 13-15.

1909-44: Maximum discharge observed, 270,000 second-feet May 20, 1921 (gage height, 19.0 feet, site and datum then in use); minimum daily, 10,600 second-feet Aug. 14, 18, 20, 24-26, 30, 31, Sept. 1, 2, 5, 1931, but may have been less during period of ice effect in January 1937.

Maximum stage known, 24.7 feet, Riparia site and datum, June 5, 1894, determined from floodmarks by U. S. Weather Bureau (discharge, 409,000 second-feet).

Remarks.— Records excellent. Small diversions by pumping between this station and station at Oxbow. Large diurnal fluctuation caused by power plant on Clearwater River above Lewiston, Idaho.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

10.0	16,400	14.0	34,300	20.0	77,000
11.0	20,100	15.0	40,100	22.0	95,600
12.0	24,300	16.0	46,300	23.0	105,600
13.0	29,000	18.0	60,400		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20,900	29,000	26,100	23,000	19,000	20,100	34,900	69,200	87,800	49,000	20,500	16,800
2	20,500	28,500	27,500	23,000	20,100	20,500	36,600	66,800	80,600	46,500	20,100	16,800
3	20,900	27,600	27,500	23,400	20,900	20,100	39,500	68,900	84,200	45,100	19,700	16,800
4	20,900	27,000	31,600	23,400	20,900	20,500	44,400	60,400	79,700	41,500	20,100	17,800
5	20,900	31,600	32,100	23,000	21,700	20,900	51,000	61,200	76,100	38,500	20,500	17,800
6	20,900	34,300	29,000	22,500	24,300	21,300	57,200	65,800	73,400	38,900	20,100	18,200
7	22,100	32,800	27,000	21,700	27,000	21,300	55,800	75,200	70,600	38,500	19,700	17,800
8	23,400	30,500	26,100	20,500	26,000	20,900	54,400	80,600	70,000	36,000	19,700	17,500
9	23,800	28,900	26,100	19,700	27,500	21,300	54,400	80,600	71,600	35,700	19,500	17,100
10	23,800	27,600	26,100	20,100	25,100	31,000	51,700	77,900	72,500	32,100	19,500	16,800
11	24,300	26,000	23,800	20,100	24,300	34,300	48,300	73,400	74,300	31,000	19,500	17,100
12	26,100	27,500	22,100	20,100	23,000	33,700	55,800	75,200	74,300	30,500	19,000	16,800
13	28,000	27,500	21,700	20,500	22,100	31,000	69,200	79,700	84,200	29,000	18,600	16,400
14	27,500	27,000	21,300	21,300	21,700	28,000	66,000	86,900	88,700	28,000	18,600	16,400
15	27,000	27,500	21,300	21,700	21,300	26,100	65,600	93,600	86,100	27,000	19,500	16,400
16	28,500	27,000	20,900	22,100	20,900	26,500	60,400	105,600	86,000	26,500	20,100	17,100
17	27,000	26,100	21,700	23,000	20,900	28,000	53,000	103,600	90,600	25,100	19,500	17,800
18	26,100	26,100	22,500	23,400	20,500	32,600	48,300	99,600	88,700	24,300	18,500	16,800
19	26,500	26,600	23,800	23,400	20,100	34,900	45,100	98,600	86,000	23,200	17,600	16,200
20	26,500	27,000	24,300	23,000	20,500	34,900	45,100	90,600	81,500	23,400	17,600	16,000
21	26,100	27,000	24,300	23,000	19,700	33,200	47,600	82,400	75,200	24,300	17,500	20,100
22	26,500	26,500	25,100	22,500	19,700	31,000	50,300	76,100	77,000	24,500	17,800	20,100
23	28,000	27,500	24,700	22,500	19,700	30,500	50,300	70,800	83,500	23,400	16,800	19,700
24	29,000	27,000	24,700	23,000	20,100	32,600	50,300	65,200	78,800	23,000	17,100	20,100
25	29,000	26,500	25,100	22,500	20,500	33,200	55,600	60,400	74,300	22,500	16,800	19,700
26	28,500	26,500	25,600	22,500	20,500	32,100	59,600	55,500	70,000	22,500	17,100	19,300
27	29,000	26,100	25,600	22,500	20,600	30,000	58,900	55,100	64,400	22,100	17,100	19,300
28	28,000	24,700	24,300	21,300	20,100	28,500	57,200	58,000	60,400	21,800	17,500	19,000
29	27,000	24,700	25,000	19,000	20,900	28,500	60,400	64,400	68,000	20,900	17,100	18,600
30	28,000	25,100	22,100	18,200	20,000	30,000	66,000	70,800	65,000	20,500	17,100	19,300
31	29,000	-	22,500	18,600	-	32,600	-	81,500	-	20,500	16,800	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	795,700	29,000	20,500	25,600	1,574,000
November.....	829,400	34,300	24,700	27,650	1,645,000
December.....	768,500	32,100	20,900	24,790	1,624,000
Calendar year 1943.....	24,641,400	206,000	19,800	67,510	46,980,000
January.....	674,600	23,400	18,200	21,760	1,338,000
February.....	631,500	29,000	19,000	21,780	1,263,000
March.....	686,600	34,900	20,100	22,060	1,726,000
April.....	1,590,200	69,200	34,900	53,010	4,254,000
May.....	2,354,500	105,600	55,100	75,950	4,970,000
June.....	2,310,500	90,600	53,000	77,020	4,883,000
July.....	912,900	49,000	20,500	29,450	1,811,000
August.....	575,800	20,500	16,600	18,570	1,149,000
September.....	544,900	20,100	16,400	18,140	1,081,000
Water year 1943-44.....	12,856,000	105,600	16,400	56,130	25,500,000

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Salt River near Smoot, Wyo.

Location.- Water-stage recorder, lat. 42°36', long. 110°55', in sec. 7, T. 30 N., R. 118 W., 1½ miles south of Smoot and 1½ miles upstream from Willow Creek.

Drainage area.- 59.4 square miles.

Records available.- June 1932 to September 1944 (no winter records 1933-35, 1936-37).

Extremes.- Maximum discharge during year, 204 second-feet June 9; minimum daily, 4.1 second-feet Sept. 14, 15.

1932-44: Maximum discharge, 430 second-feet May 15, 1936, from rating curve extended above 200 second-feet; minimum daily recorded, 1.8 second-feet Sept. 1, 1937, but may have been less during period of ice effect.

Remarks.- Records good above 17 second-feet and fair below. A few diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	9.2	5.8	7.8	8.8	9.8	10	46	132	104	20	10
2	9.2	*b7.5	*5.4	7.5	8.8	9.6	10	44	138	98	20	11
3	9.2	b8.4	6.0	7.2	9.0	9.6	11	42	135	94	20	11
4	8.6	b9.0	5.6	7.0	9.2	9.6	12	49	130	87	18	11
5	9.2	b9.2	6.0	7.0	9.6	9.6	13	61	124	78	18	9.8
6	9.8	b7.0	5.4	7.4	9.6	9.2	14	71	122	71	17	9.2
7	9.8	b7.2	5.2	7.0	9.4	9.0	14	69	129	67	16	8.6
8	9.8	b7.8	5.2	6.8	9.0	8.8	14	67	128	61	16	6.2
9	9.8	b8.2	5.0	6.6	8.8	9.2	14	78	127	60	14	5.0
10	10	b8.4	5.2	6.6	8.6	9.6	15	68	193	57	14	4.7
11	14	b8.6	5.4	6.6	8.4	9.2	16	85	184	54	14	4.7
12	15	b8.6	5.4	6.8	8.4	8.8	17	85	178	52	14	4.4
13	15	8.6	5.4	7.2	8.4	8.8	18	89	168	49	14	4.4
14	10	8.0	6.8	7.4	8.8	9.6	18	98	167	47	14	4.1
15	9.8	8.0	6.0	7.8	9.0	9.6	14	112	167	46	14	4.1
16	9.8	8.0	6.4	8.2	8.8	9.0	13	123	169	40	14	4.7
17	9.2	8.0	6.4	8.6	8.6	9.4	12	136	166	38	14	5.0
18	9.8	8.0	6.6	8.0	8.4	9.2	12	123	164	37	16	5.8
19	13	8.6	6.6	7.8	8.2	9.0	12	112	181	37	14	9.2
20	12	8.6	7.2	7.6	8.6	9.4	13	103	167	41	14	10
21	11	8.6	8.4	7.6	9.2	9.6	14	102	159	35	13	10
22	10	8.6	8.2	7.8	9.2	9.6	14	99	156	35	12	10
23	10	8.6	8.2	8.0	9.2	*9.6	17	98	140	34	11	10
24	11	8.6	8.6	8.2	8.6	9.6	20	92	135	32	12	9.8
25	12	8.0	8.6	8.4	8.6	9.4	24	89	137	32	12	9.2
26	12	b7.0	8.0	8.0	*9.1	9.0	26	86	148	31	12	8.6
27	11	6.4	7.4	7.6	9.2	9.0	30	92	134	29	12	8.6
28	12	6.6	7.2	7.6	9.4	9.0	34	100	114	28	11	8.6
29	10.8	6.8	7.0	8.0	9.4	9.0	45	112	108	27	10	8.0
30	b9.8	6.2	7.6	8.2	-	9.0	47	113	108	26	9.8	11
31	9.8	-	7.4	8.6	-	9.4	-	120	-	24	9.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	326.6	14	8.6	10.5	648
November.....	240.3	9.2	6.2	8.01	477
December.....	202.6	8.6	5.0	6.54	402
Calendar year 1943.....	16,336.3	188	5.0	44.8	32,400
January.....	256.0	8.6	6.6	7.68	466
February.....	268.3	9.6	8.2	8.91	512
March.....	286.2	9.8	8.6	9.23	568
April.....	538	47	10	17.9	1,070
May.....	2,782	136	42	89.7	5,680
June.....	4,417	193	108	147	8,760
July.....	1,561	104	24	50.0	3,080
August.....	438.6	20	9.8	14.1	870
September.....	237.7	11	4.1	7.92	471
Water year 1943-44.....	11,513.3	193	4.1	31.5	22,840

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Note.- No gage-height record Nov. 27 to Apr. 17 (stage-discharge relation affected by ice during most of period); discharge computed on basis of 3 discharge measurements and weather records.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

SALT RIVER BASIN

Salt River at Wyoming-Idaho State line

Location.- Water-stage recorder, lat. 43°10', long. 111°04', in sec. 16, T. 3 S., R. 46 E., just downstream from Trout Creek, half a mile upstream from mouth, and three-quarters of a mile west of Wyoming-Idaho State line.

Drainage area.- 890 square miles.

Records available.- April 1934 to September 1944. July 1917 to September 1918 at site 4 miles upstream; records not equivalent.

Average discharge.- 10 years, 652 second-feet.

Extremes.- Maximum discharge during year, 1,380 second-feet June 9 (gage height, 3.12 feet); minimum daily, 389 second-feet Mar. 28.

1934-44: Maximum discharge, 3,520 second-feet May 6, 1936 (gage height, 4.64 feet), from rating curve extended above 2,600 second-feet; minimum, 216 second-feet May 17, 1934 (gage height, 1.30 feet).

Remarks.- Records excellent except those for period of ice effect, which are fair. Diversions above station for irrigation.

Rating table, water year 1943-44, except period of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-20)

1.6	375	2.6	955
1.9	495	3.0	1,270
2.2	670	3.2	1,450

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	676	698	593	468	430	414	414	657	842	835	593	500
2	676	690	587	490	450	410	434	638	910	798	587	500
3	676	690	589	486	426	406	450	612	970	777	593	505
4	670	716	589	477	434	410	477	593	1,040	742	593	510
5	690	763	563	468	438	414	540	606	1,050	735	593	516
6	690	722	563	500	438	410	612	644	1,010	702	593	510
7	690	690	563	486	430	403	644	667	1,040	676	587	510
8	690	676	563	b440	426	403	624	667	1,120	667	575	525
9	663	670	555	b440	434	403	664	676	1,270	631	587	525
10	663	664	525	b450	422	406	696	756	1,360	631	581	520
11	696	670	b520	b440	418	406	756	728	1,320	618	569	520
12	722	664	520	b430	422	406	842	709	1,330	606	563	525
13	716	657	515	b430	426	410	906	590	1,360	599	557	520
14	702	650	515	b440	430	406	742	696	1,340	587	551	515
15	702	650	510	b440	426	403	670	702	1,310	593	545	510
16	722	644	495	b440	422	400	631	709	1,270	599	540	510
17	709	638	490	442	422	403	606	728	1,250	612	535	515
18	702	638	500	434	422	400	587	880	1,210	612	535	520
19	722	644	500	418	410	400	575	925	1,170	624	525	525
20	735	644	520	410	406	403	569	872	1,090	624	515	525
21	728	644	505	410	418	406	569	858	1,050	624	510	525
22	728	638	495	418	422	403	575	835	1,050	624	510	520
23	722	631	495	422	418	400	563	812	1,050	631	510	520
24	716	638	495	430	414	403	569	805	948	631	510	520
25	709	638	500	438	*410	396	575	763	872	624	510	520
26	709	618	495	434	418	400	569	676	918	618	510	520
27	702	612	486	426	414	400	557	683	992	612	505	520
28	702	593	477	422	410	389	575	696	948	599	505	525
29	709	593	468	b420	410	400	638	693	880	593	500	530
30	709	593	b460	422	-	400	670	696	850	587	495	545
31	709	-	477	422	-	403	-	742	-	587	495	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	21,795	735	670	703	43,230
November.....	19,674	763	593	656	39,080
December.....	16,068	593	460	518	31,870
Calendar year 1943.....	321,311	2,600	362	880	637,500
January.....	13,693	500	410	442	27,160
February.....	12,246	456	406	422	24,290
March.....	12,516	414	389	404	24,830
April.....	18,197	842	414	607	36,090
May.....	22,383	925	593	722	44,400
June.....	32,810	1,360	842	1,094	65,080
July.....	19,987	835	587	645	39,640
August.....	16,877	593	495	544	33,480
September.....	15,650	646	500	518	30,840
Water year 1943-44.....	221,796	1,360	389	606	439,900

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

SALT RIVER BASIN

37

Cottonwood Creek near Smoot, Wyo.

Location.- Water-stage recorder, lat. $42^{\circ}37'$, long. $110^{\circ}53'$, in sec. 4, T. 30 N., R. 118 W., $\frac{1}{4}$ miles downstream from Porcupine Creek and $\frac{1}{4}$ miles southeast of Smoot.

Drainage area.- 26.3 square miles.

Records available.- May 1933 to September 1944.

Average discharge.- 11 years, 39.4 second-feet.

Extremes.- Maximum discharge during year, 213 second-feet June 10 (gage height, 2.32 feet); minimum daily, 15 second-feet many days in January, February, March, 1933-44: Maximum discharge observed, 424 second-feet June 17, 18, 1933 (gage height, 2.76 feet, datum then in use), from rating curve extended above 200 second-feet; minimum daily, 8.5 second-feet Feb. 28 to Mar. 2, 1935.

Remarks.- Records excellent except those for Oct. 1 to Apr. 14, which are good. One small diversion above station. Flow regulated by Cottonwood Lake.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	30	*21	19	16	16	16	24	138	156	59	39
2	33	28	21	19	16	16	16	23	145	156	58	39
3	32	28	21	19	16	16	17	23	150	151	57	38
4	32	28	21	b18	16	16	20	24	157	147	57	37
5	32	29	21	b17	16	15	19	27	145	142	56	37
6	32	27	21	19	16	16	18	30	138	136	55	36
7	32	27	21	b18	16	16	18	34	138	125	62	35
8	32	26	21	b17	16	16	18	37	142	118	61	35
9	31	26	21	18	16	16	18	38	169	112	54	34
10	30	26	21	b17	16	16	18	39	182	106	52	34
11	33	26	21	b17	16	16	18	41	196	104	51	34
12	33	26	21	b18	b15	16	20	46	184	100	50	34
13	32	25	20	18	16	16	18	49	162	96	49	34
14	32	25	20	18	15	16	18	56	158	92	49	34
15	32	25	20	18	15	16	18	64	162	88	48	34
16	32	24	20	18	b15	16	17	73	172	85	48	33
17	32	24	20	18	16	17	16	92	176	85	47	33
18	32	24	20	18	16	17	16	95	187	92	46	34
19	33	23	20	17	b15	17	*16	78	167	80	46	33
20	33	23	20	17	b15	17	17	72	179	80	44	33
21	33	23	20	17	16	17	18	68	188	77	44	32
22	33	23	20	17	16	*16	18	66	198	75	44	32
23	33	23	20	17	16	16	18	66	184	72	43	30
24	32	22	20	16	16	16	19	64	179	72	42	30
25	32	22	20	16	16	17	19	64	184	69	42	30
26	32	22	20	16	*16	16	20	62	188	68	42	29
27	32	22	20	b15	16	16	21	66	184	66	41	29
28	32	21	20	b15	15	b15	22	72	165	65	41	29
29	31	21	19	16	15	16	23	87	168	64	40	29
30	31	21	19	b15	-	16	24	105	166	62	39	30
31	30	-	19	16	-	16	-	118	-	59	39	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	994	33	30	32.1	1,970
November.....	740	30	21	24.7	1,470
December.....	629	21	19	20.3	1,250
Calendar year 1943	21,136	306	12	57.9	41,930
January.....	534	19	15	17.2	1,060
February.....	456	16	15	15.7	904
March.....	496	17	15	16.0	984
April.....	554	24	16	18.5	1,100
May.....	1,792	118	23	57.8	3,650
June.....	5,011	198	138	167	9,940
July.....	2,988	156	59	96.4	5,930
August.....	1,506	62	39	48.6	2,980
September.....	1,000	39	29	33.3	1,980
Water year 1943-44	16,700	198	15	45.6	33,130

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Swift Creek near Afton, Wyo.

Location.— Water-stage recorder, lat. 42°43'30", long. 110°54'00", in SE $\frac{1}{4}$ sec. 29, T. 32 N., R. 118 W., 1 mile upstream from mouth of canyon and $\frac{1}{2}$ miles east of Afton.

Drainage area.— 27.4 square miles.

Records available.— May 1943 to September 1944.

Extremes.— Maximum discharge during year, 420 second-feet June 25 (gage height, 3.23 feet); minimum, 24 second-feet Mar. 24 (gage height, 1.96 feet).
1943-44: Maximum discharge, 491 second-feet June 21, 1943 (gage height, 3.38 feet); minimum, that of Mar. 24, 1944.

Remarks.— Records fair. No regulation. Pipe line (capacity, about 5 second-feet) diverts water above station for town of Afton.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	52	44	41	36	35	32	44	209	353	90	66
2	60	52	44	44	36	35	37	44	160	356	58	65
3	58	54	45	42	35	35	41	41	134	320	56	63
4	58	52	45	41	35	36	44	42	128	292	85	63
5	57	54	45	41	35	34	41	46	131	286	83	62
8	55	52	45	41	36	34	44	52	150	244	77	62
7	55	52	45	39	36	35	44	62	184	236	75	62
8	57	52	46	38	35	33	42	58	205	220	77	62
9	55	52	45	38	36	32	42	60	202	209	75	62
10	57	52	45	37	36	32	42	62	308	195	72	60
11	63	52	45	38	37	32	41	70	276	184	75	58
12	62	51	45	38	37	33	45	51	260	170	70	65
13	60	49	45	38	35	33	41	98	244	164	66	55
14	62	49	45	39	34	33	39	125	236	163	66	54
15	58	49	44	39	35	33	39	144	260	140	68	54
16	57	49	44	39	37	31	38	153	294	137	68	52
17	55	51	45	41	37	32	37	164	300	154	68	51
18	55	51	45	39	38	31	37	128	260	131	68	49
19	55	51	45	39	35	31	37	104	296	144	68	49
20	55	51	44	39	35	31	36	104	369	144	68	49
21	55	49	42	38	36	30	36	101	386	134	72	49
22	54	48	42	38	36	31	36	101	378	128	72	49
23	52	48	44	38	36	31	37	93	332	121	77	49
24	52	45	44	37	36	31	39	86	361	118	72	49
25	52	49	44	37	36	31	41	88	395	115	65	51
26	54	49	42	37	36	30	42	88	407	112	66	49
27	52	49	42	37	35	30	44	104	365	107	65	49
28	54	48	41	37	36	30	45	134	304	104	68	51
29	54	45	41	37	36	31	46	174	312	101	68	51
30	54	44	41	37	-	31	46	184	340	98	68	51
31	52	-	39	37	-	31	-	177	-	96	68	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,739	63	52	56.1	3,450
November.....	1,504	54	44	50.1	2,980
December.....	1,358	46	39	43.8	2,690
Calendar year.....	-	-	-	-	-
January.....	1,201	44	37	38.7	2,380
February.....	1,039	38	34	36.8	2,060
March.....	996	36	30	32.1	1,980
April.....	1,211	46	32	40.4	2,400
May.....	3,015	184	41	97.3	5,980
June.....	8,267	407	128	276	16,400
July.....	6,395	353	98	174	10,700
August.....	2,255	90	65	72.7	4,470
September.....	1,652	66	49	66.1	3,280
Water year 1943-44.....	29,633	407	30	81.0	58,770

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Henrys Fork near Lake, Idaho

Location.— Water-stage recorder, lat. 44°36', long. 111°21', in SW¼ sec. 26, T. 15 N., R. 43 E., a quarter of a mile downstream from Henrys Lake Dam and 4 miles south of Lake post office. Datum of gage is 6,450.62 feet above mean sea level, levels by Bureau of Reclamation (Corps of Engineers, U. S. Army, bench mark).

Drainage area.— 104 square miles, including that of Dry Creek Basin.

Records available.— September 1922 to September 1944. May 1920 to September 1922 at site 3 miles downstream and below mouth of Dry Creek, floodwaters of which have been diverted into Henrys Lake since 1923.

Average discharge.— 24 years, 46.3 second-feet.

Extremes.— Maximum discharge recorded during year, 459 second-feet Aug. 17 (gage height, 3.71 feet); minimum daily, 2 second-feet Sept. 27–30 (leakage through reservoir gates). 1920–44: Maximum discharge, 907 second-feet June 13, 1926 (gage height, 5.40 feet); minimum, 0.1 second-foot Oct. 3–31, 1937.

Remarks.— Records good except those for periods of no gage-height record, which are fair. FLOW regulated by Henrys Lake (see p. 48), gates of which remained closed Oct. 1 to July 10, Aug. 31 to Sept. 30. Water flowed over spillway at dam June 5 to July 17.

Cooperation.— Gage-height record furnished by North Fork Reservoir Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			35					80	60	135	426	18
2	20							80	60	131	434	17
3				34				80	60	128	446	17
4								80	60	126	448	17
5		29						80	60	124	443	17
6								70	60	118	434	17
7							96	70	60	118	426	17
8						37		70	66	117	355	18
9								70	75	116	355	18
10								70	75	113	355	19
11								50	75	129	353	20
12								50	75	145	273	20
13								50	75	161	94	21
14								50	75	161	95	21
15			34					50	75	198	95	22
16								40	75	240	94	14
17								40	75	247	100	a3
18								40	93	290	103	a3
19								40	102	294	102	a3
20								40	107	404	102	a3
21								33	114	425	101	a3
22								41	100	426	101	a3
23						80		41	125	428	100	a3
24								41	125	430	88	a3
25								41	128	432	62	a3
26								41	132	430	56	a3
27							82	41	135	428	69	2
28								41	138	426	71	2
29								41	135	423	70	2
30								49	135	426	44	2
31								50	-	426	19	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	775	-	-	25	1,540
November.....	960	-	-	32	1,900
December.....	1,054	-	-	34	2,090
Calendar year 1943.....	10,189	294	7	27.9	20,200
January.....	1,054	-	-	34	2,090
February.....	1,015	-	-	35	2,010
March.....	1,835	-	-	59.2	3,640
April.....	2,700	-	-	90	5,360
May.....	1,660	-	-	53.5	3,290
June.....	2,730	135	-	91.0	5,420
July.....	8,193	432	113	264	16,220
August.....	6,315	448	19	204	12,530
September.....	331	22	2	11.0	657
Water year 1943-44.....	28,622	448	2	78.2	56,780

a No gage-height record; discharge computed on basis of observer's field estimate.

Note.— No gage-height record Oct. 1 to June 17; discharge computed on basis of 4 discharge measurements and occasional gage readings (mean discharges only Oct. 1 to Apr. 30).

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

HENRYS FORK BASIN

Island Park Reservoir near Island Park, Idaho

Location.- Electric tape gage, lat. 44°25', long. 111°24', in gatehouse shaft at dam on Henrys Fork, a quarter of a mile south of quarter corner between secs. 28 and 29, T. 13 N., R. 43 E., a quarter of a mile upstream from Buffalo River, and 2 miles west of Island Park. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

Drainage area.- 478 square miles.

Records available.- November 1938 to September 1944.

Extremes.- Maximum contents observed during year, 137,640 acre-feet May 2 (elevation, 6,303.30 feet); minimum observed, 51,580 acre-feet Sept. 29 (elevation, 6,289.20 feet).

1938-44: Maximum contents observed, that of May 2, 1944; minimum observed after first filling of reservoir, 16,855 acre-feet Sept. 27, 1940 (elevation, 6,274.22 feet).

Remarks.- Reservoir is formed by earth-fill, rock-faced dam. Storage began Nov. 15, 1938. Capacity, 127,265 acre-feet between elevations 6,239 feet (normal low-water level with outlet gates open) and 6,302 feet (crest of spillway). Natural flow passing through reservoir when outlet gates are open prevents withdrawal of storage to elevation 6,230 feet (sill of lower outlet). Dead storage negligible. Water is used for irrigation of lands in Fremont-Madison irrigation district between Ashton and Rexburg. Gage read at 8 a.m. Contents given herein are computed from elevations at that time; all available for release.

Cooperation.- Reservoir elevations and capacity table furnished by Bureau of Reclamation.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	83,450	80,665	96,760	124,240	132,390	132,950	132,790	137,395	135,285	135,450	120,740	64,140
2	82,795	80,720	97,675	125,320	132,390	132,950	132,950	137,640	135,365	135,205	119,085	62,680
3	82,140	80,665	98,740	126,350	132,470	132,950	133,110	137,150	135,285	134,980	117,815	61,545
4	81,545	80,720	99,680	127,110	132,630	132,790	133,110	136,665	135,610	134,640	116,780	60,535
5	80,955	80,900	100,490	127,965	132,710	133,190	133,190	136,420	135,365	134,475	115,450	59,540
6	80,955	80,900	101,505	128,985	132,710	133,110	133,590	136,260	135,125	134,555	114,135	58,430
7	81,075	80,955	102,460	129,775	132,630	132,870	133,670	136,175	135,450	134,235	112,675	57,510
8	81,075	80,900	103,285	130,245	132,710	132,710	133,670	136,095	135,530	134,155	111,505	56,755
9	81,075	80,840	104,190	130,720	133,110	132,710	133,670	136,015	135,770	134,155	109,870	55,180
10	81,135	80,840	104,940	131,115	132,950	132,950	133,670	135,935	135,770	134,155	108,020	55,675
11	81,250	80,840	105,430	131,355	132,710	132,950	133,750	136,015	136,260	134,155	105,985	55,300
12	81,135	80,720	106,685	131,670	132,630	132,790	133,750	136,260	136,340	134,155	103,905	54,800
13	80,955	80,605	107,595	131,990	132,550	133,190	133,910	136,015	136,175	134,155	101,845	54,385
14	80,780	80,840	108,520	131,990	132,550	133,190	133,990	136,015	136,935	134,075	99,680	53,770
15	80,665	80,955	109,440	131,990	132,550	132,790	133,990	135,855	136,935	133,990	97,215	52,965
16	80,605	81,840	110,300	131,990	132,550	132,630	133,910	135,855	135,610	133,510	94,780	52,445
17	80,605	82,850	111,160	131,990	132,550	132,630	133,750	135,855	135,530	133,190	92,450	52,060
18	80,955	83,810	111,960	132,070	132,550	132,630	133,670	136,665	135,285	132,790	90,290	51,970
19	81,370	84,840	112,675	132,070	132,550	132,710	133,670	137,150	135,125	132,510	88,090	51,890
20	81,250	85,810	113,620	132,230	132,550	132,790	133,590	137,395	134,980	131,515	85,670	51,855
21	81,135	87,100	114,570	132,230	132,470	132,790	133,590	137,640	134,800	130,405	83,750	51,755
22	81,135	87,870	115,375	132,230	132,630	132,710	133,670	136,825	134,640	129,535	81,665	51,695
23	81,075	88,905	116,260	132,230	132,790	132,710	133,750	136,580	134,720	129,065	79,440	51,735
24	80,780	90,225	117,150	132,390	132,790	132,710	133,990	136,420	134,640	128,830	77,600	51,775
25	80,840	91,240	118,265	132,390	132,790	132,950	134,395	136,015	134,475	128,125	75,685	51,775
26	80,955	92,130	119,085	132,390	132,710	132,950	134,555	135,530	134,395	127,500	73,970	51,775
27	80,955	93,030	119,955	132,390	132,710	132,950	134,720	135,355	135,855	126,795	72,180	51,735
28	81,310	94,760	120,740	132,390	132,550	132,950	135,045	135,205	136,015	125,940	70,745	51,695
29	81,510	94,760	121,560	132,390	132,630	132,710	135,450	135,045	136,095	124,935	68,975	51,580
30	81,430	95,825	122,410	132,310	-	132,710	136,580	134,880	135,770	123,630	67,390	51,930
31	81,135	-	123,260	132,390	-	132,790	-	135,125	-	122,185	65,800	-

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	6,295.75	84,050	-
Oct. 31.....	6,295.26	81,135	-2,915
Nov. 30.....	6,297.62	95,825	+14,690
Dec. 31.....	6,301.48	123,250	+27,425
Calendar year 1943.	-	-	+25,375
Jan. 31.....	6,302.65	132,390	+9,140
Feb. 29.....	6,302.63	132,630	+240
Mar. 31.....	6,302.70	132,790	+160
Apr. 30.....	6,303.17	136,580	+3,790
May 31.....	6,302.99	135,125	-1,455
June 30.....	6,303.07	135,770	+645
July 31.....	6,301.34	122,185	-13,585
Aug. 31.....	6,292.43	66,800	-56,385
Sept. 30.....	6,289.29	51,930	-15,970
Water year 1943-44.	-	-	-52,120

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Henry's Fork near Island Park, Idaho

Location.- Water-stage recorder, lat. 44°25', long. 111°24', in SW $\frac{1}{4}$ sec. 28, T. 13 N., R. 43 E., an eighth of a mile upstream from Buffalo River, an eighth of a mile downstream from Island Park Dam, and 2 miles west of Island Park. Altitude of gage, 6,225 feet (from river-profile map).

Drainage area.- 478 square miles.

Records available.- January 1933 to September 1944.

Average discharge.- 11 years, 484 second-feet.

Extremes.- Maximum discharge during year, 1,830 second-feet Aug. 11, 12 (gage height, 5.12 feet); minimum daily, 8 second-feet Nov. 16-21, 26.
1933-44: Maximum discharge, 2,580 second-feet June 1, 1943 (gage height, 5.98 feet); minimum daily, 1 second-foot Nov. 16 to Dec. 7, 1938.

Remarks.- Records excellent except those for period Nov. 16 to Mar. 20, which are good. Flow regulated by Henry's Lake (see p. 48) and Island Park Reservoir (see p. 40).

Cooperation.- Gage-height record and five discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	849	600	9	12	427	458	454	1,200	772	866	1,550	1,400
2	849	540	9	12	432	454	463	1,200	772	805	1,550	1,260
3	849	540	9	12	427	450	476	1,120	810	766	1,540	1,100
4	849	540	9	12	454	468	486	1,040	827	734	1,530	1,100
5	605	540	9	36	468	490	500	998	810	695	1,530	1,100
6	427	540	9	134	468	472	550	959	798	700	1,530	1,060
7	445	540	9	181	463	458	550	932	805	651	1,530	954
8	461	540	9	209	458	445	650	920	805	630	1,530	882
9	530	540	9	238	505	450	550	893	926	626	1,650	761
10	560	540	9	270	476	454	555	898	964	630	1,760	766
11	635	540	9	290	463	450	560	937	992	630	1,820	766
12	678	540	10	302	458	454	575	928	976	625	1,830	766
13	570	510	10	319	454	476	580	904	954	620	1,830	794
14	545	495	10	332	454	454	585	898	920	605	1,830	876
15	570	170	10	346	450	436	586	898	915	744	1,810	876
16	535	8	11	355	454	427	565	898	882	849	1,780	876
17	515	8	11	368	454	427	555	910	844	888	1,720	761
18	535	8	11	373	450	427	555	998	810	964	1,670	640
19	620	8	11	378	445	436	545	1,080	788	1,140	1,660	580
20	673	8	11	382	445	454	540	1,110	750	1,280	1,660	565
21	673	8	11	391	440	450	540	1,090	739	1,140	1,660	545
22	678	9	11	396	463	440	550	1,040	734	1,090	1,660	520
23	678	9	11	404	458	440	570	992	717	1,100	1,610	505
24	580	9	11	427	454	454	600	948	706	1,190	1,520	505
25	535	9	11	427	454	454	662	893	673	1,210	1,500	505
26	570	8	11	427	450	454	684	838	712	1,190	1,400	505
27	585	9	11	427	445	450	712	798	920	1,250	1,400	505
28	585	9	11	427	440	445	766	772	942	1,350	1,400	500
29	585	9	11	427	450	440	866	744	926	1,450	1,400	468
30	695	9	12	427	-	440	1,060	739	893	1,560	1,400	468
31	761	-	12	427	-	445	-	750	-	1,560	1,400	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	19,240	949	427	621	38,160
November.....	7,843	600	8	261	15,660
December.....	317	12	9	10.2	629
Calendar year 1943.....	208,627	2,220	7	572	413,900
January.....	9,168	427	12	296	18,180
February.....	13,159	505	427	454	26,100
March.....	13,952	490	427	450	27,670
April.....	17,799	1,060	454	593	35,500
May.....	29,303	1,200	739	945	58,120
June.....	25,072	992	673	836	49,730
July.....	29,477	1,560	605	951	58,470
August.....	49,630	1,830	1,400	1,601	95,440
September.....	22,909	1,400	468	764	45,440
Water year 1943-44.....	237,869	1,830	8	650	471,900

Note.- Discharge computed from staff-gage readings Nov. 16 to Jan. 5.

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

Henry's Fork at Warm River, Idaho

Location.- Water-stage recorder, lat. 44°07', long. 111°20', in sec. 12, T. 9 N., R. 43 E., 1,000 feet upstream from Warm River and half a mile northwest of Warm River railroad station. Altitude of gage, 5,255 feet (from river-profile map).

Drainage area.- 660 square miles.

Records available.- September 1910 to March 1915, April 1918 to September 1944.

Average discharge.- 30 years (1910-14, 1918-44), 982 second-feet.

Extremes.- Maximum discharge during year, 2,190 second-feet Aug. 12 (gage height, 6.48 feet); minimum, 245 second-feet Dec. 9 (gage height, 3.24 feet); minimum daily, 322 second-feet Dec. 9.
1910-15, 1918-44: Maximum discharge, 3,540 second-feet May 18, 1927 (gage height, 7.55 feet); minimum, 218 second-feet Jan. 19, 1940 (gage height, 3.17 feet).

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Flow regulated by Henry's Lake (see p. 48) and Island Park Reservoir (see p. 40). Some water diverted above station for irrigation of meadows on headwaters.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,250	a1,100	448	444	891	904	835	1,850	1,240	1,270	1,940	1,790
2	1,240	a1,000	404	435	891	891	847	1,840	1,270	1,220	1,920	1,800
3	1,250	1,000	444	408	891	*865	859	1,720	1,330	1,160	1,930	1,490
4	1,240	1,010	426	378	*910	910	884	1,610	1,390	1,130	1,910	1,450
5	1,200	1,030	417	*399	. 930	930	898	1,550	1,370	a1,110	1,890	1,450
6	884	1,010	378	462	917	917	950	1,540	1,280	a1,090	1,870	1,420
7	853	995	430	453	904	904	962	1,500	1,290	a1,110	1,870	1,300
8	891	932	404	b470	910	878	969	1,480	1,380	a1,070	1,860	1,280
9	936	932	322	b530	950	872	976	1,480	1,480	a1,080	1,900	1,110
10	968	988	382	b670	b900	878	995	1,460	1,600	a1,070	2,050	1,070
11	1,030	998	435	b590	b970	872	1,010	1,510	1,620	a1,050	2,110	1,060
12	1,080	998	448	b630	b860	872	1,050	1,500	1,570	a1,040	2,170	1,070
13	1,050	982	b440	b660	b850	b970	1,050	1,450	1,500	1,030	2,170	1,050
14	924	943	b430	b710	b850	b670	1,060	1,420	1,440	1,020	2,170	1,130
15	962	904	422	a770	b860	b860	1,030	1,400	1,390	1,010	2,180	1,170
16	962	435	412	a830	b850	853	1,010	1,380	1,360	1,200	2,180	1,170
17	a970	426	430	a870	b840	853	988	1,400	1,300	1,210	2,140	1,230
18	a1,000	422	422	a980	b840	847	988	1,570	1,280	1,300	2,050	1,010
19	a1,080	417	430	a850	b840	847	976	1,810	1,210	1,430	2,040	969
20	a1,110	426	444	a850	b830	872	976	1,940	1,190	1,660	2,050	936
21	a1,120	426	430	a880	b830	859	976	1,820	1,140	1,580	2,040	904
22	a1,120	417	430	a890	b850	853	1,000	1,750	1,120	1,500	2,050	891
23	a1,120	430	412	a900	b870	859	1,050	1,640	1,110	1,480	2,050	847
24	a1,120	448	412	917	b870	865	1,110	1,540	1,080	1,520	1,930	841
25	a1,000	422	430	904	b880	859	1,230	1,440	1,080	1,680	1,910	841
26	a1,010	*366	408	917	878	865	1,230	1,360	1,120	1,590	1,820	841
27	a1,020	399	326	936	872	872	1,320	1,290	1,460	1,580	1,790	841
28	a1,040	462	330	891	865	872	1,490	1,240	1,550	1,720	1,790	841
29	a1,050	444	394	891	864	835	1,560	1,200	1,430	1,750	1,780	847
30	a1,100	408	520	917	-	829	1,740	1,190	1,330	1,940	1,780	853
31	a1,200	-	485	917	-	835	-	1,210	-	1,940	1,770	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	32,780	1,250	853	1,057	65,020
November.....	21,250	1,100	366	708	42,150
December.....	12,945	520	322	418	25,680
Calendar year 1943	377,847	2,770	319	1,035	749,500
January.....	22,189	936	378	716	44,010
February.....	25,373	950	830	875	50,530
March.....	26,968	930	829	870	53,490
April.....	32,019	1,740	835	1,087	63,610
May.....	47,090	1,940	1,190	1,519	93,400
June.....	39,920	1,820	1,080	1,331	79,180
July.....	41,460	1,940	1,010	1,337	82,230
August.....	61,110	2,180	1,770	1,971	121,800
September.....	33,502	1,800	841	1,117	66,450
Water year 1943-44	396,606	2,180	322	1,084	786,600

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for stations near Ashton and near Island Park.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Henrys Fork near Ashton, Idaho

Location.- Water-stage recorder, lat. 44°05', long. 111°30', in sec. 28, T. 9 N., R. 42 E., a quarter of a mile downstream from power plant and 3 miles west of Ashton. Altitude of gage, 5,095 feet (from river-profile map).

Drainage area.- 1,030 square miles.

Records available.- August 1902 to June 1909, April 1920 to September 1944.

Average discharge.- 25 years (1903-8, 1924-44), 1,282 second-feet.

Extremes.- Maximum discharge during year, 2,510 second-feet Aug. 12-15 (gage height, 7.37 feet); minimum, 260 second-feet Feb. 7 (gage height, 5.25 feet); minimum daily, 618 second-feet Dec. 28.

1902-9, 1920-44: Maximum discharge, 6,220 second-feet May 7, 1925; minimum, 65 second-feet (regulated) Oct. 16, 1935 (gage height, 4.59 feet); minimum daily, 440 second-feet Dec. 5, 1931.

Remarks.- Records excellent. Flow regulated by power plant above station and by Henrys Lake (see p. 48) and Island Park Reservoir (see p. 40). Some water diverted above station for irrigation of meadows on headwaters.

Cooperation.- Gage-height record during nonirrigation season furnished by Utah Power & Light Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,610	1,520	804	795	1,230	1,210	1,190	2,240	1,790	1,810	2,260	2,080
2	1,630	1,260	739	818	1,240	1,210	1,220	2,220	1,830	1,750	2,220	2,120
3	1,610	1,300	760	796	1,230	1,200	1,280	2,140	2,000	1,660	2,220	1,810
4	1,620	1,340	782	728	1,260	1,190	1,300	2,040	2,120	1,630	2,240	1,700
5	1,650	1,390	783	743	1,240	1,230	1,440	2,020	2,080	1,590	2,180	1,730
6	1,270	1,300	727	812	1,460	1,200	1,410	2,040	1,890	1,560	2,130	1,720
7	1,190	1,280	752	753	1,060	1,210	1,360	1,980	1,900	1,590	2,180	1,630
8	1,270	1,280	749	788	1,240	1,200	1,440	1,980	2,020	1,520	2,130	1,550
9	1,280	1,270	665	902	1,300	1,160	1,360	2,000	2,200	1,500	2,180	1,360
10	1,380	1,300	646	903	1,200	1,200	1,440	2,040	2,300	1,520	2,340	1,380
11	1,480	1,280	720	834	1,230	1,190	1,410	2,000	2,300	1,500	2,440	1,360
12	1,470	1,280	762	977	1,160	1,170	1,500	2,000	2,180	1,490	2,490	1,350
13	1,450	1,390	799	1,060	1,190	1,200	1,420	1,940	2,100	1,440	2,490	1,390
14	1,270	1,130	740	1,120	1,320	1,100	1,460	1,890	2,000	1,440	2,510	1,450
15	1,680	1,240	710	1,120	836	1,270	1,400	1,880	1,960	1,390	2,610	1,530
16	1,240	792	717	1,140	1,200	1,200	1,360	1,830	1,900	1,600	2,470	1,530
17	1,230	728	749	1,170	1,100	1,120	1,330	1,840	1,860	1,580	2,440	1,680
18	1,340	749	739	1,200	1,170	1,160	1,290	2,160	1,810	1,660	2,340	1,360
19	1,450	728	769	1,160	1,140	1,170	1,290	2,400	1,720	1,810	2,360	1,320
20	1,500	781	772	1,060	1,120	1,200	1,290	2,470	1,680	2,040	2,360	1,260
21	1,600	760	793	1,140	1,200	1,210	1,310	2,280	1,630	1,960	2,360	1,240
22	1,620	745	785	1,130	1,200	1,170	1,310	2,260	1,660	1,810	2,340	1,230
23	1,620	806	777	1,210	1,210	1,190	1,420	2,120	1,630	1,860	2,360	1,160
24	1,480	869	788	1,230	1,200	1,210	1,400	2,000	1,600	1,860	2,280	1,170
25	1,360	726	774	1,210	1,170	1,210	1,600	1,680	1,680	1,960	2,200	1,170
26	1,360	690	812	1,210	1,170	1,190	1,730	1,790	1,700	1,960	2,120	1,160
27	1,390	698	692	1,170	1,190	1,200	1,670	1,750	2,240	1,940	2,080	1,160
28	1,440	778	618	1,140	1,170	1,160	1,760	1,720	2,280	2,060	2,100	1,170
29	1,450	777	686	1,280	1,160	1,230	1,960	1,700	2,020	2,080	2,060	1,190
30	1,400	696	829	1,190	-	1,200	2,200	1,680	1,860	2,260	2,020	1,190
31	1,660	-	792	1,170	-	1,390	-	1,700	-	2,260	2,040	-

Month	Second-foot-days	-Maximum	Minimum	Mean	Runoff in acre-feet
October.....	44,580	1,630	1,190	1,438	88,420
November.....	30,893	1,520	690	1,030	61,230
December.....	23,100	829	618	745	45,820
Calendar year 1943	564,366	4,120	477	1,519	1,099,000
January.....	31,979	1,230	728	1,032	63,430
February.....	34,596	1,460	836	1,193	68,600
March.....	37,150	1,390	1,100	1,198	73,690
April.....	43,550	2,200	1,190	1,452	86,380
May.....	61,980	2,470	1,680	1,999	122,900
June.....	57,830	2,300	1,580	1,928	114,700
July.....	54,060	2,260	1,390	1,744	107,200
August.....	70,850	2,510	2,020	2,276	139,900
September.....	43,180	2,120	1,160	1,439	85,660
Water year 1943-44	533,438	2,510	618	1,457	1,068,000

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

HENRYS FORK BASIN

Diversions from Henrys Fork between Ashton and St. Anthony gaging stations, Idaho

Between Ashton and St. Anthony gaging stations seven canals divert water from Henrys Fork for irrigation. Records available each irrigation season from 1919 to 1944. Discharge of canals computed from daily or biweekly staff-gage readings, or interpolated, and combined to show total diverted flow. Records good.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								496	1,140	834	1,030	789
2								501	1,080	834	1,040	788
3								550	1,060	822	1,030	665
4								714	1,060	837	1,020	663
5								760	1,040	852	1,110	641
6								771	911	857	1,110	650
7								786	806	860	1,110	649
8								777	796	871	1,100	651
9								797	766	872	1,090	625
10								811	725	886	1,110	590
11								827	692	887	1,110	587
12								882	682	876	1,110	587
13								963	682	805	1,080	577
14								1,030	690	852	1,080	569
15								1,100	733	887	1,080	580
16								1,130	886	902	1,070	582
17								1,150	936	929	1,070	431
18								1,160	937	931	1,090	431
19								1,080	960	922	1,070	372
20								996	1,020	835	1,070	366
21								1,010	1,070	773	1,070	385
22								1,010	1,100	978	1,050	297
23								1,040	1,120	949	1,040	297
24								1,080	1,120	947	1,020	283
25								1,110	1,120	1,010	1,020	275
26												
27								1,120	1,090	994	958	268
28								1,120	696	995	917	268
29								1,130	662	1,000	918	266
30								1,170	659	996	888	264
31								1,180	-	1,020	830	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....					
November.....					
December.....					
Calendar year					
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	-	-	-	-	-
May.....	29,430	1,180	496	949	58,370
June.....	28,888	1,140	659	896	53,330
July.....	28,007	1,020	773	903	55,550
August.....	32,175	1,110	830	1,038	63,620
September.....	14,578	789	264	486	28,920
The period.....	-	-	-	-	260,000

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Henrys Fork at St. Anthony, Idaho

Location.- Water-stage recorder, lat. 43°58', long. 111°41', in sec. 1, T. 7 N., R. 40 E., half a mile upstream from bridge on main street of St. Anthony. Altitude of gage, 4,950 feet (from river-profile map).

Drainage area.- 1,730 square miles.

Records available.- March 1919 to September 1944 (irrigation seasons only).

Extremes.- Maximum discharge recorded during year, 4,480 second-feet June 10 (gage height, 5.16 feet); minimum recorded, 617 second-feet July 15 (gage height, 3.07 feet); minimum daily recorded, 667 second-feet July 15.

1919-44: Maximum discharge recorded, 9,030 second-feet May 8, 1925 (gage height, 6.70 feet); minimum daily recorded, 413 second-feet July 22, 1931.

Remarks.- Records excellent. Diversions above station for irrigation. Flow regulated by power plant 17 miles above station and by Henrys Lake (see p. 48), Island Park Reservoir (see p. 40), and Grassy Lake (see p. 48).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	3,080	2,270	1,820	1,330	1,340
2							-	2,890	2,840	1,750	1,280	1,460
3							-	2,610	3,200	1,420	1,300	1,400
4							-	2,640	3,680	1,210	1,300	1,240
5							-	2,660	3,490	1,070	1,240	1,290
6							-	2,720	2,970	994	1,220	1,250
7							-	2,650	2,920	930	1,220	1,190
8							-	2,540	3,260	856	1,220	1,120
9							-	2,580	3,780	776	1,260	1,010
10							-	2,820	4,320	786	1,420	994
11							-	2,650	4,140	767	1,440	972
12							-	2,560	3,680	756	1,480	985
13							-	2,450	3,360	721	1,480	994
14							-	2,430	3,110	739	1,490	1,010
15							-	2,520	2,690	667	1,510	1,100
16							-	2,470	2,610	826	1,490	1,150
17							-	2,430	2,360	846	1,610	1,330
18							-	2,770	2,120	908	1,580	1,300
19							-	3,150	1,700	961	1,310	1,290
20							-	3,600	1,460	1,220	1,310	1,200
21							-	3,110	1,330	1,260	1,330	1,220
22							-	2,750	1,210	1,130	1,340	1,240
23							-	2,630	1,140	1,060	1,360	1,190
24							-	2,230	1,010	1,080	1,300	1,160
25							-	2,160	897	1,110	1,240	1,160
26							-	1,630	1,100	1,120	1,240	1,140
27							-	1,540	3,060	1,070	1,220	1,130
28							-	1,690	3,400	1,110	1,220	1,130
29							-	2,520	2,540	1,190	1,240	1,130
30							-	2,890	1,880	1,290	1,220	1,130
31							-	1,960	-	1,330	1,290	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....					
November.....					
December.....					
Calendar year.....					
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	-	-	-	-	-
May.....	76,980	3,500	1,540	2,483	152,700
June.....	77,777	4,320	897	2,593	154,300
July.....	32,755	1,820	667	1,067	64,970
August.....	41,190	1,610	1,220	1,329	81,700
September.....	35,233	1,460	972	1,174	69,880
The period.....		-	-	-	523,600

† Result of discharge measurement.

a No gage-height record; discharge computed on basis of records for station near Rexburg and diversions between St. Anthony and Rexburg.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

HENRYS FORK BASIN

Diversions from Henrys Fork between St. Anthony and Rexburg gaging stations, Idaho

Between St. Anthony and Rexburg gaging stations four canals divert water from Henrys Fork for irrigation. Records available for part of each irrigation season from 1919 to 1944. Discharge of canals computed from daily or biweekly staff-gage readings, or interpolated, and combined to show total diverted flow. Records good.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								546	940	555	756	575
2								551	905	600	752	509
3								590	856	635	745	500
4								550	852	691	751	485
5								559	850	719	726	487
6								687	720	725	713	506
7								690	717	716	715	514
8								725	714	710	728	491
9								755	679	697	723	510
10								770	679	683	740	508
11								790	454	696	753	525
12								812	451	707	753	525
13								822	450	716	764	522
14								832	452	746	765	505
15								862	487	707	728	521
16								880	580	763	703	441
17								935	729	626	685	185
18								958	728	642	684	195
19								972	728	820	641	213
20								973	735	822	653	210
21								650	842	688	666	210
22								650	958	685	699	208
23								803	958	719	668	206
24								855	962	720	651	205
25								859	967	738	584	204
26								870	790	710	599	202
27								890	440	704	584	202
28								930	437	726	578	208
29								952	499	744	590	212
30								972	546	773	569	212
31								991	-	785	585	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....					
November.....					
December.....					
Calendar year					
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	-	-	-	-	-
May.....	24,859	991	546	801	49,270
June.....	21,095	952	437	703	41,840
July.....	22,178	842	565	715	43,990
August.....	21,218	785	569	694	42,090
September.....	11,009	575	195	367	21,840
The period.....	-	-	-	-	199,000

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Henrys Fork near Rexburg, Idaho

Location.- Water-stage recorder, lat. 43°50', long. 111°54', in sec. 30, T. 6 N., R. 39 E., just downstream from highway bridge, downstream from all tributaries, and 7 miles west of Rexburg. Altitude of gage, 4,807 feet (from river-profile map).

Drainage area.- 3,010 square miles.

Records available.- April 1909 to September 1944.

Average discharge.- 35 years, 1,904 second-feet

Extremes.- Maximum discharge during year, 5,430 second-feet June 12 (gage height, 8.32 feet); minimum, 665 second-feet July 16, 17 (gage height, 2.79 feet).
1909-44: Maximum discharge, 3,490 second-feet June 29, 1927 (gage height, 9.90 feet); minimum, 183 second-feet Mar. 24-28, 1934 (gage height, 1.45 feet).

Remarks.- Records good except those for periods of ice effect and those for periods of no gage-height record, which are fair. Flow regulated by operation of power plant at Ashton and by Henrys Lake (see p. 48), Island Park Reservoir (see p. 40), and Grassy Lake (see p. 48). Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,950	2,550	1,690	1,450	1,880	1,880	1,900	2,470	1,800	3,280	1,140	1,310
2	1,950	2,480	1,750	1,500	1,950	1,880	1,900	2,630	2,240	2,800	1,120	1,360
3	1,980	2,280	1,710	1,520	1,960	1,880	1,900	2,530	2,710	2,590	1,110	1,520
4	1,980	2,270	1,720	1,500	1,960	1,870	1,950	2,290	3,360	2,300	1,140	1,410
5	2,020	2,540	1,710	1,450	1,980	1,880	1,920	2,800	3,740	2,020	1,120	1,290
6	1,990	2,600	1,690	1,470	1,970	1,890	2,100	2,160	3,720	1,740	1,090	1,270
7	1,740	2,510	1,660	1,490	2,100	1,900	2,160	2,260	3,320	1,530	1,090	1,250
8	1,680	2,410	1,650	1,470	1,900	*1,880	2,210	2,240	3,440	1,360	1,090	1,200
9	1,740	2,380	1,560	1,520	1,880	1,860	2,080	2,160	3,900	1,170	1,070	1,130
10	1,740	2,350	1,440	1,600	1,950	1,880	1,980	2,280	4,480	1,070	1,180	1,050
11	1,840	2,350	1,470	1,580	1,850	1,910	2,170	2,470	5,200	1,020	1,180	1,010
12	2,040	2,540	1,490	1,640	1,970	1,900	2,250	2,450	5,390	944	1,220	982
13	2,080	2,520	*1,510	1,630	1,950	1,900	2,270	2,450	5,130	861	1,250	976
14	2,040	2,350	*1,500	1,740	1,820	1,840	2,090	2,470	4,680	750	1,290	976
15	1,900	2,200	*1,500	1,600	*1,870	1,850	1,940	2,680	4,190	710	1,320	1,020
16	2,060	2,200	*1,480	1,800	1,700	1,890	1,850	2,640	3,940	680	1,340	1,140
17	1,920	1,910	*1,480	1,820	1,700	1,850	1,780	2,600	3,420	745	1,350	1,370
18	1,920	1,860	1,410	*1,830	1,750	1,860	1,860	2,710	3,190	803	1,360	1,910
19	2,160	1,860	1,490	1,830	1,850	1,960	1,850	2,980	2,610	765	1,250	1,690
20	2,280	1,970	1,550	1,900	1,900	1,990	1,680	3,300	2,140	908	1,220	1,870
21	2,380	1,890	1,550	1,750	1,700	1,990	1,520	3,590	1,690	1,040	1,210	1,820
22	2,440	1,880	1,520	1,780	1,850	1,970	1,580	3,380	1,520	1,140	1,190	1,600
23	2,430	1,860	1,470	1,820	1,920	1,920	1,570	3,240	1,160	1,080	1,200	1,790
24	2,460	1,920	1,460	1,870	1,900	1,940	1,520	2,920	950	1,050	1,220	1,700
25	2,430	1,930	1,430	1,900	1,870	1,900	1,730	2,470	776	1,050	1,230	1,660
26	2,340	1,810	1,400	1,900	1,850	1,870	1,880	1,960	798	1,070	1,230	1,640
27	2,370	1,690	*1,240	1,870	1,850	1,780	1,780	1,520	2,170	1,040	1,230	1,560
28	2,430	1,710	1,090	1,830	1,850	1,800	1,780	1,400	3,900	953	1,240	1,520
29	2,480	1,790	1,070	1,800	1,850	1,820	1,920	1,500	4,650	1,010	1,220	1,630
30	2,510	1,740	1,160	1,900	-	1,900	2,160	1,620	4,060	1,050	1,240	1,660
31	2,470	-	1,380	1,850	-	1,900	-	1,730	-	1,140	1,260	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	65,740	2,510	1,680	2,121	130,400
November.....	63,600	2,600	1,690	2,120	128,100
December.....	46,230	1,760	1,070	1,491	91,700
Calendar year 1943.....	876,488	6,330	780	2,401	1,758,000
January.....	52,760	1,900	1,450	1,702	104,600
February.....	54,230	2,100	1,700	1,870	107,600
March.....	58,540	1,990	1,800	1,888	116,100
April.....	56,840	2,270	1,520	1,895	112,700
May.....	75,190	3,690	1,400	2,425	149,100
June.....	93,974	5,390	776	3,132	186,400
July.....	39,569	3,260	680	1,276	79,600
August.....	37,410	1,360	1,070	1,207	74,200
September.....	42,514	1,910	976	1,417	84,330
Water year 1943-44.....	686,597	5,390	680	1,875	1,362,000

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for upstream stations.

Note.- Stage-discharge relation affected by ice Dec. 11, 12, 25-27, Dec. 31 to Mar. 6.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

HENRYS FORK BASIN

Smaller reservoirs in Henrys Fork Basin

Henrys Lake.— Staff gage, lat. 44°36', long. 111°21', at dam on Henrys Fork in SW 1/4 sec. 26, T. 15 N., R. 43 E., 4 miles south of former Lake, Idaho, post office. Datum of gage is 6,457.16 feet above mean sea level (levels by Bureau of Reclamation). Drainage area, 104 square miles, including that of Dry Creek. Records available, June 1923 to September 1944 (fragmentary). Maximum contents observed during year, 82,927 acre-feet June 28 (gage height, 15.56 feet); minimum, 55,240 acre-feet Sept. 13. Maximum contents observed during period 1923-44, that of June 28, 1944; minimum observed, 140 acre-feet Nov. 8, 1934 (gage height, 0.03 foot).

Reservoir is formed on natural lake by concrete dam; storage began Sept. 21, 1922; dam completed July 1923. Capacity, 79,351 acre-feet between gage heights 0.0 foot (normal low-water level of Henrys Lake prior to construction of dam) and 15.0 feet (top of 5-foot flashboards on spillway). Floodwaters of Dry Creek are diverted into Henrys Lake. Water used for irrigation near St. Anthony. Gage read once daily about 9 a.m. during period of storage withdrawal and only occasionally during remainder of year. Records given herein represent usable contents. Gage-height record and capacity table furnished by North Fork Reservoir Co.

Grassy Lake.— Mercury pressure gage, lat. 44°08', long. 110°49', in gatehouse at dam on Grassy Creek approximately in sec. 7, T. 48 N., R. 116 W. (unsurveyed); half a mile upstream from mouth and 24 miles northwest of Moran, Wyo. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Drainage area, 12 square miles, including basin of Cascade Creek from which water is diverted into Grassy Lake. Records available, October 1939 to September 1944. Maximum contents observed during year, 15,244 acre-feet May 16-23 (elevation, 7,210.20 feet); minimum observed, 6,417 acre-feet Sept. 15-30 (elevation, 7,177.40 feet). Maximum contents observed during period 1939-44, 15,466 acre-feet July 2, 1943 (elevation, 7,210.85 feet); no contents Oct. 2-5, 1940.

Reservoir is formed by earth-fill, rock-faced dam; storage began Oct. 18, 1939. Capacity, 15,182 acre-feet between elevations 7,135.0 feet (sill of trash rack) and 7,210.0 feet (crest of spillway) above mean sea level. Water is used for irrigation of lands in Fremont-Madison irrigation district, Idaho. Gage read once daily about 7 a.m. Records given herein represent usable contents. Gage-height record and capacity table furnished by Bureau of Reclamation.

Monthly elevations or gage heights and contents, water year October 1943 to September 1944

Date	Henrys Lake			Grassy Lake		
	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	-	75,740	-	7,208.60	14,748	-
Oct. 31.....	-	78,300	+2,560	7,208.60	14,748	0
Nov. 30.....	-	78,720	+420	7,208.76	14,765	+17
Dec. 31.....	-	78,546	-126	7,209.00	14,572	-193
Calendar year 1943	-	-	+29,346	-	-	+2,178
Jan. 31.....	-	78,960	+104	7,209.35	14,981	+109
Feb. 29.....	-	79,080	+130	7,209.75	15,105	+124
Mar. 31.....	-	77,720	-1,360	7,210.00	15,182	+77
Apr. 30.....	-	77,600	-120	7,210.05	15,185	+15
May 31.....	-	78,800	+1,200	7,210.15	15,229	+44
June 30.....	-	82,800	+4,000	7,210.10	15,213	-16
July 31.....	15.18	67,976	-14,824	7,191.70	9,907	-5,306
Aug. 31.....	11.10	55,418	-12,558	7,178.05	6,567	-3,340
Sept. 30.....	11.18	55,896	+478	7,177.40	6,417	-150
Water year 1943-44	-	-	-19,844	-	-	-8,331

a No gage-height record; contents interpolated.

Diversion from Fall River above gaging station, near Squirrel, Idaho

Above Squirrel gaging station two canals divert water from Fall River for irrigation. Records available for part of each irrigation season from 1919 to 1944. Discharge of canals computed from daily or biweekly staff-gage readings, or interpolated, and combined to show total diverted flow. Records good.

Discharge, in second-feet, June to September 1944

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1	0	30	183	109	11	0	59	145	76	21	50	148	127	103
2	0	30	182	108	12	0	60	144	75	22	50	147	126	103
3	0	30	181	90	13	0	70	141	78	23	50	157	128	103
4	0	30	182	83	14	0	80	139	78	24	50	157	140	103
5	0	59	181	36	15	0	89	141	66	25	50	162	132	103
6	0	59	174	65	16	0	96	138	36	26	40	164	127	103
7	0	59	171	78	17	0	97	138	43	27	30	164	116	103
8	0	59	155	78	18	0	117	151	43	28	30	168	112	103
9	0	59	155	78	19	40	131	135	41	29	30	169	111	103
10	0	59	146	78	20	42	149	129	103	30	30	173	111	103
										31	-	172	111	-
					Second-foot-days		Maximum	Minimum	Mean	Runoff in acre-feet				
June.....					492		50	0	16.4	976				
July.....					3,212		173	30	104	6,370				
August.....					4,424		183	111	143	8,780				
September.....					2,535		109	36	84.5	5,030				
The period.....					-		-	-	-	21,160				

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Fall River near Squirrel, Idaho

Location.- Staff gage, lat. 44°04', long. 111°15', in sec. 34, T. 9 N., R. 44 E., 4 miles northeast of Squirrel and 10 miles upstream from Conant Creek.

Drainage area.- 380 square miles.

Records available.- January 1904 to June 1909, May 1918 to September 1944. August 1902 to December 1903 at Wilson's sawmill, 3 miles upstream.

Average discharge.- 31 years (1904-8, 1917-44), 740 second-feet.

Extremes.- Maximum discharge observed during year, 2,640 second-feet June 9, 10 (gage height, 3.06 feet); minimum observed, 378 second-feet Aug. 20-23 (gage height, 1.14 feet).

1904-9, 1918-44: Maximum discharge observed, 6,440 second-feet June 27, 1927; minimum observed, 72 second-feet Feb. 9, 1930.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Gage read once daily. Flow since October 1939 partly regulated by Grassy Lake (see p. 48).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	619	602	569	460	b455	424	410	895	2,020	1,150	514	425
2	602	602	569	475	b460	438	424	871	2,110	1,150	514	461
3	644	594	569	460	*460	424	445	871	2,360	1,040	499	491
4	636	619	569	*460	404	430	468	915	2,400	900	499	447
5	636	882	569	460	445	424	529	1,030	2,270	820	491	432
6	636	706	569	460	430	410	498	1,280	1,870	800	491	425
7	636	636	563	445	430	410	468	1,200	2,050	820	491	418
8	636	619	537	452	445	404	468	1,350	2,160	750	498	418
9	636	619	b525	460	445	424	456	1,580	2,640	720	475	418
10	636	619	b515	445	438	438	498	1,480	2,640	740	447	418
11	820	602	b500	445	438	452	529	1,480	2,160	740	447	418
12	636	602	b500	445	438	452	610	1,430	2,000	693	440	418
13	636	594	b500	445	438	458	577	1,400	1,800	760	447	418
14	666	594	b500	b445	424	438	545	1,400	1,800	770	440	418
15	636	594	b500	b445	424	424	498	1,580	1,760	760	447	418
16	636	585	b500	b445	424	430	452	1,880	1,710	760	440	468
17	636	585	b505	b450	438	438	452	1,880	1,510	740	425	598
18	670	577	b510	b450	430	438	452	1,940	1,420	711	404	a580
19	706	577	b510	b455	430	438	452	2,160	1,290	693	397	a530
20	688	577	b510	b455	430	430	452	1,980	1,260	693	378	a500
21	670	577	b505	b455	430	450	452	1,810	1,280	657	378	a490
22	662	577	505	b455	430	438	452	1,580	1,200	639	378	a460
23	653	577	500	b460	430	452	513	1,460	1,070	630	378	454
24	653	577	b500	b460	430	438	545	1,330	1,060	630	418	454
25	653	569	b490	b460	424	438	644	1,150	1,130	613	418	454
26	670	569	445	b460	438	424	628	1,090	1,960	630	425	454
27	670	*553	445	b460	438	410	751	1,210	1,760	604	447	454
28	688	569	b460	b450	430	410	810	1,500	1,140	562	432	454
29	670	569	b460	b445	424	398	850	1,690	1,110	545	418	454
30	602	569	b460	b445	-	410	915	1,760	1,130	545	425	454
31	602	-	b460	b450	-	410	-	1,810	-	514	425	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	20,210	820	602	652	40,090
November.....	18,091	882	553	603	35,880
December.....	15,809	569	445	510	31,360
Calendar year 1943.....	349,750	3,320	287	958	693,700
January.....	14,067	475	445	455	27,680
February.....	12,600	460	404	434	24,990
March.....	13,262	452	398	428	26,300
April.....	16,255	915	410	542	32,240
May.....	44,870	2,160	871	1,447	89,000
June.....	52,050	2,640	1,050	1,735	103,200
July.....	22,729	1,130	514	733	45,080
August.....	13,728	514	378	445	27,230
September.....	13,681	588	418	456	27,140
Water year 1943-44.....	257,342	2,640	378	703	510,400

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Diversions from Fall River between Squirrel and Chester gaging stations, Idaho

Between Squirrel and Chester gaging stations eight canals divert water from Fall River for irrigation. Records available for part of each irrigation season from 1919 to 1944. Discharge of canals computed from daily or biweekly staff-gage readings, or interpolated, and combined to show total diverted flow. Records good.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								47	570	461	459	387
2								47	610	480	487	389
3								47	608	500	456	332
4								48	592	537	451	327
5								50	580	547	446	331
6								58	474	552	445	331
7								73	472	576	445	326
8								85	480	586	447	328
9								86	437	626	455	329
10								106	447	653	423	315
11								207	400	668	410	315
12								308	353	655	402	315
13								313	331	661	402	315
14								319	347	754	411	314
15								331	361	618	392	296
16								337	409	613	387	300
17								346	412	486	388	274
18								355	412	630	392	274
19								324	437	609	374	237
20								296	452	610	363	229
21								304	517	578	561	289
22								317	563	447	556	227
23								332	602	472	348	270
24								397	602	468	370	275
25								443	603	494	393	266
26								493	518	481	397	264
27								501	487	483	405	262
28								516	486	494	406	260
29								527	453	422	399	258
30								534	464	455	393	258
31								519	-	454	386	-
Month								Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....												
November.....												
December.....												
Calendar year												
January.....								-	-	-	-	-
February.....								-	-	-	-	-
March.....								-	-	-	-	-
April.....								-	-	-	-	-
May.....								8,666	534	47	280	17,190
June.....								14,446	610	331	482	28,650
July.....								17,060	754	422	550	33,840
August.....								12,598	459	348	406	24,990
September.....								8,632	389	227	294	17,620
The period.....								-	-	-	-	122,200

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Fall River near Chester, Idaho

Location.- Water-stage recorder, lat. 44°01', long. 111°34', in sec. 13, T. 8 N., R. 41 E., half a mile upstream from mouth and 2 miles north of Chester. Altitude of gage, 5,060 feet (from river-profile map).

Drainage area.- 560 square miles.

Records available.- April 1920 to September 1944 (irrigation seasons only).

Extremes.- Maximum discharge during period May to September, 2,610 second-feet June 10 (gage height, 4.37 feet); minimum, 17 second-feet Aug. 23 (gage height, 0.96 foot). 1920-44: Maximum discharge, 6,380 second-feet June 27, 1927 (gage height, 6.60 feet); minimum, 9 second-feet Aug. 7, 1923.

Remarks.- Records excellent except those for periods of no gage-height record, which are fair. Flow since October 1939 partly regulated by Grassy Lake (see p. 48). Station is below all diversions for irrigation from Fall River.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1							-	1,130	1,720	754	84	31	
2							-	1,010	2,050	762	59	64	
3							-	920	2,060	614	38	137	
4							-	1,060	2,180	460	40	126	
5	+372						-	1,220	2,060	379	40	110	
6							-	1,420	1,740	324	41	101	
7							-	1,400	1,770	274	43	99	
8							-	al, 430	1,900	234	41	96	
9							-	al, 460	2,190	204	28	92	
10							-	al, 500	2,500	193	28	90	
11							-	al, 500	2,280	166	28	96	
12							-	al, 470	1,970	172	27	99	
13							-	1,430	1,760	140	28	99	
14							-	1,530	1,720	166	30	96	
15							-	1,620	1,660	172	32	115	
16							-	1,710	1,550	193	41	159	
17							-	1,770	1,800	186	44	197	
18							-	1,760	1,260	166	39	257	
19							-	1,910	990	99	27	261	
20							-	1,880	900	86	21	257	
21							-	1,600	855	89	19	269	
22							-	1,470	738	137	18	266	
23							-	1,390	650	162	18	253	
24							-	1,160	522	162	21	226	
25							-	950	434	159	23	219	
26							-	837	568	146	28	208	
27							-	664	1,450	132	34	208	
28							-	1,030	1,420	106	33	201	
29							-	891	1,280	1,000	117	30	197
30							-	1,030	1,420	802	96	28	al95
31							-	1,470	-	76	29	-	
Month						Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet			
October.....													
November.....													
December.....													
Calendar year													
January.....						-	-	-	-	-			
February.....						-	-	-	-	-			
March.....						-	-	-	-	-			
April.....						-	-	-	-	-			
May.....						42,601	1,910	837	1,374	84,500			
June.....						44,259	2,500	434	1,475	87,790			
July.....						7,150	762	175	231	17,180			
August.....						1,040	84	19	33.5	2,060			
September.....						4,844	286	31	161	9,610			
The period.....						99,894	-	-	-	198,100			

† Result of discharge measurement.

a No gage-height record; discharge computed on basis of records for station near Squirrel.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Teton River near Tetonia, Idaho

Location.- Water-stage recorder, lat. 43°51', long. 111°15', in sec. 15, T. 6 N., R. 44 E., 1½ miles downstream from highway bridge, 4 miles downstream from Packsaddle Creek, and 6 miles northwest of Tetonia.

Drainage area.- 460 square miles.

Records available.- October 1929, Mar. 1930 to September 1932, May to September 1934, July to September 1935, May to September 1940, July 1941 to September 1944.
Additional records collected by Water District 36, State of Idaho, October and November 1932, July to September 1936, July to September 1937.

Extremes.- Maximum discharge during year, 1,820 second-feet June 28 (gage height, 2.83 feet); minimum observed, 155 second-feet (discharge measurement) Feb. 10.
1929-44: Maximum discharge observed, 1,880 second-feet June 9, 1942 (gage height, 2.90 feet); minimum observed, 62 second-feet Jan. 16, 17, 1943.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are poor. Many diversions from tributaries above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	408	414	306	h200		220	h197	292	484	980	466	329
2	397	392	305	205		220	210	279	568	1,070	454	344
3	386	380	302	210	220	220	250	258	664	1,070	460	349
4	380	408	h301	205		h220	300	242	761	930	454	344
5	375	516	300	*h192		220	350	258	554	864	448	354
6	370	454	300	200	230	220	500	234	472	825	445	329
7	364	408	300	205	225	218	600	250	503	761	437	329
8	370	370	300	h205	210	*h216	h515	250	541	678	431	324
9	364	364	280	200	200	212	750	279	723	664	431	324
10	364	364	260	200	*h190	208	710	324	997	664	431	314
11	392	370	h280		260	h204	660	329	1,060	608	425	314
12	451	375	260		h200	204	560	324	921	608	419	314
13	408	380	265	205	200	204	480	301	839	608	413	314
14	392	375	265		200	204	400	301	851	595	408	314
15	375	364	270		200	204	h349	301	905	535	402	310
16	370	354	270			204	320	305	913	503	397	301
17	364	349	h270			204	290	329	955	484	392	324
18	370	354	275	220	200	h204	270	443	950	484	366	370
19	408	359	275			204	285	408	784	491	360	362
20	454	370	h270			204	274	386	730	510	380	354
21	466	370	h255			202	266	359	831	608	375	329
22	472	354	235			200	258	324	872	595	370	314
23	448	354	220	220	210	195	258	334	815	548	364	314
24	448	392	210			185	258	334	723	528	359	314
25	466	380	h200			h174	274	310	792	516	354	310
26	445	354	195			170	262	296	1,060	535	349	305
27	402	*319	190			170	246	279	1,890	516	349	305
28	443	310	190	210	215	210	250	279	1,640	491	349	301
29	466	310	190			*h230	329	292	1,130	478	334	305
30	437	310	192			220	301	339	955	478	334	319
31	419	-	192			h204	-	380	-	472	334	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	12,652	472	364	408	25,100
November.....	11,183	516	310	373	22,180
December.....	7,902	305	190	255	16,670
Calendar year 1943	188,499	1,560	62	516	373,900
January.....	6,507	-	192	210	12,910
February.....	6,065	-	-	209	12,050
March.....	6,374	230	170	206	12,640
April.....	11,070	750	197	369	21,960
May.....	9,599	443	234	310	19,040
June.....	26,643	1,590	472	855	50,860
July.....	19,398	1,070	472	635	39,060
August.....	12,328	468	334	398	24,460
September.....	9,743	392	301	325	19,320
Water year 1943-44	138,761	1,690	170	379	275,200

* Winter discharge measurement made on this day.

h Computed from reading of auxiliary staff gage 2 miles above station.

Note.- No gage-height record Nov. 28 to Apr. 17 except weekly readings of auxiliary staff gage.

Stage-Discharge relation affected by ice Dec. 11 to Mar. 4, Mar. 29.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

HENRYS FORK BASIN

53

Teton River near St. Anthony, Idaho.

Location.- Water-stage recorder, lat. 43°56', long. 111°37', in sec. 15, T. 7 N., R. 41 E., half a mile upstream from railroad bridge and 4 miles southeast of St. Anthony.

Drainage area.- 920 square miles.

Records available.- April 1903 to June 1909, April 1920 to September 1944.

Average discharge.- 17 years (1903-8, 1921-22, 1933-44), 737 second-feet.

Extremes.- Maximum discharge during year, 2,830 second-feet June 28 (gauge height, 5.33 feet); minimum, 293 second-feet Mar. 28 (gauge height, 1.80 feet).

1903-9, 1920-44: Maximum discharge, 7,820 second-feet June 5, 1909 (gauge height, 6.90 feet, site and datum then in use); minimum, 88 second-feet Mar. 12, 1906 (gauge height, 1.00 foot, site and datum then in use).

Remarks.- Records excellent except those for periods of ice effect or no gauge-height record, which are fair. Flow affected by diversions from streams in Teton Basin 20 miles upstream, and by flow diverted from Henrys Fork through Cross Cut Canal into Teton River (6,940 acre-feet diverted into river during 1944).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	639	650	530	370	430	399	408	568	1,470	1,740	743	587
2	628	628	526	410	430	399	440	544	1,620	1,830	737	587
3	618	608	526	430	435	399	476	503	1,650	1,800	725	613
4	608	623	526	440	450	399	556	494	1,680	1,620	743	592
5	608	706	530	450	490	392	725	521	1,560	1,480	803	578
6	608	737	530	450	490	374	762	618	1,470	1,430	796	573
7	597	650	530	450	480	386	939	743	1,490	1,400	789	568
8	597	602	530	450	458	399	895	823	1,530	1,310	776	558
9	597	602	468	440	458	391	902	895	1,720	1,210	762	554
10	592	597	458	440	*404	399	1,100	1,120	2,140	1,180	776	564
11	613	602	458	430	422	399	1,040	1,110	2,190	1,110	796	554
12	661	602	458	430	412	382	991	1,240	1,970	1,060	803	568
13	655	602	458	430	408	391	844	1,310	1,790	1,050	796	558
14	628	602	458	430	426	369	712	1,470	1,720	1,040	789	549
15	608	602	458	440	426	386	618	1,640	1,770	998	789	549
16	602	597	460	450	422	408	582	1,650	1,810	924	782	554
17	597	597	470	450	389	391	535	1,610	1,840	895	782	562
18	602	602	475	*450	408	396	507	1,540	1,770	973	776	623
19	639	613	485	450	391	399	498	1,430	1,560	859	762	655
20	683	623	485	450	336	404	494	1,350	1,490	895	756	634
21	694	628	470	450	a390	399	484	1,310	1,630	939	743	597
22	a700	618	455	450	a405	391	480	1,300	1,640	961	743	568
23	a680	618	435	450	408	391	471	1,170	1,620	888	737	549
24	a680	650	430	450	404	395	466	1,060	1,410	859	731	549
25	a700	634	420	450	395	374	480	954	1,460	844	731	549
26	a675	554	390	440	395	361	498	880	1,720	852	725	544
27	660	*521	*350	430	386	374	476	888	2,570	944	712	539
28	655	521	340	430	382	340	480	1,060	2,760	810	706	539
29	712	530	340	430	404	404	526	1,250	2,140	782	683	535
30	689	503	340	430	-	391	587	1,290	1,740	769	666	549
31	666	-	340	430	-	399	-	1,310	-	756	613	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	19,881	712	592	641	39,430
November.....	18,222	737	503	607	36,140
December.....	14,119	530	340	455	28,000
Calendar year 1943	358,715	3,220	248	983	711,500
January.....	13,580	450	370	438	26,940
February.....	12,144	490	336	419	24,090
March.....	12,070	408	340	389	23,940
April.....	18,974	1,100	408	632	37,630
May.....	33,651	1,650	494	1,086	66,750
June.....	52,730	2,760	1,410	1,758	104,600
July.....	34,008	1,830	756	1,097	67,450
August.....	25,271	803	613	751	46,160
September.....	17,103	655	535	570	33,920
Water year 1943-44	269,753	2,760	336	737	535,000

* Winter discharge measurement made on this day.

a No gauge-height record; discharge computed on basis of records for station near Teton.

Note.- Stage-discharge relation affected by ice Dec. 11 to Feb. 7.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

HENRYS FORK BASIN

Diversions from Teton River between St. Anthony gaging station and mouth, Idaho

Between St. Anthony gaging station and mouth 17 canals divert water from Teton River for irrigation. Records available for part of each irrigation season from 1919 to 1944. Discharge of canals computed from daily or biweekly staff-gage readings, or interpolated, and combined to show total diverted flow. Records good.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								135	1,030	798	699	641
2								140	1,010	845	676	637
3								142	972	883	662	643
4								237	980	907	670	674
5								261	953	888	758	597
6								286	748	682	770	562
7								290	728	930	751	554
8								295	713	937	735	564
9								305	712	932	729	576
10								326	715	921	759	560
11								324	660	891	813	527
12								342	652	934	802	535
13								460	657	945	785	531
14								633	624	1,010	792	527
15								716	652	914	800	522
16								787	693	975	810	521
17								782	701	809	797	445
18								787	725	799	784	428
19								665	832	782	775	425
20								612	961	841	746	405
21								604	1,130	813	738	399
22								589	1,180	864	742	385
23								596	1,170	847	740	371
24								596	1,190	788	739	364
25								624	1,210	751	745	366
26								655	1,020	716	759	356
27								727	861	772	718	354
28								766	830	751	725	359
29								791	804	744	699	357
30								861	793	707	672	357
31								888	-	642	634	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....					
November.....					
December.....					
Calendar year					
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	-	-	-	-	-
May.....	16,222	998	135	523	32,180
June.....	25,934	1,210	824	864	51,440
July.....	26,118	1,010	642	845	51,800
August.....	22,990	813	634	742	45,800
September.....	14,529	674	354	484	29,820
The period.....	-	-	-	-	209,800

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Blackfoot River near Blackfoot, Idaho

Location.- Water-stage recorder, lat. 43°08', long. 112°28', at east quarter corner of sec. 28, T. 3 S., R. 34 E., 2 miles upstream from mouth and 9 miles southwest of Blackfoot. Altitude of gage, 4,420 feet (river-profile survey).

Drainage area.- 1,100 square miles.

Records available.- July 1913 to September 1944.

Extremes.- Maximum discharge during year, 469 second-feet Oct. 16 (gage height, 5.12 feet); minimum, no flow May 29, July 16-18.

1913-44: Maximum discharge, 868 second-feet May 21, 1921; no flow on many days.

Remarks.- Records good except those for Dec. 12 to Mar. 17, which are poor. Flow regulated by Blackfoot Marsh Reservoir (capacity, 413,000 acre-feet). Many diversions above station for irrigation. Most of flow during nonirrigation season and part of that during irrigation season is supplied by waste from Snake River canals.

Cooperation.- Gage-height record furnished by Office of Indian Affairs.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	143	335	276			70	172	186	32	50	6	7
2	118	351	271	170	110	76	174	165	174	35	3	7
3	118	326	248			75	177	158	320	39	3	12
4	110	318	261			75	262	144	340	25	4	18
5	113	309	260			65	324	132	146	32	5	15
6	129	300	288		120	65	322	118	88	36	10	11
7	118	296	288	150	*140	65	332	100	229	27	11	6
8	137	296	277		140	70	388	84	282	12	6	6
9	136	283	262		130	h80	401	103	235	8	7	6
10	198	294	205		120	h120	346	155	256	6	14	12
11	180	274	315	115		180	327	248	387	4	18	14
12	187	274	200	*109		180	370	220	433	5	13	17
13	271	279	190	105	90	180	397	193	349	1	11	26
14	348	285	190	103		180	414	173	404	1	8	22
15	364	282	190	100		180	372	161	348	1	12	7
16												
17	340	279	190		50	120	311	80	278	0	15	7
18	316	274	190	105	45	120	257	57	235	0	12	10
19	239	275	190		h50	128	285	58	180	0	12	76
20	275	270	195		h60	160	189	70	122	3	7	253
21					60	218	147	49	17	6	6	79
22	278	282	200		60	227	122	36	4	11	5	85
23	285	259	200	100	55	185	107	28	6	6	3	89
24	285	265	200		60	137	139	35	10	6	4	99
25	296	273	200		h50	129	147	60	3	13	5	100
26	291	279	200		50	147	157	37	1	11	6	97
27	285	304	190		55	135	220	20	1	12	5	47
28	284	324	180		60	129	286	29	10	6	7	28
29	285	295	h180	100	65	113	285	10	21	5	10	18
30	289	285	h170		*68	135	253	0	35	4	9	9
31	294	275	170		-	146	217	5	67	5	14	10
32	301	-	170		-	167	-	9	-	5	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	7,507	446	110	242	14,890
November.....	8,651	335	259	289	17,220
December.....	6,736	516	170	217	13,560
Calendar year 1943	69,568	572	3	191	158,000
January.....	3,757	-	-	121	7,450
February.....	2,428	-	-	83.7	4,820
March.....	3,756	227	65	121	7,450
April.....	7,840	414	107	261	15,650
May.....	2,892	249	0	85.3	5,740
June.....	5,009	433	1	167	9,940
July.....	373	50	0	12.0	740
August.....	280	18	3	8.4	518
September.....	1,193	253	6	39.8	2,370
Water year 1943-44	50,432	446	0	138	106,000

* Winter discharge measurement made on this day.

h Computed from reading of auxiliary staff gage 9 miles upstream.

Note.- Discharge for period Dec. 12 to Mar. 17 computed on basis of 3 discharge measurements and occasional readings of auxiliary gage.

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

MUD LAKE BASIN

Mud Lake near Terretton, Idaho

Location.-- Water-stage recorder, lat. 43°53', long. 112°24', in SW¼ sec. 1, T. 6 N., R. 34 E., 2 miles north of First Owsley pump house, 2½ miles northeast of Terretton, and 14 miles southwest of Hamer; supplemental staff gage at pump house. Datum of each gage is 4,775.33 feet above mean sea level.

Records available.-- April 1921 to September 1944.

Extremes.-- 1942-43: Maximum daily contents during water year, 35,900 acre-feet May 8 (gage height, 7.57 feet); minimum daily, 3,450 acre-feet Oct. 11 (gage height, 0.02 foot).

1943-44: Maximum daily contents during water year, 36,100 acre-feet May 6, 7 (gage height, 7.59 feet); minimum daily, 3,860 acre-feet Oct. 21 (gage height, 0.24 foot).

1921-44: Maximum contents observed, 61,660 acre-feet May 5, 1923 (gage height, 9.20 feet); practically no contents Oct. 1 to Nov. 15, 1937 (at 4 p.m. Nov. 15 water was diverted from Camas Creek into lake).

Remarks.-- Mud Lake is a perched body of water confined by earth dikes and fed by ground water and surface tributaries. For complete description of Mud Lake region see Water-Supply Paper No. 818. Water for irrigation is diverted from lake and tributaries by pumping and gravity. Camas Creek diversion canal reported in operation with diversion dam in place at creek mouth July 15 to Oct. 31, 1943, but flow intermingling with lake water at junction with First Owsley outlet canal. During 1944 season diversion dam at creek mouth reported not to have been placed. Area of lake is varied from time to time by changes in dikes. High winds occasionally disturb recording of lake stages. Figures given herein represent contents above gage height -4.0 feet. Capacity table prepared from surveys made by Geological Survey adjusted for changes in dikes.

Cooperation.-- Water-stage recorder inspected by Water District No. 66 supplemental staff-gage readings furnished by Owsley Canal Co.

Contents, in acre-feet, 1942-44

1942-43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,540	4,030	8,750	13,800	19,700	23,900	a27,800	34,800	26,900	18,000	8,330	5,650
2	3,590	4,210	8,950	13,900	19,900	a24,000	a27,900	35,000	26,500	17,700	8,050	5,750
3	3,550	4,190	9,080	14,000	20,100	a24,100	a28,100	35,200	26,500	17,300	7,620	5,650
4	3,580	4,370	9,290	14,200	20,100	a24,200	a28,300	35,400	26,500	17,100	7,420	5,440
5	3,570	4,500	9,460	a14,400	20,300	a24,200	a28,400	35,600	26,300	16,800	7,300	5,460
6	3,540	4,710	9,660	a14,500	20,400	a24,300	a28,500	35,600	26,300	16,500	6,990	5,700
7	3,460	4,830	9,910	a14,700	20,500	a24,400	a28,500	35,800	26,300	16,200	6,770	5,820
8	3,500	4,690	10,100	a14,900	20,800	a24,500	a28,900	35,900	26,400	15,900	6,720	5,800
9	3,490	5,100	10,200	a15,100	20,900	a24,600	a29,100	35,800	26,400	15,500	6,620	5,900
10	3,460	5,280	10,400	a15,200	21,000	a24,600	a29,300	35,600	26,500	15,200	6,460	6,120
11	3,450	5,440	10,500	a15,400	21,000	a24,700	a29,400	35,400	26,300	14,900	6,280	6,250
12	3,500	5,560	10,600	a15,600	21,100	a24,800	a29,600	35,000	26,000	14,400	6,150	6,250
13	3,540	5,650	10,800	a15,800	21,500	a24,900	a29,800	34,700	25,900	14,100	6,100	6,100
14	3,500	a5,780	10,900	a15,900	21,800	25,100	a29,900	34,400	25,600	13,700	6,000	6,050
15	3,500	5,920	11,000	16,000	22,000	25,300	30,100	34,200	25,400	13,200	5,820	6,000
16	3,540	6,280	11,100	16,200	22,100	25,400	30,300	34,000	25,200	12,700	5,680	5,950
17	a3,550	6,460	11,300	16,300	22,100	25,500	30,600	33,800	25,000	12,700	5,800	a5,910
18	a3,560	6,560	11,400	16,400	22,200	25,600	30,900	33,600	24,800	12,600	5,820	a5,870
19	a3,570	6,950	11,500	16,400	22,300	25,700	31,300	33,200	24,500	12,300	5,780	a5,830
20	a3,580	7,050	11,700	16,500	22,500	25,800	31,400	32,900	24,200	12,100	5,680	a5,790
21	a3,590	7,070	11,800	17,200	22,500	25,900	31,600	32,500	23,700	11,800	5,620	a5,750
22	a3,600	7,190	a12,000	17,700	22,900	26,200	32,000	32,100	23,000	11,400	5,630	a5,710
23	a3,600	7,350	a12,200	18,000	23,100	26,400	32,300	31,800	22,500	11,100	5,630	a5,670
24	a3,610	7,470	a12,400	18,300	23,300	26,600	32,600	31,200	21,800	10,800	5,510	a5,630
25	a3,620	7,550	a12,600	18,500	23,400	27,000	33,000	30,700	21,200	10,500	5,480	a5,600
26	a3,630	7,830	a12,800	18,700	23,500	27,000	33,500	30,100	20,600	10,200	5,410	a5,570
27	a3,640	8,050	a12,900	18,900	23,700	a27,100	33,900	29,600	20,200	9,910	5,370	a5,550
28	a3,650	8,230	a13,100	19,100	23,800	a27,200	34,300	29,000	19,600	9,560	5,440	a5,530
29	a3,660	8,390	a13,300	19,300	-	a27,300	34,500	28,600	19,000	9,080	5,480	5,510
30	a3,670	8,590	a13,500	19,400	-	a27,400	34,800	28,000	18,400	8,720	5,410	5,510
31	3,580	-	13,700	19,500	-	a27,500	-	27,400	-	8,390	5,680	-

a No gage-height record; contents interpolated.

b Computed from supplemental staff-gage reading except Mar. 29, which was computed from staff-gage reading at recorder site.

MUD LAKE BASIN

57

Contents, in acre-feet, of Mud Lake near Terretton, Idaho, 1942-44--Continued

1943-44											
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Sept.
1	5,440	5,160	10,200	15,700	h21,000	h26,000	a30,200	35,400	31,800	34,600	22,800
2	5,300	5,300	10,300	15,900	h21,200	a26,200	a30,300	35,500	31,700	34,400	22,200
3	5,190	5,440	10,500	16,100	a21,500	a26,300	30,400	35,700	31,800	34,300	21,500
4	5,100	5,410	10,700	16,300	h21,800	a26,400	30,400	35,900	31,800	34,200	20,900
5	5,010	5,680	10,900	16,500	h22,100	a26,500	30,700	36,000	31,900	34,100	20,300
6	4,900	5,920	11,000	16,700	a22,200	a26,700	30,900	36,100	32,000	33,900	19,900
7	4,770	6,100	11,200	17,000	h22,400	a26,800	31,100	36,100	32,200	33,600	19,200
8	4,750	6,260	11,400	17,100	a22,500	a26,900	31,300	36,000	32,500	33,300	18,600
9	4,500	6,430	11,600	17,400	a22,700	a27,000	31,500	35,700	33,200	33,000	17,900
10	4,290	6,590	11,700	17,500	h22,900	a27,200	31,600	35,800	33,400	32,700	17,100
11	4,590	6,780	11,900	17,800	a23,000	a27,300	31,600	35,900	33,700	32,400	16,700
12	4,510	6,910	12,000	h17,900	h23,200	a27,400	31,700	35,800	34,100	32,100	16,200
13	4,250	7,020	12,200	h17,900	h23,400	a27,500	31,700	35,800	34,400	31,600	15,800
14	4,190	7,230	12,400	h18,100	a23,500	a27,600	31,800	35,500	34,600	31,100	15,800
15	4,150	7,440	12,700	h18,300	h23,800	a27,700	32,000	35,200	34,800	30,500	14,900
16	4,110	7,560	12,800	18,700	h24,000	h27,800	32,300	35,000	35,000	29,900	14,500
17	4,010	7,740	12,900	18,800	h24,000	a27,900	32,500	34,600	35,200	29,200	14,200
18	4,170	7,920	13,100	19,000	a23,200	a28,000	32,600	34,500	35,400	28,700	14,000
19	4,270	8,110	13,200	19,100	h24,500	a28,100	32,700	34,300	35,600	28,500	13,700
20	4,090	8,350	13,400	19,300	h24,500	a28,200	33,000	34,100	35,600	28,000	13,400
21	3,860	8,590	13,700	19,600	a24,700	a28,300	33,200	33,900	35,600	28,000	13,200
22	4,170	8,720	13,800	19,600	h24,900	a28,400	33,200	33,500	35,400	27,800	12,900
23	4,230	8,850	14,000	19,800	h25,000	a28,500	33,300	33,400	35,400	27,400	12,700
24	4,310	9,050	14,100	20,000	a25,000	a28,700	33,500	33,300	35,200	27,000	12,400
25	4,370	9,260	14,400	20,100	a25,100	a28,900	33,700	33,200	35,000	26,500	12,100
26	4,450	9,350	14,500	20,300	h25,100	a29,100	33,900	32,900	34,800	26,100	11,900
27	4,480	9,520	14,700	20,400	a25,400	a29,300	34,200	32,700	35,000	25,600	11,700
28	4,600	9,660	14,900	20,500	a25,600	a29,500	34,500	32,600	35,000	25,100	11,500
29	4,750	9,840	15,100	h20,700	a25,900	a29,700	34,800	32,400	34,800	24,500	11,400
30	4,860	10,000	15,300	a20,800	-	a29,900	35,000	32,200	34,700	23,900	11,300
31	5,010	-	15,500	h20,900	-	h30,100	-	32,200	-	23,400	11,400

a No gage-height record; contents interpolated.

h Computed from supplemental staff-gage reading except Jan. 15, which was computed from staff-gage reading at recorder site.

Monthly gage height and contents, 1942-44

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30, 1942	0.07	3,540	-
Oct. 31	.15	3,680	+140
Nov. 30	2.13	8,590	+4,910
Dec. 31	5.48	13,700	+5,110
Calendar year 1942	-	-	+1,700
Jan. 31, 1943	4.73	19,500	+5,800
Feb. 28	5.56	23,800	+4,300
Mar. 31	6.23	27,600	+3,800
Apr. 30	7.40	34,800	+7,200
May 31	6.14	27,400	-7,400
June 30	4.50	18,400	-9,000
July 31	2.07	8,390	-10,010
Aug. 31	1.09	5,680	-2,710
Sept. 30	1.02	5,510	-170
Water year 1942-43	-	-	+1,970
Sept. 30, 1943	1.02	5,510	-
Oct. 31	.80	5,010	-500
Nov. 30	2.55	10,000	+4,990
Dec. 31	3.88	15,500	+5,500
Calendar year 1943	-	-	+1,800
Jan. 31, 1944	5.00	20,900	+5,400
Feb. 29	-	25,800	+4,900
Mar. 31	6.65	30,100	+4,300
Apr. 30	7.42	35,000	+4,900
May 31	6.98	32,200	-2,800
June 30	7.38	34,700	+2,500
July 31	5.48	23,400	-11,300
Aug. 31	2.91	11,400	-12,000
Sept. 30	2.91	11,400	0
Water year 1943-44	-	-	+5,890

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

MUD LAKE BASIN

Camas Creek at Eighteenmile shearing corral, near Kilgore, Idaho

Location.- Water-stage recorder, lat. 44°18', long. 111°52', in sec. 7, T. 11 N., R. 39 E., at bridge on county road at Eighteenmile shearing corral, just downstream from West Camas Creek, 7 miles south (corrected) of Kilgore, and 18½ miles northeast of Dubois.

Drainage area.- 210 square miles.

Records available.- May 1937 to September 1944 (no winter records).

Extremes.- Maximum discharge recorded during year, 538 second-feet May 20 (gage height, 3.78 feet); minimum recorded, 12 second-feet Sept. 1, 1937-44; Maximum discharge, about 1,200 second-feet probably on May 2, 1938 (gage height, 4.70 feet, datum then in use, from floodmark), from rating curve extended above 600 second-feet; minimum recorded, 0.7 second-foot Aug. 19, 1940.

Remarks.- Records fair. Diversions above and below station for irrigation and stock water.

Cooperation.- Water-stage recorder inspected by Water District No. 66.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	b33						a280	183	123	28	13
2	20	b33						a220	244	101	26	18
3	20	b32						a170	256	87	24	19
4	22	30						a120	317	79	24	17
5	22	31						a130	281	73	24	16
6	22	b32						140	208	70	24	16
7	22	b33						158	175	70	20	15
8	22	b32						156	178	59	19	15
9	24	b31						134	226	57	17	15
10	24	b32						129	342	61	17	15
11	24	b34						156	358	62	18	14
12	28	b34						175	295	56	18	15
13	28	*b32						150	244	50	18	18
14	26	b33						150	241	46	18	20
15	26	b33						150	205	42	18	17
16	26	b33						163	159	39	19	16
17	26	b32						175	136	36	20	19
18	31	b28						252	125	34	18	20
19	42	30						403	110	34	17	20
20	38	33	†21					462	97	36	16	19
21	36	34						289	93	40	16	18
22	34	32						210	89	40	19	18
23	33	33						190	89	37	19	18
24	33	36						161	89	36	17	16
25	34							138	75	37	16	16
26	36							123	85	37	16	16
27	37	b30						110	192	41	17	16
28	42							110	388	37	17	16
29	46							116	270	33	16	16
30	41							131	156	31	18	22
31	38	-						163	-	29	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	927	46	20	29.9	1,840
November.....	956	36	28	31.9	1,900
December.....	-	-	-	-	-
Calendar year.....	-	-	-	-	-
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	-	-	-	-	-
May.....	5,614	462	110	181	11,140
June.....	5,946	388	75	198	11,790
July.....	1,611	123	28	58.0	3,200
August.....	586	28	14	18.9	1,160
September.....	508	22	13	16.9	1,010
Water year.....	-	-	-	-	-

* Winter discharge measurement made on this day.

† Result of discharge measurement.

a No gage-height record; discharge computed on basis of records for stations on nearby streams.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Camas Creek at Camas, Idaho

Location.- Water-stage recorder, lat. 44°00', long. 112°13', in E $\frac{1}{2}$ SE $\frac{1}{4}$ sec. 21, T. 8 N., R. 36 E., 350 feet upstream from Oregon Short Line Railroad bridge at Camas and half a mile upstream from Beaver Creek.

Records available.- April 1925 to September 1944.

Average discharge.- 18 years (1926-44), 19.1 second-feet.

Extremes.- Maximum discharge during year, 269 second-feet Apr. 26 (gage height, 3.66 feet); no flow at times.

1925-44: Maximum discharge, 900 second-feet probably on May 3, 1938 (gage height, 3.98 feet, datum then in use, from floodmark), from rating curve extended above 400 second-feet; no flow June 1-7, 1926, and many periods during 1930-44.

Remarks.- Records fair except those for Oct. 20-25, Nov. 5-8, 14-17, 25, Nov. 28 to Apr. 3, Apr. 8-21, which are poor. Diversions above station for irrigation and stock water.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	18						196	69	67		
2	0	14					*3	141	83	35		
3	0	13						109	123	29		
4	0	7.8						83	141	29		
5	0	12						20	64	162		
6						2		22				
7	0	12						20	67	138	15	
8	0	12		5				24	78	108	14	
9	0	12					a40	86	92	14		
10	0	13					a60	83	104	11		
11	0	11			0		a90	71	128	9.1		
12	0	8.6					h106	67	200	10		
13	0	15					a140	69	212	11		
14	0	*11					a150	82	175	10		
15	0	12					a110	68	148	7.8		
16	0	12		(*)	(*)		a80	64	141	6.3		
17	0	12	7			(*)	h52	63	115	4.8		
18	0	14					a40	88	86	2.3		
19	0	10					a30	83	63	.6		
20	0	11	(*)				a30	125	49	.2		
21	a10	14				*	a50	217	32	.1		
22	a18	14				3	a80	230	24	0		
23	a17	16		0			126	148	19	0		
24	a16	16					140	110	17	0		
25	a16	16					196	103	15	0		
26	a16	16			2		238	87	15	0		
27	15	13					250	69	12	0		
28	16	8.6					197	54	17	0		
29	18						184	43	117	0		
30	18	7					221	36	193	0		
31	24						206	39	129	0		
32	21	-	(*)	(*)	-	(*)	-	48	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	204	24	0	6.58	405
November.....	362.0	18	-	12.1	718
December.....	217	-	-	7.0	430
Calendar year 1943	16,144.5	393	0	44.2	32,020
January.....	70	-	0	2.3	139
February.....	18	-	0	.6	36
March.....	33	-	0	2.7	165
April.....	2,901	250	-	96.7	5,750
May.....	2,941	230	36	91.6	5,640
June.....	2,927	212	12	97.6	5,810
July.....	298.2	67	0	9.62	591
August.....	0	0	0	0	0
September.....	0	0	0	0	0
Water year 1943-44	9,921.2	250	0	27.1	19,680

* Winter discharge measurement or field estimate made on this day.

a No gage-height record; discharge computed on basis of weather records, records for nearby stations, and information on starting and stopping of flow.

h Computed from staff-gage readings.

Note: Stage-discharge relation affected by ice Nov. 5-8, 14-17, 25, Nov. 28 to Apr. 4 (no gage-height record Nov. 8, Dec. 6 to Apr. 1; discharge computed on basis of field estimates, weather records, and records for nearby stations).

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

MUD LAKE BASIN

Beaver Creek at Spencer, Idaho

Location.- Staff gage, lat. 44°21', long. 112°11', in NE¼ sec. 23, T. 12 N., R. 36 E., at highway bridge, 0.4 mile southeast of Spencer post office and 2½ miles upstream from Rattlesnake Creek.

Drainage area.- 120 square miles.

Records available.- October 1940 to September 1944 (no winter records 1942-44).

Extremes.- Maximum discharge observed during year, 231 second-feet June 27 (gage height, 4.15 feet), from rating curve extended above 140 second-feet; minimum observed, 0.5 second-foot (field estimate) Feb. 22.

1940-44: Maximum discharge observed, 408 second-feet Apr. 13, 1942, from rating curve extended above 140 second-feet; maximum gage height observed, 5.95 feet Mar. 30, 1943 (ice jam); minimum discharge observed, 0.5 second-foot Jan. 26, 1942, Feb. 22, 1944.

Remarks.- Records fair except those for periods of ice effect or no gage-height record, which are poor. Gage read once daily. Several ranch diversions above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6	15					a25	124	80	66	29	7.8
2	4.6	10					†30	104	66	61	29	8.1
3	4.8	8.7					a35	82	114	57	33	9.3
4	4.8	10					a40	66	114	51	32	9.3
5	4.6	14					a55	71	80	47	29	8.7
6	4.2	10					a40	80	66	76	28	6.8
7	4.4	b10					a70	76	76	56	22	6.5
8	3.6	12					a100	62	80	48	19	6.2
9	3.8	14					a130	59	156	47	19	6.0
10	3.8	13					a180	56	219	57	19	6.0
11	4.4	15					207	60	196	48	15	5.8
12	5.0	23					207	59	150	44	14	6.0
13	5.2	*12					144	58	150	44	14	6.0
14	5.2	10					109	57	144	42	12	4.8
15	5.5	10					84	54	114	34	14	4.8
16	5.8	10					71	55	114	29	13	5.2
17	6.0	13					66	76	109	28	17	7.2
18	7.0	12					55	94	94	28	9.9	7.8
19	7.0	12					44	124	84	33	16	7.8
20	7.8	15	†8.2			†14	66	94	76	114	16	8.1
21	6.1	14					94	66	76	60	12	7.5
22	15	13			†0.5		104	60	71	47	12	8.1
23	9.9	13					114	71	76	45	11	8.4
24	9.0	14					156	58	62	42	10	7.8
25	9.6						172	51	57	35	8.7	7.8
26	10						139	49	139	76	7.5	7.5
27	10	b12					114	46	231	47	7.5	7.0
28	20						124	43	195	44	6.8	8.1
29	17						139	44	109	39	7.0	8.4
30	13						139	52	84	35	7.0	18
31	12	-					-	60	-	32	7.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	255.5	20	3.6	7.60	467
November.....	374.7	23	-	12.5	743
December.....	-	-	-	-	-
Calendar year	-	-	-	-	-
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	3,003	207	25	100	5,960
May.....	2,093	124	43	87.5	4,150
June.....	3,361	231	57	113	6,710
July.....	1,510	114	28	48.7	3,000
August.....	496.9	33	6.8	16.0	986
September.....	226.8	15	4.8	7.56	450
Water year	-	-	-	-	-

* Winter discharge measurement made on this day.

† Result of discharge measurement or field estimate.

a No gage-height record; discharge interpolated or computed on basis of records for station at Dubois.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Beaver Creek at Dubois, Idaho

Location.- Water-stage recorder, lat. $44^{\circ}11'$, long. $112^{\circ}14'$, in NW $\frac{1}{4}$ sec. 21, T. 10 N., R. 36 E., half a mile north of Dubois.

Drainage area.- 220 square miles.

Records available.- April 1921 to September 1944.

Average discharge.- 17 years (1921-24, 1928-29, 1931-44), 13.8 second-feet.

Extremes.- Maximum discharge during year, 221 second-feet Apr. 13, June 27; maximum gage height, 2.35 feet Apr. 13; no flow during long periods.
1921-44: Maximum discharge, 858 second-feet Apr. 7, 1930; maximum gage height, about 6.5 feet Mar. 16, 1928; no flow during long periods.

Remarks.- Records good.

Cooperation.- Water-stage recorder inspected by Water District No. 66.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							2.2	90	36	50	10	
2							3.1	57	47	40	9.1	
3							3.1	40	53	34	9.7	
4							12	36	90	29	14	
5							24	38	63	26	10	
6							22	39	44	36	7.6	
7							24	39	44	36	6.0	
8							42	34	57	26	4.7	
9							56	29	92	23	4.0	
10							84	27	188	24	3.3	
11							101	27	148	28	3.0	
12							132	26	118	23	2.4	
13							142	23	110	18	.6	
14							105	23	120	14	0	
15							71	23	86	12	0	
16							48	20	76	9.4	0	
17							35	20	77	6.4	0	
18							24	49	66	5.3	0	
19							24	92	59	6.6	0	
20							32	76	52	29	0	
21							41	50	47	53	0	
22							50	39	43	28	0	
23							75	49	47	23	0	
24							99	40	41	20	0	
25							112	30	33	14	0	
26							97	24	41	31	0	
27							69	19	166	32	0	
28							74	16	183	21	0	
29							97	15	105	16	0	
30							108	19	68	14	0	
31							-	28	-	11	0	

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	0	0	0	0	0
November.....	0	0	0	0	0
December.....	0	0	0	0	0
Calendar year 1943	5,044.9	164	0	13.8	10,000
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	0	0	0	0	0
April.....	1,806.4	142	2.2	60.2	3,580
May.....	1,137	92	15	36.7	2,260
June.....	2,400	188	33	60.0	4,760
July.....	738.7	53	5.3	23.8	1,470
August.....	84.4	14	0	2.72	167
September.....	0	0	0	0	0
Water year 1943-44	6,166.5	188	0	16.8	12,240

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

MUD LAKE BASIN

Beaver Creek at Camas, Idaho

Location.- Staff gage, lat. 44°01', long. 112°14', in NE¼ sec. 21, T. 8 N., R. 36 E., a quarter of a mile northwest of Oregon Short Line Railroad station at Camas and three-eighths of a mile upstream from mouth.

Records available.- April 1921 to September 1944.

Extremes.- Maximum discharge observed during year, 75 second-feet June 28 (gage height, 2.40 feet); no flow on most days.

1921-44: Maximum discharge observed, 163 second-feet Apr. 7, 1930; usually no flow past station except for short period in spring of each year; none passed station during years 1931-36, 1940.

Remarks.- Records good for April and May; fair for June and July. Gage read twice daily. Flow affected by irrigation diversions above Dubois, about 14 miles above station, and by heavy channel losses below Dubois.

Cooperation.- Three discharge measurements furnished by Water District No. 66.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	25	0	5		
2							0	12	0	0		
3							0	3	0	0		
4							0	0	0	0		
5							0	0	0	0		
6							0	0	0	0		
7							0	0	0	0		
8							0	0	0	0		
9							0	0	0	0		
10							0	0	27	0		
11							0	0	40	0		
12							5	0	37	0		
13							32	0	22	0		
14							44	0	28	0		
15							32	0	16	0		
16							17	0	8	0		
17							7	0	12	0		
18							5	0	7	0		
19							0	0	3	0		
20							0	0	1	0		
21							0	0	0	0		
22							0	0	0	0		
23							3	0	0	0		
24							15	0	0	0		
25							36	0	0	0		
26							36	0	0	0		
27							16	0	1	0		
28							10	0	73	0		
29							19	0	50	0		
30							23	0	20	0		
31							-	0	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	0	0	0	0	0
November.....	0	0	0	0	0
December.....	0	0	0	0	0
Calendar year 1943	542	54	0	1.5	1,080
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	0	0	0	0	0
April.....	299	44	0	10.0	593
May.....	40	25	0	1.3	79
June.....	345	73	0	11.5	684
July.....	5	5	0	.2	10
August.....	0	0	0	0	0
September.....	0	0	0	0	0
Water year, 1943-44	689	73	0	1.9	1,370

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Medicine Lodge Creek at Ellis Ranch, near Argora, Idaho

Location.- Water-stage recorder, lat. $44^{\circ}17'$, long. $112^{\circ}30'$, in sec. 7 T. 11 N., R. 34 E., 4 miles upstream from Middle Creek, $6\frac{1}{2}$ miles southeast of Argora, and 17 miles northwest of Dubois.

Records available.- October 1940 to September 1944.

Extremes.- Maximum discharge during year, 229 second-feet June 9 (gage height, 4.23 feet), from rating curve extended above 120 second-feet by logarithmic plotting; minimum, 10 second-feet Mar. 13 (gage height, 1.09 feet).
1940-44: Maximum discharge, that of June 9, 1944; minimum, 9 second-feet Dec. 12, 1940.

Remarks.- Records good. Several diversions above and below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	29	32	19	37	36	40	36	68	127	95	67
2	36	30	28	21	36	36	41	31	64	127	94	68
3	36	28	32	29	36	35	43	30	65	129	96	68
4	35	30	32	18	36	37	48	30	64	128	93	66
5	34	31	32	17	35	36	52	31	62	127	90	64
6	34	29	26	19	35	35	52	34	62	127	87	64
7	34	27	28	19	34	32	52	38	60	118	84	63
8	34	28	30	17	34	35	49	34	56	115	82	62
9	34	29	18	16	32	35	50	39	153	108	82	60
10	34	30	19	17	20	35	52	40	132	114	82	60
11	35	30	19	18	21	36	50	44	127	115	83	59
12	35	29	17	19	22	34	54	42	119	109	80	59
13	35	29	17	19	24	25	48	42	119	107	77	58
14	35	29	16	20	26	12	44	44	115	103	76	58
15	35	30	16	21	26	12	43	45	109	103	77	59
16	35	30	16	24	27	12	43	46	113	102	75	58
17	35	30	16	28	27	15	40	48	112	100	73	59
18	37	28	17	34	26	28	38	68	114	99	73	59
19	38	28	20	39	30	44	35	69	112	107	73	59
20	36	29	29	36	29	38	32	66	110	126	74	59
21	38	29	34	38	31	37	32	64	114	115	72	58
22	36	28	34	38	35	37	31	64	113	112	72	58
23	37	29	37	40	41	38	29	65	122	112	71	57
24	35	30	36	43	38	38	28	62	114	104	69	55
25	32	29	37	41	36	37	31	61	110	100	70	56
26	31	25	36	40	36	36	30	60	128	102	70	54
27	31	24	24	39	36	31	29	58	178	98	71	53
28	32	29	19	33	36	35	31	57	147	102	70	54
29	32	31	16	36	36	41	34	57	135	101	69	56
30	28	32	16	37	-	39	41	62	129	97	69	56
31	28	-	19	37	-	39	-	66	-	99	68	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,062	38	28	34.3	2,110
November.....	869	32	24	29.0	1,720
December.....	767	37	18	24.7	1,520
Calendar year 1943	14,244	60	16	39.0	28,250
January.....	865	43	16	27.9	1,720
February.....	921	41	20	31.8	1,830
March.....	1,020	44	12	32.9	2,020
April.....	1,222	54	28	40.7	2,420
May.....	1,534	69	30	49.5	3,040
June.....	3,285	183	60	110	6,520
July.....	3,431	129	97	111	6,810
August.....	2,417	96	68	78.0	4,790
September.....	1,786	68	53	59.5	3,540
Water year 1943-44	19,179	183	12	52.4	38,040

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Medicine Lodge Creek near Small, Idaho

Location.— Water-stage recorder, lat. 44°16', long. 112°25', in NW¼ sec. 25, T. 11 N., R. 34 E., 400 feet west of H. W. Small's ranch house, 1 mile downstream from Indian Creek, 4 miles northwest of Small, and 11 miles northwest of Dubois.

Drainage area.— 270 square miles.

Records available.— April 1921 to December 1923, October 1940 to September 1944.

Extremes.— Maximum discharge during year, 265 second-foot June 9 from rating curve extended above 160 second-foot; maximum gage height recorded, 5.93 feet Feb. 3 (ice jam); minimum discharge not determined (occurred during period of ice effect).
1921-23, 1940-44: Maximum discharge recorded, that of June 9, 1944; minimum observed, 8 second-foot Dec. 14, 1940 (discharge measurement).

Remarks.— Records good except those for periods of ice effect or no gage-height record, which are poor. Many small diversions above and below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	36	36				49	48	106	163	115	70
2	41	41	34				50	41	101	163	115	71
3	41	37	36				53	39	107	164	116	73
4	40	40	37		45		60	38	106	163	112	72
5	41	42	37				69	40	99	164	109	76
6	40	35	30			45	69	43	99	169	106	73
7	40	32	33		45		73	50	99	161	103	69
8	40	34	36	20	45		68	46	119	158	100	66
9	41	37			45		71	50	220	163	100	70
10	41	39					70	55	166	166	99	69
11	42	40					64	64	150	166	96	68
12	44	39				40	72	65	148	156	95	67
13	44	37				30	63	66	153	150	91	67
14	44	*38	22			20	56	70	150	144	88	66
15	44	38			25	10	52	74	146	146	89	68
16	44	38				10	52	74	147	142	88	68
17	44	37				15	49	77	150	136	86	70
18	46	36				*30	46	100	152	132	82	71
19	50	35					44	106	162	140	79	
20	46	36	34				40	103	148	156	79	69
21	49	36	*36				40	98	152	152	76	67
22	51	35	40		52		40	98	152	146	75	66
23	50	35	44	*45		45	38	99	161	147	74	66
24	47	35	42				37	92	153	140	74	64
25	42	35	42		h52		43	88	147	132	74	64
26	41	26	41				40	86	161	135	73	61
27	40	26	32		50		38	84	209	131	73	60
28	44	30	24				41	82	169	130	73	60
29	44	34	20				44	81	164	130	73	63
30	38	35	20				56	89	163	123	72	68
31	37	-	24			50	-	100	-	119	72	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,337	51	37	45.1	2,650
November.....	1,072	42	26	35.7	2,130
December.....	920	44	-	29.7	1,820
Calendar year 1943	17,829	86	-	48.8	35,360
January.....	1,020	-	-	32.9	2,020
February.....	1,140	-	-	39.3	2,280
March.....	1,240	-	-	40.0	2,460
April.....	1,557	75	37	52.9	3,150
May.....	2,246	106	56	72.5	4,460
June.....	4,338	220	99	145	8,600
July.....	4,565	169	119	147	9,050
August.....	2,757	116	72	88.9	5,470
September.....	2,032	76	60	67.7	4,030
Water year 1943-44	24,254	220	-	66.3	48,090

* Winter discharge measurement made on this day.

h Computed from staff-gage reading.

Note.— Stage-discharge relation affected by ice Nov. 7-9, 26-28, Dec. 2, 6-22, Dec. 26 to Feb. 6, 10-24, Feb. 26 to Mar. 30 (no gage-height record Feb. 4-6, 11-17, 19-24, Feb. 26 to Mar. 6, Mar. 8-17, 24, 29, 30; discharge computed on basis of weather records and records for station at Ellis Ranch, near Argova).

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Lost River near Howe, Idaho

Location.- Water-stage recorder, lat. 43°53', long. 113°06', in sec. 3, T. 6 N., R. 28 E., a quarter of a mile upstream from diversion dam of Blaine County Investment Co., 6 miles northwest of Beranice, and 7 miles northwest of Howe.

Records available.- April 1921 to September 1944, except during winters.

Extremes.- Maximum discharge during year, 178 second-feet July 5; maximum gage height recorded, 4.61 feet Jan. 19 (ice jam); minimum discharge recorded, 18 second-feet Dec. 28, but may have been less during winter period.

1921-44: Maximum discharge, about 450 second-feet Aug. 11, 1936, during cloudburst (gage height, 3.1 feet, datum then in use, from floodmark), from rating curve extended above 100 second-feet; minimum observed, 4.1 second-feet Dec. 12, 1940.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Many diversions above and below station for irrigation. Prior to 1937 water was stored in small reservoir of Blaine County Investment Co. on Dry Creek, about 40 miles above station, and during irrigation seasons was released and carried through Corral and Wet Creeks to Little Lost River, from which it was diverted into the company's main canal a quarter of a mile below station.

Cooperation.- Water-stage recorder inspected by Water District No. 9.

Rating table, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

2.2	20	3.0	96
2.4	34	3.2	120
2.6	52	3.5	168
2.8	73	3.7	185

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	51	46				a60	64	131	172	116	72
2	58	48	44				a60	61	141	174	112	82
3	58	50	41				a65	55	144	175	121	82
4	58	55	42				a75	53	144	174	114	76
5	58	55	42				a90	60	138	175	106	71
6	58	52	37				84	73	135	177	100	69
7	58	47	33				82	75	140	170	95	68
8	58	46	33				82	90	149	161	92	71
9	58	57	33				81	89	154	161	90	76
10	58		30				74	88	153	154	86	76
11	60	59					71	88	157	153	86	75
12	60	60					76	89	157	146	82	77
13	59	69					68	88	157	142	81	76
14	57	66					58	94	158	135	81	a77
15	61	*69	b30				55	103	159	135	81	78
16	61	69					52	113	161	130	80	78
17	60	72					52	121	161	127	82	83
18	63	71	28				49	131	161	125	82	86
19	68	72	26				48	130	161	124	81	86
20	66	72	29				49	131	163	135	81	84
21	63	72	32				49	126	164	146	81	82
22	62	71	b30				48	121	166	140	73	80
23	61	71	32				48	124	168	144	74	78
24	64	72	30				51	119	167	138	74	78
25	63	69	32				52	113	167	131	73	77
26	59	59	33		*+29		51	107	167	127	75	77
27	58	51					49	103	171	122	75	77
28	62	43					49	104	171	119	74	77
29	65	47	b30				54	101	172	118	74	78
30	60	45					62	113	172	118	75	80
31	58	-				*+55	-	122	-	118	74	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,869	68	57	60.3	3,710
November.....	1,802	72	43	60.1	3,570
December.....	1,013	46	-	32.7	2,010
Calendar year	-	-	-	-	-
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	1,844	-	48	61.5	3,680
May.....	3,046	131	53	68.3	6,040
June.....	4,709	172	131	157	9,340
July.....	4,466	177	118	144	8,860
August.....	2,671	121	73	86.2	5,300
September.....	2,327	86	68	77.6	4,620
Water year	-	-	-	-	-

* Winter discharge measurement made on this day.

+ Result of discharge measurement.

a No gage-height record; discharge computed on basis of records for Big Lost River at Wild Horse, near Chilly.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

LITTLE LOST RIVER BASIN

Blaine County Investment Co.'s canal near Howe, Idaho

Location.- Staff gage and Cippoletti weir, lat. 43°53', long. 113°05' in ~~Winn~~ sec. 11, T. 6 N., R. 28 E., 665 feet downstream from head gates and 7 miles northwest of Howe.

Records available.- April 1924 to September 1944 (prior to 1939, irrigation seasons only).

Extremes.- Maximum discharge observed during year, 65 second-feet July 5, 6; maximum gage height observed, 2.62 feet June 28, 29; no flow during long periods.

1924-44: Maximum discharge observed, 87 second-feet May 24, 25, 1928; no flow during long periods each year.

Remarks.- Records good except those below 5 second-feet, which are poor. Gage read once daily. Canal diverts water from Little Lost River in sec. 2, T. 6 N., R. 28 E., for irrigation of lands in project of Blaine County Investment Co.

Cooperation.- Gage-height record furnished by Water District No. 9.

Discharge, in second-feet, water-year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.7	8.0					-	38	14	64	21	6.1
2	7.7	14					-	35	30	64	20	6.7
3	7.7	14					-	22	34	64	20	6.5
4	7.7	14					-	16	36	59	20	6.3
5	7.7	17					-	15	36	65	14	6.3
6	1.6	6.4					-	28	36	65	14	6.3
7	1.6	-					-	28	36	57	10	6.3
8	1.6	-					-	31	46	54	9.9	6.3
9	1.6	-					-	31	52	54	9.1	5.9
10	1.6	-					-	21	68	48	6.4	5.9
11	1.6	-					-	19	59	47	7.7	5.9
12	1.6	-					-	20	57	40	8.1	6.9
13	1.6	-					-	16	59	39	7.9	5.9
14	1.6	-					-	17	59	27	7.7	3.9
15	1.6	17.4					-	23	59	27	7.7	5.9
16	1.6	-					-	28	59	27	7.7	5.9
17	1.6	-					-	30	52	27	7.7	6.1
18	1.6	-					-	34	53	21	7.7	6.3
19	1.6	-					-	33	55	21	7.4	6.3
20	7.3	-					-	33	55	21	7.2	8.6
21	7.3	-					-	28	59	24	6.3	8.4
22	7.3	-					-	24	51	25	6.3	8.4
23	9.1	-					37	24	52	31	6.3	8.4
24	9.1	-					40	20	61	32	6.3	8.1
25	9.1	-					40	17	60	31	6.3	8.1
26	8.0	-					39	14	61	29	6.3	8.1
27	8.0	-					38	9.9	63	29	6.3	8.1
28	8.8	-					35	6.6	64	22	6.3	8.1
29	14	-					36	0	64	22	6.3	8.4
30	14	-					35	0	64	22	6.3	8.4
31	14	-					-	0	-	21	6.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	176.9	14	1.6	5.71	351
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year	-	-	-	-	-
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April 25-30	300	-	-	37.5	595
May	661.5	38	0	21.3	1,310
June	1,564	64	14	52.1	3,100
July	1,179	65	21	38.0	2,340
August	292.5	21	6.3	9.44	580
September	207.8	8.6	5.9	6.93	412
Water year	-	-	-	-	-

† Result of discharge measurement.

a No gage-height record; discharge interpolated.

Note.- Flow probably occurred for a few days during stock run of mid-November and again for a few days prior to Apr. 23, but records for those periods are not available.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG-LOST RIVER BASIN

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Big Lost River at Wild Horse, near Chilly, Idaho

Location.- Water-stage recorder, lat. 43°56', long. 114°07', in sec. 17, T. 7 N., R. 20 E., a quarter of a mile above East Fork Big Lost River, 2 miles below Wild Horse dam site, and 16 miles southwest of Chilly.

Drainage area.- 114 square miles.

Records available.- March to September 1944.

Extremes.- Maximum discharge during period, 622 second-feet June 27 (gage height, 4.37 feet); minimum, 17 second-feet Mar. 30 (gage height, 1.34 feet).

Remarks.- Records good. No diversion or regulation.

Rating table, March to September 1944 (gage height, in feet, and discharge, in second-feet)

1.3	15	1.8	48	3.0	216
1.4	20	2.0	67	3.6	337
1.5	26	2.3	103	4.0	491
1.6	33	2.6	145	4.3	596

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	18	68	386	574	139	53
2						-	19	59	337	556	135	59
3						-	21	54	321	445	133	55
4						-	27	65	284	407	120	52
5						-	33	113	289	386	115	51
6						-	27	173	305	357	111	49
7						-	28	198	315	343	108	47
8						-	30	208	343	318	104	46
9						-	29	210	357	300	99	46
10						-	27	198	357	282	94	45
11						-	31	220	345	270	91	43
12						-	32	253	357	279	91	42
13						-	30	318	404	267	88	42
14						-	28	395	432	265	85	41
15						-	27	452	468	258	82	42
16						-	28	439	463	253	78	43
17						-	25	417	436	253	76	46
18						-	25	343	407	239	74	47
19						-	25	284	410	229	71	46
20						-	27	255	436	248	69	46
21						-	25	244	485	224	67	44
22						-	26	285	456	212	65	42
23						-	30	284	432	212	63	42
24						-	31	206	465	187	61	41
25						-	34	191	522	175	61	40
26						-	36	194	539	170	60	39
27						-	39	233	571	163	57	39
28						-	42	277	485	156	55	38
29						-	46	337	439	148	54	39
30						19	56	401	498	150	53	40
31						18	-	463	-	147	62	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acre-feet
October							
November							
December							
Calendar year							
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	903	56	18	30.1	0.264	0.29	1,790
May	7,705	452	54	249	2.18	2.51	15,280
June	12,295	571	284	410	3.60	4.01	24,390
July	8,456	574	147	273	2.39	2.76	16,770
August	2,612	139	52	84.3	.739	.85	5,180
September	1,345	59	38	44.8	.393	.44	2,670
The period	-	-	-	-	-	-	66,080

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG LOST RIVER BASIN

Big Lost River at Howell Ranch, near Chilly, Idaho

Location.— Water-stage recorder, lat. 44°01', long. 114°00', in sec. 30, T. 8 N., R. 21 E., at Howell Ranch, 9 miles southwest of Chilly and 21 miles northwest of Mackay.

Records available.— April 1904 to August 1906, July 1907 to November 1914, May 1920 to September 1944, except during winters.

Extremes.— Maximum discharge during year, 2,310 second-feet July 1 (gage height, 4.26 feet); minimum, not determined, probably occurred during period of no record. 1904-14, 1920-44: Maximum discharge, 3,500 second-feet June 12, 1921 (gage height, 5.94 feet), from rating curve extended above 3,000 second-feet; minimum observed, 19 second-feet (discharge measurement) Dec. 12, 1939.

Remarks.— Records good except those for periods of ice effect or no gage-height record, which are fair. No regulation. Several small diversions above station. Hammerly ditch (capacity, about 20 second-feet) diverts a quarter of a mile below station.

Cooperation.— Water-stage recorder inspected by Water District No. 27.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	137	123						229	1,220	2,190	445	179
2	134	130					a60	176	1,040	2,090	449	205
3	132	142						152	972	1,710	459	199
4	132	139						168	940	1,540	403	185
5	132	137					95	262	840	1,510	373	176
6	149	118						430	892	1,420	360	188
7	144	128						532	964	1,350	348	160
8	137	b130						594	1,090	1,230	329	157
9	137	b130						638	1,230	1,160	314	152
10	134	128					a90	619	1,230	1,080	296	149
11	165	125						690	1,160	988	289	149
12	157	123						781	1,210	1,010	289	147
13	147	126						948	al, 400	950	279	147
14	142	121						1,130	al, 500	956	269	144
15	142	121					86	1,440	al, 550	932	255	149
16	139	116					91	1,420	al, 550	892	245	149
17	139	*125					86	1,360	al, 500	892	239	165
18	144	123					87	1,100	al, 300	855	233	173
19	149	122					87	878	1,370	781	229	168
20	142	123		†74			87	745	1,660	870	223	168
21	147	118					87	704	1,650	798	214	160
22	139	118					89	731	1,620	711	208	157
23	142	121					97	645	1,480	697	202	152
24	144	118					110	594	1,600	613	196	147
25	149	116					114	560	1,900	584	193	144
26	152	106					123	572	1,940	584	193	142
27	149						128	697	1,980	595	190	142
28	162	b110					139	848	1,980	566	187	137
29	160						152	1,040	1,520	510	185	142
30	152	al10					183	1,290	1,770	505	185	147
31	144	-					-	1,360	-	480	179	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	4,474	165	132	144	8,870
November.....	3,667	142	106	122	7,270
December.....	-	-	-	-	-
Calendar year.....	-	-	-	-	-
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	2,901	193	-	96.7	5,750
May.....	23,363	1,440	152	754	46,340
June.....	41,438	1,960	840	1,381	82,190
July.....	31,089	2,190	480	1,002	61,620
August.....	8,458	459	179	273	16,780
September.....	4,759	205	137	159	9,440
Water year.....	-	-	-	-	-

* Winter discharge measurement made this day.

† Result of discharge measurement.

a No gage-height record; discharge computed on basis of weather records, recorded range in stage, and records for Big Lost River at Wildhorse, near Chilly, and Warm Springs Creek near Ketchum.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Big Lost River (east channel) above Mackay Reservoir, near Mackay, Idaho

Location.- Water-stage recorder and concrete control, lat. 43°59', long. 113°45', in sec. 32, T. 8 N., R. 23 E., above flow line of reservoir, 3 miles upstream from Mackay Dam and 7½ miles northwest of Mackay.

Records available.- May 1919 to September 1944.

Average discharge.- 25 years, 61.4 second-feet.

Extremes.- Maximum discharge during year, 1,290 second-feet July 1 (gage height, 5.02 feet); minimum, 4 second-feet May 2; minimum gage height, 1.25 feet Jan. 31 to Feb. 4.

1919-44: Maximum discharge, 1,320 second-feet June 7, 1938; no flow during long periods in 1920, 1923-38, 1940.

Remarks.- Records good except those for periods of backwater and those below 10 second-feet, which are fair. Diversions above station for irrigation. The sum of the combined discharge of east and west channels of Big Lost River and of the combined discharge of east and west channels of Warm Spring Creek, near Mackay, represents practically entire surface flow of Big Lost River which enters Mackay Reservoir.

Cooperation.- Water-stage recorder graph furnished by Water District No. 27.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	26	20	12	6	11	5	5	560	1,150	301	44
2	23	25	20	12	6	11	5	5	512	1,100	289	46
3	22	24	20	12	6	10	5	5	512	1,020	242	45
4	21	26	20	10	6	10	6	5	454	935	221	44
5	21	27	20	11	6	9	6	5	411	916	203	43
6	21	25	20	11	6	8	5	5	408	902	189	42
7	21	24	19	d10	6	8	5	5	437	854	177	40
8	20	23	20	d10	6	7	5	5	512	812	170	40
9	20	22	20	d9	7	6	5	5	592	770	165	38
10	21	22	20	9	7	6	5	5	26	549	728	36
11	22	22	19	9	7	6	6	87	515	660	143	36
12	22	22	19	8	7	6	8	144	525	640	133	35
13	22	22	19	8	7	6	6	194	551	610	122	34
14	23	21	18	8	7	6	6	293	614	565	115	34
15	23	21	17	8	6	6	5	418	638	561	111	34
16	23	21	16	8	7	6	5	498	647	532	108	34
17	23	21	16	7	7	6	6	522	654	520	102	35
18	24	21	15	7	7	6	6	522	669	500	97	34
19	25	21	14	7	7	6	5	444	714	472	87	35
20	27	21	14	7	7	6	6	369	755	516	82	35
21	27	21	14	7	6	6	6	329	615	504	77	35
22	25	20	14	6	6	6	5	310	563	468	73	34
23	24	20	14	6	6	6	5	280	552	456	68	35
24	24	20	13	6	6	6	5	250	539	412	64	31
25	23	20	13	6	6	6	5	233	527	377	60	30
26	22	20	13	6	6	5	5	218	1,040	359	59	29
27	22	20	13	6	7	5	5	236	1,150	351	56	28
28	25	20	13	6	9	5	5	271	1,060	344	50	28
29	27	20	12	6	10	5	5	335	962	311	47	29
30	26	20	12	6	-	5	5	444	966	298	46	29
31	27	-	12	6	-	5	-	568	-	320	44	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	719	27	20	23.2	1,430
November.....	658	27	20	21.9	1,310
December.....	509	20	12	16.4	1,010
Calendar year 1943	69,373	1,120	1	190	137,600
January.....	250	12	6	6.1	496
February.....	194	10	6	6.7	385
March.....	206	11	5	6.6	409
April.....	152	8	5	5.4	321
May.....	7,048	568	5	227	13,980
June.....	20,679	1,150	408	689	41,020
July.....	18,986	1,150	298	612	37,660
August.....	3,850	301	44	124	7,640
September.....	1,070	46	28	35.7	2,120
Water year 1943-44	54,329	1,150	5	148	107,800

d Doubtful gage-height record; discharge computed on basis of records for west channel of Big Lost River and Warm Spring Creek above Mackay Reservoir.

Note.- Stage-discharge relation affected by backwater from Mackay Reservoir Feb. 20 to May 11, June 9-27; discharge computed on basis of discharge measurement or (during latter period) on basis of percentage submergence of control and a standard submerged weir formula.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG LOST RIVER BASIN

Big Lost River (west channel) above Mackay Reservoir, near Mackay, Idaho

Location.— Water-stage recorder, lat. 43°58', long. 113°45', in sec. 5, T. 7 N., R. 23 E., above flow line of reservoir, 3 miles upstream from Mackay Dam and 7½ miles northwest of Mackay.

Records available.— May 1919 to September 1944.

Average discharge.— 25 years, 58.5 second-feet.

Extremes.— Maximum discharge during year, 435 second-feet June 27 (gage height, 4.04 feet); minimum recorded, 35 second-feet Apr. 15 (gage height, 1.99 feet).
1919-44: Maximum discharge, 1,200 second-feet (estimated) sometime during period June 5-16, 1921 (gage height, 4.45 feet, site and datum then in use); minimum, 9 second-feet May 22, 26, 1935.

Remarks.— Records good except those for periods of no gage-height record or backwater from Mackay Reservoir, which are fair. Diversions above station for irrigation. The sum of the combined discharge of east and west channels of Big Lost River and the combined discharge of east and west channels of Warm Spring Creek, near Mackay, represents practically the entire surface flow of Big Lost River which enters Mackay Reservoir (see following page).

Cooperation.— Water-stage recorder graph furnished by Water District No. 27.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	58	47	42	41	40	40	38	178	355	97	a56
2	52	56	47	42	41	40	39	38	170	a418	97	a57
3	52	56	46	42	41	40	39	38	a165	383	95	59
4	52	56	46	42	40	a40	39	38	137	321	92	59
5	54	58	47	42	40	40	39	38	128	292	a88	58
6	55	56	46	42	40	40	39	38	126	276	84	58
7	56	56	46	42	40	40	38	38	130	246	81	58
8	55	56	46	42	40	a40	38	38	178	a220	80	58
9	56	56	a46	42	41	a40	38	38	264	206	78	56
10	56	58	a46	42	41	a40	38	38	a248	196	75	55
11	56	56	a45	42	41	a40	38	40	236	180	74	54
12	56	56	45	43	41	40	40	43	214	172	a74	54
13	56	56	45	42	41	40	39	51	227	168	74	54
14	55	55	45	42	41	40	38	80	243	160	72	55
15	55	55	45	42	41	40	38	105	250	a156	70	55
16	a57	55	a43	42	40	40	38	139	258	154	70	55
17	58	55	a44	42	40	40	38	158	a280	150	69	55
18	58	56	a45	42	40	40	38	168	241	144	66	55
19	58	56	45	42	40	40	a38	144	231	139	a64	55
20	58	55	43	41	40	40	a38	124	239	146	62	55
21	58	55	43	41	40	40	a38	105	264	152	61	56
22	58	55	43	41	39	40	a38	97	290	a141	59	56
23	58	54	45	41	39	38	38	94	279	130	58	55
24	58	54	45	41	39	38	38	87	a270	122	59	55
25	58	52	45	41	39	38	a38	84	295	114	58	55
26	58	47	45	41	40	38	a38	80	352	114	a58	55
27	58	47	45	a41	40	38	a38	78	428	110	58	55
28	61	47	45	a48	40	38	a38	90	385	107	56	55
29	62	47	43	42	40	39	a38	103	323	100	56	55
30	62	47	43	42	-	39	38	130	314	98	55	55
31	61	-	42	42	-	40	-	168	-	97	a55	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,751	62	52	56.8	3,490
November.....	1,826	58	47	54.2	3,230
December.....	1,588	47	42	44.8	2,750
Calendar year 1943.....	32,148	374	34	88.1	63,760
January.....	1,295	43	41	41.8	2,570
February.....	1,156	41	38	40.2	2,310
March.....	1,226	40	38	39.5	2,450
April.....	1,150	40	38	38.3	2,280
May.....	2,546	168	38	82.1	5,050
June.....	7,320	425	126	244	14,520
July.....	5,776	418	97	186	11,480
August.....	2,193	97	55	70.7	4,350
September.....	1,673	59	54	55.8	3,320
Water year 1943-44.....	29,120	428	38	79.6	57,760

a No gage-height record; discharge interpolated or computed on basis of records for Big Lost River (east channel) and Warm Spring Creek (east and west channels).

Note.— Stage-discharge relation affected by backwater from Mackay Reservoir June 9-26; discharge computed on basis of reservoir heights and discharge measurement of June 20.

BIG LOST RIVER BASIN

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Combined discharge, in second-feet, of Big Lost River (east and west channels) and Warm Spring Creek (east and west channels) above Mackay Reservoir, near Mackay, Idaho, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	187	216	187	169	158	164	157	144	932	1,860	557	206
2	185	211	186	169	158	162	157	146	875	1,900	551	214
3	184	209	186	169	160	161	158	144	817	1,750	507	222
4	185	211	188	165	159	162	159	144	762	1,570	472	223
5	185	219	187	166	157	162	155	143	698	1,500	445	221
6	190	213	185	166	156	160	153	133	691	1,460	420	220
7	186	207	184	162	159	160	152	128	728	1,360	403	216
8	184	206	186	162	160	160	152	127	925	1,280	391	209
9	187	207	184	161	159	158	152	125	1,160	1,210	373	204
10	189	209	184	164	159	156	152	144	1,070	1,156	354	198
11	193	207	182	164	159	156	153	207	1,010	1,050	343	196
12	192	205	181	166	159	156	159	269	992	1,020	335	199
13	192	208	181	169	160	157	154	353	1,040	965	325	198
14	190	206	178	169	159	157	159	475	1,130	942	314	199
15	190	206	177	166	156	159	151	644	1,170	907	306	199
16	194	204	174	165	158	157	149	770	1,200	871	302	200
17	192	205	175	164	158	159	150	837	1,200	853	292	205
18	193	206	176	164	156	159	149	853	1,190	826	282	207
19	197	207	176	162	160	159	148	784	1,220	792	267	210
20	199	206	175	161	150	159	150	625	1,280	669	259	210
21	207	203	175	159	159	159	149	556	1,380	857	253	209
22	203	201	174	160	159	159	146	530	1,460	800	246	207
23	206	200	176	160	155	158	145	503	1,430	773	236	205
24	213	198	175	161	157	157	146	462	1,400	714	232	204
25	213	195	174	158	157	157	146	428	1,530	668	223	204
26	211	189	172	159	159	156	144	408	1,730	651	222	205
27	210	187	173	158	160	154	144	424	1,980	638	221	202
28	223	186	172	159	160	156	144	475	1,800	626	211	202
29	227	186	169	159	163	156	144	562	1,590	577	207	204
30	223	186	169	159	-	157	144	719	1,600	560	205	204
31	221	-	168	157	-	159	-	916	-	581	204	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	6,151	227	183	198	12,200
November.....	6,099	219	186	203	12,100
December.....	5,528	188	168	178	10,960
Calendar year 1943	152,295	1,940	135	417	302,100
January.....	5,050	169	157	163	10,020
February.....	4,602	163	155	159	9,130
March.....	4,911	164	154	158	9,740
April.....	4,515	159	144	150	8,960
May.....	13,108	916	125	423	26,000
June.....	36,010	1,980	691	1,200	71,420
July.....	31,568	1,900	560	1,010	62,650
August.....	9,958	657	204	321	19,750
September.....	6,200	223	196	207	12,300
Water year 1943-44	133,720	1,960	125	365	265,200

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG LOST RIVER BASIN

Mackay Reservoir near Mackay, Idaho

Location.- Staff gage on head-gate tower of dam on Big Lost River, lat. 43°57', long. 113°40', in sec. 12, T. 7 N., R. 23 E., 4 miles northwest of Mackay. Datum of gage is 6,000 feet above mean sea level.

Records available.- January 1919 to September 1944.

Extremes.- Maximum contents observed during year, 41,140 acre-feet June 11 (gage height, 64.10 feet); minimum observed, 16,860 acre-feet Sept. 17 (gage height, 41.39 feet). 1919-44: Maximum contents observed, 41,270 acre-feet May 30, 1938 (gage height, 64.20 feet); no available contents during periods in 1919, 1920, 1924, 1926, 1929, 1931-35; minimum gage height observed, 6.3 feet Aug. 5, 1934.

Remarks.- Reservoir is formed by earth- and rock-fill dam, which was reconstructed 1917-18; storage impounded by original dam not recorded. Capacity, 38,400 acre-feet between gage heights 7.0 feet (bottom of outlet tunnel) and 62.0 feet (crest of spillway). Dead storage reported to be about 125 acre-feet. Water is used for irrigation of lands in Big Lost River irrigation district. Considerable seepage around dam because of its porous foundation, but the greater part of this water returns to Big Lost River between reservoir and station below reservoir, near Mackay. Figures given herein represent usable contents, computed for 12 p.m. on basis of once-daily readings of staff gage.

Cooperation.- Gage-height record and capacity table furnished by Water District No. 27.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25,880	30,850	35,990	35,400	36,370	38,580	38,380	38,390	39,500	39,880	37,850	20,300
2	25,900	31,090	36,110	35,400	36,430	38,560	38,380	38,370	39,500	40,010	37,730	19,870
3	25,910	31,300	36,280	35,400	36,520	38,530	38,380	38,370	39,340	39,840	37,670	19,460
4	25,920	31,490	36,460	35,400	36,610	38,530	38,380	38,370	39,110	39,270	37,520	19,150
5	25,920	31,720	36,580	35,410	36,710	38,530	38,380	38,370	38,930	39,000	37,340	18,840
6	25,950	31,960	36,670	35,400	36,810	38,510	38,380	38,230	38,910	38,850	37,030	18,650
7	25,050	32,150	36,780	35,400	36,890	38,480	38,380	38,150	39,090	38,340	36,730	18,360
8	25,260	32,390	36,880	35,400	36,970	38,470	38,380	38,150	39,950	37,910	36,470	18,060
9	26,440	32,480	36,940	35,400	37,090	38,460	38,380	38,140	40,790	37,490	36,110	17,820
10	26,670	32,700	37,000	35,390	37,180	38,440	38,380	38,130	41,080	37,030	35,470	17,600
11	26,910	32,890	37,040	35,390	37,240	38,430	38,390	38,230	41,060	36,720	34,950	17,420
12	27,030	33,020	37,040	35,390	37,350	38,430	38,390	38,380	40,830	36,730	34,420	17,270
13	27,130	33,180	37,040	35,390	37,420	38,420	38,400	38,490	40,740	36,850	33,860	17,130
14	27,270	33,390	36,970	35,380	37,490	38,400	38,400	38,790	40,910	37,240	33,140	16,970
15	27,470	33,560	36,840	35,360	37,570	38,400	38,400	39,100	41,000	37,560	32,400	16,690
16	27,590	33,700	36,710	35,380	37,650	38,400	38,390	39,370	41,000	37,780	31,780	16,860
17	27,730	33,890	36,420	35,420	37,680	38,390	38,400	39,490	40,840	37,820	31,020	16,370
18	27,940	34,090	36,310	35,470	37,750	38,380	38,400	39,470	40,750	37,810	30,240	17,140
19	28,140	34,270	36,300	35,520	37,850	38,380	38,400	39,360	40,650	37,870	29,730	17,320
20	28,360	34,420	36,160	35,620	37,920	38,380	38,400	39,240	40,590	37,940	28,960	17,480
21	28,590	34,600	36,040	35,680	37,990	38,380	38,400	39,060	40,660	37,960	28,150	17,660
22	28,820	34,790	35,950	35,740	38,060	38,380	38,400	38,890	40,590	37,940	27,600	17,930
23	28,970	34,910	35,900	35,830	38,130	38,380	38,400	38,690	40,460	37,910	26,980	18,200
24	29,120	35,080	35,830	35,900	38,190	38,380	38,400	38,470	40,450	37,730	25,300	18,560
25	29,300	35,240	35,820	35,950	38,240	38,380	38,400	38,240	40,420	37,490	24,860	18,830
26	29,520	35,380	35,730	36,010	38,320	38,390	38,400	38,380	40,450	37,410	24,360	19,020
27	29,720	35,550	35,580	36,070	38,390	38,390	38,400	38,600	40,440	37,560	23,590	19,330
28	30,010	35,660	35,460	36,130	38,460	38,380	38,400	38,750	40,270	37,810	22,790	19,660
29	30,280	35,800	35,360	36,190	38,550	38,380	38,400	39,060	39,850	37,910	22,130	19,940
30	30,460	35,900	35,350	36,230	-	38,380	38,400	39,360	39,680	37,910	21,610	20,200
31	30,640	-	35,380	36,310	-	38,380	-	39,470	-	37,940	20,880	-

a No gage-height record; contents interpolated.

Monthly gage height and contents, water year October 1943 to September 1944

Date	Gage height (feet)	Contents (acre feet)	Change in contents during month (acre-feet)
Sept. 30.....	51.15	25,940	-
Oct. 31.....	51.65	30,840	+4,900
Nov. 30.....	60.00	35,900	+5,060
Dec. 31.....	59.57	35,380	-520
Calendar year 1943.	-	-	+4,400
Jan. 31.....	60.55	36,310	+950
Feb. 29.....	62.11	38,580	+2,270
Mar. 31.....	61.06	38,390	-170
Apr. 30.....	62.00	38,400	+20
May 31.....	62.83	39,470	+1,070
June 30.....	62.99	39,680	+210
July 31.....	61.65	37,940	-1,740
Aug. 31.....	46.04	20,880	-17,060
Sept. 30.....	45.29	20,200	-680
Water year 1943-44.	-	-	-5,640

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Big Lost River below Mackay Reservoir, near Mackay, Idaho

Location.— Water-stage recorder, lat. 43°56', long. 113°38', in sec. 18, T. 7 N., R. 24 E., 450 feet downstream from Oleson Suspension Bridge, 1 mile downstream from head of Sharp ditch, 1½ miles downstream from Mackay Reservoir, and 2½ miles northwest of Mackay.

Records available.— December 1903 to August 1906, May 1912 to March 1915 (April 1913 to March 1915 at Site 1 mile downstream), January 1919 to September 1944.

Average discharge.— 28 years (1904-5, 1912-14, 1919-44), 268 second-feet.

Extremes.— Maximum discharge during year, 1,960 second-feet July 3 (gage height, 4.99 feet); minimum, 82 second-feet (regulated) Sept. 25 (gage height, 1.68 feet).
1903-6, 1912-15, 1919-44: Maximum discharge, 2,990 second-feet June 10, 1921 (gage height, 5.79 feet); minimum, 18 second-feet (regulated) Nov. 1, 1934; minimum gage height, 1.23 feet Nov. 5-8, 1926.

Remarks.— Records excellent. Sharp ditch is only diversion between station and reservoir; many diversions above reservoir. Flow regulated by Mackay Reservoir (see p. 72).

Cooperation.— Water-stage recorder inspected by Water District No. 27.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	194	130	142	197	152	159	172	169	925	1,740	530	540
2	194	133	139	197	142	201	172	162	925	1,880	535	500
3	194	133	139	197	142	204	172	162	895	1,960	535	456
4	194	133	142	197	142	204	176	159	855	1,850	530	442
5	194	133	142	197	142	204	176	159	775	1,740	530	422
6	197	130	142	197	142	197	176	156	685	1,620	530	403
7	176	130	139	197	146	190	172	149	658	1,560	530	361
8	121	130	139	197	146	186	172	142	602	1,420	525	361
9	121	130	139	197	146	186	172	142	745	1,380	525	356
10	121	130	176	197	146	183	172	139	958	1,350	550	356
11	121	133	243	197	146	183	172	142	1,120	1,180	608	342
12	121	133	243	197	146	183	179	208	1,180	1,060	614	302
13	124	133	243	201	146	183	179	251	1,150	865	652	298
14	124	133	243	201	146	179	176	365	1,150	775	646	298
15	124	133	243	201	146	179	172	456	1,220	745	641	293
16	124	133	239	183	146	176	172	602	1,350	745	641	247
17	124	136	239	159	146	176	176	645	1,390	745	636	212
18	127	136	239	159	149	176	176	905	1,350	745	630	156
19	127	136	239	159	149	176	172	305	1,320	745	619	156
20	124	136	239	162	149	176	172	745	1,280	745	614	156
21	127	136	239	162	149	176	176	660	1,380	745	614	139
22	127	136	239	162	149	172	172	624	1,480	745	641	115
23	124	136	239	162	149	172	169	575	1,560	745	674	115
24	121	139	239	162	149	176	169	540	1,480	745	663	106
25	121	139	239	162	149	176	169	496	1,560	715	641	82
26	121	139	235	162	152	176	169	342	1,740	630	636	85
27	124	139	235	162	152	176	165	351	1,850	614	624	85
28	127	142	235	162	152	172	165	374	1,810	540	602	85
29	130	142	235	162	152	172	165	422	1,770	530	570	87
30	130	142	228	159	-	172	165	565	1,660	530	560	87
31	130	-	197	159	-	172	-	805	-	530	555	-
Month					Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet			
October.....					4,328	197	121	140	8,580			
November.....					4,044	142	130	135	8,020			
December.....					6,409	243	139	207	12,710			
Calendar year 1943					156,817	1,920	121	430	311,000			
January.....					5,565	201	159	180	11,040			
February.....					4,268	152	142	147	8,470			
March.....					5,613	204	159	181	11,130			
April.....					5,162	179	165	172	10,240			
May.....					12,437	805	139	401	24,670			
June.....					36,793	1,850	602	1,225	72,960			
July.....					31,919	1,960	530	1,030	63,310			
August.....					18,401	874	525	594	36,500			
September.....					7,643	540	82	255	15,160			
Water year 1943-44					142,582	1,960	82	390	282,500			

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG LOST RIVER BASIN

Warm Spring Creek (east channel) near Mackay, Idaho

Location.- Water-stage recorder, lat. 43°58', long. 113°45', in NE $\frac{1}{4}$ sec. 5, T. 7 N., R. 23 E., 700 feet upstream from confluence with west channel and $\frac{7}{8}$ miles northwest of Mackay.

Records available.- May 1919 to September 1944.

Average discharge.- 25 years, 28.3 second-feet.

Extremes.- Maximum discharge during year, 158 second-feet June 27 (gage height, 3.19 feet); minimum, 14 second-feet May 9-11 (gage height, 1.51 feet).
1919-44: Maximum discharge observed, 225 second-feet June 15, 1922 (gage height, 3.24 feet, site and datum then in use); minimum, 9 second-feet May 8, 9, 13, 14, 1919, May 18-21, 1920.

Remarks.- Records good. Practically all natural flow above station diverted during irrigation season. Discharge during summer represents return water from irrigation. The sum of the combined discharge of east and west channels of Warm Spring Creek and the combined discharge of east and west channels of Big Lost River, near Mackay, represents practically the entire surface flow of Big Lost River which enters Mackay Reservoir.

Cooperation.- Water-stage recorder graph furnished by Water District No. 27.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	28	23	20	19	19	18	17	63	125	43	27
2	22	27	22	20	19	19	18	17	62	145	46	28
3	22	26	23	20	19	19	18	17	61	129	47	30
4	22	26	23	19	19	19	18	17	54	109	43	30
5	22	28	23	19	19	18	18	17	49	105	41	30
6	23	27	23	19	19	18	18	16	48	98	38	30
7	23	26	22	18	19	18	18	15	49	89	37	30
8	23	26	22	18	19	18	18	15	73	84	36	28
9	23	26	22	18	19	18	18	15	95	77	34	28
10	24	26	22	19	19	18	18	14	83	74	32	27
11	24	26	22	19	19	18	18	14	81	69	31	28
12	24	26	22	19	19	18	19	16	78	65	32	27
13	24	26	22	20	20	19	18	18	81	64	32	27
14	24	26	22	21	19	19	18	24	85	62	31	28
15	24	26	22	21	19	19	18	33	91	59	30	28
16	a24	25	21	20	19	19	18	43	94	57	30	28
17	23	25	21	20	19	19	18	48	93	56	30	28
18	23	25	21	20	18	19	18	50	92	56	29	30
19	24	26	21	19	18	19	18	43	93	55	28	30
20	24	26	22	19	18	19	18	37	95	60	28	30
21	26	26	22	19	18	19	18	34	102	61	28	30
22	26	28	21	19	19	19	17	32	108	56	28	29
23	26	28	21	19	18	19	17	31	104	56	27	29
24	27	24	21	19	18	17	29	29	96	53	27	28
25	28	24	21	19	18	18	17	28	107	51	26	28
26	27	23	20	19	19	18	17	28	124	50	26	28
27	27	23	21	19	19	17	17	28	150	49	27	28
28	29	22	20	19	19	18	17	30	129	48	26	28
29	30	22	20	19	19	18	17	34	106	46	26	29
30	30	22	20	19	-	18	17	42	106	45	26	29
31	28	-	20	18	-	19	-	37	-	45	26	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	767	30	22	24.7	1,590
November.....	759	28	22	25.3	1,610
December.....	868	23	20	21.6	1,520
Calendar year 1943	12,268	127	18	33.6	24,330
January.....	596	21	18	19.2	1,180
February.....	545	20	18	18.8	1,080
March.....	572	19	17	18.5	1,130
April.....	554	19	17	17.8	1,080
May.....	859	27	14	27.7	1,700
June.....	2,654	150	48	38.5	5,280
July.....	2,195	145	45	70.8	4,360
August.....	991	47	26	32.0	1,970
September.....	557	30	26	28.6	1,700
Water year 1943-44	11,995	180	14	32.8	23,790

a No gage-height record; discharge interpolated.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Warm Spring Creek (west channel) near Mackay, Idaho

Location.— Water-stage recorder, lat. 43°58', long. 113°45', in NE¼ sec. 5, T. 7 N., R. 23 E., 500 feet upstream from confluence with east channel and 7½ miles northwest of Mackay.

Records available.— May 1919 to September 1944.

Average discharge.— 25 years, 92.0 second-feet.

Extremes.— Maximum discharge during year, 261 second-feet June 27 (gage height, 2.98 feet); minimum, 63 second-feet May 11 (gage height, 1.29 feet).
1919-44: Maximum discharge, 600 second-feet (estimated) Aug. 11, 1936 (gage height, 4.42 feet, datum then in use, from high-water mark); minimum, 49 second-feet Apr. 27, 1935 (gage height, 0.62 foot, datum then in use).

Remarks.— Records good. Flow during summer represents return flow from irrigation. The sum of the combined discharge of east and west channels of Warm Spring Creek and the combined discharge of east and west channels of Big Lost River, near Mackay, represents practically the entire surface flow of Big Lost River which enters Mackay Reservoir.

Cooperation.— Water-stage recorder graph furnished by Water District No. 27.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	88	104	97	a95	92	94	94	84	131	222	116	79
2	88	103	97	h95	92	92	95	86	131	238	119	85
3	88	103	97	a95	94	92	95	84	128	220	123	88
4	88	103	99	a94	94	94	95	84	117	199	116	90
5	88	106	97	a94	92	95	92	85	110	195	113	90
6	91	105	96	a94	91	94	91	74	109	185	109	90
7	86	101	97	a92	94	94	91	70	112	171	108	88
8	86	101	97	a92	95	95	91	69	162	164	105	83
9	88	103	96	h92	92	94	91	67	208	165	100	82
10	88	103	96	a94	92	92	91	66	187	151	96	80
11	91	103	a96	a94	92	92	91	66	184	145	95	80
12	90	101	95	a95	92	92	92	66	175	142	96	83
13	90	104	95	a93	92	92	91	70	180	141	97	83
14	88	104	95	a98	92	92	90	78	186	135	96	82
15	88	104	95	h95	92	94	90	88	194	131	96	82
16	90	103	94	95	92	92	88	100	196	128	94	83
17	88	104	94	95	92	94	88	109	195	127	91	86
18	88	104	a95	95	91	94	87	113	187	126	90	88
19	90	104	95	94	95	94	87	103	180	126	88	90
20	90	104	95	94	95	94	85	95	185	137	87	90
21	96	101	96	92	95	94	87	90	195	140	87	86
22	95	101	96	94	95	94	86	91	212	135	96	88
23	100	101	96	94	92	95	86	88	196	131	83	88
24	104	100	96	95	94	95	86	86	189	127	82	90
25	104	99	a95	92	94	95	86	83	198	126	79	91
26	104	99	94	92	94	95	84	82	217	128	79	91
27	103	97	94	92	94	94	84	82	250	128	80	91
28	108	97	a94	92	92	95	84	84	224	127	79	91
29	108	97	a94	92	94	94	84	90	195	120	78	91
30	105	97	a94	92	-	95	84	103	194	119	78	91
31	105	-	a94	91	-	95	-	123	-	119	79	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	2,904	108	86	95.7	5,760
November.....	3,056	108	97	102	6,060
December.....	2,955	99	94	95.6	5,880
Calendar year 1943.....	38,504	222	78	105	76,580
January.....	2,909	98	91	93.8	5,770
February.....	2,897	95	91	93.0	5,350
March.....	2,907	95	92	93.8	5,770
April.....	2,689	95	84	89.0	5,290
May.....	2,657	123	66	85.7	5,270
June.....	5,331	250	109	178	10,580
July.....	4,656	235	119	150	8,800
August.....	2,924	123	79	94.3	5,800
September.....	2,600	91	79	86.7	5,150
Water year 1943-44.....	38,253	250	68	106	75,890

a No gage-height records; discharge interpolated or computed on basis of records for east channel of Warm Springs Creek and east and west channels of Big Lost River above Mackay Reservoir.
h Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG LOST RIVER BASIN

Sharp ditch near Mackay, Idaho

Location.- Water-stage recorder and sharp-crested weir, lat. 43°57', long. 113°39', in sec. 7, T. 7 N., R. 24 E., 1,600 feet downstream from head of ditch, three-quarters of a mile downstream from Mackay Reservoir, and 3½ miles northwest of Mackay.

Records available.- April 1939 to September 1944. June 1912 to October 1914, March 1919 to April 1939 at site 1,400 upstream, above Hintze ditch.

Extremes.- Maximum discharge during year, 35 second-feet May 31, June 1 (gage height, 1.14 feet); minimum observed, 0.2 second-foot Jan. 17 (field estimate).

1912-14, 1919-44: Maximum discharge observed, 42 second-feet June 23, 1921 (former site); no flow at times.

Remarks.- Records good except those for Jan. 6 to May 6, which are poor. Sharp ditch diverts from east side of Big Lost River in SE¼ sec. 12, T. 7 N., R. 23 E., half a mile below Mackay Reservoir and 1 mile above station on Big Lost River below Mackay Reservoir, near Mackay. Water used for irrigation northwest of Mackay and above Streeter ditch. Hintze ditch diverts from Sharp ditch above station and, according to watermaster, carried 606 acre-feet during year (153 in October, 68 in November, 18 in June, 122 in July, 154 in August, and 91 in September).

Cooperation.- Water-stage recorder graph and one discharge measurement furnished by Water District No. 27.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	6.3	3.0	1.5					34	14	26	19
2	14	6.3	3.2	1.5					34	14	26	18
3	14	6.0	2.2	a1.5				a0.5	34	25	27	16
4	14	5.8	2.2	a1.5					34	31	27	14
5	14	5.6	2.3	a1.5					35	31	27	14
6	13	5.6	2.3	a1.0				a5.0	33	30	27	13
7	13	5.6	2.3					10	33	30	27	12
8	11	5.8	2.3					10	34	29	26	12
9	11	5.6	2.3					10	32	30	26	11
10	13	5.6	2.3					10	32	29	26	11
11	12	5.6	2.3	a.2	a0.3			10	34	27	27	11
12	12	5.6	2.2					11	34	26	27	11
13	12	5.4	2.0					12	32	25	27	12
14	12	5.4	2.0					12	28	28	27	10
15	12	5.4	2.0			a0.4	a0.4	12	26	33	26	10
16	12	5.4	2.0					12	24	33	26	9.7
17	12	5.4	1.9	†.2				12	16	32	26	9.4
18	12	5.3	1.8					13	16	31	25	7.5
19	12	5.2	1.8					13	16	31	25	7.2
20	11	5.0	1.8					13	16	30	24	7.2
21	11	6.0	1.8					13	16	30	23	7.5
22	11	7.0	1.8					13	14	30	23	7.0
23	10	7.0	1.8					13	14	30	23	7.0
24	10	6.8	1.8	a.2	†.3			15	14	30	23	5.8
25	10	6.8	1.8					23	15	29	22	5.8
26	10	6.8	1.8					24	15	27	22	5.5
27	11	5.4	1.8					25	15	27	21	5.8
28	10	2.6	1.8		a.3			27	15	26	20	6.5
29	9.5	2.8	1.8					29	14	25	19	6.7
30	6.7	3.0	1.8					30	14	25	19	7.0
31	6.3	-	1.6			†.4	-	35	-	25	19	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	387.5	14	6.3	11.5	709
November.....	166.3	7.0	2.8	5.54	330
December.....	65.8	3.2	1.6	2.06	127
Calendar year 1943	4,048.4	34	-	11.1	8,030
January.....	13.5	1.5	-	.44	27
February.....	6.7	-	-	.30	17
March.....	12.4	-	-	.40	25
April.....	12.0	-	-	.40	24
May.....	408.5	35	-	13.2	810
June.....	711	34	14	24.0	1,430
July.....	861	35	14	27.8	1,710
August.....	769	27	19	24.5	1,510
September.....	298.6	19	5.5	9.95	592
Water year 1943-44	3,682.3	34	-	10.1	7,310

† Field estimate.

a No gage-height record; discharge computed on basis of field estimates of Jan. 17, Feb. 25, Mar. 31, and data furnished by watermaster.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

PORTNEUF RIVER BASIN

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Portneuf River at Topaz, Idaho

Location.-- Staff gage, lat. 42°39', long. 112°06', in sec. 23, T. 9 S., R. 37 E., at Oregon Short Line Railroad bridge, a quarter of a mile west of Topaz, 1½ miles upstream from diversion dam of Portneuf-Marsh Valley Canal Co., and 6 miles south-east of McCammon.

Records available.-- January 1913 to September 1915, July 1919 to September 1944.

Average discharge.-- 25 years (1913-14, 1919-22, 1923-44), 189 second-feet.

Extremes.-- Maximum discharge observed during year, 372 second-feet June 10 (gage height, 2.48 feet); minimum observed, 116 second-feet Sept. 29; minimum gage height observed, 1.10 feet Jan. 28, 29.

1913-15, 1919-44: Maximum discharge observed, 902 second-feet Apr. 3, 1913 (gage height, 6.1 feet, site and datum then in use); minimum observed, 65 second-feet Oct. 9, 1934 (gage height, 0.81 foot).

Remarks.-- Records good. Gage read once daily. Flow regulated by Portneuf-Marsh Valley Canal Co.'s reservoir near Chesterfield. Many ranch diversions above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	137	149	161	143	133	143	246	208	214	199	205	185
2	133	149	159	141	133	147	313	203	222	226	212	189
3	133	149	161	141	133	151	316	207	237	224	210	189
4	135	161	161	141	133	149	310	203	233	224	210	193
5	137	173	161	141	137	143	262	205	229	218	199	193
6	141	161	157	141	141	137	244	210	226	218	199	193
7	137	157	163	143	145	137	237	218	251	212	203	189
8	141	157	163	137	145	139	214	214	258	216	203	185
9	137	153	149	137	145	159	214	203	275	218	203	185
10	137	153	149	137	145	167	207	222	372	218	203	193
11	139	151	145	137	141	171	195	233	360	222	203	179
12	149	149	141	137	141	191	181	244	344	220	197	177
13	141	149	141	137	135	167	191	244	337	220	197	175
14	151	149	139	137	137	159	195	241	318	216	199	169
15	151	149	141	137	137	145	187	241	293	212	197	153
16	145	153	141	141	137	145	187	241	272	216	196	130
17	143	153	141	139	137	153	187	241	248	218	197	128
18	143	151	139	137	137	159	191	251	237	218	197	131
19	143	153	141	137	137	163	191	237	226	218	197	124
20	157	155	137	135	137	174	187	222	212	214	195	124
21	155	153	141	133	135	185	187	218	207	214	195	122
22	157	155	141	135	137	193	183	214	201	214	195	120
23	153	167	141	139	135	189	183	214	203	212	195	120
24	149	155	137	137	135	183	183	214	197	210	195	120
25	149	155	137	133	137	179	183	195	187	205	193	120
26	149	159	137	133	137	175	191	197	199	199	193	120
27	145	161	137	135	137	155	199	187	210	212	185	120
28	151	159	141	131	137	155	210	191	205	210	181	124
29	153	161	141	130	141	155	214	187	201	205	187	116
30	153	161	141	135	-	169	214	183	199	201	189	120
31	151	-	141	135	-	195	-	203	-	197	189	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	4,493	157	133	145	8,910
November.....	4,650	173	149	155	9,220
December.....	4,505	161	137	145	8,940
Calendar year 1943.....	79,033	489	130	217	156,800
January.....	4,252	143	130	137	8,430
February.....	3,997	145	133	138	7,930
March.....	5,032	195	137	162	9,980
April.....	6,412	316	183	214	12,720
May.....	6,881	251	183	216	13,260
June.....	7,375	372	187	248	14,620
July.....	6,526	226	197	214	13,140
August.....	6,120	212	181	197	12,140
September.....	4,686	193	116	153	9,100
Water year 1943-44.....	64,727	372	116	177	128,400

a No gage-height record; discharge interpolated.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Portneuf River at Pocatello, Idaho

Location.- Water-stage recorder, lat. 42°52', long. 112°28', in sec. 27, T. 6 S., R. 34 E., at highway bridge at foot of Carson Street, in west end of Pocatello.

Records available.- August 1911 to September 1944. May 1897 to October 1899 at site 1 mile upstream.

Average discharge.- 31 years (1912-16, 1917-44), 248 second-feet.

Extremes.- Maximum discharge during year, 638 second-feet June 13 (gage height, 5.92 feet); minimum, 17 second-feet July 17, 29, 30 (gage height, 1.97 feet).
1897-99, 1911-44: Maximum discharge, more than 2,000 second-feet sometime during period May 13 to June 14, 1917; minimum, 5 second-feet July 31, 1942, from rating curve extended below 40 second-feet.

Remarks.- Records good except those for period of ice effect, which are fair. Many diversions above station for irrigation. Flow regulated by storage reservoir near Chesterfield.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	145	252	304	304	260	313	418	478	129	168	23	65
2	146	260	313	295	270	360	448	458	145	157	25	66
3	150	260	313	304	275	378	458	438	197	138	31	65
4	148	277	313	295	277	388	510	418	243	129	46	54
5	148	304	313	268	286	378	520	428	252	116	52	56
6	140	313	313	280	286	378	478	438	243	105	41	58
7	136	304	313	280	304	350	458	458	285	101	40	62
8	139	295	313	250	313	340	438	458	318	96	38	67
9	138	295	304	280	340	340	458	458	458	92	42	71
10	138	295	286	300	350	360	438	448	562	74	49	72
11	142	295	*277	310	322	406	428	448	616	80	46	71
12	150	295	295	320	304	438	428	448	616	75	42	73
13	156	295	304	320	295	448	428	448	638	39	47	75
14	162	295	286	330	295	398	418	438	616	40	46	74
15	168	286	286	340	295	340	408	418	584	26	46	65
16	166	286	277	350	295	331	398	398	542	25	46	*72
17	163	286	277	350	*286	340	378	378	500	20	53	*79
18	160	286	268	340	286	360	369	369	458	21	49	86
19	170	286	277	330	277	388	360	350	418	21	47	89
20	192	286	277	320	277	418	360	304	360	24	60	87
21	210	295	295	310	266	418	360	262	322	22	51	84
22	226	295	304	320	286	369	378	234	295	21	57	83
23	234	304	304	320	286	360	378	210	277	22	60	83
24	234	304	295	*326	295	360	369	180	243	25	65	82
25	234	304	304	320	295	360	388	162	218	20	66	83
26	234	304	304	300	295	350	408	148	205	20	66	83
27	234	304	295	290	295	331	408	120	226	20	65	85
28	245	313	277	290	286	313	398	86	207	19	64	83
29	243	313	243	270	295	322	428	60	197	20	63	84
30	243	313	295	250	-	340	468	60	176	20	65	86
31	243	-	304	250	-	378	-	65	-	20	62	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	5,635	243	136	182	11,180
November.....	8,800	313	252	293	17,450
December.....	9,129	313	243	294	18,110
Calendar year 1943	112,490	874	67	308	223,100
January.....	9,392	350	250	305	18,630
February.....	8,512	350	260	294	16,880
March.....	11,345	448	313	366	22,500
April.....	12,542	520	360	418	24,880
May.....	10,064	478	60	325	19,960
June.....	10,552	638	129	352	20,930
July.....	1,774	168	19	57.2	3,680
August.....	1,842	86	23	49.7	3,680
September.....	2,243	89	54	74.8	4,460
Water year 1943-44	91,530	638	19	260	181,600

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated.

Note.- Stage-discharge relation affected by ice Jan. 6 to Feb. 3.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Birch Creek near Downey, Idaho

Location.— Staff gage and wooden control, lat. 42°21', long. 112°15', in SE¼ sec. 28, T. 12 S., R. 36 E., just downstream from point where flow that is diverted through Malad power plant re-enters stream, 8.6 miles southwest of Downey and 10 miles upstream from confluence with Marsh Creek.

Records available.— September 1937 to September 1944. October 1911 to August 1914 at site 1½ miles upstream.

Extremes.— Maximum discharge observed during year, 16 second-feet June 13-15 (gage height, 1.08 feet); minimum observed, 7.7 second-feet Sept. 29, 30.

1911-14, 1937-44: Maximum discharge observed, 95 second-feet July 15, 1938, by velocity-area method on basis of floodmark at measuring section; minimum observed, 3.4 second-feet Dec. 24-27, 1913.

Remarks.— Records good. Gage read twice daily. Malad power plant, which has a small reservoir above station, may cause slight diurnal fluctuations. Water is diverted from Birch Creek half a mile below station and carried by transmountain canal to Devil Creek in Bear River Basin.

Cooperation.— Gage readings furnished by Western States Utility Co. Oct. 1 to July 31, and by California-Pacific Utilities Co. Aug. 1 to Sept. 30 in connection with a Federal Power Commission project.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.9	8.2	8.8	8.8	8.4	8.4	8.4	11	11	12	9.7	8.6
2	7.9	8.4	8.6	8.8	8.4	8.4	8.4	11	11	12	9.7	8.6
3	7.9	8.6	8.6	8.8	8.4	8.2	9.3	11	12	11	9.7	8.6
4	7.9	8.6	9.0	8.8	8.4	8.4	9.3	11	11	11	9.7	8.6
5	7.9	8.6	9.0	8.8	8.4	8.2	9.0	12	11	11	99.5	8.6
6	7.9	7.9	9.0	8.6	8.4	8.4	9.0	12	11	11	99.3	8.6
7	7.9	8.4	9.3	8.6	8.4	8.4	8.8	12	11	11	9.3	8.6
8	7.9	8.4	9.0	8.6	8.4	8.4	8.8	12	11	11	9.3	8.6
9	7.9	8.4	8.8	8.6	8.4	8.2	8.8	12	13	11	9.3	8.8
10	7.9	8.4	9.0	8.6	8.4	8.4	8.6	12	13	11	9.3	8.6
11	9.3	8.4	9.0	8.6	8.4	8.4	8.8	12	13	11	8.8	8.6
12	8.2	8.6	9.0	8.8	8.4	8.4	9.3	12	13	11	9.3	8.6
13	8.2	8.6	9.0	8.6	8.2	7.9	8.8	12	15	10	9.0	8.6
14	8.2	8.6	8.8	8.8	8.4	8.2	8.8	12	16	10	9.0	8.6
15	8.2	8.6	9.0	8.6	8.4	8.2	8.8	12	16	10	9.0	8.6
16	8.2	8.6	9.0	8.4	8.4	7.9	8.8	12	15	10	9.0	8.6
17	8.2	8.6	9.0	8.4	8.4	7.9	8.8	12	15	10	9.0	8.8
18	8.2	8.6	9.0	8.4	8.4	7.9	8.6	12	14	10	9.0	8.6
19	8.4	8.6	9.0	8.4	8.4	7.9	8.6	12	14	10	9.0	8.6
20	8.2	9.0	9.0	8.4	8.4	7.9	8.6	12	14	10	9.0	8.6
21	8.4	8.8	9.0	8.4	8.4	7.9	8.4	12	13	10	8.8	8.4
22	8.2	8.8	9.0	8.4	8.4	7.9	8.4	12	13	10	8.8	8.4
23	8.2	8.8	9.0	8.6	8.4	7.9	8.8	12	13	9.7	8.8	8.4
24	8.2	8.8	9.0	8.6	8.4	7.9	9.0	12	12	9.7	8.8	8.4
25	8.4	8.4	9.3	8.4	8.4	7.9	9.0	12	12	9.7	8.8	8.2
26	8.4	8.6	9.0	8.4	8.4	7.9	8.8	12	12	9.7	8.8	8.2
27	8.2	8.4	9.0	8.6	8.4	7.9	9.0	12	12	9.7	8.8	8.2
28	8.4	8.6	9.0	8.6	8.4	7.9	9.5	11	12	9.7	8.8	8.2
29	8.2	8.6	9.0	8.4	8.4	7.9	11	11	12	9.7	8.6	7.9
30	8.4	8.6	9.0	8.4	-	8.4	12	11	12	9.7	8.6	7.9
31	8.4	-	8.8	8.4	-	8.2	-	11	-	9.7	8.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	253.7	9.3	7.9	8.18	503
November.....	256.5	9.0	7.9	8.55	509
December.....	278.0	9.3	8.6	8.97	551
Calendar year 1943.....	4,042.7	34	6.6	11.1	2,020
January.....	266.6	8.8	8.4	8.57	527
February.....	243.4	8.4	8.2	8.39	483
March.....	251.7	8.4	7.9	8.12	499
April.....	270.2	12	8.4	9.01	536
May.....	364	12	11	11.7	722
June.....	382	16	11	12.7	758
July.....	321.3	12	9.7	10.4	637
August.....	360.9	9.7	8.4	9.08	557
September.....	254.6	8.8	7.9	8.49	505
Water year 1943-44.....	3,421.9	16	7.9	9.35	6,790

e Gage reading not representative of average for day; discharge interpolated.

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

North Side Minidoka Canal near Minidoka, Idaho

Location.— Water-stage recorder, lat. 42°40', long. 113°29', in sec. 1, T. 9 S., R. 25 E., 600 feet downstream from head gates at Minidoka Dam and 6 miles south of Minidoka.

Records available.— May 1909 to September 1944.

Extremes.— Maximum discharge during year, 1,700 second-feet on several days in July; maximum gage height, 9.92 feet July 11; no flow during winter.

1909-44: Maximum discharge, 1,780 second-feet July 11, 1943; maximum gage height, 10.00 feet May 7, 1943; no flow during winters.

Remarks.— Records excellent. Flow controlled by head gates. Water used for irrigation of 64,000 acres of land under North Side Minidoka project.

Cooperation.— Gage-height record furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	768						0	358	1,510	1,430	1,660	1,390
2	793						0	359	1,270	1,550	1,650	1,310
3	790						0	359	805	1,600	1,590	1,280
4	790						0	382	722	1,600	1,560	1,240
5	790						0	461	724	1,600	1,490	1,220
6	816						66	558	722	1,610	1,450	1,220
7	859						176	590	725	1,600	1,450	1,220
8	882						223	650	730	1,600	1,450	1,220
9	857						223	752	661	1,600	1,450	1,210
10	837						285	833	569	1,660	1,450	1,210
11	793						380	976	495	1,700	1,420	1,210
12	746						366	1,010	497	1,700	1,430	1,210
13	718						334	1,010	497	1,700	1,450	1,170
14	706						356	1,100	495	1,700	1,450	1,110
15	708						374	1,280	497	1,700	1,450	1,070
16	708						371	1,490	562	1,690	1,450	1,020
17	706						371	1,560	600	1,690	1,450	917
18	672						371	1,570	677	1,700	1,450	807
19	572						371	1,580	852	1,700	1,440	752
20	521						369	1,570	1,060	1,700	1,440	686
21	519						369	1,560	1,190	1,700	1,480	604
22	174						369	1,560	1,220	1,870	1,490	574
23	0						369	1,560	1,220	1,650	1,460	584
24	0						367	1,560	1,220	1,640	1,460	580
25	0						364	1,560	1,210	1,640	1,460	686
26	0						367	1,570	1,210	1,640	1,450	582
27	0						364	1,570	1,210	1,640	1,410	612
28	0						361	1,570	1,210	1,650	1,410	630
29	0						358	1,570	1,210	1,650	1,410	622
30	0						358	1,570	1,280	1,650	1,410	620
31	0						-	1,570	-	1,650	1,410	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	15,725	882	0	507	31,190
November.....	0	0	0	0	0
December.....	0	0	0	0	0
Calendar year 1943.....	227,294	1,760	0	623	450,800
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	0	0	0	0	0
April.....	8,282	380	0	276	16,430
May.....	35,668	1,690	358	1,151	70,750
June.....	26,853	1,610	495	896	53,260
July.....	51,010	1,700	1,430	1,645	101,200
August.....	45,460	1,660	1,410	1,466	90,170
September.....	28,466	1,390	574	949	56,460
Water year 1943-44.....	211,464	1,700	0	578	419,500

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

South Side Minidoka Canal near Minidoka, Idaho

Location.— Water-stage recorder, lat. 42°40', long. 113°29', in sec. 12, T. 9 S., R. 25 E., 300 yards downstream from head gates at Minidoka Dam and 6 miles south of Minidoka.

Records available.— April 1909 to September 1944.

Extremes.— Maximum discharge during year, 1,320 second-feet on several days during July and August; maximum gage height, 6.01 feet Sept. 9; no flow during winter. 1909-44: Maximum discharge, 1,350 second-feet July 19, 20, 23-25, 1938, July 9-11, 1940; no flow during winters.

Remarks.— Records excellent. Flow controlled by head gates. Water diverted from Snake River at Minidoka Dam for irrigation of 54,000 acres of land under South Side Minidoka project.

Cooperation.— Gage-height record furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	463							53	1,120	1,210	1,320	1,170
2	474							57	870	1,260	1,320	1,160
3	472							0	613	1,240	1,300	1,150
4	447							11	393	1,180	1,290	1,150
5	437							163	414	1,190	1,290	1,140
6	443							175	452	1,230	1,280	1,140
7	450							218	472	1,240	1,280	1,130
8	414							220	470	1,240	1,290	1,130
9	387							237	231	1,260	1,280	1,130
10	387							250	229	1,280	1,300	1,150
11	387							258	229	1,270	1,310	1,140
12	367							299	146	1,270	1,300	1,140
13	329							353	0	1,270	1,280	1,150
14	311							452	0	1,270	1,270	1,120
15	310							622	109	1,260	1,260	1,100
16	310							821	353	1,280	1,230	1,040
17	311							995	359	1,280	1,220	907
18	285							1,090	346	1,290	1,210	897
19	273							1,130	346	1,290	1,200	531
20	271							1,180	416	1,300	1,220	467
21	271							1,230	525	1,300	1,230	441
22	259							1,240	552	1,310	1,220	424
23	218							1,240	625	1,300	1,210	405
24	214							1,280	774	1,310	1,210	393
25	210							1,250	917	1,320	1,220	405
26	206							1,260	1,050	1,320	1,210	463
27	205							1,270	1,020	1,320	1,200	498
28	212							1,270	980	1,320	1,190	474
29	214							1,270	992	1,320	1,190	452
30	72							1,250	1,110	1,320	1,190	454
31	0							1,250	-	1,320	1,180	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	9,589	474	0	309	19,020
November.....	0	0	0	0	0
December.....	0	0	0	0	0
Calendar year 1943.....	177,445	1,320	0	486	352,000
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	0	0	0	0	0
April.....	0	0	0	0	0
May.....	22,362	1,270	0	782	44,390
June.....	16,113	1,180	0	537	31,960
July.....	39,560	1,320	1,180	1,276	75,450
August.....	38,700	1,380	1,180	1,245	76,760
September.....	25,151	1,170	393	838	49,890
Water year 1943-44.....	151,485	1,320	0	414	300,500

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Goose Creek above Trapper Creek, near Oakley, Idaho

Location.— Water-stage recorder, lat. 42°07', long. 113°56', in sec. 13, T. 15 S., R. 21 E., 5 miles upstream from Trapper Creek and 10 miles south of Oakley.

Records available.— April 1911 to September 1916, March 1919 to September 1944.

Average discharge.— 21 years (1911-14, 1926-44), 40.4 second-feet.

Extremes.— Maximum discharge during year, 203 second-feet May 11 (gage height, 3.38 feet); minimum, 0.7 second-foot Sept. 6 (gage height, 1.16 feet).
1911-16, 1919-44: Maximum discharge, 1,670 second-feet Jan. 23 or Feb. 24, 1943 (gage height, 7.6 feet, from high-water mark), from rating curve extended above 600 second-feet by logarithmic plotting; no flow July 22 to Aug. 10, Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935, July 22 to Sept. 25, 1940.

Remarks.— Records good except those for period of ice effect, which are poor. Diversions above station for irrigation. Flow of artesian well, completed in 1935, enters below. Practically entire flow passing station is stored in Oakley Reservoir.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.1	16	22			30	43	134	86	48	15	3.8
2	7.8	16	24			35	44	142	93	44	16	4.0
3	7.6	17	24			38	49	147	120	39	15	1.6
4	8.1	19	25			40	57	148	114	37	15	.9
5	8.4	19	24	20		42	66	148	107	34	14	1.0
6	8.4	19	24		23	43	75	147	95	31	13	1.3
7	8.4	20	24			37	80	156	82	27	13	2.1
8	8.7	27	24			38	78	167	84	23	11	2.1
9	9.0	22	25			41	84	180	118	21	10	2.0
10	9.3	20	*22			56	83	193	125	17	10	1.6
11	9.6	22				83	77	202	117	14	9.9	1.5
12	10	22				81	78	198	113	14	9.5	1.6
13	11	22				61	87	189	123	13	9.3	1.8
14	11	22				49	87	184	120	11	9.3	2.0
15	11	21				42	84	180	116	12	8.4	2.6
16	12	21	20		20	48	83	174	111	11	9.6	4.6
17	12	22			(*)	49	88	170	106	11	7.8	5.2
18	13	22				58	80	170	108	10	7.8	6.6
19	14	22				59	82	162	100	9.6	7.5	7.5
20	16	22				52	80	150	92	13	7.0	8.1
21	19	23		20		43	86	135	86	17	6.8	8.7
22	20	23				37	90	120	81	28	5.8	8.1
23	20	23	21		23	46	94	112	80	28	6.0	8.4
24	18	25				48	98	105	74	24	5.5	8.1
25	17	25				44	106	91	69	22	5.2	7.2
26	17	24				39	117	84	68	22	5.0	4.8
27	16	25			25	37	118	82	76	20	4.8	4.4
28	16	22				37	120	73	68	19	4.4	6.0
29	16	21	20	18		37	125	70	62	18	4.6	6.6
30	16	23				41	128	72	67	17	4.2	7.6
31	16					40		76		16	4.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	395.6	21	7.8	12.8	795
November.....	645	27	12	21.7	1,639
December.....	659	-	-	21.6	1,628
Calendar year 1943.....	22,161.2	-	3.6	60.7	45,940
January.....	572	-	-	18.5	1,130
February.....	645	-	-	22.2	1,280
March.....	1,430	35	-	46.1	2,840
April.....	2,632	128	43	85.4	5,030
May.....	4,351	202	70	141	8,680
June.....	2,842	125	57	95.0	5,850
July.....	670.6	48	9.6	21.6	1,330
August.....	274.4	16	4.2	8.83	544
September.....	131.6	8.7	.9	4.38	261
Water year 1943-44.....	15,195.1	202	.9	41.6	30,140

* Winter discharge measurement made on this day.

Note.— Stage-discharge relation affected by ice Dec. 7 to Mar. 2.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Oakley Reservoir near Oakley, Idaho

Location.- Staff gage, lat. 42°12', long. 113°55', in sec. 19, T. 14 S., R. 22 E., just upstream from right abutment of dam on Goose Creek, 4 miles southwest of Oakley.

Records available.- October 1912 to September 1944.

Extremes.- Maximum contents observed during year, 38,500 acre-feet June 17, 26 (gage height, 98.4 feet); minimum observed, 8,210 acre-feet Sept. 30 (gage height, 45.5 feet).

1912-44: Maximum contents observed, 74,600 acre-feet June 15, 1921 (gage height, 136.2 feet); reservoir drained at close of season in 1915, 1919, 1920, 1926, 1933.

Remarks.- Reservoir is formed by earth dam constructed in 1911-13; storage began in 1911. Capacity, 74,350 acre-feet between gage heights 0.0 foot (bottom of diversion tunnel) and 136.0 feet (crest of spillway). Dead storage negligible. Water is used for irrigation of lands along Goose Creek in Oakley Canal Co. project. Figures given herein represent usable contents. Gage read occasionally and contents shown on days observations were made.

Cooperation.- Gage-height record and capacity table furnished by Oakley Canal Co.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	-	-	-	22,800	-	-	-	34,800	-	-	16,800
2	-	-	-	-	-	-	-	-	-	37,500	-	-
3	17,600	-	-	-	-	-	-	33,400	-	-	-	-
4	-	-	20,400	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	23,100	25,000	-	-	35,100	-	-	-
7	-	18,900	-	-	-	-	28,300	34,900	-	-	23,900	-
8	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	20,600	21,800	-	-	-	35,800	-	35,800	-	-
11	17,800	-	-	-	-	-	-	-	36,000	-	-	14,000
12	-	19,200	-	-	-	25,600	-	-	-	-	-	-
13	-	-	-	-	23,500	-	-	-	-	-	-	-
14	-	-	-	-	-	-	29,400	37,100	36,600	-	22,000	-
15	17,900	-	20,700	22,000	-	26,000	-	-	-	34,900	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-
17	-	19,500	-	-	-	-	-	-	38,500	33,000	-	12,400
18	-	-	-	-	-	-	-	37,300	-	-	-	-
19	-	-	-	-	-	26,400	-	-	-	-	-	-
20	-	-	20,900	-	24,000	-	-	-	-	-	19,600	-
21	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	22,200	-	-	30,500	37,500	38,100	-	-	-
23	18,200	19,800	21,200	-	-	-	-	-	-	-	-	10,500
24	-	-	-	-	-	-	-	-	-	29,600	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	21,300	-	-	-	-	-	38,500	-	-	-
27	-	-	-	22,600	24,400	27,100	32,100	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	17,900	-
29	-	-	-	22,700	-	-	-	35,300	-	-	-	-
30	-	20,200	-	-	-	-	32,700	-	38,000	-	-	8,210
31	-	-	21,400	22,800	-	27,400	-	-	-	26,900	17,100	-

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Trapper Creek near Oakley, Idaho

Location.- Water-stage recorder, lat. 42°10', long. 113°59', in sec. 34, T. 14 S., R. 21 E., 4 miles upstream from Oakley Dam and 7 miles southwest of Oakley.

Records available.- May 1911 to September 1916, March 1919 to September 1944.

Average discharge.- 20 years (1911-12, 1913-14, 1926-44), 13.5 second-feet.

Extremes.- Maximum discharge during year, 32 second-feet June 9 (gauge height, 5.22 feet); minimum recorded, 3.6 second-feet Jan. 4 (gauge height, 4.65 feet).

1911-16, 1919-44: Maximum discharge recorded, about 700 second-feet Aug. 17, 1941 (gauge height, 6.99 feet), from rating curve extended above 50 second-feet (a higher flow may have occurred during cloudburst about 12 p.m. Aug. 15, 1931); minimum not determined, probably occurred during winter.

Remarks.- Records good except those for periods of no gauge-height record, which are fair. A few small diversions above station. Flow of artesian well, completed in 1936, enters above. Practically entire flow passing station is stored in Oakley Reservoir.

Cooperation.- Gauge-height record furnished by Oakley Canal Co.

Rating tables, water year 1943-44 (gauge height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 8		Jan. 22 to Sept. 30	
4.7	5.0	4.8	7.5
4.8	8.5	4.9	12
4.9	14	5.0	18
		5.1	24
		5.2	31

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	11	12	11		12	13	19	19	14	10	8.0
2	10	11	12	12		12	12	19	21	13	10	8.8
3	11	11	12	12		12	13	19	22	13	10	9.3
4	11	11	12	6.4		12	14	19	21	12	9.8	9.3
5	11	12	12	12		12	15	19	19	12	9.3	8.8
6	11	11	12	13		11	15	20	18	12	8.8	8.4
7	11	11	12	6.4		10	14	21	19	12	8.8	8.0
8	a11	11	12	8.5		10	15	23	21	12	8.8	8.0
9	a12	11	12			12	15	24	27	12	8.8	8.0
10	a12	11	7.1			13	14	25	23	12	8.8	8.0
11	12	12	14			12	14	25	23	12	8.0	8.0
12	12	12	12			12	15	26	22	12	8.0	8.0
13	12	11	12			12	14	28	23	11	8.0	8.0
14	11	12	12			11	14	28	24	11	8.4	8.0
15	11	12	12			11	14	28	a24	11	8.4	8.4
16	11	12	11	a10	a11	11	15	28	a23	11	8.4	8.4
17	11	12	12			12	14	28	a22	11	8.0	9.3
18	a11	12	12			13	14	28	a22	11	8.0	9.3
19	a11	12	12			12	14	27	a21	11	8.0	9.3
20	a11	a12	12			12	15	25	a20	13	8.0	8.8
21	a12	12	12			12	15	24	19	12	7.5	8.4
22	a12	13	12	11		12	16	23	19	12	7.5	8.4
23	11	13	12	11		12	15	22	18	11	7.5	8.4
24	11	13	12	11		12	16	21	16	11	7.6	8.4
25	9.8	13	12	11		12	18	21	16	11	8.0	8.4
26	9.3	13	12	11		12	17	20	17	12	8.0	8.4
27	8.9	14	11	11		11	17	19	16	11	8.0	8.4
28	8.9	13	9.8	9.8		11	19	19	16	9.8	8.0	8.4
29	a10	12	12	9.8	11	11	18	19	15	9.8	8.0	8.4
30	11	12	12	a10	-	12	19	a19	14	9.3	8.4	8.4
31	11	-	11	a11	-	12	-	19	-	9.8	8.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	337.9	12	8.9	10.9	670
November.....	358	14	11	11.9	710
December.....	360.1	14	7.1	11.6	714
Calendar year 1943	8,063.8	-	7.1	22.1	15,990
January.....	317.9	13	6.4	10.3	651
February.....	319	-	-	11.0	633
March.....	363	13	10	11.7	720
April.....	452	19	12	15.1	897
May.....	705	28	19	22.7	1,400
June.....	600	27	14	20.0	1,190
July.....	356.7	14	9.3	11.5	708
August.....	280.7	10	7.5	8.4	517
September.....	254.1	9.3	8.0	8.47	504
Water year 1943-44	4,684.4	28	6.4	12.8	9,290

A no gauge-height record; discharge interpolated or computed on basis of records for Goose Creek near Oakley and Rock Creek near Rock Creek.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

P. A. lateral near Milner, Idaho

Location.- Staff-gage, lat. 42°32', long. 114°01', in sec. 22, T. 10 S., R. 21 E.. 600 feet downstream from pumping station and 2½ miles northeast of Milner.

Records available.- April 1919 to September 1944; 1916 to 1918 by North Side Canal Co.

Extremes.- Maximum discharge during year, 62 second-feet on many days; no flow at times. 1919-44: Maximum discharge, 64 second-feet May 11-13, 1920, July 11, 12, 19-29, 1932; no flow at times.

Remarks.- Records excellent. Gage read twice daily. Flow regulated by pumping plant, which lifts water from Snake River for irrigation on North Side Twin Falls tract.

Cooperation.- Gage-height record and two discharge measurements furnished by North Side Canal Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	16	61	61	60	61
2							0	16	62	61	60	60
3							0	16	62	61	60	61
4							0	16	62	61	60	61
5							0	16	62	61	60	61
6							0	16	62	61	60	61
7							17	16	62	61	60	61
8							17	29	62	61	60	61
9							0	29	62	61	61	61
10							0	32	62	61	61	61
11							0	39	60	61	61	61
12							0	39	60	60	61	61
13							0	47	47	60	61	61
14							0	47	48	61	61	61
15							0	58	48	61	61	60
16							0	62	48	61	61	60
17							0	62	48	61	60	60
18							0	62	48	61	60	60
19							0	62	48	61	60	60
20							0	62	48	61	60	60
21							0	62	48	61	60	60
22							0	62	57	60	60	55
23							0	62	57	60	60	52
24							0	62	59	60	60	52
25							0	62	62	60	60	44
26							0	60	62	60	60	44
27							0	60	62	60	60	44
28							0	60	62	60	60	44
29							0	60	62	60	60	30
30							0	61	62	60	61	30
31							-	61	-	60	61	-
Month						Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet		
October.....						0	0	0	0	0		
November.....						0	0	0	0	0		
December.....						0	0	0	0	0		
Calendar year 1943						9,042	62	0	24.8	17,940		
January.....						0	0	0	0	0		
February.....						0	0	0	0	0		
March.....						0	0	0	0	0		
April.....						34	17	0	1.1	67		
May.....						1,414	62	18	45.6	2,800		
June.....						1,715	62	47	57.2	3,400		
July.....						1,879	61	60	60.6	3,730		
August.....						1,870	61	60	60.3	3,710		
September.....						1,668	61	30	55.6	3,310		
Water year 1943-44						8,580	62	0	23.4	17,020		

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Milner low-lift canal near Milner, Idaho

Location.- Water-stage recorder, lat. $42^{\circ}31'$, long. $114^{\circ}01'$, in sec. 32, T. 10 S., R. 21 E., 800 feet downstream from head of canal and $1\frac{1}{2}$ miles south of Milner.

Records available.- June 1921 to September 1944.

Extremes.- Maximum discharge during year, 192 second-feet several days during July; maximum gage height, 3.40 feet Aug. 2; no flow on many days.
1921-44: Maximum discharge, that of July 1944; no flow on many days.

Remarks.- Records good. Flow controlled by pumping plant which lifts water from Snake River above Milner Dam for irrigation of 9,000 acres of land in Milner low-lift irrigation district.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	172	173	161	167
2								0	149	173	161	167
3								0	113	173	170	167
4								0	72	163	166	167
5								0	0	173	166	168
6								0	20	171	166	169
7								0	96	173	166	168
8								16	99	160	164	166
9								33	32	188	165	166
10								84	0	188	166	167
11								79	0	188	166	170
12								109	0	189	166	168
13								128	0	189	164	166
14								136	0	188	164	165
15								139	0	188	164	168
16								141	0	188	166	167
17								139	0	188	166	164
18								154	0	189	166	161
19								132	82	190	166	142
20								134	78	181	164	143
21								134	101	190	163	145
22								138	189	190	161	131
23								143	147	190	160	120
24								182	181	190	161	120
25								171	166	191	162	121
26												
27								162	172	192	163	121
28								169	172	192	164	121
29								169	172	191	164	121
30								171	172	192	165	81
31								172	-	192	165	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	0	0	0	0	0
November.....	0	0	0	0	0
December.....	0	0	0	0	0
Calendar year 1943.....	23,709	171	0	65.0	47,030
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	0	0	0	0	0
April.....	0	0	0	0	0
May.....	3,122	172	0	101	6,190
June.....	2,467	172	0	82.2	4,690
July.....	5,685	192	161	183	11,280
August.....	5,155	191	180	166	10,220
September.....	4,486	170	81	180	8,900
Water year 1943-44.....	20,915	192	0	87.1	41,480

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Gooding Canal at Milner, Idaho

Location.- Water-stage recorder on Milner-Gooding canal in SW¹/₄ sec. 7, differential recorder on control gates of North Side Canal Co. diversion in sec. 19, and staff gage in diversion canal in sec. 18, T. 10 S., R. 21 E., about 3 miles downstream from head-gates that are in sec. 28, T. 10 S., R. 21 E., lat. 42°31', long. 114°01'.

Records available.- May 1930 to September 1944.

Extremes.- Maximum daily discharge during year, 2,510 second-feet several days during July; no flow on many days.

1930-44: Maximum daily discharge, 2,580 second-feet July 31, Aug. 1, 2, 1942, July 31, Aug. 1, 3, 4, 1943; no flow on many days.

Remarks.- Records good. Gooding Canal diverts water from Snake River for Milner-Gooding project of Bureau of Reclamation and in part for project of North Side Canal Co. The latter project also receives water through the North Side Twin Falls Canal and P. A. lateral. Discharge of canal is computed by combining the discharge of Milner-Gooding diversion and that of North Side Canal Co. diversions below their division point and adding from 20 to 50 second-feet to that sum for loss between head gates and division point.

Cooperation.- Gage-height record and some discharge measurements furnished by North Side Canal Co., American Falls Reservoir District No. 2, and Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	580					0	1,240	2,150	2,110	2,480	2,200
2	0	210					0	1,270	2,150	2,190	2,480	2,250
3	0	490					0	1,260	2,120	2,200	2,470	2,260
4	0	720					0	1,250	2,100	2,200	2,490	2,280
5	0	750					0	1,280	2,080	2,260	2,500	2,290
6	0	730					0	1,270	2,060	2,310	2,460	2,260
7	0	690					0	1,410	2,040	2,310	2,450	2,230
8	0	690					0	1,500	2,030	2,310	2,440	2,210
9	0	690					0	1,490	2,020	2,300	2,440	2,220
10	0	690					0	1,500	1,950	2,300	2,450	2,220
11	0	690					0	1,510	1,860	2,420	2,460	2,210
12	0	690					0	1,530	1,780	2,490	2,470	2,210
13	0	690					470	1,520	1,800	2,440	2,470	2,210
14	0	690					740	1,520	1,800	2,460	2,450	2,180
15	0	690					750	1,520	1,790	2,450	2,470	2,190
16	0	270					750	1,520	1,780	2,500	2,480	2,210
17	0	0					800	1,510	1,780	2,510	2,480	2,200
18	0	0					860	1,590	1,800	2,500	2,450	2,230
19	0	0					910	1,670	1,600	2,500	2,450	2,170
20	0	0					700	1,670	1,790	2,510	2,380	2,120
21	0	0					570	1,950	1,900	2,510	2,330	2,100
22	0	0					560	1,940	1,970	2,500	2,320	2,020
23	0	0					560	1,920	1,980	2,510	2,340	1,960
24	0	0					550	2,040	1,980	2,510	2,290	1,940
25	0	0					540	2,100	1,990	2,510	2,260	1,920
26	0	0					550	2,100	2,050	2,500	2,280	1,890
27	0	0					990	2,100	2,100	2,500	2,280	1,910
28	0	0					1,260	2,100	2,100	2,490	2,270	1,950
29	0	0					1,290	2,110	2,040	2,480	2,290	1,290
30	210	0					1,260	2,120	2,010	2,480	2,240	890
31	620	-					-	2,130	-	2,490	2,230	-

Month	Second-foot-days	Discharge in second-feet			Total runoff in acre-feet	Distribution (acre-feet)	
		Maximum	Minimum	Mean		To Milner-Gooding project	To North Side Canal Co. project
October.....	830	620	0	26.8	1,650	1,650	0
November.....	9,740	730	0	325	19,320	19,320	0
December.....	0	0	0	0	0	0	0
Calendar year 1943	341,080	2,580	0	934	676,530	308,700	367,830
January.....	0	0	0	0	0	0	0
February.....	0	0	0	0	0	0	0
March.....	0	0	0	0	0	0	0
April.....	14,100	1,290	0	470	27,970	22,790	5,180
May.....	81,820	2,130	1,240	1,672	102,780	39,390	63,490
June.....	58,780	2,150	1,760	1,959	116,590	44,010	72,580
July.....	74,780	2,510	2,110	2,412	148,330	56,580	92,970
August.....	74,530	2,500	2,230	2,398	147,430	57,600	89,830
September.....	62,220	2,290	890	2,074	125,410	56,910	67,500
Water year 1943-44	346,600	2,510	0	947	687,480	296,930	391,550

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

North Side Twin Falls Canal at Milner, Idaho

Location.- Water-stage recorder, lat. 42°32', long. 114°01', in sec. 20, T. 10 S., R. 21 E., half a mile north of Milner and three-quarters of a mile downstream from head gates at Milner Dam.

Records available.- May 1909 to September 1944.

Extremes.- Maximum discharge during year, 2,680 second-feet July 20 (gage height, 8.14 feet); no flow on several days.

1909-44: Maximum daily discharge, 3,200 second-feet July 5-7, 29-31, 1921, May 15, 1928, June 2, July 23, 1929; no flow at times when head gates were closed.

Remarks.- Records excellent April to September and good October to March. Flow controlled by head gates. Water diverted by this canal and by P. A. lateral and part of that diverted by Gooding Canal, all at Milner, is used for irrigation of 163,000 acres of land under North Side Canal Co. system.

Cooperation.- Gage-height record furnished by North Side Canal Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,140	0	566	518	506	490	591	615	2,300	2,340	2,640	2,490
2	1,140	0	566	518	506	490	641	689	2,290	2,400	2,640	2,540
3	1,140	0	566	518	500	494	641	772	2,240	2,420	2,640	2,580
4	1,130	0	566	531	497	481	654	914	2,250	2,480	2,660	2,480
5	1,120	0	565	531	500	481	637	1,050	2,250	2,500	2,640	2,460
6		0	563	512	494	494	665	1,190	2,220	2,570	2,630	2,460
7	1,080	0	563	494	481	503	724	1,450	2,240	2,570	2,650	2,440
8	1,080	0	563	500	466	494	731	1,470	2,160	2,570	2,620	2,420
9	1,080	0	563	481	484	490	731	1,600	1,580	2,550	2,620	2,430
10	1,080	0	563	512	500	481	742	1,680	1,550	2,580	2,610	2,420
11	1,070	0	563	518	497	500	654	1,790	1,610	2,590	2,580	2,400
12	1,050	0	563	525	497	503	621	1,890	1,620	2,570	2,560	2,390
13	1,050	0	563	518	497	484	290	1,970	1,630	2,590	2,570	2,360
14	1,030	0	559	512	494	481	0	2,010	1,600	2,660	2,550	2,320
15	971	0	540	512	497	481	0	2,040	1,600	2,650	2,560	2,320
16	949	412	531	512	497	490	0	2,090	1,600	2,660	2,540	2,210
17	919	658	531	512	494	472	0	2,190	1,600	2,660	2,530	2,060
18	899	627	531	515	494	484	0	2,250	1,620	2,650	2,520	1,950
19	835	611	537	509	481	484	0	2,310	1,590	2,650	2,510	1,770
20	803	618	528	503	487	563	159	2,310	1,670	2,670	2,520	1,540
21	763	604	522	4509	494	598	164	2,260	1,570	2,660	2,510	1,400
22	756	601	518	506	500	604	129	2,250	1,650	2,630	2,530	1,230
23	742	601	515	506	497	631	228	2,270	1,700	2,660	2,520	932
24	742	601	518	509	494	637	285	2,260	1,760	2,660	2,520	543
25	752	591	515	500	494	624	357	2,260	1,690	2,640	2,510	433
26	731	591	515	506	497	634	454	2,260	1,960	2,650	2,510	412
27	692	591	512	506	497	634	451	2,260	2,040	2,650	2,540	403
28	672	579	512	503	497	631	454	2,270	2,130	2,640	2,540	328
29	679	572	522	503	497	585	494	2,290	2,160	2,650	2,540	308
30	439	566	525	5500	-	569	569	2,300	2,230	2,660	2,550	265
31	0	-	522	500	-	559	-	2,320	-	2,660	2,520	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	27,623	1,140	0	891	54,790
November.....	8,823	566	0	294	17,600
December.....	16,778	566	512	541	33,280
Calendar year 1943.....	480,537	2,720	0	1,517	953,000
January.....	15,799	531	481	510	31,340
February.....	14,326	506	466	494	28,420
March.....	16,546	637	472	534	32,820
April.....	12,066	742	0	402	23,930
May.....	57,240	2,320	616	1,646	115,500
June.....	86,210	2,300	1,550	1,874	111,500
July.....	80,490	2,670	2,340	2,596	159,600
August.....	79,560	2,660	2,510	2,566	157,800
September.....	52,224	2,540	265	1,741	103,600
Water year 1943-44.....	437,685	2,670	0	1,196	868,100

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

South Side Twin Falls Canal at Milner, Idaho

Location.- Water-stage recorder, lat. 42°31', long. 114°01', in sec. 29, T. 10 S., R. 21 E., 700 feet downstream from head gates at Milner Dam.

Records available.- May 1909 to September 1944.

Extremes.- Maximum discharge during year, 3,600 second-feet July 31 (gage height, 10.42 feet); minimum, 60 second-feet (estimated) on several days.

1909-44: Maximum daily discharge, 4,600 second-feet Aug. 12, 1918, computed on basis of stage-discharge relation for canal plus estimates by hydrographer of water wasted through spillway below station and returned to river; no flow Sept. 20, 1920.

Remarks.- Records excellent except those for periods of ice effect or no gage-height record, which are fair. Flow controlled by head gates. Canal diverts water from Snake River at Milner Dam for irrigation of 202,000 acres of land in Twin Falls County.

Cooperation.- Gage-height record furnished by Twin Falls Canal Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,490	a60	631	583	560	530	598	555	3,220	3,160	3,580	3,500
2	1,490	a60	634	577	553	529	583	589	3,040	3,230	3,560	3,550
3	1,500	354	625	578	556	538	616	936	2,940	3,200	3,580	3,540
4	1,500	664	625	571	559	522	736	1,100	2,880	3,140	3,580	3,490
5	1,490	778	628	585	570	525	919	1,560	2,860	3,170	3,580	3,460
6	1,490	781	637	580	574	536	1,010	1,760	2,810	3,320	3,560	3,440
7	1,460	707	637	580	577	541	1,110	1,940	2,770	3,360	3,580	3,410
8	1,450	673	635	583	577	532	1,220	2,660	2,740	3,360	3,570	3,420
9	1,420	652	645	552	529	529	1,230	2,530	2,390	3,360	3,560	3,460
10	1,410	643	623	548	510	*532	1,210	2,460	2,160	3,390	3,560	3,400
11	1,360	643	616	563	525	526	1,190	2,570	2,140	3,420	3,560	3,290
12	1,290	643	625	591	521	514	1,160	2,610	2,200	3,390	3,560	3,210
13	1,230	643	628	591	507	514	1,150	2,590	2,120	3,380	3,540	3,120
14	1,120	643	625	597	513	511	1,270	2,630	2,050	3,630	3,540	3,020
15	1,090	230	628	602	516	511	1,270	2,710	2,070	3,530	3,570	3,060
16	1,060	192	625	604	515	514	1,070	2,870	2,040	3,530	3,540	2,980
17	1,020	517	628	600	513	523	932	3,200	2,030	3,520	3,530	2,910
18	938	631	625	585	513	511	872	3,300	2,060	3,520	3,500	2,870
19	892	631	631	569	*508	517	848	3,200	2,150	3,540	3,500	2,390
20	862	631	625	558	485	532	829	3,260	2,190	3,560	3,510	2,250
21	872	628	613	*570	514	514	797	3,190	2,250	3,520	3,510	2,100
22	879	628	613	568	518	505	670	3,160	2,340	3,530	3,530	2,030
23	858	625	613	567	521	520	610	3,200	2,360	3,560	3,530	1,890
24	855	631	613	570	516	544	631	3,240	2,340	3,560	3,520	1,810
25	858	*631	610	557	520	538	652	3,270	2,500	3,560	3,540	1,710
26	838	628	601	560	525	547	704	3,320	2,570	3,570	3,540	1,610
27	797	628	595	560	525	525	710	3,330	2,680	3,550	3,540	1,580
28	388	628	568	559	525	a60	717	3,310	2,900	3,560	3,520	1,610
29	a60	628	*574	555	525	a60	758	3,310	2,990	3,560	3,520	1,600
30	323	628	568	550	-	a60	787	3,280	3,050	3,580	3,530	1,580
31	225	-	565	552	-	a168	-	3,260	-	3,580	3,520	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	32,582	1,500	60	1,051	64,630
November.....	17,062	60	60	669	53,640
December.....	19,115	645	568	617	37,910
Calendar year 1943.....	648,641	3,660	58	1,777	1,287,000
January.....	17,735	604	548	572	35,180
February.....	15,370	577	485	530	30,490
March.....	14,553	547	60	469	28,330
April.....	26,899	1,270	583	897	53,350
May.....	80,500	3,330	855	2,597	159,700
June.....	74,840	3,220	2,030	2,495	148,400
July.....	106,720	3,580	3,140	3,443	211,700
August.....	109,800	3,580	3,500	3,542	217,800
September.....	81,080	3,550	1,580	2,703	160,800
Water year 1943-44.....	596,236	3,580	60	1,629	1,183,000

* Winter discharge measurement made on this day.

a No gage-height record, gates closed, leakage estimated by watermaster, Milner Dam.

Note.- Stage-discharge relation affected by ice Dec. 8-10, Jan. 2 to Mar. 6.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Rock Creek near Rock Creek, Idaho

Location.— Water-stage recorder, lat. 42°22', long. 114°18', in sec. 25, T. 12 S., R. 18 E., 0.1 mile downstream from road bridge; $\frac{1}{2}$ mile downstream from West Fork Rock Creek, 5 miles south of Rock Creek settlement, and 12 miles south of Hansen.

Records available.— November 1938 to July 1939, November 1943 to September 1944, November 1909 to August 1913 at site 2 miles downstream; records equivalent except for ranch diversions and small inflow from artesian wells developed in recent years.

Extremes.— Maximum discharge during period November 1943 to September 1944, 247 second-feet May 11; maximum gage height, 3.59 feet May 9; minimum discharge, 6.4 second-feet Dec. 10, Jan. 4; minimum gage height, 1.16 feet Sept. 26-29.
1909-13, 1939-39, 1943-44: Maximum discharge observed, 429 second-feet May 21, 1912 (gage height, 10.4 feet, site and datum then in use); minimum observed, 3.6 second-feet Aug. 7-12, 1910 (gage height, 0.3 foot, site and datum then in use).

Remarks.— Records good except those for Apr. 20 to May 15, which are fair. Small ranch diversions above station.

Rating tables, Nov. 20, 1943, to Sept. 30, 1944, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 7-13, July 28 to Aug. 2)

Nov. 20 to May 6				May 7 to Sept. 30			
1.5	4	2.3	66	1.1	4.5	2.1	85
1.6	8	2.7	114	1.3	12	2.7	155
1.8	18	3.1	165	1.5	26	3.4	244
2.0	34			1.7	44		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	12	11	11	12	17	157	62	41	14	7.6
2		-	12	12	11	12	18	147	59	38	14	8.4
3		-	12	11	11	12	23	127	93	37	14	6.9
4		-	12	7.2	12	12	30	120	94	35	13	8.4
5		-	12	10	12	13	38	125	92	34	12	7.5
6		-	12	12	12	12	34	151	93	32	11	7.3
7		-	12	ba.5	12	12	34	182	90	30	11	7.3
8		-	12	b10	12	12	37	198	103	29	11	7.3
9		-	9.5	10	14	14	39	223	125	28	11	7.0
10		-	8.0	b10	11	16	35	234	117	26	11	7.3
11		-	12	ba.5	11	17	38	239	115	25	9.8	7.3
12		-	12	ba.0	12	18	48	235	117	24	9.4	7.0
13		-	11	10	12	17	51	236	126	22	9.8	7.0
14		-	11	12	12	15	52	232	126	22	9.8	7.3
15		-	11	12	10	15	48	218	125	22	9.8	7.6
16		-	11	11	12	15	52	201	119	20	9.4	7.6
17		-	11	11	12	16	50	175	115	19	8.9	8.0
18		-	11	*10	12	17	52	156	108	18	8.9	8.9
19		-	12	10	9.0	17	57	141	97	18	8.4	9.9
20		*12	12	10	11	17	68	121	89	18	8.4	8.4
21		12	12	10	12	16	68	106	84	20	8.0	7.3
22		12	12	10	12	16	65	100	78	17	8.0	7.3
23		12	12	11	12	16	102	93	72	17	8.0	7.3
24		12	12	11	12	16	131	86	67	16	7.6	7.3
25		12	13	10	12	16	136	78	63	17	7.6	7.0
26		12	12	9.5	12	15	119	74	61	18	8.0	7.0
27		12	10	10	12	14	112	69	57	16	8.0	7.0
28		12	9.0	9.5	12	14	124	64	63	15	7.6	6.6
29		12	12	10	12	15	131	61	43	14	7.6	6.6
30		12	12	10	-	15	149	61	44	15	8.0	7.6
31		-	11	12	-	15	-	61	-	16	7.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	-	-	-	-	-
November 20-30.....	132	12	12	12.0	262
December.....	354.5	13	8.0	11.4	703
Calendar year.....	-	-	-	-	-
January.....	319.2	12	7.2	10.3	633
February.....	339.0	14	8.0	11.7	672
March.....	458	18	12	14.8	908
April.....	1,276	149	17	65.9	3,620
May.....	4,468	239	61	144	8,860
June.....	2,699	126	44	90.0	5,350
July.....	719	41	14	23.2	1,430
August.....	300.6	14	7.6	9.70	596
September.....	226.4	8.9	6.5	7.55	449
The period.....	-	-	-	-	23,780

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Rock Creek near Twin Falls, Idaho

Location.- Water-stage recorder, lat. 42°36', long. 114°32', in SW¼ sec. 36, T. 9 S., R. 18 E., at highway bridge, 3 miles upstream from mouth and 4 miles northwest of town of Twin Falls.

Records available.- March 1922 to September 1944.

Average discharge.- 22 years, 211 second-feet.

Extremes.- Maximum discharge during year, 472 second-feet June 8 (gage height, 3.15 feet); minimum, 100 second-feet Apr. 1 (gage height, 1.72 feet).
1922-44: Maximum discharge, 984 second-feet Sept. 21, 1927 (gage height, 4.5 feet, datum then in use, from floodmarks); minimum, 90 second-feet Mar. 28, 1941 (gage height, 1.66 feet).

Remarks.- Records good except those for periods of no gage-height record, which are poor. Practically all normal summer flow diverted several miles above station for irrigation. Waste water from South Side Twin Falls low-line canal, which crosses Rock Creek 12 miles above station, causes abrupt fluctuations in stage at times. Irrigation waste water and return flow from project lands enter above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	270	234	193	155	176	138	100	291	207	229	216	259
2	270	208	189	171	185	138	102	300	242	226	226	250
3	267	191	159	159	181	136	106	281	232	221	237	245
4	264	191	181	152	226	139	109	270	270	216	234	250
5	262	191	193	185	202	134	114	262	256	221	234	242
6	264	214	189	221	195	130	121	264	250	214	237	250
7	267	219	189	221	177	128	124	273	250	209	232	253
8	270	216	193	248	162	128	136	a276	306	209	234	250
9	270	214	181	260	163	127	138	h279	377	204	237	259
10	273	211	a179	224	150	132	145	a278	332	202	237	259
11	276	209	a177	189	147	128	153	a276	332	191	232	262
12	267	204	a175	175	149	132	149	a275	332	195	221	259
13	267	204	173	179	152	132	141	a273	335	196	224	256
14	256	200	177	175	159	127	139	a272	342	191	224	253
15	256	198	168	173	141	123	142	h270	342	196	232	262
16	256	195	162	188	139	124	159	259	326	200	229	270
17	264	187	162	166	145	124	150	264	316	202	226	291
18	276	189	166	168	142	124	153	266	306	198	229	291
19	294	198	168	161	134	124	156	237	268	200	229	288
20	276	200	173	177	168	124	173	224	285	198	226	288
21	276	200	177	179	149	121	191	a204	282	200	232	285
22	259	202	177	173	145	121	189	a185	267	202	237	270
23	250	202	173	181	152	123	195	166	270	209	250	270
24	250	200	175	181	169	a120	209	168	267	214	242	267
25	250	198	177	177	a164	a118	239	159	267	214	237	262
26	253	195	173	179	a159	a115	259	157	276	209	234	253
27	253	193	169	173	a164	a113	256	157	265	207	234	250
28	250	193	166	a166	a148	a110	273	169	259	208	239	253
29	250	193	162	a169	a143	a108	291	171	259	202	242	262
30	248	195	169	a152	-	a105	288	177	239	209	256	267
31	259	-	167	145	-	a103	-	191	-	216	262	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	8,152	294	239	263	16,170
November.....	6,035	234	187	201	11,960
December.....	5,452	193	157	176	10,610
Calendar year 1943	82,125	360	136	225	162,900
January.....	5,502	250	145	181	11,110
February.....	4,665	226	134	161	9,250
March.....	3,851	139	103	124	7,640
April.....	5,099	261	100	170	10,110
May.....	7,294	300	157	255	14,470
June.....	8,618	377	207	287	17,090
July.....	6,406	229	191	207	12,710
August.....	7,261	262	216	234	14,400
September.....	7,875	291	242	253	15,620
Water year 1943-44	76,314	377	100	209	151,400

a No gage-height record; discharge interpolated.

b Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Salmon Falls Creek near San Jacinto, Nev.

Location.— Water-stage recorder, lat. $41^{\circ}57'$, long. $114^{\circ}42'$, in sec. 23, T. 47 N., R. 64 E., in canyon, 200 yards downstream from highway bridge, 250 yards downstream from Shoshone Creek, and 5 miles north of San Jacinto.

Records available.— September 1909 to September 1916, October 1918 to September 1944.

Average discharge.— 30 years (1910-16, 1919-20, 1921-44), 127 second-feet.

Extremes.— Maximum discharge during year, 890 second-feet May 11 (gage height, 6.33 feet);

minimum, 14 second-feet Oct. 6 (gage height, 2.37 feet).

1909-16, 1918-44: Maximum discharge, between 2,060 and 2,420 second-feet Feb. 24, 1943 (gage height exceeded range of recorder, 10.20 feet, but was not more than 1.2 feet higher), from rating curve extended above 1,400 second-feet; minimum, 5.3 second-feet Aug. 17, 1940 (gage height, 2.16 feet).

Remarks.— Records good. Many diversions above station for irrigation. Salmon Dam of Salmon River Canal Co., 15 miles below station, forms a reservoir having a capacity of about 180,000 acre-feet.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	48	59	54	59	69	150	745	403	199	36	16
2	19	51	58	61	66	72	170	780	435	176	36	19
3	16	53	58	54	64	72	200	774	536	164	34	21
4	16	53	60	40	69	72	313	745	536	154	33	21
5	16	54	59	50	69	75	403	688	536	141	30	21
6	16	55	60	55	74	73	403	646	455	139	29	20
7	18	55	60	53	78	70	338	646	403	126	26	18
8	19	60	61	51	82	69	322	688	380	121	27	18
9	20	60	44	50	82	74	332	745	482	116	33	17
10	22	60	46	51	61	91	301	861	522	106	32	17
11	24	61	55	52	64	102	284	890	536	86	33	19
12	25	60	53	51	66	104	301	861	562	88	31	19
13	28	60	53	52	64	102	332	803	576	82	29	18
14	29	60	52	53	69	94	360	788	562	80	28	18
15	31	60	51	54	69	84	352	788	590	79	22	als
16	32	60	48	55	61	86	308	803	576	74	20	17
17	33	60	52	57	69	109	318	803	549	72	21	17
18	40	60	54	54	58	143	277	803	522	70	24	19
19	50	61	58	50	55	141	301	760	482	66	22	22
20	50	64	64	52	55	125	293	702	429	66	23	21
21	52	64	66	53	66	107	322	618	390	66	19	21
22	48	64	66	53	61	102	313	549	403	65	18	22
23	48	64	66	57	69	107	340	495	388	58	24	25
24	46	64	63	58	61	112	388	465	370	55	25	31
25	44	64	68	60	73	111	442	429	320	55	23	30
26	44	63	65	61	65	104	522	390	303	51	22	30
27	51	61	54	60	69	98	562	368	291	42	21	30
28	53	60	44	55	61	93	549	345	279	40	20	31
29	50	59	53	50	73	96	646	330	251	36	18	31
30	50	59	55	52	75	107	716	320	226	36	18	35
31	48	-	52	58	-	128	-	355	-	36	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,060	53	16	34.2	2,100
November.....	1,777	64	48	59.2	3,520
December.....	1,757	68	44	56.7	3,490
Calendar year 1943	85,358	2,000	16	234	169,300
January.....	1,666	61	40	53.7	3,300
February.....	1,932	82	55	66.6	3,330
March.....	2,993	143	69	96.5	5,940
April.....	10,877	716	150	363	21,570
May.....	19,966	890	320	644	39,600
June.....	13,323	590	226	444	26,430
July.....	2,743	199	35	88.5	5,440
August.....	794	36	17	25.6	1,570
September.....	660	33	16	22.0	1,310
Water year 1943-44	59,548	890	16	163	118,100

a No gage-height record; discharge interpolated.

Time Basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

Salmon River Canal Co. Reservoir near Rogerson, Idaho

Location.- Staff gage at dam on Salmon Falls Creek, lat. 42°13', long. 114°44', in sec. 17, T. 14 S., R. 15 E., 10 miles west of Rogerson. Datum of gage is 4,990.0 feet above mean sea level (surveys of Salmon River Canal Co.).

Records available.- January 1922. to September 1944.

Extremes.- Maximum contents observed during year, 116,200 acre-feet June 21-24 (gage height, 58.4 feet); minimum observed, 38,180 acre-feet Sept. 27-30 (gage height, 24.5 feet).

1922-44: Maximum contents observed, 123,700 acre-feet May 30, 31, 1922 (gage height, 61.1 feet); minimum observed, 125 acre-feet Sept. 21 to Oct. 5, 1934 (gage height, 0.1 foot).

Remarks.- Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Capacity, 182,650 acre-feet between gage heights 0.0 foot (bottom of outlet tunnel) and 80.0 feet (maximum operating level). Dead storage unknown. Water is used for irrigation of lands in Salmon River Canal Co. project. Figures given herein represent usable contents. Gage read once daily.

Cooperation.- Gage-height record and capacity table furnished by Salmon River Canal Co.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48,200	47,000	47,000	48,800	49,600	51,000	55,200	75,140	101,000	113,400	76,980	45,200
2	48,200	47,000	47,200	48,800	49,600	51,000	55,400	76,520	101,000	112,600	75,980	45,200
3	48,200	46,800	47,200	48,800	49,600	51,000	55,600	77,670	101,000	111,400	74,680	45,200
4	48,200	46,800	47,200	48,800	49,800	51,000	56,200	79,060	102,100	110,600	73,530	45,200
5	48,000	46,800	47,200	48,800	49,800	51,000	56,600	80,260	103,100	109,600	72,150	44,400
6	48,000	46,800	47,200	49,000	49,800	51,000	56,800	81,690	103,900	108,700	71,230	43,600
7	48,000	46,800	47,400	49,000	49,800	51,200	57,230	82,890	104,400	107,700	70,080	42,800
8	47,800	46,800	47,400	49,000	49,800	51,200	57,880	84,090	105,200	106,600	68,920	42,060
9	47,800	46,800	47,600	49,000	49,800	51,200	58,740	85,290	105,800	106,800	68,000	41,320
10	47,500	46,800	47,600	49,000	50,000	51,400	59,600	86,500	106,600	104,700	66,900	40,400
11	47,600	46,400	47,600	49,000	50,000	51,400	60,460	87,750	107,700	103,600	65,880	39,660
12	47,600	46,400	47,600	49,000	50,000	51,400	61,100	89,250	108,700	102,600	64,960	38,920
13	47,600	46,400	47,600	49,000	50,000	51,400	61,530	91,000	109,600	101,300	64,100	38,540
14	47,400	46,400	47,600	49,000	50,200	51,400	61,740	92,520	110,600	99,990	63,040	38,540
15	47,400	46,400	47,600	49,000	50,200	51,400	62,180	93,800	111,700	98,950	61,960	38,540
16	47,400	46,400	47,600	49,000	50,200	51,400	62,600	95,330	112,500	97,650	61,100	38,540
17	47,400	46,400	47,800	49,200	50,400	51,600	63,460	96,610	113,400	96,350	60,020	38,360
18	47,200	46,400	47,800	49,200	50,400	51,800	63,880	97,390	114,500	95,080	58,950	38,360
19	47,200	46,400	47,800	49,200	50,400	51,800	64,530	98,430	115,300	94,500	57,880	38,360
20	47,200	46,400	47,800	49,200	50,400	51,800	64,960	99,210	115,900	92,520	56,800	38,360
21	47,200	46,400	47,800	49,400	50,400	52,000	65,600	100,200	116,200	91,250	55,800	38,360
22	47,200	46,400	48,000	49,400	50,600	52,000	66,250	101,000	116,200	90,000	54,800	38,360
23	47,200	46,600	48,000	49,400	50,800	52,000	67,110	101,300	116,200	88,750	53,800	38,360
24	47,200	46,800	48,200	49,400	50,800	52,400	67,770	101,600	116,200	87,500	52,800	38,360
25	47,000	46,800	48,200	49,400	50,800	52,800	68,230	101,600	115,900	86,010	51,800	38,360
26	47,000	46,800	48,400	49,600	50,800	53,200	69,160	101,600	115,600	84,810	50,800	38,360
27	47,000	46,800	48,400	49,600	50,800	53,600	69,850	101,600	115,600	83,610	49,800	38,180
28	47,000	46,800	48,400	49,600	51,000	54,000	71,000	101,600	115,000	82,410	48,800	38,180
29	47,000	47,000	48,600	49,600	51,000	54,400	72,380	101,300	114,500	80,970	48,000	38,180
30	47,000	47,000	48,600	49,600	-	54,600	73,760	101,000	113,900	79,530	47,000	38,180
31	47,000	-	48,600	49,600	-	54,800	-	101,000	-	77,900	46,000	-

Monthly gage height and contents, water year October 1943 to September 1944

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	29.70	48,200	-
Oct. 31.....	29.10	47,000	-1,200
Nov. 30.....	29.10	47,000	0
Dec. 31.....	29.90	48,600	+1,600
Calendar year 1943..	-	-	+19,450
Jan. 31.....	30.40	49,600	+1,000
Feb. 29.....	31.10	51,000	+1,400
Mar. 31.....	33.00	54,800	+3,800
Apr. 30.....	41.70	73,760	+18,960
May 31.....	52.80	101,000	+27,240
June 30.....	57.60	113,900	+12,900
July 31.....	43.50	77,900	-36,000
Aug. 31.....	28.60	46,000	-31,900
Sept. 30.....	24.50	38,180	-7,820
Water year 1943-44..	-	-	-10,020

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

SALMON FALLS CREEK BASIN

Salmon River Canal Co. Canal near Rogerson, Idaho

Location.- Water-stage recorder, lat. 42°15', long. 114°45', in sec. 7, T. 14 S., R. 15 E., half a mile downstream from Salmon River Canal Co. Reservoir and 7 miles west of Rogerson.

Records available.- April 1937 to September-1944.

Extremes.- Maximum discharge during year, 660 second-feet July 20-24; maximum gage height, 8.09 feet July 21; no flow during long periods.
1937-44: Maximum discharge, that of July 20-24, 1944; no flow during long periods in each year.

Remarks.- Records good except those for Oct. 1-24, which are poor. Canal diverts from Salmon River Canal Co. Reservoir for irrigation of lands in Salmon River Canal Co. project.

Cooperation.- Gage-height record furnished by Salmon River Canal Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0						0	350	495	627	0
2		0						0	350	495	616	0
3		0						0	99	506	594	0
4		0						0	0	506	572	251
5		0						0	0	506	539	360
6		0						0	0	517	517	370
7		0						0	0	517	506	390
8		0						0	0	517	506	390
9		172						0	0	517	495	400
10		220						0	0	539	495	390
11	a8	57						0	0	561	495	360
12		0						0	0	561	494	251
13		0						0	0	594	484	0
14		0					s	0	0	616	506	0
15		0						0	0	627	495	0
16		0						0	0	627	484	0
17		0						164	0	638	484	0
18		0						220	0	638	484	0
19		0						216	0	638	484	0
20		0						220	206	649	495	0
21		0						240	258	660	495	0
22	b8	0						276	276	660	506	0
23	a8	0						294	303	660	506	0
24	a3	0						312	312	660	495	0
25	0	0						312	350	649	506	0
26	0	0						321	370	649	506	0
27	0	0						321	420	649	506	0
28	0	0						321	481	649	506	0
29	0	0						350	473	658	506	0
30	0	0						350	473	658	506	0
31	0	0						350	-	658	559	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	187	-	0	6.0	371
November.....	449	220	0	16.0	891
December.....	0	0	0	0	0
Calendar year 1943	53,607	627	0	147	106,300
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	0	0	0	0	0
April.....	0	0	0	0	0
May.....	4,247	350	0	137	8,420
June.....	4,651	473	0	155	9,220
July.....	18,414	660	495	594	36,520
August.....	15,759	627	559	508	31,260
September.....	5,182	400	0	106	6,270
Water year 1943-44	46,869	660	0	128	92,908

a No gage-height record; discharge computed on basis of discharge measurement of Oct. 23 and information furnished by Salmon River Canal Co.

b Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Big Wood River at Hailey, Idaho

Location.- Water-stage recorder, lat. 43°31', long. 114°20', in SW $\frac{1}{4}$ sec. 9, T. 2 N., R. 18 E., at steel highway bridge a quarter of a mile southwest of Hailey.

Drainage area.- 640 square miles.

Records available.- June 1915 to September 1944.

Average discharge.- 29 years, 288 second-feet. Average combined discharge of Big Wood River and Big Wood Slough, 29 years, 408 second-feet.

Extremes.- Maximum discharge during year, 1,520 second-feet May 15 (gage height, 4.71 feet); minimum daily, 1 second-foot on many days Dec. 27 to Apr. 1.
1915-44 (river only): Maximum discharge, 4,480 second-feet June 7, 1938; maximum gage height, 8.86 feet June 12, 1921; practically no flow Sept. 15-23, Nov. 20, 22, 23, 1931, Oct. 25, 1937.
1915-44 (combined): Maximum daily discharge, 4,500 second-feet June 6, 7, 1938; minimum daily, 15 second-feet Dec. 27, 1921.

Remarks.- Records good except those below 10 second-feet, which are fair. Water diverted around station by Hailey power plant and returned to river through Big Wood Slough. Total flow of river at Hailey (combined flow of Big Wood River and Big Wood Slough) is given on following page. Diversions above station for irrigation.

Cooperation.- Water-stage recorder inspected and one discharge measurement furnished by Water District No. 7 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	70	4	2	2	1	1	596	904	1,300	173	14
2	47	70	3	2	2	1	2	500	826	1,230	173	59
3	47	80	4	2	2	1	3	562	772	1,020	176	115
4	46	89	3	2	2	2	45	640	658	937	165	117
5	49	102	3	3	a2	1	176	778	602	859	125	115
6	53	87	3	2	a2	1	188	982	618	820	108	113
7	52	84	2	2	a2	1	a177	978	634	718	102	113
8	50	93	4	2	a2	1	166	866	808	634	96	111
9	50	98	2	2	a2	1	160	852	1,060	682	94	111
10	52	89	2	a2	a2	2	160	814	1,030	596	89	111
11	91	72	2	a2	a2	2	186	852	1,060	530	84	111
12	84	59	2	a2	a2	2	238	878	1,030	530	80	111
13	74	56	2	a1	a2	1	186	1,030	1,030	510	77	84
14	70	50	2	a1	a2	1	159	1,250	1,060	480	56	20
15	69	49	2	1	a2	1	133	1,420	1,020	445	42	19
16	64	44	2	2	a2	1	129	1,410	969	430	37	20
17	61	36	2	1	a1	2	117	1,370	950	421	33	25
18	66	35	2	2	a1	1	94	1,170	872	385	30	26
19	66	35	2	1	a1	1	82	937	852	341	29	30
20	66	36	2	2	a1	1	94	778	970	365	a28	32
21	62	37	2	2	a1	1	91	688	1,030	349	28	26
22	82	35	2	2	a1	1	106	676	1,030	317	27	32
23	78	32	2	2	a1	1	117	602	937	394	26	24
24	89	31	2	2	a1	1	160	541	1,000	313	22	24
25	84	30	2	2	a1	1	173	480	1,210	251	18	21
26	65	30	2	2	a1	1	191	500	1,240	251	17	20
27	85	30	1	2	a1	1	224	485	1,250	246	16	20
28	123	30	1	1	1	1	254	525	1,020	216	11	20
29	128	14	2	2	1	1	357	624	950	193	8	19
30	104	4	2	2	-	1	490	808	1,090	274	10	23
31	91	-	2	2	-	1	-	937	-	229	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	2,233	123	47	72.0	4,430
November.....	1,605	102	4	53.5	3,180
December.....	70	4	1	2.3	139
Calendar year 1943.....	215,488	3,440	1	590	427,400
January.....	58	3	1	1.9	115
February.....	45	2	1	1.6	89
March.....	36	2	1	1.2	71
April.....	4,661	490	1	155	9,240
May.....	25,497	1,420	480	822	50,570
June.....	28,452	1,250	602	948	56,430
July.....	16,270	1,300	193	525	32,270
August.....	1,984	176	8	64.0	3,940
September.....	1,688	117	14	56.3	3,360
Water year 1943-44.....	82,599	1,420	1	226	163,800

a No gage-height record; discharge interpolated.

BIG WOOD RIVER BASIN

Combined discharge, in second-feet, of Big Wood River and Big Wood Slough at Hailey, Idaho,
water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	246	260	208	177	174	149	187	794	1,080	1,490	345	160
2	245	256	193	184	174	151	203	693	996	1,400	341	168
3	248	264	216	159	171	151	231	633	940	1,180	350	151
4	246	271	207	127	174	162	284	686	826	1,110	330	151
5	251	282	212	149	166	141	374	322	770	1,030	309	147
6	274	265	191	172	159	126	378	1,020	786	1,010	298	145
7	267	259	195	149	156	127	369	1,080	803	920	288	145
8	265	265	216	142	158	142	356	1,060	977	827	280	142
9	260	267	168	156	162	156	340	1,050	1,220	787	275	143
10	256	259	156	162	166	168	340	996	1,200	760	271	142
11	298	258	162	162	149	162	379	1,030	1,240	684	264	142
12	288	257	164	168	162	162	431	1,070	1,210	680	256	142
13	275	254	164	177	160	165	376	1,220	1,220	650	251	143
14	269	246	164	177	166	151	347	1,420	1,210	630	244	154
15	271	243	164	181	156	155	321	1,600	1,210	598	245	159
16	268	242	162	180	159	165	316	1,600	1,180	576	231	164
17	263	244	166	179	158	174	304	1,550	1,140	564	221	176
18	271	240	178	177	158	177	288	1,550	1,060	529	212	180
19	270	239	184	175	161	177	284	1,100	1,040	497	209	190
20	267	238	192	172	158	173	299	947	1,160	537	208	188
21	283	238	195	171	155	161	292	863	1,220	515	208	179
22	280	236	184	172	159	165	309	860	1,220	470	202	176
23	274	235	183	177	168	173	326	774	1,130	474	195	170
24	287	229	178	174	162	169	363	710	1,200	443	185	170
25	283	217	192	177	151	158	390	650	1,420	420	184	167
26	283	208	176	174	158	158	401	687	1,450	416	181	161
27	283	196	152	168	168	158	428	671	1,460	412	170	160
28	321	204	128	155	155	151	493	713	1,210	387	168	157
29	317	192	142	168	158	165	562	835	1,140	368	156	158
30	298	200	159	162	-	173	691	1,030	1,280	345	167	164
31	283	-	174	171	-	175	-	1,120	-	367	158	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	8,490	321	245	274	16,840
November.....	7,262	282	192	242	14,400
December.....	5,524	216	128	178	10,960
Calendar year 1943	283,556	3,610	111	776	562,000
January.....	5,193	184	127	168	10,300
February.....	4,691	174	138	158	9,110
March.....	4,939	177	126	159	9,800
April.....	10,661	691	187	356	21,150
May.....	30,630	1,600	633	988	60,750
June.....	33,998	1,460	770	1,133	67,430
July.....	21,065	1,490	345	680	41,780
August.....	7,409	350	158	239	14,700
September.....	4,793	190	142	160	9,510
Water year 1943-44	144,555	1,600	126	395	286,700

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Big Wood River near Bellevue, Idaho

Location.— Water-stage recorder, lat. 43°19', long. 114°21', in sec. 20, T. 1 S., R. 18 E., 1½ miles upstream from flow line of Magic Reservoir, 3 miles upstream from Camas Creek, and 10 miles southwest of Bellevue.

Drainage area.— 823 square miles.

Records available.— July 1911 to September 1944 (except winters of 1942 and prior to 1940).

Extremes.— Maximum discharge during year, 1,260 second-feet June 27 (gage height, 3.47 feet); minimum, 56 second-feet Sept. 9, 10 (gage height, 1.71 feet).
1911-44: Maximum discharge recorded, 3,660 second-feet June 16, 1921 (gage height, 6.07 feet), from rating curve extended above 2,800 second-feet; minimum recorded, 7 second-feet Apr. 14, 1932 (gage height, 1.10 feet).

Remarks.— Records good except those for periods of ice effect or no gage-height record, which are fair. Many diversions above station for irrigation.

Cooperation.— Water-stage recorder inspected and five discharge measurements furnished by Water District No. 7 AB.

Rating table, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.7	54	2.1	170	2.6	625
1.8	75	2.2	216	3.0	796
1.9	101	2.4	329	3.2	980
2.0	132	2.6	467	3.4	1,180

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	98	202	162	129	104	98	123	424	475	787	113	69
2	96	216	159	140	101	98	123	458	445	796	116	71
3	93	216	162	b120	96	98	122	409	424	692	120	71
4	91	227	162	b100	101	101	136	395	362	584	120	75
5	91	237	159	91	101	98	159	445	329	513	110	75
6	91	237	159	98	101	98	175	560	a400	445	110	73
7	88	232	151	b85	101	98	162	659	a600	402	110	73
8	86	227	159	b76	101	91	162	692	a700	349	107	71
9	86	227	151	b70	104	96	164	692	a750	323	101	67
10	83	227	156	b70	104	101	179	675	a700	305	101	56
11	91	221	132	b65	98	107	175	667	a750	269	96	62
12	93	216	132	b60	96	104	227	684	684	287	83	64
13	91	216	132	58	96	104	221	726	667	264	88	67
14	91	211	132	58	98	101	207	832	667	242	91	71
15	93	211	132	*58	98	98	188	1,010	667	232	93	71
16	93	211	136	64	96	101	184	1,080	650	227	91	75
17	96	*207	132	80	98	107	179	1,030	642	198	85	83
18	104	202	136	91	101	120	175	933	576	179	83	91
19	129	202	140	93	b95	126	162	735	506	193	80	93
20	140	198	147	b95	b95	126	179	617	529	216	80	91
21	136	202	151	96	98	126	193	490	584	227	78	91
22	162	207	151	98	101	126	193	431	617	211	71	86
23	170	202	143	101	98	132	175	376	584	198	75	85
24	184	198	147	104	98	136	175	323	562	188	76	85
25	184	188	151	107	96	129	168	232	877	175	69	83
26	179	179	147	110	96	116	188	221	1,040	147	67	80
27	175	175	132	110	96	113	193	237	1,150	126	75	75
28	188	170	113	b100	96	93	221	248	761	143	71	73
29	221	166	104	96	101	98	258	269	584	129	69	73
30	207	162	116	b100	-	120	317	349	625	120	69	75
31	198	-	123	104	-	129	-	445	-	120	71	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	3,926	221	83	127	7,790
November	6,192	237	162	206	12,280
December	4,399	162	104	142	8,710
Calendar year 1943	207,282	2,390	55	568	411,200
January	2,326	140	58	91.2	5,610
February	2,365	104	96	90.6	5,630
March	3,397	136	91	109	6,720
April	5,227	317	123	184	10,960
May	17,323	1,080	221	559	34,360
June	18,897	1,150	329	630	37,480
July	9,297	796	120	300	18,420
August	2,768	120	67	89.3	5,490
September	2,277	93	58	75.9	4,520
Water year 1943-44	79,664	1,150	58	218	158,000

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of storage changes in Magic Reservoir and records for Big Wood River below Magic Dam, near Richfield, and Camas Creek near Blaine.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG WOOD RIVER BASIN

Magic Reservoir near Richfield, Idaho

Location.- Staff gage at dam on Big Wood River, lat. 43°15', long. 114°22', in NE 1/4 Sec. 18, T. 2 S., R. 18 E., 18 miles northwest of Richfield. Datum of gage is 4,800 feet above datum of Idaho Irrigation Co., which is reported to be about 137 feet below mean sea level.

Drainage area.- 1,500 square miles.

Records available.- February to April 1909 (gage heights only), April 1909 to September 1944.

Extremes.- Maximum observed contents during year, 193,500 acre-feet June 26-28 (gage height, 135.5 feet); minimum observed, 108,000 acre-feet Sept. 30 (gage height, 108.5 feet).

1909-44: Maximum observed contents, that of June 26-28, 1944; no storage for several days in 1909, 1919, 1920, 1924, 1928, 1935.

Remarks.- Reservoir is formed by earth- and rock-fill dam, completed in 1909, and raised 5 feet in 1917. Capacity, 191,500 acre-feet, between gage heights 21.4 feet (2.9 feet above bottom of outlet pipe) and 135.0 feet (top of 5-foot flashboards). Dead storage unknown. Water is used for irrigation of lands in Carey Act project of Big Wood Canal Co. Figures given herein represent useable contents including bank storage. Contents computed from morning reading.

Cooperation.- Gage-height record and yield table furnished by Water District No. 7 AB.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	136,200	144,100	152,000	162,000	169,000	176,300	174,800	191,900	185,300	192,300	163,700	130,800
2	136,500	144,700	152,000	162,400	169,000	176,600	173,700	191,900	184,900	192,300	162,700	129,900
3	136,500	145,000	152,500	163,700	169,400	177,000	175,000	192,300	184,500	192,300	161,700	129,100
4	136,500	145,600	153,000	163,700	169,700	177,400	175,600	192,300	184,100	192,300	160,800	128,500
5	136,800	146,200	153,500	163,000	169,700	177,400	172,600	192,300	183,800	191,500	168,900	127,400
6	136,800	146,600	153,600	163,400	170,100	177,700	173,000	192,700	183,400	191,100	157,900	126,600
7	137,100	146,900	154,000	163,400	170,400	177,700	173,000	192,700	183,400	190,700	156,800	126,800
8	137,400	147,200	154,500	163,700	170,400	178,100	173,700	192,700	183,400	189,900	155,300	124,900
9	137,400	147,800	154,600	163,700	171,200	178,500	175,200	192,700	183,800	189,200	154,000	124,100
10	137,700	148,500	154,900	163,700	171,200	178,500	176,300	192,700	184,500	188,400	153,300	123,200
11	137,700	148,800	155,300	163,700	171,500	178,900	177,700	192,700	185,300	187,200	152,300	122,500
12	138,000	149,400	155,600	164,100	171,900	179,200	179,200	192,700	186,800	186,100	151,300	121,400
13	138,000	149,700	155,900	164,100	171,900	179,200	181,100	192,700	188,000	185,300	150,100	120,600
14	138,300	150,100	156,300	164,400	172,200	179,200	182,600	192,700	188,300	184,500	148,800	119,800
15	138,600	149,700	156,600	164,400	172,600	179,600	184,100	192,700	189,900	183,400	147,500	119,000
16	139,600	149,400	156,800	164,800	172,600	180,000	185,300	192,700	191,100	182,600	146,200	117,900
17	139,900	149,100	156,900	164,800	173,000	180,000	186,400	192,700	191,900	181,500	145,000	116,800
18	139,900	149,100	157,300	165,100	173,300	180,700	187,600	192,300	192,700	180,400	144,100	116,000
19	139,200	149,100	157,600	165,100	173,300	180,700	188,400	192,300	192,700	179,600	143,100	115,600
20	139,500	149,400	157,900	165,500	173,700	180,700	189,200	192,300	192,700	178,100	141,900	115,000
21	139,800	149,700	158,300	165,800	174,100	181,500	189,900	192,300	193,100	177,400	140,700	114,200
22	140,100	149,700	158,600	166,200	174,400	181,900	191,900	192,300	193,100	175,900	139,300	113,400
23	140,400	149,700	158,900	166,500	174,400	182,200	192,300	191,500	193,100	174,800	138,300	112,600
24	140,700	149,700	159,300	166,500	174,800	182,600	192,300	191,100	193,100	173,700	137,700	112,100
25	141,000	149,400	159,600	166,900	175,200	183,000	192,300	190,500	193,100	172,600	136,500	111,600
26	141,600	150,100	160,300	167,200	175,500	183,000	191,900	189,500	193,500	171,200	135,000	110,900
27	142,200	150,400	160,600	167,600	175,500	181,500	192,300	188,800	193,500	169,700	135,100	110,100
28	142,500	150,700	160,600	167,600	175,900	180,000	192,700	188,000	193,500	168,700	134,200	109,300
29	143,100	151,000	161,000	168,000	175,900	178,500	192,700	187,200	193,100	167,600	133,500	108,800
30	143,500	151,300	161,500	168,300	-	177,000	191,900	186,400	192,700	166,500	132,200	108,000
31	143,800	-	161,700	168,700	-	175,500	-	185,700	-	165,100	131,400	-

Monthly gage height and contents, water year October 1943 to September 1944

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	118.9	136,200	-
Oct. 31.....	121.4	143,900	+7,600
Nov. 30.....	123.8	151,300	+7,500
Dec. 31.....	126.9	161,700	+10,400
Calendar year 1943.....	-	-	+29,500
Jan. 31.....	128.9	169,700	+7,000
Feb. 29.....	130.9	175,900	+7,200
Mar. 31.....	130.8	175,500	-400
Apr. 30.....	135.1	191,900	+16,400
May 31.....	133.5	185,700	-6,200
June 30.....	135.3	192,700	+7,000
July 31.....	127.9	165,100	-27,600
Aug. 31.....	117.2	131,400	-33,700
Sept. 30.....	108.5	108,000	-23,400
Water year 1943-44.....	-	-	-28,200

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Big Wood River below Magic Dam, near Richfield, Idaho

Location.- Water-stage recorder, lat. 43°14', long. 114°22', in sec. 18, T. 2 S., R. 18 E., half a mile downstream from Magic Dam and 18 miles northwest of Richfield.

Records available.- April 1911 to September 1944.

Average discharge.- 32 years (1912-44), 403 second-feet.

Extremes.- Maximum discharge during year, 1,490 second-feet (regulated) May 17 (gage height, 5.26 feet); minimum, 13 second-feet (regulated) Jan. 28-31; minimum gage height, 1.21 feet Sept. 30.
1911-44: Maximum discharge, 7,160 second-feet Apr. 13, 1943 (gage height, 13.31 feet); no flow Feb. 3, 1915.

Remarks.- Records good except those for Nov. 25 to Feb. 29, which are fair. Many ranch diversions in upper drainage area. Flow regulated by Magic Reservoir (see p. 98).

Cooperation.- Water-stage recorder inspected and eight discharge measurements furnished by Water District No. 7 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	15	27	23	15	34	1,020	687	774	812	741	514
2	22	16	26	23	16	34	1,040	624	752	818	741	514
3	20	16	26	20	15	35	1,030	686	708	812	719	514
4	20	16	26	17	15	36	936	656	645	802	692	514
5	19	16	26	18	15	36	870	676	614	785	681	514
6	18	15	25	18	15	36	870	725	604	780	681	514
7	18	16	25	18	15	37	593	882	609	763	671	524
8	18	15	24	18	15	38	24	1,020	629	768	686	529
9	18	15	24	19	15	39	24	995	568	768	680	529
10	18	16	24	19	15	39	23	990	476	763	660	524
11	18	16	24	20	16	41	25	975	412	758	660	524
12	17	15	24	19	16	41	25	970	385	746	655	539
13	17	16	24	19	16	41	26	975	390	746	650	544
14	17	271	24	18	16	41	27	1,000	376	746	650	544
15	17	435	24	18	16	42	26	1,200	372	746	650	544
16	17	372	24	18	17	44	28	1,440	394	746	650	524
17	16	325	24	16	17	45	28	1,400	471	752	654	514
18	16	317	24	15	17	46	25	1,240	598	752	629	495
19	16	133	23	16	17	46	30	1,000	698	752	624	4481
20	16	30	24	17	17	48	34	858	698	752	624	4471
21	16	171	23	17	21	49	31	752	725	752	614	4471
22	18	269	23	17	23	51	239	746	752	763	593	4453
23	16	254	25	17	25	52	692	708	790	763	588	439
24	16	254	23	15	28	52	845	730	790	763	583	439
25	15	107	23	14	29	260	854	730	824	763	573	439
26	15	29	23	13	30	798	534	725	1,200	746	573	439
27	15	28	24	13	30	1,050	476	719	1,280	736	544	453
28	16	28	23	13	30	1,030	671	741	1,180	736	529	476
29	16	28	23	13	31	1,020	900	763	918	731	534	481
30	15	27	23	13	-	1,000	752	768	790	741	514	199
31	15	-	23	13	-	995	-	774	-	746	505	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	532	23	15	17.2	1,060
November.....	3,261	435	15	109	6,610
December.....	742	27	23	23.9	1,470
Calendar year 1943	374,308	7,050	13	1,026	742,500
January.....	527	23	13	17.0	1,050
February.....	563	31	15	19.4	1,120
March.....	7,156	1,060	34	231	14,190
April.....	12,663	1,040	23	423	26,150
May.....	27,145	1,440	24	876	53,840
June.....	20,422	1,280	372	681	40,510
July.....	23,606	818	730	761	46,820
August.....	19,488	741	505	629	38,650
September.....	14,659	544	199	489	29,090
Water year 1943-44	130,804	1,440	13	357	259,500

f Computed on basis of partly estimated gage-height record.

h Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG WOOD RIVER BASIN

Big Wood River at Gooding, Idaho

Location.- Water-stage recorder, lat. 42°57', long. 114°43', in NE¼ sec. 31, T. 5 S., R. 15 E., 30 feet downstream from highway bridge and half a mile north of Gooding.

Records available.- June 1896 to October 1899 (published as Malade River at Toponis) April 1921 to September 1944, except for winters.

Extremes.- Maximum discharge during year, 920 second-feet Apr. 30 (gage height, 4.30 feet); no flow for long periods.
1921-44: Maximum discharge recorded, 5,120 second-feet Apr. 13, 1943 (gage height, 10.21 feet); no flow for long periods in each year.

Remarks.- Records good except those for Mar. 27, Apr. 10-21, July 23 to Aug. 1, which are fair. Many diversions above and below station for irrigation. Flow regulated by Magic Reservoir (see p. 98) and affected by deliveries from Milner-Gooding canal which diverts from Snake River.

Cooperation.- Water-stage recorder graph and four discharge measurements furnished by Water District No. 7 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14					-	620	820	83	81	f59	31
2						-	620	702	85	85	64	32
3		10.2				-	640	680	97	78	61	39
4						-	640	680	99	72	64	45
5						-	548	560	86	83	62	46
6						-	391	532	81	81	f59	46
7						-	364	544	85	70	f57	44
8						-	258	620	103	72	f59	46
9						-	48	702	240	70	f65	46
10						-	e6	640	197	65	f59	50
11						-	a2	600	155	64	59	54
12						-	12	580	162	64	61	52
13						-	e22	520	116	57	59	49
14						-	15	412	116	52	59	49
15						-	12	357	124	52	56	56
16							10	452	f134	54	59	64
17							12	536	f132	53	64	86
18				10		-	10	496	126	53	65	93
19						-	12	360	124	50	59	95
20						-	11	220	130	52	57	106
21						-	52	f142	142	54	54	97
22						-	101	73	161	54	56	97
23						-	39	61	183	f53	52	92
24						-	159	81	142	f59	42	73
25						-	528	f72	f120	f59	34	62
26						-	488	76	106	f65	31	65
27						h16	f280	73	f240	f65	31	62
28						h640	266	68	433	f64	31	61
29						h640	560	72	338	f69	31	64
30						620	870	78	178	f64	28	62
31						620	-	78	-	f61	31	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....					
November.....					
December.....					
Calendar year					
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March 27-31.....	2,536	640	16	507	5,030
April.....	7,566	870	1	252	15,000
May.....	11,847	820	61	382	23,500
June.....	4,508	433	81	150	8,940
July.....	1,944	63	50	62.7	3,860
August.....	1,628	65	28	52.5	3,230
September.....	1,864	106	31	62.1	3,700
Water year	-	-	-	-	-

† Field estimate.

a No gage-height record; discharge estimated.

e Computed on basis of gage height for partial day and information furnished by watermaster.

f, Computed on basis of partly estimated gage heights.

h Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG WOOD RIVER BASIN

101

Big Wood River near Gooding, Idaho

Location.- Water-stage recorder, lat. $42^{\circ}54'$, long. $114^{\circ}48'$, in sec. 21, T. 6 S., R. 14 E., at Hudson Ranch, 2 miles downstream from bridge on Bliss-Gooding highway, $3\frac{1}{2}$ miles downstream from Little Wood River, 5 miles upstream from diversion dam for King Hill project, and 6 miles southwest of Gooding.

Records available.- March 1916 to September 1943 (fragmentary 1922-37, 1941, 1942).

Extremes.- Maximum discharge during year, 942 second-feet Apr. '30 (gage height, 5.87 feet); minimum, 22 second-feet July '20 (gage height, 1.15 feet).
1916-44: Maximum discharge, 5,220 second-feet Apr. 14, 1943 (gage height, 9.80 feet); no flow at times in many years.

Remarks.- Records good except those for periods of ice effect, which are poor. Diversions above and below station for irrigation. Flow regulated by Magic Reservoir (see p. 98) and affected by deliveries from canals diverting from Snake River at Milner.

Cooperation.- Two discharge measurements furnished by Water District No. 7 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	153	110	146	139	164	650	814	64	94	55	42
2	97	158	106	145	150	164	647	754	90	44	63	30
3	81	120	112	130	166	155	634	727	152	70	71	33
4	73	97	116	110	171	163	627	738	199	84	75	49
5	73	110	116	106	177	142	567	647	176	57	73	67
6	44	171	114	110	176	128	413	616	145	94	69	67
7	44	168	113	100	168	130	361	584	158	103	70	60
8	51	174	113	95	164	140	420	650	185	91	63	56
9	60	180	*107	95	161	163	204	706	436	80	64	h46
10	69	188	67	100	160	189	118	686	436	71	63	h42
11	69	124	100	110	140	182	91	624	h410	56	63	h42
12	71	153	98	115	135	219	118	606	366	52	69	h42
13	80	140	85	130	140	199	221	539	347	46	71	h39
14	84	144	71	140	145	164	158	397	329	41	69	h33
15	90	145	86	140	140	119	137	343	304	86	69	h42
16	94	206	108	140	120	*128	126	378	295	106	69	h88
17	106	201	114	160	110	128	126	501	304	43	71	126
18	112	194	130	180	120	131	107	488	293	32	77	164
19	106	213	152	170	110	152	103	364	276	26	78	176
20	107	204	146	165	130	140	137	214	271	24	65	199
21	104	126	152	165	160	126	341	155	282	36	62	176
22	106	80	145	165	161	110	420	78	287	41	63	164
23	104	76	139	160	156	108	233	57	319	34	85	160
24	106	160	120	160	161	110	218	36	267	45	93	134
25	106	166	116	*160	155	113	584	32	216	57	93	113
26	107	194	110	150	156	122	615	60	185	64	82	120
27	114	192	110	140	150	211	438	63	223	67	73	110
28	125	128	95	130	156	653	333	54	472	65	69	98
29	124	110	90	120	158	676	534	53	404	54	65	104
30	118	113	93	120	-	663	837	54	238	54	56	118
31	128	-	139	122	-	656	-	60	-	60	52	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	2,822	128	44	91.0	5,600
November.....	4,597	213	76	153	9,120
December.....	3,451	182	67	111	5,840
Calendar year 1943	253,589	5,160	29	695	503,000
January.....	4,180	180	95	135	8,290
February.....	4,325	177	110	149	8,580
March.....	6,648	676	108	214	13,190
April.....	10,517	837	91	351	20,360
May.....	12,079	814	32	390	23,960
June.....	8,131	472	64	271	16,130
July.....	1,911	108	24	61.6	3,790
August.....	2,160	95	52	69.7	4,280
September.....	2,712	199	30	90.4	5,380
Water year 1943-44	63,533	837	24	174	126,000

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated.

h Computed from staff-gage readings.

Note.- Stage-discharge relation affected by ice Dec. 11-13, 25-29, Jan. 3-30, Feb. 10-20.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG WOOD RIVER BASIN

Warm Springs Creek at Guyer Hot Springs, near Ketchum, Idaho

Location.- Water-stage recorder, lat. $43^{\circ}41'$, long. $114^{\circ}25'$, in NE $\frac{1}{4}$ sec. 15, T. 4 N., R. 17 E., at Guyer Hot Springs, 2 $\frac{1}{8}$ miles upstream from mouth and 2.2 miles west of Ketchum.

Drainage area.- 96 square miles.

Records available.- November 1940 to September 1944. May 1920 to September 1921 at site a quarter of a mile downstream, published as Warm Springs Creek near Ketchum; records not equivalent.

Extremes.- Maximum discharge during year, 410 second-feet May 14 (gage height, 2.65 feet); minimum, 6 second-feet Feb. 29 (gage height, 0.55 foot), ice jam upstream; minimum daily, 27 second-feet Jan. 4, Mar. 5.

1940-44: Maximum discharge, 696 second-feet May 30, 1943 (gage height, 3.36 feet); minimum, that of Feb. 29, 1944.

Remarks.- Records good. Diversions above and below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	42	41	37	54	31	44	184	230	137	57	39
2	46	44	38	37	33	30	48	137	215	133	58	41
3	46	46	41	30	34	32	57	125	200	125	58	41
4	46	50	39	27	34	34	75	147	178	122	57	40
5	46	55	40	38	33	27	85	205	171	116	56	40
6	46	45	35	40	34	29	73	221	173	110	53	39
7	46	42	39	31	33	30	73	a220	173	105	52	37
8	46	47	40	34	33	38	76	a218	202	102	51	37
9	46	47	31	35	35	69	69	a217	259	97	51	36
10	46	45	35	35	29	35	68	216	259	95	50	35
11	55	45	36	34	33	33	78	236	269	92	50	35
12	50	45	36	36	29	35	78	262	253	90	48	34
13	49	45	38	36	32	34	68	314	244	87	47	34
14	46	44	36	36	35	32	81	345	238	84	47	34
15	46	44	36	35	31	33	58	366	236	82	47	35
16	46	42	36	35	34	35	57	348	227	79	47	37
17	46	44	37	35	33	37	53	328	210	76	46	39
18	46	44	38	35	32	38	52	278	197	75	45	40
19	47	44	39	34	30	39	51	241	187	75	45	40
20	47	44	39	33	28	37	53	216	192	76	45	39
21	48	44	39	34	35	35	51	205	187	73	44	38
22	47	42	36	35	33	38	56	205	183	71	44	38
23	47	44	39	35	33	38	80	183	173	59	42	38
24	50	42	37	33	31	37	69	169	169	68	40	38
25	48	42	38	37	30	35	73	158	166	65	40	37
26	48	38	33	a36	33	36	81	153	173	55	40	36
27	50	35	31	a36	32	34	90	162	171	65	40	36
28	58	41	32	a34	32	33	105	171	153	62	39	35
29	53	38	36	a33	34	37	118	167	143	60	39	37
30	51	41	37	a34	-	38	151	219	137	65	39	37
31	48	-	36	35	-	39	-	220	-	60	39	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,485	58	46	47.9	2,950
November.....	1,314	55	38	43.8	2,610
December.....	1,142	41	31	36.8	2,270
Calendar year 1943.....	51,483	674	26	141	102,100
January.....	1,077	40	27	34.7	2,140
February.....	942	35	26	32.5	1,870
March.....	1,071	39	27	34.5	2,120
April.....	2,129	151	44	71.0	4,220
May.....	6,849	356	125	221	13,580
June.....	5,959	259	137	199	11,880
July.....	2,674	137	58	86.3	5,300
August.....	1,456	58	32	47.0	2,890
September.....	1,123	41	34	37.4	2,250
Water year 1943-44.....	27,221	356	27	74.4	54,000

a No gage-height record; discharge interpolated or computed on basis of records for Big Wood River near Bellevue.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Big Wood Slough at Hailey, Idaho

Location.— Water-stage recorder, lat. 43°31'00", long. 114°19'30", in sec. 9, T. 2 N., R. 18 E., at highway bridge, an eighth of a mile northeast of steel highway bridge over Big Wood River and an eighth of a mile southwest of Hailey.

Records available.— June 1915 to September 1944.

Average discharge.— 29 years, 120 second-feet.

Extremes (regulated).— Maximum discharge during year, 266 second-feet June 26 (gage height, 3.40 feet); minimum, 10 second-feet May 6 (gage height, 1.33 feet); minimum daily, 31 second-feet Sept. 8, 10-12.

1915-44: Maximum discharge observed, 419 second-feet June 6, 1921, from rating curve extended above 280 second-feet; maximum gage height, 5.55 feet (top of ice in well) Jan. 20-23, 1937; no flow May 8, 1931, Oct. 20 to Nov. 3, 1938.

Remarks.— Records good. Flow affected by Hailey power plant half a mile upstream. Big Wood Slough, a natural channel of Big Wood River, is utilized as a tailrace for the power plant, and its discharge plus the discharge of Big Wood River at Hailey (see p. 96) is total discharge of river at this point.

Cooperation.— Water-stage recorder inspected and one discharge measurement furnished by Water District No. 7 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	198	190	204	175	172	148	166	198	176	166	172	146
2	198	186	190	181	172	150	201	193	170	169	168	109
3	201	184	212	157	189	150	228	81	168	158	174	36
4	198	182	204	125	172	160	239	45	a168	189	175	34
5	202	180	209	146	164	140	198	44	a168	175	184	32
6	221	178	188	170	157	125	190	40	a168	194	190	32
7	215	175	193	147	154	126	192	101	a169	202	186	32
8	215	172	212	140	156	141	190	192	a169	193	184	31
9	210	169	166	153	160	154	190	194	a169	106	181	32
10	204	170	153	160	154	166	190	181	h169	154	182	31
11	207	186	160	160	147	160	193	180	a175	154	180	31
12	204	196	162	166	150	180	195	188	a180	150	176	31
13	201	199	162	176	148	164	190	196	a186	140	174	59
14	199	196	162	176	164	160	188	186	192	150	186	134
15	202	194	162	180	154	154	188	176	184	153	201	140
16	204	196	160	178	157	164	186	186	196	146	194	144
17	202	209	164	178	157	172	167	187	192	143	188	150
18	206	208	176	175	157	176	184	176	187	144	182	154
19	204	204	182	174	150	176	202	164	187	156	180	160
20	201	202	190	170	137	172	206	189	195	172	180	156
21	201	201	193	169	154	160	201	175	193	166	180	151
22	198	201	182	170	158	164	201	174	194	153	175	144
23	196	201	181	175	157	172	209	172	190	80	169	146
24	198	198	175	172	151	168	213	169	196	130	163	145
25	199	187	190	175	150	157	217	170	206	169	166	146
26	198	178	174	172	157	157	210	187	210	164	164	141
27	198	166	151	166	157	157	204	186	207	164	154	140
28	198	174	127	154	154	150	209	188	193	169	157	137
29	194	176	140	166	157	164	206	209	167	175	157	139
30	194	196	157	160	-	172	201	221	193	71	157	141
31	192	-	172	169	-	174	-	178	-	138	144	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	6,257	221	192	202	12,410
November.....	5,657	209	166	189	11,220
December.....	5,454	212	127	176	10,820
Calendar year 1943.....	67,900	223	110	186	134,700
January.....	5,135	181	125	166	10,190
February.....	4,546	172	137	157	9,020
March.....	4,903	176	125	158	9,720
April.....	5,000	239	166	200	11,900
May.....	5,096	221	40	164	10,110
June.....	5,544	210	168	185	11,000
July.....	4,792	202	71	155	9,500
August.....	5,425	201	144	176	10,760
September.....	5,106	180	31	104	8,160
Water year 1943-44.....	61,914	239	31	169	122,800

a No gage-height record; discharge interpolated.

h Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Camas Creek near Blaine, Idaho

Location.- Water-stage recorder, lat. 43°20', long. 114°33', in sec. 15, T. 1 S., R. 16 E., a quarter of a mile north of Macon siding on Hill City branch of Oregon Short Line Railroad, three-eighths of a mile downstream from Willow Creek, 2½ miles upstream from backwater of Magic Reservoir, and 4 miles southeast of Blaine.

Drainage area.- 618 square miles.

Records available.- May 1912 to September 1944 except for winters. Discharge measurement only for 1922.

Extremes.- Maximum discharge during year, 810 second-feet Apr. 4 (gage height, 4.90 feet); minimum recorded, 3.3 second-feet Sept. 8 (gage height, 0.92 foot).
1912-44: Maximum discharge recorded, 9,780 second-feet Apr. 8, 1943; maximum gage height, 15.48 feet Apr. 18, 1938, from floodmark; minimum discharge recorded, 1.5 second-feet Aug. 29, 1940.

Remarks.- Records good except those below 10 second-feet, which are fair. Many small diversions above station; no appreciable regulation.

Cooperation.- Five discharge measurements furnished by Water District No. 7 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.7	16	24			-	281	333	72	71	5.6	3.6
2	8.5	16	23			-	442	308	53	62	6.0	3.8
3	8.5	16	24			-	722	288	86	53	6.7	3.8
4	8.5	18	24			-	792	282	94	42	6.4	3.8
5	8.7	21	24			-	740	250	90	36	5.6	3.8
6	8.7	21	25			-	606	253	82	32	6.0	3.8
7	9.0	22	25			-	529	257	73	27	5.1	3.8
8	9.2	22	22			-	428	260	82	22	4.8	3.6
9	9.5	22	19			-	366	260	123	20	4.6	3.5
10	10	22	-			-	414	253	176	19	4.4	3.6
11	12	22	-			-	559	244	237	19	4.3	3.6
12	12	23	-			-	574	235	281	16	4.0	3.6
13	12	24	-			-	574	233	273	13	4.0	3.6
14	12	24	-			-	590	235	244	10	3.8	3.6
15	13	24	-			42	456	237	213	9.5	4.0	3.6
16	13	24	-			37	386	233	191	9.2	3.8	3.8
17	12	24	-			41	325	228	177	9.2	4.0	4.1
18	13	24	-			49	281	216	168	9.2	4.3	4.4
19	15	24	-			78	253	203	153	9.5	4.1	4.6
20	15	24	-			83	257	189	141	9.8	4.0	4.8
21	17	24	-			73	341	188	136	9.5	4.0	4.6
22	17	24	-			82	514	152	136	9.2	4.0	4.4
23	17	24	-			112	590	136	134	9.0	4.0	4.4
24	18	24	-			129	559	126	123	8.2	3.8	4.6
25	17	24	-			121	500	114	110	7.7	3.6	4.4
26	17	24	-			99	400	97	106	7.7	3.6	4.3
27	16	24	-			85	386	87	104	7.7	3.6	4.3
28	20	25	-			85	350	74	100	6.9	3.6	4.3
29	22	24	-			94	300	63	90	6.7	3.8	4.5
30	19	24	-			164	328	58	81	6.4	3.8	4.4
31	17	-	-			230	-	60	-	6.0	3.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	415.6	22	8.5	13.4	624
November	672	24	16	22.4	1,330
December 1-9	210	25	19	23.3	417
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 15-31	1,604	230	37	94.4	3,120
April	13,843	792	253	461	27,480
May	6,109	333	58	197	12,120
June	4,176	281	72	139	8,280
July	583.4	71	6.0	18.8	1,160
August	136.7	6.7	3.6	4.41	271
September	120.8	4.8	3.6	4.03	240
Water year	-	-	-	-	-

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Lincoln Canal near Richfield, Idaho

Location.— Water-stage recorder, lat. 43°10', long. 114°19', in sec. 9, T. 3 S., R. 18 E., at head of canal, 100 yards east of Shoshone-Hailey highway, 5½ miles downstream from Magic Dam, and 12 miles northwest of Richfield.

Records available.— April 1925 to September 1944 (prior to 1937, irrigation seasons only).

Extremes.— Maximum discharge during year, 267 second-feet Nov. 14-16; maximum gage height, 2.52 feet Sept. 29; no flow for long periods.
1925-44: Maximum discharge, 706 second-feet May 28, 1927 (gage height, 4.00 feet), from rating curve extended above 600 second-feet; no flow during long periods in each year.

Remarks.— Records good except those for November, which are fair. Canal diverts water from right bank of Big Wood River in sec. 9, T. 3 S., R. 18 E., from which point it approximately parallels river for 10 miles to head of North Gooding Canal in sec. 15, T. 4 S., R. 18 E., where water is either diverted into North Gooding Canal or returned to Big Wood River. Canal is used to avoid large channel losses in natural bed of river. No diversions above station.

Cooperation.— Water-stage recorder graph and 10 discharge measurements furnished by Water District No. 7 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0						61	201	252	161	156
2		0						103	194	252	161	157
3		0						101	177	250	162	157
4		0						101	145	243	159	161
5		0						100	154	224	153	159
6		0						120	149	233	156	156
7		0						142	162	228	157	154
8		0						144	167	224	157	156
9		0						142	176	214	159	154
10		0						140	144	206	161	153
11		0						140	158	205	161	151
12		0						140	126	192	164	153
13		0						139	120	192	165	156
14		e94						139	151	187	162	161
15		267						140	124	189	164	162
16		266						142	122	189	165	164
17		264						142	133	187	161	165
18		260						139	156	189	155	167
19		161						134	156	187	159	164
20		0						130	172	196	157	159
21		0						124	184	205	157	151
22		0						170	217	205	150	151
23		0						201	217	205	145	150
24		0						206	219	205	146	150
25		0						205	217	203	146	148
26		0						194	228	194	146	146
27		0						192	233	184	145	148
28		0						191	230	184	142	150
29		0						201	224	184	145	150
30		0						201	232	182	151	102
31		-						199	-	166	154	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	0	0	0	0	0
November.....	1,312	267	0	43.7	2,600
December.....	0	0	0	0	0
Calendar year 1943.....	-	-	-	-	-
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	0	0	0	0	0
April.....	0	0	0	0	0
May.....	4,821	206	61	149	9,170
June.....	5,240	223	120	175	10,360
July.....	6,359	252	165	205	12,610
August.....	4,824	165	142	168	9,670
September.....	4,611	167	102	154	9,150
Water year 1943-44.....	26,967	267	0	73.7	53,480

e Discharge computed on basis of partly estimated gage heights and information furnished by watermaster.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Lincoln Canal near Shoshone, Idaho

Location.— Water-stage recorder, lat. 43°05', long. 114°19', in sec. 15, T. 4 S., R. 18 E., a quarter of a mile upstream from outlet of canal, 7 miles west of Richfield, 11 miles northeast of Shoshone, and 12½ miles downstream from Magic Dam.

Records available.— May 1925 to September 1944 (1929-36, irrigation seasons only).

Extremes.— Maximum discharge during year, 228 second-feet Nov. 16 (gage height, 1.38 feet); no flow for long periods.

1925-44: Maximum discharge, 667 second-feet May 29, 1927 (gage height, 2.48 feet), from rating curve extended above 550 second-feet; no flow for long periods each year.

Remarks.— Records good. Canal diverts water from right bank of Big Wood River in sec. 9, T. 3 S., R. 18 E., from which point it approximately parallels river for 10 miles to head of North Gooding Canal in sec. 15, T. 4 S., R. 15 E., where water is either diverted into North Gooding Canal or returned to Big Wood River. Canal is used to avoid large channel losses in natural bed of river. Five ditches have rights to divert 12.5 second-feet above this station for irrigation.

Cooperation.— Water-stage recorder graph and two discharge measurements furnished by Water District No. 7 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0						0	162	204	147	127
2		0						52	160	207	147	127
3		0						86	147	204	147	129
4		0						84	125	204	147	129
5		0						84	108	190	138	129
6		0						95	108	193	140	129
7		0						116	143	196	140	129
8		0						121	147	190	140	129
9		0						123	143	185	140	129
10		0						121	114	177	140	129
11		0						121	105	174	140	129
12		0						121	104	170	143	127
13		0						121	100	167	145	129
14		0						121	100	162	143	129
15		174						121	102	162	145	129
16		225						125	102	162	145	134
17		225						125	108	162	140	136
18		225						125	112	162	134	134
19		180						125	127	162	134	131
20		14						116	147	162	134	127
21		0						108	145	160	134	123
22		0						116	177	162	131	121
23		0						174	177	172	129	121
24		0						177	177	180	129	121
25		0						177	177	177	127	121
26		0						167	182	172	127	123
27		0						167	182	162	127	121
28		0						164	182	162	123	125
29		0						164	182	162	125	126
30		0						164	182	162	125	125
31		-						160	-	160	127	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	0	0	0	0	0
November.....	1,033	225	0	34.4	2,050
December.....	0	0	0	0	0
Calendar year	-	-	-	-	-
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	0	0	0	0	0
April.....	0	0	0	0	0
May.....	3,841	177	0	124	7,620
June.....	4,240	188	100	141	8,410
July.....	5,416	207	150	175	10,740
August.....	4,235	147	123	137	8,400
September.....	3,817	136	121	127	7,570
Water year 1943-44	22,590	225	0	61.7	44,790

f Computed on basis of partly estimated gage-height record.

h Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Thorn Creek spillway near Gooding, Idaho

Location.- Water-stage recorder, lat. 43°01', long. 114°37', in sec. 6, T. 5 S., R. 16 E., 600 feet downstream from point of diversion from North Gooding Canal, 900 feet upstream from Thorn Creek, and 7½ miles northeast of Gooding.

Records available.- April 1928 to September 1944 (prior to 1937, irrigation seasons only).

Extremes.- Maximum discharge during year, 246 second-feet June 9 (gage height, 2.25 feet); no flow for long periods.

1928-44: Maximum discharge, 447 second-feet Apr. 24, 1938 (gage height, 2.90 feet); usually no flow during nonirrigation seasons.

Remarks.- Records good. Spillway diverts from North Gooding Canal and discharges into Thorn Creek in sec. 8, T. 5 S., R. 16 E. It is used to minimize losses from natural channel of Big Wood River.

Cooperation.- Water-stage recorder graph and six discharge measurements furnished by Water District No. 7 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0					0	195	156	122	137	83
2		0					0	154	152	137	142	98
3		0					0	160	180	144	142	98
4		0					0	188	158	146	142	98
5		0					0	155	142	152	138	98
6		0					0	129	142	150	135	97
7		0					0	115	144	148	131	98
8		0					0	109	164	146	137	98
9		0					0	131	218	142	138	98
10		f45					0	106	h200	138	135	105
11		56					0	98	h183	144	138	105
12		56					0	66	174	140	137	100
13		55					0	79	146	127	137	101
14		54					0	131	148	124	133	101
15		55					0	140	152	133	131	103
16		170					0	125	148	133	135	120
17		111					0	116	144	135	137	140
18		124					0	105	144	131	138	140
19		h125					0	101	146	125	133	148
20		f52					0	109	166	125	131	144
21		f8					0	116	176	129	127	158
22		0					0	125	207	125	116	158
23		0					0	125	196	131	109	127
24		0					0	129	189	135	92	105
25		0					0	150	174	138	82	98
26		0					0	144	168	142	77	101
27		0					0	142	164	144	76	98
28		0					0	146	148	140	79	97
29		0					f10	148	135	137	80	100
30		0					218	156	120	140	79	94
31		-					-	152	-	138	80	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	0	0	0	0	0
November.....	911	170	0	30.4	1,810
December.....	0	0	0	0	0
Calendar year 1943.....	22,196	170	0	60.8	44,040
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	0	0	0	0	0
April.....	228	218	0	7.6	452
May.....	4,036	195	79	130	8,010
June.....	4,864	218	120	162	8,650
July.....	4,241	152	122	137	8,410
August.....	3,724	142	76	120	7,390
September.....	3,256	148	83	109	6,460
Water year 1943-44.....	21,260	218	0	58.1	42,180

f Fragmentary gage-height record; discharge computed on basis of information furnished by watermaster for Big Wood River.

h Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Wood River at Campbell Ranch, near Carey, Idaho

Location.— Water-stage recorder, .lat. 43°28', long. 114°03', in SW¼ sec. 35, T. 2 N., R. 20 E., at Campbell Ranch, above flow line of Little Wood Reservoir, 1½ miles downstream from High Five Creek, 2½ miles downstream from Muldoon Creek, 11 miles east of Bellevue, and 12 miles northwest of Carey. Prior to April 1944, water-stage recorder at site 650 feet downstream; datum, 3.50 feet lower.

Drainage area.— 267 square miles.

Records available.— February 1920 to September 1926 (published as Little Wood River near Carey), March 1941 to December 1942, April to September 1944 (irrigation seasons only except 1921-24, 1926).

Extremes.— Maximum discharge during period, 632 second-feet June 10 (gage height, 3.03 feet); minimum, 30 second-feet Sept. 13, 14 (gage height, 1.01 feet).
1920-26, 1941-42, 1944: Maximum discharge recorded, 1,420 second-feet Apr. 10, 1942 (gage height, 4.31 feet); minimum, 14 second-feet Aug. 29, 30, 1926.

Remarks.— Records good except those for Apr. 1-5, which are poor. Flow may be slightly regulated by Campbell Reservoir (capacity, 2,700 acre-feet) on unnamed tributary. Diversions for irrigation from Muldoon Creek.

Cooperation.— Water-stage recorder inspected by Little Wood Reservoir Co. and Water District No. 11C.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							a75	377	343	395	97	37
2							a100	325	375	315	97	43
3							a150	286	308	340	112	43
4							a200	297	286	318	105	40
5							a250	354	290	308	92	39
6							249	418	269	286	97	36
7							252	422	280	280	90	34
8							249	411	347	256	80	33
9							256	411	568	242	77	33
10							249	366	588	229	75	32
11							262	358	584	215	70	32
12							308	377	568	207	68	32
13							226	418	568	201	65	31
14							201	465	532	196	60	31
15							176	512	524	192	56	33
16							175	488	492	180	58	36
17							161	480	445	175	40	40
18							148	426	414	166	49	44
19							140	377	399	188	47	46
20			†71				153	351	454	166	47	50
21							210	322	434	158	47	47
22							276	315	414	148	46	46
23							259	286	388	143	46	44
24							259	262	388	133	44	44
25							262	245	411	126	43	42
26							249	242	411	128	42	40
27							256	286	395	123	42	40
28							311	290	354	114	40	43
29							325	318	340	107	37	44
30						†50	373	351	366	107	39	46
31							-	351	-	105	39	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....					
November.....					
December.....					
Calendar year.....					
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	6,739	373	75	225	13,370
May.....	11,167	512	242	360	22,150
June.....	12,455	588	269	415	24,700
July.....	6,272	395	105	202	12,440
August.....	1,947	112	37	62.8	3,880
September.....	1,151	50	31	39.4	2,340
The period.....	-	-	-	-	78,860

† Result of discharge measurement.

a No gage-height record; discharge computed on basis of discharge measurement Mar. 29 and weather records.

e Gage height not representative of average for day; discharge computed on basis of partly estimated gage height graph.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Wood River near Carey, Idaho

Location.- Water-stage recorder, lat. 43°23', long. 114°00', in E½ sec. 30, T. 1 N., R. 21 E., a third of a mile upstream from West Canal, 1 1/3 miles upstream from East Canal, 2 miles downstream from Little Fish Creek, 3 miles downstream from Little Wood Reservoir, and 6 miles northwest of Carey.

Drainage area.- 312 square miles.

Records available.- April 1904 to May 1905, September 1926 to September 1944.

Average discharge.- 15 years (1926-27, 1929-42, 1943-44), 123 second-feet.

Extremes.- Maximum discharge during year, 660 second-feet June 10 (gage height, 4.76 feet); minimum, 2 second-feet Jan. 22 (gage height, 1.71 feet).

1904-5, 1926-44: Maximum discharge, 6,000 second-feet (due to failure of reservoirs on Little Fish Creek) Apr. 20, 1938 (gage height, 12.07 feet, datum then in use, from floodmark), from rating curve extended above 1,800 second-feet; minimum, that of Jan. 22, 1944; minimum gage height, 1.63 feet Feb. 17, 1941.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are poor. Regulation and diversions above station for irrigation. Storage in Little Wood Reservoir (capacity, 10,000 acre-feet) 3 miles above station began Feb. 12, 1941. Flow is also affected by Condit, Cameron, and Howard Reservoirs (combined capacity, 990 acre-feet) on Little Fish Creek. Capacities are as shown in 11th Biennial Report of Department of Reclamation, State of Idaho.

Cooperation.- Water-stage recorder inspected by Little Wood Reservoir Co. and Water District No. 110.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

1.7	2	2.4	36	3.6	261
1.6	4	2.6	56	4.0	379
1.9	6	2.8	84	4.4	519
2.0	10	3.0	120	4.8	676
2.2	21	3.3	186		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	118	84	3		4	5	40	353	329	379	253	86
2	118	76	3		4	5	40	317	323	396	240	82
3	116	78	3		4	5	38	302	314	366	235	82
4	116	81	3		5	5	35	288	291	335	228	78
5	114	86	39	b50	5	5	41	302	285	311	222	74
6	112	80	179		5	5	96	357	269	291	220	66
7	124	72	133		5	5	96	412	256	277	220	61
8	137	74	200		5	6	116	412	291	258	218	54
9	135	74	179		5	7	198	405	527	243	198	46
10	141	74	150		6	7	230	322	628	256	181	40
11	152	74	107	a50	5	8	245	353	640	245	179	39
12	152	74			6	8	291	347	624	228	161	37
13	148	74			6	8	261	373	620	255	137	37
14	152	74			6	8	222	426	620	256	150	35
15	161	a50	b60		6	9	196	493	612	253	143	36
16	168	a8		a25	6	15	124	500	557	232	133	38
17	170	a8		3	6	19	172	486	515	220	130	41
18	156	a60		3	6	20	161	471	475	230	130	44
19	130	a31	62	3	6	20	152	419	445	216	161	45
20	103	46	65	3	6	38	159	373	439	220	156	47
21	94	59	65	3	7	43	193	358	439	212	145	48
22	87	66	65	3	6	30	261	308	439	218	141	48
23	89	6	64	3	6	30	261	285	432	222	137	48
24	89	24	60	3	7	30	243	269	405	225	133	46
25	84	109	59	3	7	30	269	251	412	232	128	46
26	82	58		3	6	25	258	240	429	243	124	45
27	81	5		4	a5	32	245	240	432	256	120	44
28	82	4		4	5	44	274	251	399	274	114	44
29	87	4	b55	4	5	40	317	272	357	280	103	46
30	80	3		4	-	40	329	294	353	277	87	46
31	87	-		4	-	36	-	323	-	269	84	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	3,665	170	80	118	7,270
November.....	1,656	109	3	55.2	3,280
December.....	2,244	200	3	72.4	4,450
Calendar year.....	-	-	-	-	-
January.....	525	50	3	26.6	1,640
February.....	162	7	4	5.6	321
March.....	598	44	5	19.0	1,170
April.....	5,623	329	35	187	11,150
May.....	10,842	500	240	350	21,500
June.....	13,155	640	256	438	26,090
July.....	8,172	396	212	264	16,210
August.....	5,011	253	84	162	9,240
September.....	1,527	86	35	50.9	3,030
Water year 1943-44.....	53,470	640	3	146	106,100

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of information regarding gate changes at Little Wood Reservoir.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Wood River near Richfield, Idaho

Location.-- Water-stage recorder, lat. 43°03', long. 114°08', in sec. 30, T. 4 S., R. 20 E., half a mile upstream from Jim Byrne's Slough and heading of Dietrich Canal, 1 mile east of railroad station at Richfield, and 14 miles downstream from Silver Creek.

Records available.-- January 1911 to September 1944 (irrigation seasons only).

Extremes.-- Maximum discharge during year, 401 second-feet June 15 (gage height, 2.55 feet); minimum recorded, 78 second-feet May 29, June 2; minimum gage height recorded, 1.30 feet June 2.

1911-44: Maximum discharge recorded, 868 second-feet May 3, 1938 (gage height, 3.97 feet); minimum recorded, 7.6 second-feet June 24, 25, 1920 (gage height, 0.52 foot).

Remarks.-- Records good except those for period of no gage-height record, which are fair. Diversions above station for irrigation. Flow partly regulated by Little Wood Reservoir and four small reservoirs on tributaries. River above Silver Creek is dry except during freshet seasons due to channel losses and irrigation diversions above Carey.

Cooperation.-- Water-stage recorder graph and eight discharge measurements furnished by Water District No. 11 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	169	227	182				205	202	87	178	134	131
2	a171	224					205	216	86	171	f134	138
3	a172	218					202	213	92	176	f138	144
4	a174	216					192	208	100	187	f142	148
5	a175	218					186	202	110	164	f140	148
6	a177	216					178	208	122	152	136	148
7	a178	216					176	215	120	148	133	150
8	a180	216					171	229	136	144	133	150
9	a182	216					176	238	190	138	131	150
10	a183	216					180	238	279	136	f131	152
11	a186	216					182	235	353	138	f131	154
12	a186	216					190	221	379	138	127	156
13	188	216					190	210	398	133	124	180
14	188	216					190	213	391	134	125	182
15	192	213					180	f205	398	133	125	182
16	195	208					169	f216	395	135	124	166
17	192	216					f165	f208	388	131	125	169
18	195	208					f162	f200	365	127	124	173
19	200	210					f160	f200	375	125	127	178
20	202	213					166	f182	356	127	142	178
21	205	205					176	f156	f347	133	140	f180
22	205	190					168	f129	f334	136	140	180
23	208	213					210	f117	f316	140	126	178
24	210	190					221	f110	f297	140	125	178
25	213	188					210	103	f261	f146	127	176
26	213	208					202	96	f246	f152	131	173
27	210	213					198	97	f252	144	131	173
28	208	188					192	92	f249	144	131	167
29	208	185					200	86	229	140	129	167
30	218	182					208	80	200	135	124	165
31	224	-				198	-	81	-	138	127	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	6,006	224	169	194	11,910
November.....	6,281	227	182	209	12,460
December.....	-	-	-	-	-
Calendar year.....	-	-	-	-	-
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	5,618	221	180	187	11,140
May.....	5,409	238	80	174	10,730
June.....	7,371	398	66	262	15,610
July.....	4,432	178	125	143	8,790
August.....	4,056	142	124	131	8,040
September.....	4,853	180	131	162	9,650
Water year.....	-	-	-	-	-

a No gage-height record; discharge interpolated.

f Computed on basis of partly estimated gage-height record.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Little Wood River at Shoshone, Idaho

Location.— Water-stage recorder, lat. 42°56', long. 114°24', in sec. 2, T. 6 S., R. 17 E., just upstream from diversion dam for town water supply and 400 feet upstream from highway bridge in Shoshone.

Records available.— April 1922 to September 1944 (irrigation seasons only).

Extremes.— Maximum discharge during year, 614 second-feet June 11 (gage height, 4.49 feet); minimum recorded, 39 second-feet (regulated) Oct. 7; minimum daily recorded, 44 second-feet Oct. 12.

1922-44: Maximum discharge recorded, 664 second-feet June 18, 1922; maximum gage height recorded, that of June 11, 1944; practically no flow July 29, 1931; Oct. 3, 1938.

Remarks.— Records good. Many diversions above and below station for irrigation. Flow affected by operation of Milner-Gooding Canal, which diverts from Snake River and crosses Little Wood River above station, by several reservoirs above Carey, and by Big Wood River water deliveries through Byrne's Slough for Dietrich Canal via Little Wood River at Richfield.

Cooperation.— Gage-height record and ten discharge measurements furnished by Water District No. 11 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	150	f195	137			-	147	190	430	342	448	353
2	125	f201				-	153	201	450	351	456	362
3	122	193				-	159	216	470	433	464	376
4	108	190				-	159	216	476	437	463	393
5	56	190				-	156	212	465	439	460	393
6	54	190				-	156	227	471	461	454	388
7	52	123				-	239	223	474	475	439	379
8	54	190				-	947	355	459	469	434	366
9	52	144				-	169	425	561	467	428	353
10	a49	103				-	147	404	597	434	428	349
11	a47	103				-	153	408	607	434	428	353
12	44	100				-	153	375	591	438	430	353
13	46	98				-	153	384	567	436	428	355
14	50	100				-	156	393	573	432	423	360
15	54	100				-	156	379	571	446	428	366
16	62	88				-	162	417	563	448	433	379
17	67	85				-	162	416	549	446	434	401
18	67	88				-	156	390	630	440	437	418
19	75	88				-	156	372	525	440	427	422
20	82	90				-	159	360	465	443	425	393
21	85	88				-	162	408	478	449	412	377
22	85	75				-	179	398	f545	446	434	377
23	88	144				-	186	347	f543	450	433	366
24	90	162				-	197	328	f809	437	463	342
25	92	162				-	197	400	494	453	436	344
26	95	156				-	190	428	457	453	426	340
27	98	106				-	186	417	475	457	425	334
28	98	103				144	176	416	478	446	414	331
29	98	137				144	179	408	471	442	401	331
30	128	137				137	166	406	421	439	395	166
31	f186	-				140	-	407	-	439	370	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	2,559	196	44	82.5	5,080
November.....	3,997	201	78	133	7,930
December.....	-	-	-	-	-
Calendar year.....	-	-	-	-	-
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	5,136	247	147	171	10,190
May.....	10,924	428	190	352	21,670
June.....	15,265	607	421	509	30,280
July.....	13,612	475	342	439	27,000
August.....	13,394	464	370	432	26,970
September.....	10,808	422	166	360	21,440
Water year.....	-	-	-	-	-

a No gage-height record; discharge interpolated.

f Computed on basis of partly estimated gage-height record.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BIG WOOD RIVER BASIN

Silver Creek near Picabo, Idaho.

Location.- Water-stage recorder, lat. 43°17', long. 114°01', in sec. 1, T. 2 S., R. 20 E., 1½ miles downstream from drain ditch of Blaine County Drainage District No. 1 and 3 miles southeast of Picabo.

Records available.- May 1920 to September 1944 (1922-35, irrigation seasons only).

Average discharge.- 11 years (1920-22, 1935-44), 144 second-feet.

Extremes.- Maximum discharge during year, 237 second-feet Oct. 30; maximum gage height, 3.25 feet Jan. 14 (ice jam); minimum discharge, 104 second-feet May 30 (gage height, 1.38 feet).

1920-44: Maximum discharge, 312 second-feet Apr. 3, 1923; maximum gage height, 3.97 feet Jan. 8, 1942 (ice jam); minimum discharge, 26 second-feet June 2, 1920 (gage height, 0.48 foot).

Remarks.- Records good except those for periods of ice effect, which are fair. Many diversions above station for irrigation. Records of discharge do not include water bypassed around station at times by slough on right bank from which there is some diversion for irrigation.

Cooperation.- Water-stage recorder inspected during irrigation season and two discharge measurements furnished by Water District No. 11 AB.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	204	232	194	171	172	165	215	159	111	b172	177	171
2	203	225	194	176	171	162	207	154	110	b171	178	178
3	207	221	192		171	161	201	153	122	a172	181	184
4	208	222	192		172	166	190	152	124	b172	182	184
5	212	221	192		170	164	185	153	150	177	179	181
6	215	222	191		172	159	181	148	130	175	176	182
7	216	219	189		174	160	176	146	131	168	176	184
8	216	215	188		176	160	171	145	141	167	175	182
9	215	213	186	b170	182	161	184	143	180	167	175	182
10	215	212	183		180	164	200	146	213	166	175	183
11	219	212	181		177	166	199	147	216	165	172	186
12	223	212	179		174	166	197	144	213	169	170	187
13	222	211	177		173	166	198	133	202	167	171	188
14	222	209	174		173	*163	190	133	199	164	176	188
15	220	208	175		171	160	181	131	201	162	170	187
18	214	206	174	*170	170	160	177	133	195	163	168	187
17	209	205	173	172	169	166	173	129	195	161	169	192
18	211	203	173	174	169	173	171	134	198	163	175	197
19	217	*202	174	173	167	164	165	134	196	168	170	199
20	223	203	178	173	167	191	172	135	192	171	166	201
21	224	202	180	172	169	191	193	137	188	178	168	199
22	227	201	183	171	168	194	200	132	185	*177	166	199
23	228	202	181	173	166	200	203	128	b194	175	164	197
24	226	202	181	173	165	206	189	125	b201	176	164	194
25	227	202	183	172	165	201	182	120	a196	180	162	194
26	225	201	181	172	163	191	172	122	b191	178	160	193
27	222	199	179	172	162	181	166	114	a186	177	161	192
28	220	197	b177	170	161	179	167	112	b180	178	158	191
29	226	195	b174	b170	164	178	169	106	a178	176	155	192
30	236	195	172	b171	-	190	165	105	b176	176	160	193
31	236	-	171	b172	-	208	-	109	-	181	167	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	6,789	236	203	219	13,470
November.....	6,269	232	195	209	12,430
December.....	5,621	194	171	181	11,150
Calendar year 1943.....	69,288	270	120	190	137,400
January.....	5,307	176	170	171	10,530
February.....	4,933	182	161	170	9,780
March.....	5,433	206	159	175	10,780
April.....	5,539	215	185	185	10,990
May.....	4,162	159	105	154	6,280
June.....	5,274	216	110	176	10,460
July.....	5,312	181	161	171	10,540
August.....	5,264	182	155	170	10,440
September.....	5,667	201	171	189	11,240
Water year 1943-44.....	65,570	236	105	179	130,100

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated.

b Stage-discharge relation affected by ice.

c Computed from staff-gage readings.

Note.- Flow in bypass channel, which carries water around gage, measured as 13.5 second-feet Oct. 8; 12.3 second-feet Nov. 19; 9 second-feet (estimated) Apr. 1; 0.15 second-foot (estimated) May 8; 5.13 second-feet June 22; 3.47 second-feet July 27; 4.2 second-feet Sept. 12; no flow was reported Jan. 18, May 15, Aug. 22.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

King Hill Canal near Hagerman, Idaho

Location.— Staff gage, lat. 42°52', long. 114°55', in SW $\frac{1}{4}$ sec. 27, T. 6 S., R. 13 E., 430 feet upstream from mouth of inverted siphon crossing Snake River, 1,000 feet downstream from heading at Idaho Power Co.'s canal, half a mile west of highway bridge over Big Wood River, and 3 $\frac{1}{2}$ miles north of Hagerman.

Records available.— March 1930 to September 1944 (irrigation seasons only except 1939).

Extremes.— Maximum discharge observed during year, 338 second-feet May 23-28, May 30 to June 1, June 3, 4; maximum gage height observed, 3.80 feet July 19-22, 26, 27; minimum discharge observed, 3.5 second-feet Mar. 19 (field estimate).
1930-44: Maximum discharge observed, that of May 23-28, May 30 to June 1, June 3, 4, 1944; maximum gage height observed, that of July 19-22, 26, 27, 1944; practically no flow for long periods during most years.

Remarks.— Records good except those for July, which are fair, and those for days when gate changes were made, which are poor. Gage read twice daily. This canal, which is operated by King Hill Irrigation District to provide water for irrigation of its project, diverts from Idaho Power Co.'s canal, which in turn diverts from Big Wood River (Malad Springs water).

Cooperation.— Gage readings furnished by King Hill Irrigation District.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	243					-	177	276	336	302	312	312
2	e184					-	177	272	333	312	315	312
3	-					-	177	270	336	319	317	312
4	-					-	177	278	336	319	310	312
5	-					-	177	275	e114	319	304	312
6	-	+6.3				-	179	305	a5	319	300	312
7	-					-	182	305	a5	320	300	310
8	-					-	230	304	e251	320	304	309
9	-					-	221	305	329	322	300	307
10	-					-	228	309	322	322	295	302
11	-					-	233	320	327	322	292	305
12	-					-	270	329	329	320	293	305
13	-					-	268	331	331	312	295	305
14	-					-	272	329	329	310	290	304
15	-					-	273	329	326	310	285	305
16	-					-	272	331	297	324	285	302
17	-					-	272	322	302	320	285	302
18	-					-	272	331	304	320	285	302
19	-					+3.5	272	333	302	326	275	302
20	-					-	272	333	302	326	275	293
21	-			+5.0		-	290	336	302	324	276	289
22	-					-	e143	333	302	326	e242	283
23	-					-	e140	336	300	324	a5	285
24	-					-	265	335	302	322	e141	281
25	-					-	270	336	302	320	285	281
26	-					-	276	338	302	320	298	280
27	-					-	276	336	305	e276	300	275
28	-					-	276	338	304	a5	300	e276
29	-					e115	267	336	305	e224	310	e276
30	-					177	275	338	302	320	312	e277
31	-					177	-	338	-	310	312	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....					
November.....					
December.....					
Calendar year					
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	7,070	280	140	236	14,080
May.....	9,890	338	270	319	19,630
June.....	8,542	336	5	285	16,940
July.....	9,435	326	5	304	18,710
August.....	8,712	317	5	281	17,280
September.....	8,927	312	275	298	17,710
The period.....	-	-	-	-	104,300

† Result of discharge measurement or field estimate.

a No gage-height record; discharge computed on basis of leakage when gates were closed; interpolated at other times.

e Computed on basis of reported or estimated gate changes.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bennett Creek near Bennett, Idaho

Location.— Water-stage recorder, lat. 43°13'30", long. 115°31'30", in sec. 28, T. 2 S., R. 8 E., 100 yards downstream from Dive Creek (corrected) and $\frac{7}{8}$ miles southwest of Bennett.

Drainage area.— 21.3 square miles.

Records available.— May 1938 to September 1944.

Extremes.— Maximum discharge during year, 34 second-feet Mar. 17 (gage height, 3.00 feet); practically no flow during periods in July and August.
1938-44: Maximum discharge, 204 second-feet Apr. 2, 1943 (gage height, 6.05 feet); practically no flow during periods in 1939, 1941, 1942; 1944.

Remarks.— Records fair Mar. 15 to June 15; others poor. No diversion or regulation above station; many diversions below station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	1.2	1.8				3.5	10	3.1	0	0	0.2
2	.6	1.1	1.7				2.5	9.4	3.5	0	0	.3
3	.7	1.1	1.7				4.2	9.1	3.3	.1	.1	.1
4	.7	1.8	1.8				4.0	8.4	2.6	0	.1	.1
5	.7	1.6	1.8				3.7	7.9	2.3	0	.1	.1
6	.6	1.3	al.6		al.5	al.0	3.5	7.9	2.1	0	.1	.1
7	.7	1.1	al.4				3.3	7.7	2.0	.4	0	.1
8	.7	1.1	al.2			2.0	3.1	7.7	2.8	.4	0	.2
9	.7	1.2	.9			2.6	3.5	7.9	3.9	.3	.1	.2
10	.8	1.5	.7		1.3	5.8	3.9	7.4	3.1	.4	.1	.2
11	1.1	1.4			1.2	4.4	3.7	6.9	2.6	.3	.1	.2
12	1.0	1.4				3.7	5.8	6.9	2.3	.2	0	
13	1.1	1.4				3.1	6.6	6.6	2.1	.2	0	
14	1.0	1.7				2.6	6.7	6.2	2.1	.2	.1	
15	1.0	1.4				2.3	6.7	6.8	2.1	.2	0	
16	1.0	1.4		al.8	al.0.8	5.0	7.4	5.6	2.2	.2	0	
17	1.1	1.4				13	9.4	5.6	3.0	.1	0	
18	1.0	1.6				6.9	10	5.3	2.0	0	0	
19	1.0	1.6				5.3	11	5.1	al.1	.1	0	
20	1.1	1.6				3.7	13	4.6	al.2	.1	.1	
21	1.1	1.6				al.0						al.1
22	1.1	1.7				3.3	13	4.2	2.3	0	.1	
23	1.1	1.7	1.1			3.7	13	4.0	1.8	0	.1	
24	1.2	1.7	1.1			3.3	14	3.9	0	0	.2	
25	1.2	1.6	1.2			3.8	14	3.7	0	0	.2	
26	1.1	1.7				2.2	13	3.5	al.2	0	.2	
27	1.1	1.7				1.7	12	3.3	0	0	.1	
28	1.1	1.6				3.0	12	3.1	0	0	0	
29	1.2	1.4	al.8			2.8	11	3.0	0	0	.1	
30	1.3	1.7				3.7	10	3.0	0	0	.1	
31	1.2	-				4.4	-	3.0	-	0	.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	29.9	1.3	0.5	0.98	0.045	0.05	59
November	44.1	1.6	1.1	1.47	.069	.08	87
December	32.4	1.8	-	1.05	.049	.06	64
Calendar year 1943	6,837.4	164	.4	18.7	.878	11.95	13,560
January	24.8	-	-	.90	.038	.04	49
February	34.0	-	-	1.17	.055	.06	67
March	100.6	13	-	3.25	.153	.18	200
April	241.4	14	3.1	8.05	.378	.42	479
May	180.8	10	3.0	5.83	.274	.32	359
June	64.1	3.9	-	2.14	.100	.11	127
July	6.7	-	0	.22	.010	.01	13
August	1.9	.2	0	.06	.0028	.003	3.8
September	3.7	-	-	.12	.0056	.006	7.3
Water year 1943-44	764.4	14	0	2.09	.098	1.34	1,615.1

a No gage-height record; discharge interpolated or computed on basis of weather records and records for Porter Creek near Gardens and Moore Creek near Arrowrock.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Mountain Home feeder canal near Mountain Home, Idaho

Location.— Water-stage recorder and concrete control, lat. 43°13', long. 115°42', in sec. 36, T. 2 S., R. 6 E., 40 feet downstream from point of diversion from Canyon Creek and 5 miles north of Mountain Home.

Records available.— April 1924 to September 1929, April 1931 to September 1944.

Extremes.— Maximum discharge during year, 102 second-feet May 16 (gage height, 1.50 feet); minimum recorded, 1 second-foot Sept. 29, 30.

1924-29, 1931-44: Maximum discharge, 226 second-feet Feb. 21, 1927 (gage height, 2.18 feet, datum then in use), from rating curve extended above 120 second-feet; no flow at times during most years.

Remarks.— Records good except those for periods of no gage-height record, which are fair. Canal diverts from Canyon Creek in sec. 36, T. 2 S., R. 6 E., and delivers water to Mountain Home cooperative canal, which heads in Mountain Home feeder canal half a mile below station, for irrigation of about 5,000 acres in Mountain Home Irrigation District. At times when there is a surplus of water for irrigation, canal feeds directly into Mountain Home Reservoir. No diversion from canal above station; three small diversions between station and head gates of Mountain Home cooperative canal. Flow regulated by head gates in Canyon Creek and by Long Tom and Little Camas Reservoirs.

Cooperation.— Water-stage recorder graph furnished by Mountain Home Irrigation District.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34					a2		27	35	63	47	48
2	38					2		26	35	58	48	48
3	39					a3		24	34	55	48	46
4	38					a4	a10	23	31	52	48	46
5	7					4		20	79	49	48	47
8	3					5		20	79	44	47	47
7	2					5	h11	19	78	41	49	46
8	2					5	a12	66	78	39	49	46
9	2	h2			h5	5	h12	72	78	41	48	47
10	2					5	a11	71	78	47	46	48
11	3					6	h11	70	78	47	47	48
12	2					8	a18	67	77	47	47	48
13	2					a8	a19	90	75	52	47	48
14	2					a9	h18	91	75	48	47	48
15	2					a8	a22	88	74	47	48	48
16						a15	h25	100	75	47	49	49
17	2					a20	a30	98	73	45	48	49
18	-					a20	h35	97	66	46	48	49
19	-					18	a42	95	31	47	47	48
20	-					16	h48	95	28	47	45	48
21	-					14	h51	93	28	47	46	48
22	-					13	a54	92	28	48	47	48
23	-					12	58	90	27	48	47	43
24	-					13	57	85	41	48	47	80
25	-					12	49	85	52	48	45	6
26	-					12	43	84	58	48	46	4
27	-					a9	38	82	58	48	45	2
28	-					a7	35	81	70	48	47	
29	-					h8	31	81	66	46	47	1
30	-					a9	28	82	62	47	48	1
31	-					a10	-	82	-	47	47	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October 1-17	182	39	2	10.7	361
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	288	20	2	9.3	571
April	517	58	-	27.2	1,620
May	2,196	100	19	70.8	4,350
June	1,956	85	27	65.2	3,880
July	1,485	63	39	47.9	2,950
August	1,453	49	45	47.2	2,900
September	1,127	49	1	37.6	2,240
Water year	-	-	-	-	-

a No gage-height record; discharge interpolated or computed on basis of information obtained from watermaster, weather records, and records for Porter Creek near Gardena and Bennett Creek near Bennett.

h Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Mountain Home cooperative canal near Mountain Home, Idaho

Location.- Water-stage recorder and concrete control, lat. 43°12', long. 115°42', in sec. 36, T. 2 S., R. 6 E., at Lamberton weir, 300 feet downstream from point of diversion from Mountain Home feeder canal and 4½ miles north of Mountain Home.

Records available.- April 1924 to September 1929, April 1931 to September 1944.

Extremes.- Maximum discharge during year, 89 second-feet May 20 (gage height, 1.45 feet); no flow at times.

1924-29, 1931-44: Maximum discharge, 109 second-feet July 16, 1925 (gage height, 1.69 feet, datum then in use); no flow during nonirrigation seasons except occasional stock water runs and leakage through gates.

Remarks.- Records good except those below 1.0 second-foot which are poor. No diversions between station and head of canal. Flow regulated by gates at point of diversion from Mountain Home feeder canal. Water is used for irrigation of about 5,000 acres in Mountain Home Irrigation District.

Cooperation.- Water-stage recorder graph furnished by Mountain Home Irrigation District.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33						0.3	a0.4	79	59	46	45
2	35						3	6	83	56	46	42
3	37						5	8	37	52	47	36
4	38	a0.1			a0.4	a0.5	6	7	21	50	46	39
5	5						.6	7	21	47	46	44
6	0						0	8	17	43	45	44
7							0	8	11	39	46	45
8		h.1		a0.5	h.4		0	16	10	39	46	45
9						.9	0	35	8	41	45	46
10						2	0	52	6	46	43	46
11						1		54	5	46	43	45
12			a0.2			.7	0	53	3	46	43	45
13						.4	0	70	3	50	44	45
14						.3	0	75	3	47	43	45
15		a0				.3	.1	74	3	47	44	46
16					a.4	.4		84	3	45	45	47
17						.4	.7	86	3	44	45	47
18						.8	.8	86	3	43	45	47
19		a.1				a.4		87	4	45	44	47
20							.7	87	7	45	43	46
21								86	16	47	43	45
22							a.7	86	23	47	42	44
23								84	26	47	44	42
24				a.4				81	39	47	44	18
25								80	49	47	41	3
26						a.3		81	57	47	40	1
27	a.1				a.5			81	63	47	43	.1
28			a.3					79	65	47	40	0
29						.3		79	63	47	42	0
30						.3	a.4	79	59	46	44	0
31						.3		79		46	44	
Month												
Second-foot-days												
Maximum												
Minimum												
Mean												
Runoff in acre-feet												
October.....												
November.....												
December.....												
Calendar year 1943												
January.....												
February.....												
March.....												
April.....												
May.....												
June.....												
July.....												
August.....												
September.....												
Water year 1943-44												

a No gage-height record; discharge interpolated.

h Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bruneau River near Hot Spring, Idaho

Location.- Water-stage recorder, lat. 42°46', long. 115°43'30" in SE¼ sec. 34, T. 7 S., R. 6 E., at Dunham Ranch, 1 mile downstream from Hot Creek, 1½ miles south of Hot Spring post office, 9 miles southeast of Bruneau, and about 16 miles downstream from East Fork.

Records available.- July 1909 to March 1915, October 1943 to September 1944.

Extremes.- Maximum discharge during year, 2,010 second-feet May 15 (gage height, 7.59 feet); minimum, 46 second-feet December 11 (gage height, 3.83 feet).

1909-15, 1943-44: Maximum discharge observed, 5,660 second-feet Mar. 1, 1910 (gage height, 10.6 feet, site and datum then in use), from rating curve extended above 1,200 second-feet; minimum observed, 2 second-feet Jan. 10, 1913 (gage height, 3.20 feet), probably resulted from storage by ice upstream.

Remarks.- Records good. Small diversions from tributaries above station for irrigation; large diversions below. No regulation.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

3.9	56	4.5	215	6.0	960
4.0	75	4.7	293	6.5	1,270
4.1	98	5.0	435	7.0	1,600
4.3	152	5.5	685	7.5	1,950

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	89	155	127	152	155	155	250	1,240	1,210	866	179	84
2	84	150	130	124	158	155	297	1,240	1,170	872	173	84
3	82	124	150	141	135	135	400	1,150	1,120	817	173	89
4	84	132	127	119	141	138	565	1,060	1,090	740	170	96
5	86	135	130	96	144	138	680	1,060	1,070	685	164	93
6	85	146	127	106	149	141	707	1,150	1,010	655	155	93
7	89	155	124	77	155	152	650	1,320	978	615	149	91
8	91	146	4	73	181	152	610	1,410	1,050	580	144	96
9	96	132	124	73	158	132	635	1,450	1,100	550	138	82
10	95	155	86	82	149	149	575	1,620	1,070	515	132	82
11	98	132	55	91	141	179	525	1,710	1,120	475	130	80
12	95	150	77	93	121	311	565	1,680	1,240	445	124	80
13	101	132	89	101	119	268	610	1,750	1,450	415	121	80
14	105	130	96	119	138	202	605	1,820	1,490	395	116	77
15	103	150	101	155	149	173	565	1,940	1,440	380	114	75
16	103	127	108	141	146	173	530	1,940	1,380	361	116	77
17	103	127	111	146	132	202	545	1,820	1,290	342	114	82
18	101	127	119	135	127	202	515	1,680	1,190	324	111	89
19	101	127	130	130	152	226	520	1,480	1,100	311	108	89
20	114	130	152	119	111	272	550	1,350	1,100	293	106	91
21	119	130	161	116	121	237	595	1,240	1,110	281	106	91
22	119	130	167	124	141	202	600	1,150	1,170	268	103	91
23	124	150	164	127	144	196	680	1,170	1,060	248	101	89
24	121	150	161	132	138	212	905	1,070	1,000	237	101	89
25	121	130	152	135	155	212	1,030	996	1,000	226	101	89
26	119	130	146	130	127	198	966	927	1,010	215	98	89
27	130	127	141	127	135	173	905	905	990	212	98	89
28	138	119	119	119	127	179	927	922	949	188	96	91
29	138	114	103	108	152	182	1,040	996	875	185	93	89
30	141	121	106	103	-	182	1,170	1,150	850	182	89	91
31	138	-	127	116	-	195	-	1,220	-	179	86	-

Month	Second-feet-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	3,316	141	82	107	6,580
November.....	3,923	155	114	131	7,780
December.....	3,617	167	58	123	7,570
Calendar year	-	-	-	-	-
January.....	3,565	146	73	115	7,070
February.....	3,931	161	111	137	7,900
March.....	5,745	311	132	185	11,400
April.....	19,677	1,170	250	656	39,030
May.....	41,596	1,940	922	1,342	82,500
June.....	33,635	1,490	850	1,121	66,710
July.....	13,067	872	179	422	26,920
August.....	3,809	179	86	123	7,560
September.....	2,598	96	75	86.6	5,150
Water year 1943-44,	138,729	1,940	58	379	275,200

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

Wickahoney Creek near Bruneau, Idaho

Location.- Water-stage recorder, lat. 42°47', long. 115°59', in sec. 27, T. 7 S., R. 4 E., 0.3 mile upstream from mouth and 11 miles southwest of Bruneau.

Records available.- December 1938 to September 1944.

Extremes.- Maximum discharge during year, 4.9 second-feet Apr. 5 (gage height, 0.57 foot); no flow during most of year.

1938-44: Maximum discharge, 2,100 second-feet Jan. 22, 1943 (gage height, 12.4 feet, from high-water mark), by slope-area method; no flow during long periods of each year.

Remarks.- Records poor. No regulation. Daily discharge Apr. 5, 1.9 second-feet, Apr. 6, 0.5 second-feet. No flow for remainder of year.

Monthly discharge, in second-feet, 1943-44

Month	Maximum	Minimum	Mean	Runoff, in acre-feet
October.....	0	0	0	0
November.....	0	0	0	0
December.....	0	0	0	0
Calendar year 1943.....	500	0	10.4	7,540
January.....	0	0	0	0
February.....	0	0	0	0
March.....	0	0	0	0
April.....	1.9	0	.08	4.8
May.....	0	0	0	0
June.....	0	0	0	0
July.....	0	0	0	0
August.....	0	0	0	0
September.....	0	0	0	0
Water year 1943-44.....	1.9	0	.007	4.8

Jacks Creek near Bruneau, Idaho

Location.- Water-stage recorder, lat. 42°47', long. 115°59', in sec. 27, T. 7 S., R. 4 E., 650 feet upstream from confluence with Wickahoney Creek and 11 miles southwest of Bruneau.

Records available.- November 1938 to September 1944.

Extremes.- Maximum discharge during year, 15 second-feet June 11 (gage height, 2.16 feet); no flow for long periods.

1938-44: Maximum discharge, about 908 second-feet Jan. 21, 1943 (gage height, 7.2 feet from high-water mark), from rating curve extended above 50 second-feet on basis of slope-area determination; no flow for long periods of each year.

Remarks.- Records poor. No regulation; ranch diversions above station.

Discharge, in second-feet, 1944

Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge
June 1	0	June 9	0	June 17	0	June 25	0
2	.2	10	1.5	18	0	26	0
3	.5	11	1.2	19	0	27	0
4	0	12	0	20	0	28	0
5	0	13	0	21	0	29	0
6	0	14	.1	22	0	30	0
7	0	15	0	23	0	31	-
8	0	16	.1	24	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	0	0	0	0	0
November.....	0	0	0	0	0
December.....	0	0	0	0	0
Calendar year 1943..	1,096.1	235	0	3.00	2,170
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	0	0	0	0	0
April.....	3.6	1.5	0	.12	7.1
May.....	0	0	0	0	0
June.....	0	0	0	0	0
July.....	0	0	0	0	0
August.....	0	0	0	0	0
September.....	0	0	0	0	0
Water year 1943-44..	3.6	1.5	0	.01	7.1

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Owyhee River near Gold Creek, Nev.

Location.- Water-stage recorder, lat. 41°41'10", long. 115°51'30", in NW¼ sec. 25, T. 44 N., R. 54 E., 500 feet downstream from Wild Horse Dam and 8 miles west of Gold Creek. Altitude, 6,130 feet (from topographic map).

Drainage area.- 209 square miles.

Records available.- March 1916 to September 1925, October 1936 to September 1944.

Average discharge.- 15 years (1917-21, 1922-25, 1936-44), 41.4 second-feet.

Extremes.- Maximum discharge during year, 142 second-feet (regulated) July 4-7 (gage height, 3.13 feet); minimum recorded, 1.2 second-feet (regulated) Nov. 17-19, 22-24, but may have been less during period of no gage-height record.
1916-25, 1936-44: Maximum discharge, 1,810 second-feet May 5, 1922 (gage height, 10.11 feet, site and datum then in use), from rating curve extended above 400 second-feet; practically no flow at times when reservoir gates were closed.

Remarks.- Records excellent except those for period of no gage-height record, which are fair. Small diversions above station for irrigation. Flow regulated by Wild Horse Reservoir (see p. 123).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	16						1.8	73	114	101	96
2	50	16						1.7	73	114	100	96
3	50	16						1.7	73	130	100	96
4	50	16						1.7	73	142	100	96
5	50	16						1.7	73	142	100	96
6	50	16						1.7	84	142	100	96
7	50	16						1.8	106	142	100	96
8	50	16					al.7	1.8	106	141	100	96
9	50	10						1.8	98	141	100	96
10	50	1.4						1.8	86	141	100	96
11	49	1.4						1.8	86	141	98	96
12	49	1.3						1.9	86	141	99	96
13	49	1.3						1.9	86	141	99	96
14	49	1.3					1.7	1.9	76	126	99	96
15	49	1.3					1.7	1.9	81	103	98	96
16	49	1.3	al.2	al.2	al.4	al.6	1.7	1.8	61	103	98	96
17	49	1.2					1.7	1.8	61	103	98	94
18	49	1.2					1.7	1.8	61	103	98	94
19	49	1.2					1.7	1.8	61	103	98	94
20	49	1.3					1.7	1.8	61	103	98	93
21	49	1.3					1.7	1.8	61	102	97	93
22	49	1.2					1.7	1.8	61	102	97	93
23	49	1.2					1.7	1.8	61	102	97	93
24	49	1.2					1.8	1.7	66	102	97	93
25	36	al.2					1.8	7.0	87	102	97	84
26	15	al.2					1.8	13	87	101	97	68
27	15	al.2					1.9	22	87	101	97	68
28	15	al.2					2.0	38	103	101	97	68
29	15	al.2					1.9	44	114	101	97	53
30	15	al.2					1.8	73	114	101	96	28
31	15	-					-	73	-	101	96	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,512	50	15	42.3	2,600
November.....	164.3	16	1.2	5.48	326
December.....	37.2	-	-	1.2	74
Calendar year 1943.....	32,398.5	954	-	88.8	64,250
January.....	37.2	-	-	1.2	74
February.....	40.6	-	-	1.4	81
March.....	49.6	-	-	1.6	98
April.....	52.1	2.0	-	1.74	103
May.....	313	73	1.7	10.1	621
June.....	2,386	114	61	79.5	4,730
July.....	3,632	142	101	117	7,200
August.....	3,050	101	96	98.4	6,050
September.....	2,652	96	88	88.4	5,250
Water year 1943-44.....	13,786	114	-	37.5	27,220

a No gage-height record; discharge computed on basis of discharge measurements made Jan. 5, Mar. 6, weather records, and records for other Owyhee River stations.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Owyhee River at Mountain City, Nev.

Location.- Water-stage recorder, lat. 41°50', long. 115°59', in SE $\frac{1}{4}$ sec. 36, T. 46 N., R. 53 E., at Mountain City, 1 mile downstream from California Creek.

Drainage area.- 350 square miles.

Records available.- May to December 1913, November 1926 to September 1944.

Average discharge.- 18 years (1926-44), 94.5 second-feet.

Extremes.- Maximum discharge during year, 319 second-feet (regulated) May 1 (gage height, 3.06 feet); minimum daily, not determined (occurred during period of ice effect).
1913, 1927-44: Maximum discharge, 1,830 second-feet Apr. 20, 1936 (gage height, 7.6 feet), from rating curve extended above 600 second-feet; no flow July 29 to Sept. 15, 1931, July 21 to Sept. 18, 1934.

Remarks.- Records good except those for periods of ice effect, which are fair. Discharge above station for irrigation. Flow partly regulated by Wild Horse Reservoir (see p. 123).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59	28					80	295	167	153	107	102
2	56	27					88	266	167	152	107	105
3	55	28					116	245	166	150	107	105
4	54	31					135	241	182	167	107	105
5	54	35		(*)			135	249	165	171	104	105
6	54	35					119	264	159	173	105	102
7	56	33				(*)	119	266	184	169	104	102
8	55	32				15	126	262	196	165	104	100
9	54	31					110	261	219	163	104	98
10	54	23					105	274	217	165	104	98
11	56	19					117	253	217	163	102	95
12	55	17					123	235	225	163	100	95
13	54	17					116	227	219	163	100	93
14	54	16					*112	215	213	169	102	93
15	54	16					123	205	211	125	104	93
16	54	17	13	12	13		141	194	196	117	104	95
17	54	17				30	126	180	192	117	104	95
18	55	16				68	125	165	180	117	104	93
19	59	16				73	119	165	171	117	100	93
20	58	17				45	126	146	169	116	98	93
21	59	17				51	121	150	163	112	100	93
22	59	17				54	126	123	161	110	102	93
23	58	17				44	182	116	154	110	104	93
24	56	*16				45	190	107	137	109	102	92
25	56	15				39	186	98	144	109	100	92
26	34	14				44	180	100	156	110	102	73
27	28	13				35	205	100	152	109	102	72
28	30	14				31	247	114	159	109	100	70
29	28	14				35	264	119	167	109	102	70
30	30	15				51	285	146	165	107	102	67
31	28	-				64	-	167	-	107	102	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,569	59	29	50.6	3,110
November.....	622	35	13	20.7	1,230
December.....	403	-	-	13	799
Calendar year 1943	75,269	1,320	-	206	149,300
January.....	372	-	-	12	738
February.....	377	-	-	15	748
March.....	931	73	-	31.6	1,960
April.....	4,317	285	80	144	8,560
May.....	5,948	295	98	192	11,800
June.....	5,393	225	137	180	10,700
July.....	4,191	173	107	135	8,310
August.....	3,189	107	98	103	6,330
September.....	2,775	105	67	92.5	5,500
Water year 1943-44	30,137	295	-	82.3	59,780

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 25 to Mar. 16 (no gage-height record Jan. 4, 5, Jan. 9 to Mar. 8; discharge computed on basis of weather records and records for station near Owyhee).

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Owyhee River above China diversion dam, near Owyhee, Nev.

Location.- Water-stage recorder, lat. 41°55', long. 116°05', in NW¼ sec. 6, T. 46 N., R. 53 E., 1,000 feet downstream from Skull Creek, 1 mile upstream from China diversion dam, and 2½ miles southeast of Owyhee.

Drainage area.- 458 square miles.

Records available.- March 1939 to September 1944.

Extremes (regulated).- Maximum discharge during year, 584 second-feet May 9 (gage height, 5.72 feet); minimum, not determined (occurred during period of ice effect).
1939-44: Maximum discharge, 1,800 second-feet Apr. 9, 1943 (gage height, 9.12 feet) by slope-area method; minimum daily, 2 second-feet Sept. 15-18, 1940.

Remarks.- Records good except those for period of ice effect, which are fair. Diversions above station for irrigation. Flow partly regulated by Wild Horse Reservoir (see p. 123).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	63	41					109	494	206	186	107	95
2	61	41					126	432	219	178	109	100
3	59	40					169	388	256	168	109	98
4	59	42					206	382	275	192	108	97
5	59	45		(*)			212	405	233	193	106	97
6	59	44					171	454	220	201	106	95
7	59	42				(*)	168	475	236	197	106	95
8	59	43				25	182	470	251	192	106	94
9	59	41					157	550	314	191	105	93
10	59	39					143	536	339	188	104	91
11	64	33					178	496	371	184	101	90
12	64	29					184	460	386	183	100	90
13	63	27					169	426	367	178	99	90
14	63	26					*160	392	346	175	100	90
15	63	25					168	354	355	147	102	91
16	63	24	22	21	23	48	205	312	307	125	101	92
17	63	24				56	178	278	295	121	101	94
18	64	24				88	182	246	274	120	100	93
19	69	24				95	171	246	250	121	96	93
20	69	24				68	188	218	245	119	94	93
21	72	24				59	175	135	232	117	96	93
22	72	24				54	198	183	225	113	97	93
23	72	24				53	236	168	209	111	98	93
24	70	*24				52	304	150	184	110	97	93
25	69	23				42	304	143	183	110	96	93
26	56	22				42	277	134	196	114	96	78
27	44	20				42	321	132	193	111	95	66
28	44	21				35	394	159	179	109	95	66
29	43	21				42	454	147	201	108	94	66
30	44	22				58	483	171	196	108	95	62
31	42	-				90	-	211	-	108	94	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,869	72	42	60.3	3,710
November.....	903	45	20	30.1	1,790
December.....	682	-	-	22	1,350
Calendar year 1943	91,782	1,740	-	251	182,000
January.....	651	-	-	21	1,290
February.....	687	-	-	23	1,520
March.....	1,288	95	-	41.5	2,550
April.....	6,871	483	109	219	13,030
May.....	9,789	550	132	316	19,420
June.....	7,744	386	178	258	15,360
July.....	4,576	201	108	148	9,080
August.....	3,113	109	94	100	6,170
September.....	2,664	100	52	88.8	5,280
Water year 1943-44	40,517	550	-	111	80,350

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 25 to Mar. 15 (no gage-height record Jan. 15-24, Mar. 5-7; discharge computed on basis of weather records and records for station at Mountain City).

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Owyhee River above Owyhee Reservoir, Oreg.

Location.- Water-stage recorder, lat. 43°13', long. 117°30', in SE $\frac{1}{4}$ sec. 18, T. 27 S., R. 45 E., 3 miles upstream from flow line of Owyhee Reservoir and 8 miles southwest of Watson. Altitude of gage, about 2,690 feet above mean sea level (levels by Bureau of Reclamation).

Drainage area.- 10,400 square miles.

Records available.- October 1930 to September 1944 in reports of Geological Survey, April 1929 to September 1936 in reports of Oregon State engineer.

Average discharge.- 15 years, 817 second-feet.

Extremes.- Maximum discharge during year, 4,530 second-feet June 22 (gage height, 8.65 feet); minimum, 108 second-feet Dec. 14 (gage height, 3.50 feet).
1929-44: Maximum discharge, 16,000 second-feet Mar. 20, 1932, Apr. 19, 1936; maximum gage height, 12.95 feet Mar. 20, 1932; minimum discharge, 103 second-feet Aug. 19, 1932.

Remarks.- Records good except those for December to February, which are fair. Diversions above station for irrigation. Flow slightly regulated by 11 small reservoirs which have a total capacity of 52,000 acre-feet.

Cooperation.- Water-stage recorder inspected and some discharge measurements made by Bureau of Reclamation.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

3.9	195	5.0	680	7.0	2,230
4.1	251	5.5	930	7.5	2,810
4.3	315	6.0	1,500	8.0	3,480
4.6	427	6.5	1,750		

Discharges, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	208	266	266	257	248	282	631	1,450	399	700	266	190
2	208	266	260	266	254	282	1,220	1,510	399	680	270	192
3	214	263	270	254	248	285	1,720	1,550	391	582	270	195
4	211	260	270	263	270	285	2,530	1,580	419	517	260	
5	214	263	273	257	273	285	3,150	1,410	527	461	257	
6	214	257	315	242	276	289	3,140	1,310	676	419	254	
7	214	254	305	b235	279	289	3,070	1,210	778	399	239	
8	200	266	285	b230	*262	289	2,630	1,130	741	395	251	
9	203	273	279	b230	269	302	2,190	1,060	717	391	219	
10	206	273	266	b235	262	305	1,730	1,040	694	380	214	a196
11	206	279	260	b235	265	372	1,430	1,040	1,840	380	a215	
12	206	282	231	b240	265	395	1,530	1,100	3,410	380	a211	
13	208	279	222	245	295	365	1,600	1,100	3,470	372	a210	
14	208	282	228	254	295	403	1,790	1,080	2,860	357	a209	
15	208	285	b235	260	285	436	2,060	1,010	2,460	354	a207	
16	208	289	b240	260	289	436	2,160	981	3,420	348	206	
17	214	285	242	260	276	431	2,440	910	3,450	343	211	198
18	217	255	248	257	276	423	2,150	842	2,840	329	211	195
19	217	285	251	254	270	512	1,560	816	2,530	312	214	192
20	217	285	260	b245	266	562	1,320	760	2,000	305	206	185
21	a220	282	266	239	266	972	1,590	706	1,750	329	205	182
22	222	279	270	236	260	804	1,580	676	3,030	329	200	182
23	225	279	269	236	270	665	1,710	684	1,870	322	203	182
24	228	279	285	236	266	567	1,980	631	1,480	308	200	182
25	231	276	289	242	266	586	1,710	576	1,210	302	198	182
26	231	279	282	b235	266	729	1,600	522	1,090	298	198	182
27	231	276	282	b225	273	747	1,580	479	986	289	198	180
28	236	279	276	b225	262	631	1,600	448	842	279	203	182
29	242	273	265	b225	276	542	1,430	415	729	302	195	182
30	242	270	263	225	-	454	1,450	415	694	332	195	192
31	266	-	263	234	-	489	-	415	-	273	203	

	Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October		6,754	266	200	219	13,460
November		9,549	289	254	275	16,360
December		9,237	315	222	266	15,340
Calendar year 1943		543,861	9,470	192	1,490	1,079,000
January		7,643	266	225	243	14,960
February		7,931	298	234	273	16,750
March		14,749	972	282	476	29,250
April		55,521	3,150	651	1,851	110,100
May		26,743	1,560	415	927	57,020
June		47,532	3,480	391	1,584	94,280
July		11,685	700	273	377	23,180
August		6,777	270	195	219	13,440
September		5,723	-	180	191	11,350
Water year 1943-44		209,479	3,480	180	572	415,500

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated.

b Stage-discharge relation affected by ice.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Wild Horse Reservoir near Gold Creek, Nev.

Location.- Reference point on Wild Horse Dam on Owyhee River, lat. 41°41'10", long. 115°51'20", in NE¼NW¼ sec. 25, T. 44 N., R. 54 E., 8 miles west of Gold Creek. Datum of gage is 8,109.18 feet above mean sea level. (levels by Office of Indian Affairs).

Drainage area.- 209 square miles.

Records available.- March 1938 to September 1944.

Extremes.- Maximum contents observed during year, 30,720 acre-feet May 26 (gage height, 78.90 feet); minimum observed, 10,830 acre-feet Sept. 25.
1938-44: Maximum contents observed, 34,460 acre-feet Apr. 18, 1942 (gage height, 80.95 feet); no contents at times during each year 1938-41.

Remarks.- Reservoir is formed by concrete-arch dam; storage began Mar. 18, 1938. Capacity, 32,690 acre-feet between gage height 20.0 feet (sill of outlet gate) and 80.0 feet (spillway crest). No dead storage. Water is used for irrigation on Duck Valley project.

Cooperation.- Gage-height record and base data for capacity table furnished by Office of Indian Affairs.

Contents, in acre-feet, water year October 1943 to September 1944

Date	Contents	Date	Contents	Date	Contents
Oct. 25	13,240	Mar. 27	115,100	July 19	24,620
Nov. 9	12,910	Apr. 25	22,310	Aug. 27	22,570
Dec. 27	13,120	May 5	27,150	Sept. 10	19,760
Jan. 25	13,650	June 26	30,720	Oct. 26	16,240
Feb. 24	14,000	July 7	30,460	Nov. 16	12,330
	14,450	Aug. 26	30,080	Dec. 25	10,630

a computed on basis of gage readings to top of ice.

Note.- Reservoir gates were closed Nov. 9 to May 25. No flow over spillway during year.

Owyhee Reservoir at Owyhee Dam, near Nyssa, Oreg.

Location.- Staff gage, lat. 43°38', long. 117°15', in sec. 20, T. 22 S., R. 45 E., at Owyhee Dam, 21 miles southwest of Nyssa. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

Drainage area.- 11,160 square miles.

Records available.- October 1932 to September 1944.

Extremes.- Maximum contents observed during year, 1,012,000 acre-feet May 4, 5 (elevation, 2,681.05 feet); minimum observed, 754,400 acre-feet Sept. 30 (elevation, 2,636.51 feet).

1932-44: Maximum contents observed, 1,125,000 acre-feet June 11, 1936 (elevation, 2,670.27 feet); minimum observed since full capacity was attained on May 7, 1936, 754,100 acre-feet Oct. 22, 1939 (elevation, 2,636.48 feet).

Remarks.- Reservoir is formed by concrete arch-gravity dam, completed in September 1932; storage began Oct. 16, 1932. Capacity, 1,121,800 acre-feet between elevations 2,367.5 feet (bottom of sluice gates) and 2,670 feet (top of spillway gate), 715,000 acre-feet between elevations 2,590.2 feet (diversion tunnel) and 2,670 feet. Dead storage below elevation 2,367.5 feet negligible. Figures given herein are of contents above elevation 2,367.5 feet. The reservoir will generally not be drawn below elevation 2,590.2 feet. Water is released through diversion tunnel to South canal for irrigation of lands west of Snake River in the vicinity of Homedale, Idaho, and to North canal for irrigation of lands north and west of Owyhee River, and through sluice gates to river for Owyhee Canal, which diverts about 18 miles downstream. - Gage read once daily.

Cooperation.- Gage-height record furnished by Bureau of Reclamation.

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	2,647.06	357,500	-
Oct. 31.....	2,645.48	341,400	-16,100
Nov. 30.....	2,654.00	356,000	+14,600
Dec. 31.....	2,648.30	370,500	+14,500
Calendar year 1943.....	-	-	-35,500
Jan. 31.....	2,649.93	387,600	+17,100
Feb. 29.....	2,651.41	393,400	+5,800
Mar. 31.....	2,654.00	391,700	-1,700
Apr. 30.....	2,660.87	1,010,000	+78,300
May 31.....	2,657.20	967,500	-42,500
June 30.....	2,659.70	996,300	+28,800
July 31.....	2,652.06	910,500	-85,800
Aug. 31.....	2,643.52	821,700	-88,800
Sept. 30.....	2,636.51	754,400	-67,300
Water year 1944.....	-	-	-103,100

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

OWYHEE RIVER BASIN

Owyhee River below Owyhee Dam, Oreg.

Location.- Water-stage recorder, lat. 43°39', long. 117°15', in sec. 17, T. 22 S., R. 45 E., three-quarters of a mile downstream from Owyhee Dam. Datum of gage is 2,543.67 feet above mean sea level (levels by Bureau of Reclamation).

Drainage area.- 11,160 square miles.

Records available.- February 1929 to September 1944.

Average discharges.- 15 years, 438 second-feet.

Extremes.- Maximum discharge during year, 210 second-feet May 24-30, July 13 (gage height, 1.57 feet); minimum recorded, 6.5 second-feet Apr. 19 (gage height, -0.25 foot, gates closed at Owyhee Dam), but may have been less during period of no gage-height record. 1929-44: Maximum discharge, 14,600 second-feet Mar. 21, 1932 (gage height, 12.79 feet); no flow for a few hours Aug. 8, 9, 1932, when temporary diversion tunnel at Owyhee Dam was closed.

Remarks.- Records good except those for period of no gage-height record, which are poor.

Diversion above station for irrigation. Flow regulated by Wild Horse and Owyhee Reservoirs (see p. 123).

Cooperation.- Water-stage recorder inspected by Bureau of Reclamation.

Rating tables, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

Oct. 1-18				Oct. 19 to Sept. 30			
-0.1	9	0.6	57	-0.2	8	0.6	56
0.0	12	1.8	81	-0.1	11	.8	79
.2	22	1.0	108	0.0	15	1.0	106
.4	38	1.2	140	.2	24	1.2	137
				.4	37	1.5	195

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	144							115	88	170	176	115
2	144							115	88	170	176	121
3	127							123	89	170	176	121
4	113							148	116	170	176	128
5	113							146	108	170	176	132
6	113							159	82	178	176	134
7	113						a7.0	188	86	195	155	134
8	113							188	87	195	141	134
9	113							170	88	195	141	135
10	113							176	88	195	141	135
11	113							199	88	195	141	135
12	113							204	100	195	141	135
13	114							206	110	204	141	135
14	114						h6.8	206	110	202	141	135
15	57						a6.7	206	114	199	141	137
16	7.2	a7.0	a7.0	a7.0	a7.0	a7.0	a6.7	206	121	199	142	129
17	7.2						a6.6	206	120	199	142	109
18	7.2						a6.6	206	120	199	142	109
19							102	206	120	199	142	109
20							161	206	124	199	142	109
21							161	206	115	199	142	109
22							161	206	98	199	142	110
23							161	206	42	199	142	110
24							161	210	42	199	142	112
25	a7.0						163	210	75	199	142	106
26							163	210	103	199	142	95
27							163	210	124	199	144	93
28							154	210	157	199	144	92
29							114	210	157	199	144	92
30							114	172	161	199	115	74
31							-	142	-	193	110	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,829.6	144	-	59.0	3,630
November.....	210.0	-	-	7.0	417
December.....	217.0	-	-	7.0	430
Calendar year 1943.....	342,417.1	6,920	-	938	679,200
January.....	217.0	-	-	7.0	430
February.....	203.0	-	-	7.0	408
March.....	217.0	-	-	7.0	430
April.....	1,882.4	163	-	62.7	3,750
May.....	5,731	210	115	185	11,370
June.....	3,081	161	42	103	6,110
July.....	5,981	204	170	193	11,690
August.....	4,660	176	110	147	9,020
September.....	3,522	137	74	117	6,990
Water year 1943-44.....	27,641.0	210	-	75.5	54,820

a No gage-height record; discharge interpolated.

h Computed from staff-gage reading.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Boise River near Twin Springs, Idaho

Location.— Water-stage recorder, lat. 43°40', long. 115°44', in sec. 27, T. 4 N., R. 6 E., a quarter of a mile upstream from Birch Creek, 1½ miles upstream from flow line of Arrowrock Reservoir, 4 miles downstream from Twin Springs, and 13 miles upstream from Arrowrock.

Drainage area.— 830 square miles.

Records available.— March 1911 to September 1944.

Average discharge.— 33 years, 1,109 second-feet.

Extremes.— Maximum discharge during year, 3,800 second-feet May 15 (gage height, 5.30 feet); minimum daily, 240 second-feet Dec. 28.

1911-44: Maximum discharge, 10,300 second-feet May 17, 1927 (gage height, 8.30 feet), from rating curve extended above 8,000 second-feet; minimum, 133 second-feet Dec. 15, 16, 1935 (gage height, 1.56 feet).

Remarks.— Records excellent except those below 300 second-feet, which are good, and those for periods of ice effect or no gage-height record, which are fair. No diversions or regulation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	404	491	477	428	399	342	604	1,900	2,750	1,630	491	291
2	399	459	464	440	382	354	748	1,700	2,410	1,540	491	328
3	394	491	452	b560	377	358	933	1,550	2,330	1,350	477	330
4	394	748	452	b250	377	358	1,190	1,590	2,110	1,230	459	321
5	394	1,080	440	b320	366	356	1,360	1,780	1,980	1,170	454	306
6	404	756	399	b410	399	342	1,240	2,120	1,990	1,130	416	298
7	440	604	351	b330	446	354	1,170	2,470	2,000	1,060	399	291
8	404	588	b420	a310	428	366	1,130	2,430	2,150	996	368	287
9	399	595	351	a300	440	404	1,040	2,320	2,210	951	377	283
10	410	572	283	a310	382	477	1,040	2,210	1,980	933	366	280
11	564	564	b300	a330	347	477	1,120	2,240	1,940	998	360	276
12	595	540	b320	a340	351	452	1,320	2,390	1,830	834	351	280
13	491	533	b320	b360	347	464	1,190	2,600	1,830	798	342	276
14	458	519	b330	b390	368	a410	1,090	3,210	1,870	772	338	273
15	440	512	b340	b420	377	a430	998	3,680	1,870	740	338	283
16	440	498	b350	b450	380	a500	980	3,400	1,900	716	338	294
17	428	512	b380	b440	380	a540	897	3,100	1,830	692	334	347
18	422	498	b400	b420	381	a530	952	2,870	1,720	668	326	326
19	428	498	b450	b360	334	572	818	2,520	1,700	682	330	317
20	428	512	b500	b360	313	540	882	2,020	1,800	700	330	309
21	458	498	498	b350	355	477	818	1,890	1,990	660	321	302
22	470	477	470	b370	366	458	924	1,880	1,970	620	321	298
23	470	470	440	b390	351	484	1,040	1,720	1,820	604	313	291
24	464	470	422	b410	342	477	1,280	1,690	1,840	580	309	287
25	526	458	428	b380	342	440	1,390	1,610	1,970	556	309	283
26	519	422	399	b350	338	434	1,300	1,610	1,970	533	309	283
27	505	372	321	b320	334	382	1,340	1,690	1,690	519	309	280
28	604	377	b240	b290	334	377	1,400	1,750	1,690	498	302	280
29	684	422	298	b340	351	434	1,580	2,030	1,540	491	298	283
30	628	428	b470	b360	-	470	1,770	2,580	1,540	477	298	291
31	556	-	477	366	-	498	-	2,870	-	491	294	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	14,641	684	394	472	0.669	0.66	29,040
November	15,964	1,080	372	532	.641	.72	31,660
December	12,242	500	240	395	.478	.55	24,280
Calendar year 1943	713,666	8,490	240	1,955	2.36	32.00	1,416,000
January	11,274	450	250	364	.439	.51	22,360
February	10,637	446	313	367	.442	.48	21,100
March	13,554	580	334	437	.527	.61	26,880
April	35,388	1,770	604	1,113	1.34	1.50	66,220
May	69,930	3,590	1,500	2,215	2.87	3.08	136,300
June	58,320	2,750	1,540	1,944	2.34	2.61	115,700
July	25,479	1,630	477	822	.990	1.14	50,540
August	11,067	491	294	357	.430	.50	21,950
September	8,872	347	273	296	.357	.40	17,600
Water year 1943-44	284,113	5,580	240	776	.935	12.76	563,500

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of 2 discharge measurements, weather records, and records for Arrowrock Reservoir and other stations in Boise River Basin.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Arrowrock Reservoir at Arrowrock, Idaho

Location.— Graduations on upstream face of dam on Boise River, lat. 43°36', long. 115°55', in E. sec. 13, T. 3 N., R. 4 E., at Arrowrock, 22 miles by road east of Boise. Datum of gage is at mean sea level (surveys of Bureau of Reclamation).

Drainage area.— 2,210 square miles.

Records available.— October 1917 to September 1944.

Extremes.— Maximum contents observed during year, 299,000 acre-feet May 17 (elevation, 3,218.4 feet); minimum observed, 10,940 acre-feet Sept. 30 (elevation, 3,034.0 feet). 1917-44: Maximum contents observed, 300,900 acre-feet May 4, 5, 1939 (elevation, 3,219.0 feet); no usable contents during period in each of several years when sluice gates were open and natural flow was passing through reservoir.

Remarks.— Reservoir is formed by gravity-section concrete-arch dam completed in 1915 and raised 5 feet in 1937; storage began in 1915. Capacity, 291,600 acre-feet between elevations 2,956 feet (11 feet below center line of sluice gates, 8.5 feet below sill) and 3,216 feet (crest of movable spillway at highest position). Dead storage negligible. Figures given herein represent total contents (including bank storage), which, project officials state, may have been reduced as much as 5,000 to 6,000 acre-feet by the deposition of silt. Water is used for irrigation of lands in Boise Valley. Gage read once daily about 8 a.m.

Cooperation.— Gage-height record and yield table furnished by Bureau of Reclamation.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	62,600	65,590	106,700	155,600	178,600	195,000	219,300	295,300	294,100	293,500	172,400	54,600
2	60,650	67,800	106,600	155,600	180,100	195,000	222,100	295,300	295,900	291,600	168,600	50,480
3	58,680	69,750	106,400	158,400	182,100	195,000	225,500	294,700	296,900	289,100	165,100	46,500
4	56,760	71,700	106,200	159,800	183,500	195,000	230,200	294,400	297,500	286,700	161,500	42,600
5	54,800	74,960	105,900	140,800	185,300	195,000	234,100	294,400	297,800	285,700	157,700	38,840
6	52,020	78,740	105,700	142,000	186,700	195,200	238,800	295,000	297,800	281,000	154,200	38,190
7	50,590	81,500	105,400	143,600	187,600	195,200	242,700	295,900	297,800	277,700	150,200	38,110
8	48,830	83,900	104,700	144,800	188,300	195,200	246,400	296,000	297,800	274,100	146,800	37,870
9	46,900	86,000	104,500	146,000	188,800	195,000	250,600	296,600	298,100	270,000	143,000	37,460
10	44,700	88,460	104,800	147,000	189,200	195,500	254,900	296,200	298,400	266,200	139,400	37,060
11	42,780	90,700	105,000	148,200	188,500	195,900	258,200	296,200	298,100	262,200	135,400	36,570
12	41,520	92,940	105,400	149,400	187,900	196,400	262,200	296,200	297,800	257,900	131,400	36,090
13	39,720	95,020	105,700	150,600	187,100	196,900	266,800	296,600	297,800	253,700	127,400	32,450
14	38,510	97,200	106,000	152,000	186,400	197,600	270,300	297,200	297,800	249,800	123,400	29,350
15	37,140	99,240	107,400	153,700	185,000	197,900	272,900	298,100	297,800	244,500	119,300	26,190
16	35,650	101,500	108,800	155,400	186,200	197,400	274,700	298,700	297,800	240,300	115,400	22,990
17	34,410	103,500	110,100	157,100	186,200	197,900	276,200	299,000	297,800	236,800	111,500	19,920
18	35,930	104,500	111,800	159,000	186,200	198,600	277,100	298,400	297,800	231,500	107,700	17,190
19	37,540	105,500	113,600	160,400	186,400	199,300	277,100	298,400	297,800	227,100	104,000	16,980
20	39,270	106,700	115,400	161,900	186,400	200,000	277,400	298,400	297,200	222,400	100,400	16,980
21	41,250	108,200	117,200	163,400	188,400	200,700	277,700	297,800	297,500	218,200	97,080	16,790
22	43,230	109,700	119,300	164,800	187,400	201,000	278,600	297,500	297,500	214,000	93,580	16,790
23	45,200	107,400	121,100	165,900	189,000	201,800	280,700	296,900	297,500	210,000	90,280	16,760
24	47,100	109,100	122,800	167,600	190,400	203,600	283,100	296,600	297,200	206,500	86,750	16,710
25	49,270	108,400	124,700	169,100	192,000	205,500	286,700	293,600	297,200	201,800	83,150	16,790
26	51,360	109,300	126,400	170,500	193,400	207,500	289,100	291,900	297,200	197,600	79,440	16,840
27	53,560	109,400	128,000	172,000	194,300	209,500	291,300	290,000	297,200	193,100	75,940	16,890
28	55,920	109,100	129,100	173,300	195,000	211,000	292,500	289,100	297,200	189,800	72,090	15,100
29	58,560	108,400	130,000	174,600	195,000	212,800	293,800	288,500	296,900	184,600	68,060	13,100
30	61,170	107,600	131,400	176,000	—	214,500	294,700	289,100	296,500	180,400	63,770	10,940
31	63,510	—	133,200	177,300	—	216,800	—	291,600	—	176,400	59,160	—

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	3,108.6	64,680	—
Oct. 31.....	3,107.7	63,610	-1,170
Nov. 30.....	3,137.1	107,600	+44,090
Dec. 31.....	3,151.1	135,200	+28,600
Calendar year 1943.....	—	—	+44,400
Jan. 31.....	3,172.4	177,300	+44,100
Feb. 29.....	3,180.2	195,000	+17,700
Mar. 31.....	3,189.1	216,900	+21,900
Apr. 30.....	3,217.0	294,700	+77,900
May 31.....	3,216.0	291,600	-3,100
June 30.....	3,217.2	295,300	+3,700
July 31.....	3,172.0	176,400	-118,900
Aug. 31.....	3,104.3	59,160	-117,240
Sept. 30.....	3,034.0	10,940	-48,220
Water year 1943-44.....	—	—	-55,740

† Elevation at about 8 a.m.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Boise River at Dowling Ranch, near Arrowrock, Idaho

Location.- Water-stage recorder, lat. 43°35', long. 115°58', in sec. 15, T. 3 N., R. 4 E., at Dowling Ranch, three-quarters of a mile upstream from Moore Creek and 4 miles downstream from Arrowrock.

Drainage area.- 2,220 square miles.

Records available.- March 1911 to September 1944.

Average discharge.- 33 years, 2,231 second-feet.

Extremes (regulated).- Maximum discharge during year, 6,980 second-feet May 16 (gauge height, 6.56 feet); minimum, 3 second-feet about Jan. 6 (gauge height, 0.79 foot from recorded range in stage); minimum daily, 5 second-feet Jan. 26, 27.
1911-44: Maximum discharge, 18,800 second-feet Apr. 20, 1943 (gauge height, 9.93 feet); minimum, 2 second-feet several days in 1935, 1936, 1939, 1941, and on Oct. 24, 26, 1942; minimum gauge height, 0.62 foot Nov. 21, 22, 1935.

Remarks.- Records excellent except those for periods of staff-gage reading and those below 20 second-feet, which are fair. Flow regulated by Arrowrock Reservoir (see p. 126).

Cooperation.- Two discharge measurements furnished by Water District No. 12A.

Discharge, in second-feet, water-year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,720	S	h1,280	h7	6	796	S	3,830	4,340	3,930	2,990	2,650
2	1,720	7	h1,180	h7	7	788	7	3,830	4,340	3,830	2,900	2,670
3	1,720	S	h1,060	h7	7	796	7	3,540	4,340	3,830	2,820	2,670
4	1,720	12	h1,060	h7	S	796	99	3,350	4,130	3,730	2,740	2,490
5	1,720	10	h1,060	h7	145	796	266	3,640	4,030	3,730	2,680	1,620
6	1,720	9	h1,060	h7	580	796	320	3,930	3,930	3,730	2,650	676
7	1,720	9	h1,060	h6	485	796	324	4,660	3,930	3,730	2,650	692
8	1,780	9	h1,060	h8	646	796	209	4,990	4,030	3,830	2,570	716
9	1,840	9	h730	h8	583	796	114	4,990	4,550	3,830	2,650	764
10	1,840	9	h502	h10	1,020	796	208	4,770	4,440	3,830	2,650	732
11	1,840	10	h502	h10	1,070	796	355	4,770	4,240	3,730	2,650	724
12	1,840	9	h502	h10	1,070	796	400	4,770	3,930	3,730	2,650	1,800
13	1,720	S	h502	h10	1,060	804	534	5,100	3,830	3,830	2,740	2,120
14	1,590	S	e240	h10	1,060	804	796	6,940	3,830	3,730	2,740	2,050
15	1,330	S	e30	S	964	804	1,020	6,710	3,830	3,640	2,650	2,050
16	1,080	S	h10	S	772	804	1,160	6,840	3,830	3,540	2,570	2,050
17	1,070	188	h10	7	780	858	1,410	6,580	3,830	3,640	2,570	1,980
18	820	354	h10	S	780	874	1,650	6,690	3,640	3,640	2,670	1,510
19	9	772	h10	S	788	874	1,720	4,990	3,440	3,440	2,340	684
20	6	874	h10	S	788	874	1,720	4,550	3,440	3,440	2,260	692
21	S	700	h10	S	568	883	1,530	4,240	3,730	3,440	2,260	676
22	7	639	h10	S	9	883	1,170	4,240	3,730	3,350	2,260	639
23	7	639	10	S	7	392	1,020	4,240	3,640	3,350	2,260	618
24	7	639	10	S	7	10	1,080	4,240	3,540	3,350	2,340	583
25	6	639	10	S	7	S	1,360	4,130	3,540	3,260	2,340	555
26	6	748	S	S	123	S	1,650	4,030	3,640	3,170	2,340	555
27	6	948	S	S	397	S	1,910	3,030	3,640	3,170	2,420	1,010
28	6	h1,060	h8	S	618	7	2,420	3,930	3,440	3,170	2,570	1,410
29	7	h1,160	h8	S	748	S	2,900	3,830	3,440	3,080	2,650	1,470
30	14	h1,280	h8	S	6	7	3,440	4,030	3,730	3,080	2,740	1,630
31	22	-	h8	S	-	S	-	4,240	-	2,990	2,650	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	28,701	1,840	6	926	56,930
November.....	10,779	1,280	S	359	21,380
December.....	11,976	1,280	S	356	23,750
Calendar year 1943	1,521,781	18,800	6	4,169	3,018,000
January.....	219	10	6	7.1	434
February.....	14,933	1,070	6	515	29,620
March.....	16,442	883	7	695	36,580
April.....	30,837	3,440	7	1,028	61,160
May.....	142,560	6,840	3,350	4,598	282,700
June.....	115,970	4,560	3,440	3,866	230,000
July.....	109,670	3,930	3,930	3,644	217,900
August.....	79,640	2,990	2,260	2,575	158,400
September.....	39,986	2,650	555	1,333	79,310
Water year 1943-44	604,103	6,840	5	1,651	1,198,000

e Gage reading not representative of average for day; discharge computed on basis of information regarding gate changes at Arrowrock Dam as furnished by Board of Control for Boise project.

h Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Boise River at Boise, Idaho

Location.— Water-stage recorder, lat. 43°37', long. 116°13', in SW¼ sec. 10, T. 3 N., R. 2 E., at Capitol Boulevard Bridge at Boise. Datum of gage is 2,675.46 feet above mean sea level (datum of Corps of Engineers, U. S. Army—Boise River Surveys). Prior to Dec. 30, 1943, datum of gage was 0.09 foot lower.

Records available.— March 1938 to September 1939 (gage heights only), February 1940 to September 1944.

Extremes.— Maximum discharge during year, 4,030 second-feet May 16 (gage height, 5.68 feet); minimum, 11 second-feet Dec. 13, 14 (gage height, 2.26 feet); minimum daily, 12 second-feet Dec. 13, 14.

1940-44: Maximum discharge, 21,000 second-feet Apr. 20, 1943 (gage height, 10.00 feet, site and datum then in use); minimum, 7 second-feet Dec. 16, 1942 (gage height, 1.79 feet, site and datum then in use); minimum daily, 8 second-feet Mar. 8-15, Dec. 6, 1941.

Remarks.— Records good except those for Dec. 28 to Jan. 3, which are fair. Flow regulated by Arrowrock Reservoir (see p. 125). New York, Ridenbaugh, and several smaller canals divert between Moore Creek and this station.

Rating tables, water year 1943-44 (gage height, in feet, and discharge, in second-feet) (Shifting-control method used Jan. 4 to May 7)

Oct. 1 to Dec. 27

Jan. 4 to Sept. 30

2.2	6	3.0	182	2.4	11	3.6	320
2.3	14	3.4	370	2.5	16	4.0	700
2.4	26	3.8	600	2.7	32	4.5	1,500
2.6	59	4.3	1,030	3.0	77	5.0	2,500
2.8	108			3.3	165	5.7	4,080

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	488	162	24	e115	103	21	284	1,790	1,460	1,370	754	740
2	516	132	22	e110	117	20	327	1,750	1,480	1,340	727	714
3	540	122	19	e85	126	20	332	1,300	1,620	1,260	664	688
4	534	150	16	29	151	21	193	940	1,410	1,200	638	688
5	504	320	16	68	130	20	64	910	1,200	1,180	592	664
6	516	280	15	106	35	20	40	1,170	1,080	1,170	592	604
7	510	212	16	77	28	18	565	1,810	1,030	1,120	604	628
8	504	174	18	77	22	18	284	2,310	1,030	1,120	580	628
9	498	158	16	73	23	18	284	2,210	1,460	1,130	580	638
10	492	150	14	73	18	19	255	1,990	1,580	1,130	604	658
11	516	142	13	77	18	19	376	1,610	1,450	1,080	628	676
12	498	139	13	77	17	18	438	1,850	1,390	1,070	552	638
13	436	132	12	84	17	16	486	2,010	1,340	1,050	676	441
14	376	118	12	88	17	14	368	2,700	1,300	1,050	688	341
15	350	118	12	96	16	15	206	3,500	1,410	1,020	700	327
16	174	118	86	86	16	16	206	3,870	1,520	925	700	314
17	97	125	115	91	16	16	441	3,690	1,640	925	688	380
18	97	442	105	96	14	20	450	3,050	1,300	925	688	284
19	135	570	118	84	14	17	450	2,230	1,070	910	640	290
20	100	997	118	82	14	16	441	1,630	955	850	407	302
21	105	830	125	82	15	14	341	1,340	1,170	835	385	290
22	118	726	128	84	127	14	255	1,250	1,390	888	362	266
23	125	726	125	93	129	14	230	1,380	1,480	895	341	255
24	128	726	122	93	128	215	220	1,320	1,200	865	341	228
25	125	588	122	86	135	225	255	1,300	1,240	865	362	174
26	122	132	122	93	106	196	398	1,320	1,520	835	385	166
27	122	43	89	82	34	174	505	1,360	1,280	794	432	165
28	126	29	e60	69	26	161	865	1,640	1,200	794	616	178
29	158	26	e60	88	16	170	1,130	1,480	1,080	727	652	195
30	182	25	e80	79	-	196	1,500	1,460	1,270	781	700	192
31	182	-	e120	100	-	230	-	1,460	-	768	754	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	9,383	540	97	303	16,610
November	8,612	997	26	287	17,080
December	1,991	128	12	64.2	5,980
Calendar year 1943	1,195,236	20,500	12	3,275	2,371,000
January	2,614	115	29	84.3	6,190
February	1,624	151	14	56.0	3,280
March	1,971	230	14	63.6	3,910
April	12,047	1,500	40	402	25,890
May	87,890	3,870	910	1,861	114,400
June	35,285	1,590	965	1,305	77,880
July	30,902	1,370	727	997	61,290
August	18,082	764	341	583	35,870
September	12,763	740	165	425	25,280
Water year 1943-44	196,944	3,870	12	538	390,800

e Stage-discharge relation indefinite; discharge computed on basis of flow in river below Moore Creek less diversions.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Boise River at Notus, Idaho

Location.- Water-stage recorder, lat. 43°43', long. 116°48', in SE $\frac{1}{4}$ sec. 34, T. 5 N., R. 4 W., 360 yards upstream from steel highway bridge, a quarter of a mile southeast of Notus, and 7 miles northwest of Caldwell. Datum of gage is 2,288.55 feet above mean sea level (Corps of Engineers, U. S. Army datum - Boise River Surveys).

Records available.- April 1920 to September 1944.

Average discharge.- 22 years (1920-22, 1924-44), 1,085 second-feet.

Extremes.- Maximum discharge during year, 2,050 second-feet May 16 (gage height, 4.43 feet); minimum, 22 second-feet July 14 (gage height, 0.13 foot); minimum daily, 24 second-feet May 7.

1920-44: Maximum discharge, 20,500 second-feet Apr. 20, 1943 (gage height, 10.43 feet); minimum observed, 10 second-feet Aug. 18, 21, 1920.

Remarks.- Records good except those for period of no gage-height record, which are fair. Station is below all large diversions for irrigation in Boise Valley; many diversions above. Flow regulated by Arrowrock Reservoir (see p. 128).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	298	704		602	513	458	568	742	358	70	34	32
2	301	688		608	624	444	602	868	503	78	32	33
3	296	638		698	562	439	638	632	931	77	34	35
4	275	688		556	590	472	590	216	1,010	75	34	35
5	292	686		529	620	456	472	64	792	68	35	35
6	321	762		551	614	439	399	28	503	66	33	36
7	374	742		534	545	425	374	24	370	34	33	36
8	416	680		508	508	425	492	174	195	30	31	38
9	403	638	a580	608	513	430	472	482	788	30	33	35
10	390	614		529	482	453	434	354	876	31	33	32
11	444	602		508	453	448	378	135	1,110	41	35	36
12	584	602		503	458	434	492	121	1,420	38	35	34
13	692	602		518	468	425	556	130	1,240	28	32	38
14	632	579		513	472	408	596	403	1,100	27	36	41
15	602	556		529	453	421	492	1,200	1,240	50	31	40
16	602	634		529	448	416	412	1,880	1,330	41	32	101
17	602	645	584	545	444	412	345	1,880	1,330	52	35	119
18	488	562	596	545	434	425	354	1,790	1,150	46	36	125
19	463	814	602	640	430	421	311	1,080	882	48	33	128
20	584	1,150	626	529	425	416	412	603	608	46	35	143
21	620	1,420	626	529	430	403	508	276	412	49	34	146
22	614	1,280	632	624	430	399	338	147	584	52	34	156
23	662	1,200	626	540	498	408	178	92	704	52	32	166
24	696	1,200	632	662	534	408	146	78	477	63	29	178
25	674	1,200	632	545	556	551	165	74	314	48	27	181
26	662	966	626	529	556	684	139	65	253	37	26	176
27	650	704	614	529	534	568	150	56	288	31	26	171
28	668	f584	579	503	477	545	161	54	144	32	28	153
29	716	a550	662	503	463	534	346	99	102	31	29	147
30	749	a550	568	503	-	540	492	92	76	30	30	169
31	736	-	579	498	-	551	-	155	-	34	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	16,475	749	273	531	32,680
November	23,000	1,420	634	787	45,620
December	17,984	652	-	577	35,470
Calendar year 1943	1,135,646	20,500	88	3,111	2,253,000
January	16,545	608	498	534	32,820
February	14,434	620	425	498	28,630
March	14,160	584	399	457	28,080
April	11,998	638	139	400	23,800
May	14,032	1,880	24	453	27,830
June	21,059	1,420	76	702	41,770
July	1,390	78	26	44.8	2,760
August	992	36	26	32.0	1,970
September	2,795	181	32	93.2	5,540
Water year 1943-44	154,764	1,880	24	423	307,000

a No gage-height record; discharge computed on basis of record for station at Boise.
 f Computed on basis of partly estimated gage-height record.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Diversions from Boise River, Idaho

Twenty-seven principal canals and several small farm laterals divert water from Boise River for irrigation below mouth of Moore Creek and between gaging stations at Dowling Ranch and Notus. Records for years 1910-44 are available; record of daily diversions after 1915 on file in office of Idaho State Reclamation Engineer.

Daily gage-height records obtained, frequent discharge measurements made, and records summarized under direction of W. E. Welsh, watermaster for Boise River.

Diversions, in acre-feet, from Boise River below Moore Creek and between Dowling Ranch and Notus gaging stations during irrigation season of 1944

Canal	Diversion
Main canal of Bureau of Reclamation (New York).....	*611,400
Penitentiary.....	1,750
Ridenbaugh.....	125,100
Bubb (South Boise Mutual Irrigation Co.).....	4,300
Consumers Water Corp. (Cruzen).....	5,840
Boise City Canal Co. (No. 1).....	8,870
Settlers Irrigation District.....	39,730
Thurman Mill.....	9,590
Farmers Union Ditch Co. (includes Boise Valley Irrigation Canal Co. diversion).....	44,940
New Union Ditch Co. (Little Union).....	3,900
New Dry Creek Ditch Co.....	17,450
Ballantine Ditch Co.....	3,580
Eagle Island Canals (?).....	12,350
Middleton Irrigation Association (Middleton Water Co.).....	39,200
Middle Mill ditch (after July 10 combined with Middleton Irrigation Association).....	11,030
Phyllis.....	54,550
Bureka Water Co. (No. 1).....	7,900
Pioneer Ditch Co. (Little Pioneer).....	7,190
Canyon County Water Co.....	18,550
Caldwell High Line.....	20,260
Riverside Irrigation District, Ltd. (No. 2).....	41,340
Farmers Cooperative Ditch Co.....	70,200
Canyon Ditch Co. (Campbell).....	4,390
Selbenberg Cooperative Ditch Co.....	2,470
Pioneer-Dixie Ditch Co.....	15,210
Bureka Ditch Co. (No. 2).....	11,730
Upper Center Point.....	4,090
Lower Center Point.....	4,870
Miscellaneous.....	6,980
Total.....	1,239,000

* Total as furnished by watermaster from a separate computation made for operational purposes and may differ slightly from the quantity computed by Geological Survey at end of year and published as New York Canal near Barber (see 135).

Combined monthly discharge of canals diverting from Boise River, Idaho, during irrigation season of 1944

Month	Discharge in second-feet			Runoff in acre-feet
	Maximum	Minimum	Mean	
April.....	3,355	24	1,400	83,540
May.....	5,668	3,745	5,080	312,300
June.....	5,337	3,862	4,588	273,000
July.....	4,573	3,657	4,245	261,000
August.....	3,532	2,688	3,146	193,400
September.....	3,220	1,176	1,938	115,300
The period.....	-	-	-	1,239,000

South Fork Boise River at Anderson Ranch Dam, Idaho

Location.- Water-stage recorder, lat. 43°20', long. 115°29', in SW¼ sec. 11, T. 1 S., R. 8 E., 600 feet upstream from Dixie Creek, 1½ miles downstream from Anderson Ranch Reservoir, and 2½ miles northwest of Bennett (Dixie store).

Drainage area.- 992 square miles (including that of Dixie Creek).

Records available.- April 1943 to September 1944 (include flow of Dixie Creek).

Extremes.- Maximum discharge during year, 3,080 second-feet May 15; maximum gage height, 6.32 feet Jan. 10 (ice jam); minimum discharge, 184 second-feet (regulated) Sept. 10 (gage height, 2.25 feet); minimum daily, 194 second-feet Sept. 15.
1943-44: Maximum discharge, 9,100 second-feet Apr. 17, 1943 (gage height, 10.06 feet); minimum, that of Sept. 10, 1944; minimum daily, that of Sept. 15, 1944.

Remarks.- Records excellent except those for periods of ice effect, which are poor. Some water stored in Little Camas Reservoir and diverted for irrigation of about 5,000 acres of land in vicinity of Mountain Home. Flow regulated by Anderson Ranch Reservoir, now under construction.

Cooperation.- Water-stage recorder inspected by Bureau of Reclamation.

Rating tables, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 5

Nov. 6 to Sept. 30

2.6	245	2.2	172	3.3	602	5.0	1,880
2.8	324	2.4	225	3.5	776	5.6	2,440
3.0	420	2.7	325	4.0	1,060	6.3	3,180
3.2	530	3.0	447	4.5	1,440		
3.5	705						

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	278	365	398	386	340	295	647	1,860	2,180	1,200	353	219
2	276	347	369	365	350	281	704	1,840	2,010	1,140	357	231
3	276	370	366	300	350	295	854	1,470	1,910	1,040	357	237
4	287	508	365	250	340	323	1,020	1,500	1,680	973	350	237
5	271	681	357	300	*331	306	1,090	1,870	1,580	938	334	251
6												
7	282	522	338		339	288	1,050	2,010	1,580	982	323	225
8	295	429	312		353	272	973	2,240	1,590	827	309	219
9	282	434	*373		350	302	959	2,210	1,740	776	306	208
10	278	447	295		350	338	882	2,140	2,100	728	298	203
11	286	429	272		316	390	854	2,020	1,840	715	285	197
12												
13	395	420	240		280	373	938	2,020	1,790	681	281	200
14	410	411	260		280	361	1,280	2,090	1,730	641	272	200
15	361	411	270		270	353	1,050	2,370	1,720	619	262	197
16	342	405	270		300	354	938	2,670	1,720	586	246	200
17	353	598	290		300	312	840	2,850	1,720	559	249	194
18				350								
19	329	394	290		298	353	840	2,920	1,720	558	249	197
20	380	394	290		306	402	789	2,720	1,450	517	237	222
21	316	394	310		302	462	740	2,420	1,540	501	234	243
22	329	394	350		292	491	715	2,130	1,480	512	231	246
23	329	398	398		265	462	789	1,920	1,670	517	234	246
24												
25	375	394	394		292	416	770	1,760	1,640	512	234	240
26	375	390	377		309	416	847	1,740	1,560	476	234	234
27	355	386	338		306	4447	910	1,620	1,490	447	231	231
28	400	382	342		298	462	1,130	1,490	1,470	434	231	228
29	415	373	342		312	398	1,260	1,420	1,530	411	222	225
30												
31	400	365	300		298	394	1,180	1,590	1,600	406	225	228
32	395	354	260		295	387	1,230	1,480	1,490	415	222	219
33	464	331	240		295	350	1,380	1,840	1,340	390	225	222
34	624	350	260	350	302	390	1,650	1,740	1,210	377	219	228
35	458	342	300		-	457	1,760	2,030	1,180	361	219	245
36	410	-	350		-	548	-	2,200	-	357	222	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches	Acro-feet
October	10,954	524	267	349	0.368	0.41	21,490
November	12,199	681	331	407	.410	.46	24,300
December	9,905	398	240	320	.323	.37	19,680
Calendar year	-	-	-	-	-	-	-
January	10,581	-	250	341	.344	.40	20,990
February	8,998	353	260	310	.312	.34	17,230
March	11,625	548	272	375	.378	.44	23,080
April	30,050	1,760	647	1,002	1.01	1.15	59,600
May	51,380	2,950	1,390	1,980	2.00	2.30	121,700
June	49,280	2,180	1,180	1,642	1.66	1.85	97,710
July	19,478	1,200	557	625	.635	.75	38,050
August	8,547	367	219	266	.269	.31	16,360
September	5,650	246	194	222	.224	.25	13,180
Water year 1943-44	239,197	2,950	104	654	.656	8.99	474,400

* Winter discharge measurement made on this day.

Notes.- Stage-discharge relation affected by ice Dec. 11-19, 26-31, Jan. 3 to Feb. 4, Feb. 11-15.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

South Fork Boise River near Lenox, Idaho

Location.- Water-stage recorder, lat. 43°30', long. 115°41', in sec. 24, T. 2 N., R. 6 E., 1 1/2 miles upstream from Smith Creek, 4 miles upstream from flow line of Arrowrock Reservoir, 4 miles west of discontinued Lenox post office, 13 miles upstream from mouth, and 17 miles upstream from Arrowrock Dam.

Drainage area.- 1,090 square miles.

Records available.- March 1911 to September 1944.

Average discharge.- 33 years, 965 second-feet.

Extremes.- Maximum discharge during year, 3,180 second-feet May 16 (gage height, 6.06 feet); minimum, 193 second-feet Sept. 15, 16 (gage height, 1.96 feet).

1911-44: Maximum discharge, 9,550 second-feet Apr. 17, 1943 (gage height, 10.05 feet); minimum, 111 second-feet Aug. 10, 1934; minimum gage height, 1.68 feet Sept. 5-7, 1931.

Remarks.- Records excellent except those for periods of no gage-height record, which are fair, and those for periods of ice effect, which are poor. Some water stored in Little Camas Reservoir and diverted for irrigation of about 5,000 acres of land in vicinity of Mountain Home.

Cooperation.- One discharge measurement furnished by Water District No. 12A.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a330	464	427	403	359	a350	705	1,680	2,220	1,210	395	225
2	a330	419	427	397	383	a330	1,740	2,120	1,120	340	228	
3	a320	423	403	356	383	a360	900	1,560	1,980	1,080	395	238
4	a320	490	407	270	*357	a370	1,050	1,520	1,780	1,020	387	245
5	a320	705	403	320	379	a360	1,110	1,700	1,660	960	379	242
6	a330	641	395		383	a340	1,110	2,020	1,600	930	363	235
7	a380	502	344		399	a320	1,050	2,320	1,800	872	362	228
8	a350	464	*383		403	a350	1,020	2,320	1,700	868	340	222
9	344	490	363		407	a390	960	2,220	2,170	779	332	212
10	348	481	252		371	a440	930	2,120	1,930	757	317	206
11	399	469	270		336	a420	980	2,120	1,880	730	309	206
12	490	469	280		300	a410	1,280	2,170	1,780	695	298	202
13	440	460	290	370	290	*403	1,140	2,430	1,740	666	280	199
14	419	452	290		330	391	1,020	2,760	1,740	656	266	196
15	407	448	300		330	371	930	3,060	1,740	602	262	195
16	403	448	300		320	395	950	3,060	1,740	579	262	193
17	399	452	320		330	469	872	2,880	1,700	565	255	215
18	395	436	350		340	542	823	2,590	1,680	547	248	248
19	391	436	395		332	560	784	2,270	1,480	542	245	259
20	395	436	415		a300	542	846	2,020	1,660	547	242	262
21	431	436	431	340	a330	498	845	1,830	1,650	556	242	289
22	448	436	419	352	a350	481	872	1,780	1,600	526	242	262
23	440	431	383	369	a350	502	930	1,700	1,620	498	242	245
24	460	427	375	352	a340	533	1,090	1,680	1,460	481	242	245
25	477	423	375	344	a350	485	1,320	1,480	1,620	464	338	238
26	477	419	350		a330	456	1,210	1,400	1,520	448	228	235
27	464	395	270		a340	436	1,240	1,440	1,480	452	228	231
28	481	363	250		a340	407	1,560	1,520	1,440	440	228	228
29	583	391	270	340	a350	436	1,650	1,650	1,240	423	228	231
30	542	371	306		-	520	1,780	2,020	1,180	411	222	248
31	498	-	356		-	588	-	2,270	-	399	225	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches	Acres-feet
October	12,811	583	320	413	0.379	0.44	25,410
November	15,677	705	363	456	.418	.47	27,130
December	10,799	431	250	348	.319	.37	21,420
Calendar year 1943	679,682	9,170	-	1,662	1.71	23.21	1,348,000
January	11,075	403	-	357	.328	.38	21,960
February	10,142	407	290	350	.321	.36	20,120
March	15,445	588	320	434	.398	.46	26,670
April	31,474	1,780	705	1,049	.962	1.07	62,439
May	63,410	3,060	1,400	2,045	1.88	2.16	125,800
June	50,260	2,220	1,180	1,675	1.64	1.71	99,690
July	20,825	1,210	399	672	.617	.71	41,310
August	8,587	395	222	287	.265	.30	17,650
September	6,666	262	193	229	.210	.25	13,620
Water year 1943-44	255,669	3,060	193	693	.636	8.65	603,900

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for station at Anderson Ranch Dam.

Note.- Stage-discharge relation affected by ice Dec. 11-18, 26-29, Jan. 4-20, 26-31, Feb. 12-17, 1944.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

BOISE RIVER BASIN

Little Camas Canal at heading, near Bennett, Idaho

Location.- Staff gage, lat. 43°21'30", long. 115°23', in sec. 9, T. 1 S., R. 9 E., 400 feet downstream from Little Camas Reservoir, 4 miles northeast of Bennett, and 22 miles northeast of Mountain Home.

Records available.- June to November 1917, April 1924 to September 1944.

Extremes.- Maximum discharge observed during year, 58 second-feet May 24-27, May 31 to June 8 (gage height, 2.18 feet); no flow during long periods.

1917, 1924-44: Maximum discharge observed, 77 second-feet Apr. 27-30, May 1, 3, 9, 1924; no flow during nonirrigation seasons.

Remarks.- Records good. Gage read once daily. Canal diverts from Little Camas Reservoir (South Fork Boise River drainage) in sec. 9, T. 1 S., R. 9 E., and discharges into Long Tom Creek Basin, where water is stored in Long Tom Reservoir for irrigation of 5,000 acres of land near Mountain Home. No diversions above station. Flow regulated by head gates at Little Camas Reservoir.

Cooperation.- Gage-height record furnished by Mountain Home Irrigation District.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54					0	18	32	58	22	52	53
2	53					0	22	40	58	22	53	52
3	19					0	22	40	58	27	53	53
4	0					0	26	39	58	27	53	53
5	0					0	a26	46	58	31	53	52
6	0					0	25	46	58	37	53	51
7	0					0	27	45	58	46	53	51
8	0					0	26	51	58	47	53	51
9	0					0	34	50	57	47	53	50
10	0					0	33	50	53	53	53	51
11	0					0	37	50	53	53	53	50
12	0					0	37	50	53	53	53	50
13	0					0	37	50	53	52	53	50
14	0					0	41	50	52	53	53	50
15	0					0	41	50	53	53	53	50
16	0					0	29	50	52	53	53	50
17	0					0	0	56	54	53	53	50
18	0					0	0	56	54	53	53	48
19	0					0	0	56	a55	52	a52	48
20	0					a5	0	56	56	53	52	46
21	0					a10	0	56	57	53	53	49
22	0					a10	0	a56	24	53	53	42
23	0					10	0	56	0	53	53	14
24	0					13	0	58	0	52	52	0
25	0					13	0	58	0	53	53	0
26	0					a13	a7	58	0	53	53	0
27	0					13	17	58	0	53	53	0
28	0					13	22	57	0	53	53	0
29	0					18	22	57	0	53	a53	0
30	0					18	32	57	a9	53	53	0
31	0					a18	-	58	-	53	52	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	126	54	0	4.1	250
November.....	0	0	0	0	0
December.....	0	0	0	0	0
Calendar year 1943.....	4,449	56	0	12.2	8,810
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	154	18	0	5.0	305
April.....	882	41	0	19.4	1,150
May.....	1,593	58	32	51.4	3,180
June.....	1,199	58	0	40.0	2,380
July.....	1,469	53	22	47.4	2,910
August.....	1,638	53	52	52.8	3,250
September.....	1,113	53	0	37.1	2,210
Water year 1943-44.....	7,874	58	0	21.5	15,620

a No gage-height record; discharge computed on basis of reported change in gate opening, or interpolated.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Moore Creek near Arrowrock, Idaho

Location.- Staff gage, lat. 43°35', long. 115°59', in sec. 21, T. 3 N., R. 4 E., at bridge on Boise-Arrowrock highway, a quarter of a mile upstream from mouth and 3 miles south-west of Arrowrock.

Drainage area.- 426 square miles.

Records available.- October 1914 to November 1915 (discharge measurements only), December 1915 to September 1944.

Average discharge.- 28 years (1916-44), 290 second-feet.

Extremes.- Maximum discharge observed during year, 762 second-feet Apr. 26 (gage height, 2.92 feet); minimum observed, 22 second-feet Aug. 29 to Sept. 1, Sept. 10, 12-14 (gage height, 0.50 foot).

1915-44: Maximum discharge, 6,610 second-feet Apr. 8, 1943 (gage height, 7.1 feet, from high-water mark); minimum observed, 7.9 second-feet Aug. 13-15, 17, 18, 1924.

Remarks.- Records fair. Gage read once daily. No large diversions above station.

Cooperation.- Gage readings and two discharge measurements furnished by Water District No. 12A.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

0.5	22	1.0	85	2.3	432
.6	30	1.2	124	2.6	580
.7	40	1.4	167	3.0	810
.8	53	1.7	241		
.9	68	2.0	326		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	112	96	100	85	104	339	602	279	128	40	22
2	48	96	100	96	89	100	365	585	268	120	40	25
3	48	94	96	71	96	104	441	468	302	116	40	27
4	48	145	96	43	128	124	525	432	308	112	38	28
5	48	290	96	65	112	120	564	441	252	112	38	29
6	50	196	89	78	145	104	505	466	295	108	36	28
7	53	145	52	65	200	96	432	515	215	104	34	27
8	56	128	93	82	192	112	416	515	200	100	34	24
9	56	120	78	56	176	128	401	475	236	96	32	24
10	56	116	48	56	132	210	393	441	220	93	32	22
11	71	112	40	59	100	200	386	424	285	89	32	24
12	78	112	48	59	96	190	657	424	279	85	30	22
13	78	108	48	68	82	181	547	424	252	78	30	22
14	68	108	48	71	96	128	505	441	220	75	30	22
15	68	104	50	93	104	132	466	441	257	75	28	24
16	65	100	53	78	85	167	432	424	246	68	28	25
17	65	98	68	93	100	205	401	390	263	65	27	32
18	65	93	82	92	89	274	365	372	236	62	26	34
19	65	93	89	75	96	274	345	401	210	62	25	36
20	66	100	100	71	89	225	416	332	195	53	25	36
21	78	100	104	66	75	190	409	302	210	68	25	36
22	91	96	108	75	108	186	505	296	241	62	25	36
23	96	93	102	85	96	200	536	285	228	59	25	34
24	104	93	96	85	89	236	624	268	195	56	24	32
25	100	89	108	75	100	200	690	252	176	53	24	34
26	100	93	100	78	96	172	762	236	163	52	24	32
27	96	93	62	71	85	154	547	236	163	50	24	30
28	100	86	43	83	96	154	569	231	163	45	24	32
29	145	85	48	71	100	181	569	225	149	43	22	32
30	145	89	78	65	-	225	613	236	141	40	22	34
31	128	-	96	75	-	252	-	263	-	43	22	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acre-feet
October	2,379	145	48	76.7	0.180	0.21	4,720
November	3,385	290	85	113	.265	.30	6,710
December	2,445	108	40	78.9	.185	.21	4,850
Calendar year 1943	237,449	5,210	40	661	1.53	20.73	470,900
January	2,242	100	43	78.3	.170	.20	4,450
February	3,122	200	68	108	.254	.27	6,190
March	5,327	274	96	172	.404	.47	10,570
April	14,725	762	339	491	1.15	1.29	29,210
May	11,775	602	225	390	.892	1.03	23,360
June	6,780	308	141	226	.531	.59	13,480
July	2,372	128	40	76.5	.180	.21	4,700
August	906	40	22	29.2	.069	.06	1,900
September	569	36	22	29.0	.068	.06	1,720
Water year 1943-44	56,327	762	22	164	.362	4.94	111,700

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

New York Canal near Barber, Idaho

Location.— Water-stage recorder in trapezoidal concrete-lined canal section, lat. 43°33', long. 116°07', in SE¼ sec. 32, T. 3 N., R. 3 E., 1 mile south of Barber and 1½ miles downstream from head gates at Boise River diversion dam and power plant.

Records available.— February 1939 to September 1944.

Extremes.— Maximum discharge during year, 2,750 second-feet May 19 (gage height, 8.86 feet); no flow for long periods during year.
1939-44: Maximum discharge, 2,890 second-feet May 5, 1939; maximum gage height, 9.18 feet May 29, 1941; no flow for long periods each year.

Remarks.— Records good except those for Apr. 3-15, Sept. 19, which are fair. Canal diverts from Boise River in sec. 3, T. 2 N., R. 3 E., 8 miles below Moore Creek, for irrigation of 166,396 acres included in Boise project of Bureau of Reclamation and as a feeder canal for Deer Flat Reservoir near Caldwell (see p. 136); Flow regulated by head gates.

Cooperation.— Eleven discharge measurements furnished by Board of Control for Boise project and Water District No. 12A.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	942	0	1,560		0	886	0	2,200	2,560	2,180	1,830	1,480
2	970	0	1,240		0	885	0	2,280	2,590	2,180	1,830	1,420
3	946	0	1,130		0	890	a120	2,320	2,550	2,180	1,770	1,420
4	980	0	1,120		0	911	b370	2,350	2,520	2,210	1,750	1,400
5	956	0	1,120		f49	914	590	2,340	2,520	2,220	1,690	f511
6	928	0	1,120		505	900	h605	2,440	2,520	2,220	1,670	0
7	956	0	1,110		592	890	h275	2,520	2,520	2,260	1,650	0
8	967	0	1,130		789	908	h435	2,580	2,540	2,260	1,600	0
9	1,070	0	937		998	928	h212	2,650	2,590	2,270	1,590	0
10	1,100	0	528		1,100	988	h212	2,670	2,660	2,290	1,590	0
11	1,096	0	518		1,160	992	h210	2,670	2,600	2,280	1,570	0
12	1,140	0	536		1,160	974	h308	2,670	2,440	2,290	1,560	f557
13	1,130	0	540		1,140	974	428	2,680	2,340	2,220	1,580	1,290
14	1,050	0	f453		1,160	942	h777	2,650	2,330	2,280	1,560	1,260
15	1,040	0	0		1,150	942	h1,100	2,690	2,260	2,240	1,490	1,300
16	1,060	0	0		855	964	1,240	2,700	2,200	2,220	1,500	1,300
17	1,060	0	0		886	1,020	1,280	2,730	2,180	2,210	1,510	1,240
18	f798	0	0		862	1,120	1,600	2,720	2,180	2,220	1,490	f799
19	0	0	0		869	1,150	1,600	2,740	2,160	2,240	1,410	a230
20	0	0	0		862	1,130	1,700	2,700	2,200	2,230	1,430	0
21	0	0	0		f972	1,100	1,650	2,620	2,240	2,140	1,470	0
22	0	0	0		0	1,090	1,370	2,560	2,180	2,080	1,490	0
23	0	0	0		0	f894	1,180	2,530	2,140	2,020	1,530	0
24	0	0	0		0	0	1,280	2,600	1,990	2,000	1,580	0
25	0	f183	0		0	0	1,480	2,480	2,000	1,960	1,670	0
26	0	753	0		f51	0	1,600	2,370	2,060	1,950	1,580	0
27	0	964	0		440	0	1,630	2,260	2,080	1,960	1,500	f283
28	0	1,140	0		680	0	1,750	2,280	2,000	1,950	1,510	783
29	0	1,280	0		822	0	1,940	2,400	1,980	1,930	1,550	888
30	0	1,370	0		-	0	2,100	2,350	2,130	1,850	1,510	694
31	0	-	0		-	0	2,400	2,400	-	1,620	1,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	18,101	1,140	0	584	35,900
November.....	5,690	1,370	0	190	11,290
December.....	12,840	1,360	0	414	28,470
Calendar year 1943.....	460,015	2,740	0	1,260	912,500
January.....	0	0	0	0	0
February.....	16,770	1,180	0	578	33,260
March.....	22,390	1,150	0	722	44,410
April.....	28,942	2,100	0	965	57,410
May.....	78,040	2,740	2,800	2,517	154,800
June.....	69,260	2,960	1,980	2,509	137,400
July.....	66,440	2,390	1,620	2,143	131,800
August.....	48,780	1,830	1,410	1,574	96,780
September.....	17,335	1,480	0	578	34,380
Water year 1943-44.....	584,588	2,740	0	1,061	782,900

a No gage-height record; discharge computed on basis of records for Boise River at Boise, Boise River near Arrowrock, and Moore Creek near Arrowrock, or from information furnished by Board of Control for Boise project.

f Computed from partly estimated gage-height record.

h Computed from staff-gage readings.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Deer Flat Reservoir near Caldwell, Idaho

Location.— Staff gages attached to outlet structures at each end of reservoir. One gage is at lower embankment, lat. 43°35', long. 116°45', in SE $\frac{1}{4}$ sec. 19, T. 3 N., R. 3 W., 5 miles south and 2 miles west of Caldwell; the other is at upper embankment, lat. 43°34', long. 116°39', in NW $\frac{1}{4}$ sec. 36, T. 3 N., R. 3 W., 1 mile south and 4 miles west of Nampa. Datum of gage is 2,500.5 feet above mean sea level (surveys of Bureau of Reclamation).

Records available.— October 1917 to September 1944.

Extremes.— Maximum contents observed during year, 177,700 acre-feet Apr. 27, 28 (gage height, 30.06 feet); minimum observed, 21,360 acre-feet Sept. 30.
1917-44: Maximum contents observed, 178,900 acre-feet Apr. 27, 28, 1922, Apr. 24, 1932 (gage height, 30.18 feet); minimum observed, 5,390 acre-feet Oct. 22, 1924.

Remarks.— Reservoir is formed by two earth embankments; dams were completed and storage began in 1908. Capacity, 177,150 acre-feet, between gage heights 0.0 foot (sill of outlet gates) and 30.0 feet (maximum operating level). Dead storage, about 13,000 acre-feet. Below gage height 12.0 feet reservoir divides into two pools. In addition to water received from local drainage, reservoir receives water from Boise River through New York Canal of Boise project. Water is used for irrigation of lower project lands. Figures given herein represent usable contents. Gage read once daily.

Cooperation.— Gage-height record and capacity table furnished by Board of Control for Boise project.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46,370	59,060	72,920	97,910	98,130	126,700	158,500	176,400	137,400	170,300	100,100	46,790
2	45,630	59,060	75,180	97,910	98,200	128,100	158,700	177,300	137,800	167,500	98,130	44,440
3	45,450	59,420	77,560	97,910	98,720	129,600	158,500	177,400	139,100	164,900	96,370	43,070
4	45,080	59,660	79,920	97,910	98,790	131,200	158,200	177,400	141,100	162,400	94,620	41,820
5	44,760	59,780	82,090	97,980	98,870	132,700	158,000	176,900	143,500	160,000	92,600	40,460
6	44,500	60,020	84,570	98,060	99,090	134,200	158,900	175,300	145,400	157,600	91,030	39,290
7	44,230	60,200	86,160	98,060	99,460	135,700	159,900	173,600	147,100	154,800	89,390	38,160
8	43,970	60,320	88,190	98,060	100,400	137,100	160,300	172,400	148,600	152,100	87,630	37,040
9	43,970	60,620	89,960	98,130	101,600	138,700	160,700	171,000	149,800	149,700	86,090	35,850
10	44,340	60,750	91,890	98,130	103,000	140,100	160,900	169,600	151,400	147,000	84,290	34,850
11	44,870	60,870	93,320	98,130	104,600	141,600	160,900	168,300	153,500	144,400	82,640	34,000
12	45,290	60,990	94,330	98,130	106,700	143,100	160,800	166,600	155,800	142,200	81,140	32,640
13	46,100	61,290	95,060	98,130	108,700	144,800	160,700	165,100	157,800	139,900	79,780	31,280
14	46,910	61,490	96,160	98,130	111,100	146,000	161,100	163,700	160,000	137,400	77,900	30,160
15	47,500	61,660	97,100	98,130	113,100	147,500	161,900	162,400	162,300	134,300	75,900	29,210
16	48,980	61,840	97,470	98,130	115,400	148,900	163,900	160,800	164,400	132,100	74,180	28,230
17	51,330	61,960	97,470	98,130	117,000	150,400	165,400	159,200	166,400	129,800	72,230	27,480
18	53,660	62,090	97,470	98,130	118,600	152,000	167,500	157,700	168,600	127,500	70,420	26,730
19	55,570	62,270	97,540	98,130	119,900	153,600	169,300	156,000	170,600	125,300	68,380	26,070
20	56,100	62,510	97,760	98,130	121,600	155,100	171,400	154,600	171,800	123,100	66,610	25,530
21	56,270	62,640	97,840	98,130	122,900	156,400	173,200	153,600	173,400	121,000	64,800	24,860
22	56,690	62,880	97,840	98,060	124,000	157,700	175,400	152,300	174,800	118,900	62,980	24,410
23	56,980	63,000	97,840	98,060	124,500	159,100	176,400	151,500	176,100	116,900	61,290	23,960
24	57,210	63,130	97,840	98,060	124,500	160,400	176,900	150,200	177,100	115,100	59,420	23,400
25	57,450	63,250	97,840	98,060	124,500	160,600	177,200	148,400	177,100	113,700	57,690	22,990
26	57,610	63,360	97,840	98,060	124,500	160,400	177,400	148,700	176,900	111,400	55,860	22,510
27	58,100	64,360	97,840	98,060	124,500	160,100	177,700	144,900	176,400	109,400	54,290	22,470
28	58,280	66,240	97,840	98,060	124,500	159,800	177,700	142,800	175,800	107,300	52,690	22,240
29	58,580	68,130	97,840	98,060	125,400	159,500	177,100	140,800	174,600	105,600	50,880	21,880
30	58,880	70,230	97,840	98,060	-	159,400	176,600	139,200	172,600	103,900	49,210	21,360
31	59,060	-	97,910	98,060	-	159,200	-	138,100	-	101,800	47,500	-

Monthly gage height and contents, water year October 1943 to September 1944

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	12.62	46,370	-
Oct. 31.....	14.88	59,060	+12,690
Nov. 30.....	18.65	70,230	+11,170
Dec. 31.....	20.67	97,910	+27,680
Calendar year 1943.	-	-	+6,170
Jan. 31.....	20.89	98,060	+150
Feb. 29.....	24.21	125,400	+27,340
Mar. 31.....	28.11	159,200	+33,800
Apr. 30.....	29.84	176,600	+17,400
May 31.....	25.72	138,100	-38,500
June 30.....	29.63	172,600	+34,500
July 31.....	21.19	101,800	-70,800
Aug. 31.....	12.83	47,500	-54,300
Sept. 30.....	(Upper) 7.30 (Lower) 7.20	21,360	-26,140
Water year 1943-44.	-	-	-26,010

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Malheur River near Drewsey, Oreg.

Location.— Water-stage recorder, lat. 43°47', long. 118°20', in SE¼ sec. 31, T. 20 S., R. 36 E., 300 feet downstream from crossing of Burns-Ontario highway, half a mile downstream from Cottonwood Creek, and 3 miles southeast of Drewsey. Datum of gage is 3,479.29 feet above mean sea level, datum of 1929.

Drainage area.— 982 square miles.

Records available.— June to December 1920, April to September 1921, June 1939 to September 1944. April to September 1923, June 1926 to June 1939 at site 7 miles downstream.

Records practically equivalent.

Average discharge.— 18 years (1926-44), 153 second-feet.

Extremes.— Maximum discharge during year, 1,200 second-feet Mar. 10 (gage height, 6.94 feet); minimum, 6.3 second-feet Aug. 31, Sept. 1 (gage height, 2.47 feet).

1920-21, 1923, 1926-44: Maximum discharge, 4,290 second-feet Feb. 27, 1940 (gage height, 11.35 feet), from rating curve extended above 2,500 second-feet; no flow at times.

Remarks.— Records good except those for periods of shifting control, which are fair, and those for periods of ice effect, which are poor. Several small diversions above station for irrigation.

Rating tables, water year 1943-44, except periods of ice effect or shifting control (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Feb. 7

Feb. 8 to Sept. 30

2.7	13	4.0	214	2.5	7.1	3.5	128
2.8	19	4.5	332	2.6	11	4.0	233
3.0	39	5.0	494	2.8	26	4.5	353
3.2	64	5.5	610	3.0	46	5.0	485
3.5	114			3.2	77	5.5	630

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	64	74	61	70	87	275	173	56	32	9.8	6.5
2	19	60	72	64	75	93	292	155	64	25	9.4	7.1
3	18	63	70	74	95	99	312	141	52	26	8.5	7.1
4	17	72	74	58	125	83	353	130	46	26	8.7	7.5
5	15	97	72	35	130	82	353	121	43	27	8.7	8.3
6	15	94	58	35	*300	74	346	114	40	26	8.7	8.7
7	15	75	45	30	624	77	336	121	36	23	8.3	8.7
8	14	67	63	30	231	103	306	128	34	18	8.3	8.3
9	14	72	64	35	132	317	290	132	49	15	8.3	8.7
10	13	58	58	35	110	600	249	126	64	19	8.3	8.3
11	15	77	43	50	95	310	251	115	59	20	7.9	8.3
12	15	75	40	45	87	228	306	107	51	21	7.9	8.3
13	17	75	37	45	88	199	306	100	46	24	7.9	8.7
14	19	74	38	50	77	128	302	96	41	18	8.3	9.0
15	23	72	40	55	82	115	290	96	40	15	8.3	9.4
16	24	72	40	*60	76	161	304	93	76	14	8.3	9.8
17	25	72	39	65	74	499	247	93	184	14	8.3	9.8
18	27	75	43	60	72	657	210	85	139	14	8.7	9.8
19	29	74	51	55	71	558	199	80	108	14	8.3	10
20	30	77	58	50	76	343	206	72	85	14	8.3	11
21	45	78	63	55	72	226	219	58	76	14	8.3	11
22	60	70	78	55	74	199	240	56	112	13	7.9	12
23	61	78	69	60	77	224	255	56	114	12	7.5	16
24	64	70	63	65	76	338	228	55	103	12	7.1	16
25	66	69	61	60	74	240	222	51	79	11	7.1	16
26	69	67	60	60	82	178	195	47	64	11	7.9	15
27	67	64	59	50	76	151	184	41	54	11	8.3	14
28	66	61	42	40	77	136	186	33	47	11	8.3	14
29	70	66	40	45	82	145	182	28	46	10	7.5	14
30	67	72	51	55	-	206	173	27	37	9.8	7.1	16
31	67	-	58	65	-	240	-	38	-	9.4	6.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,065	70	13	35.0	2,150
November.....	2,270	97	60	72.5	4,300
December.....	1,716	74	37	55.4	3,400
Calendar year 1943.....	124,163	2,230	12	340	246,300
January.....	1,592	74	30	51.4	3,160
February.....	3,390	624	70	117	6,700
March.....	7,078	657	74	228	14,040
April.....	7,792	353	173	260	15,460
May.....	2,765	173	27	89.2	5,490
June.....	2,045	184	34	68.2	4,060
July.....	535.2	32	9.4	17.3	1,060
August.....	252.5	9.8	6.5	8.15	501
September.....	316.3	16	6.5	10.5	627
Water year 1943-44.....	30,727.0	657	6.5	84.0	60,940

* Winter discharge measurement made on this day.

Note.— Stage-discharge relation affected by ice Dec. 10-16, 27-29, Jan. 4, Jan. 6 to Feb. 6, Feb. 10, 11. Shifting-control method used July 4-27.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Malheur River below Warm Springs Reservoir, near Riverside, Oreg.

Location.— Hook gage, lat. 43°34', long. 118°12', in SW¼ sec. 17, T. 23 S., R. 37 E., 1 mile downstream from Warm Springs Dam, 3 miles upstream from South Fork, and 4 miles northwest of Riverside.

Drainage area.— 1,100 square miles.

Records available.— December 1914 to July 1917, March 1919 to September 1944. January 1906 to March 1907 and December 1908 to September 1910 at site at Riverside, 4 miles downstream, in reports of Geological Survey. October 1910 to November 1914 at site at Riverside, in reports of State engineer.

Average discharge.— 32 years (1909-16, 1919-44), 173 second-feet.

Extremes.— Maximum discharge observed during year, 765 second-feet July 15-20 (gage height, 5.44 feet); no flow Apr. 27 to May 1.
1906-7, 1908-17, 1919-44: Maximum discharge observed, 5,490 second-feet Mar. 2, 1910; no flow at times.

Remarks.— Records good except those for May 1 to July 7, which are fair, and those below 5 second feet, which are poor. Gage read once daily. Flow completely regulated since November 1919 by Warm Springs Reservoir (see p. 140). Several small diversions above station for irrigation.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used June 1 to July 7)

2.7	0	3.3	18	4.2	192
2.8	1.0	3.5	36	4.5	310
2.9	3.0	3.7	53	5.0	545
3.1	8.5	3.9	102	5.5	765

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	254	3.0	3.0	3.0	3.0	3.0	3.0	173	490	440	570	500
2	254	3.0	3.0	3.0	3.0	3.0	3.0	377	358	465	535	500
3	254	3.0	3.0	3.0	3.0	3.0	3.0	400	215	555	580	500
4	254	3.0	3.0	3.0	3.0	3.0	3.0	445	215	500	500	500
5	254	3.0	3.0	3.0	3.0	3.0	3.0	445	215	600	485	475
6	254	3.0	3.0	3.0	3.0	3.0	3.0	470	215	600	465	460
7	242	3.0	3.0	3.0	3.0	3.0	3.0	545	215	625	445	440
8	234	3.0	3.0	3.0	3.0	3.0	3.0	545	222	665	445	420
9	234	3.0	3.0	3.0	3.0	3.0	3.0	555	238	700	445	415
10	234	3.0	3.0	3.0	3.0	3.0	3.0	570	255	700	445	420
11	211	3.0	3.0	3.0	3.0	3.0	3.0	610	266	700	445	435
12	198	3.0	3.0	3.0	3.0	3.0	3.0	620	234	705	445	440
13	75	3.0	3.0	3.0	3.0	3.0	3.0	635	127	730	445	440
14	43.0	3.0	3.0	3.0	3.0	3.0	3.0	615	38	745	460	306
15	3.0	3.0	3.0	3.0	3.0	3.0	3.0	615	124	755	480	222
16	3.0	3.0	3.0	3.0	3.0	3.0	3.0	615	250	755	480	211
17	3.0	3.0	3.0	3.0	3.0	3.0	3.0	615	266	755	475	211
18	3.0	3.0	3.0	3.0	3.0	3.0	3.0	615	266	755	480	203
19	3.0	3.0	3.0	3.0	3.0	3.0	3.0	615	265	755	495	182
20	3.0	3.0	3.0	3.0	3.0	3.0	3.0	615	266	750	500	152
21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	615	158	725	500	125
22	3.0	3.0	3.0	3.0	3.0	3.0	3.0	615	48	740	500	118
23	3.0	3.0	3.0	3.0	3.0	3.0	3.0	615	92	710	500	68
24	3.0	3.0	3.0	3.0	3.0	3.0	3.0	605	125	680	500	45
25	3.0	3.0	3.0	3.0	3.0	3.0	3.0	595	115	645	500	14
26	3.0	3.0	5.0	3.0	3.0	3.0	3.0	580	134	610	500	1.0
27	3.0	3.0	3.0	3.0	3.0	3.0	0	565	143	600	500	1.0
28	3.0	3.0	3.0	3.0	3.0	3.0	0	545	203	600	500	1.0
29	3.0	3.0	3.0	3.0	3.0	3.0	0	545	292	580	500	1.0
30	3.0	3.0	3.0	3.0	3.0	3.0	0	545	410	585	500	1.0
31	3.0	-	3.0	3.0	-	3.0	-	545	-	590	500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	3,004.0	254	3.0	95.9	5,980
November.....	90.0	3.0	3.0	3.00	179
December.....	93.0	3.0	3.0	3.00	184
Calendar year 1943.....	130,647.0	1,860	2.0	358	250,100
January.....	93.0	3.0	3.0	3.00	184
February.....	87.0	3.0	3.0	3.00	173
March.....	93.0	3.0	3.0	3.00	184
April.....	78.0	3.0	0	2.60	155
May.....	17,055	635	173	550	33,850
June.....	6,466	490	38	215	12,610
July.....	20,480	765	440	561	40,620
August.....	15,060	570	445	485	29,870
September.....	7,805.0	500	1.0	260	15,480
Water year 1943-44.....	70,404.0	765	0	192	139,800

d Doubtful gage-height record; discharge interpolated.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Malheur River near Hope, Oreg.

Location.- Water-stage recorder, lat. 43°57', long. 117°29', in SW $\frac{1}{4}$ sec. 5 T. 19 S., R. 43 E., half a mile upstream from intake of Vines Canal and 6 $\frac{1}{2}$ miles west of Hope.

Drainage area.- 3,030 square miles.

Records available.- May 1919 to September 1944 (incomplete prior to October 1922).

Average discharge.- 21 years (1922-25, 1926-44), 225 second-feet.

Extremes.- Maximum discharge during year, 2,130 second-feet Mar. 10 (gage height, 4.24 feet); minimum recorded, 15 second-feet Jan. 4, but may have been less during periods of ice effect.

1919-44: Maximum discharge, 8,100 second-feet Feb. 5, 1925 (gage height, 8.1 feet); minimum, 3.5 second-feet Sept. 2, 1919 (gage height, 0.02 foot).

The two greatest floods known occurred in March 1894 and March 1910.

Remarks.- Records fair except those for periods of ice effect, which are poor. Vale-Oregon Canal diverts at Namoff; no other large diversions above station, but many small ones. Flow regulated by Warm Springs and Agency Valley Reservoirs (see following page).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	97	71	54	49	83	57	62	221	193	186	218	a160
2	91	69	54	48	97	56	78	278	169	150	213	a162
3	93	69	54	54	212	57	78	296	110	150	185	a172
4	98	73	54	34	598	64	76	180	80	190	170	a170
5	108	71	62	50	425	67	71	230	62	208	158	a178
6	108	69	60	50	749	67	66	166	60	199	147	a184
7	108	68	56	38	562	66	67	156	66	190	138	134
8	110	66	56	b35	406	65	78	240	54	186	126	122
9	108	65	b60	b56	212	325	65	230	67	216	154	115
10	117	62	46	b40	121	1,390	67	230	108	236	162	121
11	152	62	43	b45	96	610	a88	244	140	227	162	128
12	150	64	43	b45	91	308	a104	268	147	227	139	132
13	116	64	56	b50	74	196	a104	272	119	216	134	141
14	102	62	53	b50	77	145	a90	260	84	249	130	141
15	86	61	54	b55	71	117	74	256	70	266	134	126
16	66	61	64	b55	73	100	67	240	60	298	156	113
17	67	60	64	b60	71	202	45	248	61	294	165	129
18	53	60	61	b50	67	212	39	260	108	298	152	154
19	49	62	60	b55	62	183	38	272	123	302	146	183
20	57	62	64	b55	61	160	42	260	137	310	170	147
21	76	61	60	b50	60	135	-	256	212	290	176	130
22	73	57	66	b50	58	110	117	226	312	258	150	119
23	74	56	52	b55	60	93	121	230	137	296	191	113
24	74	55	53	b60	58	83	138	219	84	255	175	121
25	76	56	50	b56	58	80	138	199	74	246	173	106
26	73	55	49	b55	57	76	146	183	73	210	178	102
27	70	66	b45	b50	57	77	146	177	66	191	180	92
28	76	55	b50	b45	57	74	133	174	66	202	186	86
29	68	55	55	b45	57	69	144	163	64	215	198	79
30	61	54	53	b50	-	65	189	123	66	199	a156	75
31	76	-	50	b58	-	66	-	222	-	210	a160	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	2,758	152	49	90.0	5,470
November.....	1,857	73	54	61.9	3,680
December.....	1,678	64	43	54.1	3,330
Calendar year 1943.....	181,644	3,000	43	498	360,300
January.....	1,543	65	34	49.8	5,060
February.....	4,731	749	57	135	9,320
March.....	5,374	1,390	55	175	10,660
April.....	2,728	189	38	90.9	5,410
May.....	7,038	296	155	227	13,960
June.....	3,161	312	54	106	6,270
July.....	7,138	310	150	280	14,160
August.....	5,045	218	126	163	10,010
September.....	3,927	184	76	131	7,790
Water year 1943-44.....	46,978	1,390	34	128	95,180

a No gage-height record; discharge computed on basis of unpublished record for station near Namoff.

b Stage-discharge relation affected by ice.

Time basis, Pacific war time. To convert war time to standard time, subtract 1 hour.

MALHEUR RIVER BASIN

Reservoirs in Malheur River Basin, Oreg.

Warm Springs Reservoir.—Tape gage, lat. 43°35', long. 118°12', in SE¼ sec. 8, T. 23 S., R. 37 E., at dam on Malheur River, 4 miles upstream from South Fork and 4 miles northwest of Riverside. Datum of gage is 3,327 feet above mean sea level (surveys of Bureau of Reclamation); gage readings have been reduced to elevations above mean sea level. Drainage area, 1,100 square miles. Records available, January 1920 to September 1944. Maximum contents observed during year, 150,200 acre-feet May 1 (elevation, 3,396.66 feet); minimum observed, 15,710 acre-feet Sept. 23-26 (elevation, 3,349.15 feet). Maximum contents observed during period 1920-44, 196,000 acre-feet Apr. 7, 1942 (elevation, 3,407.08 feet); no contents Sept. 18 to Nov. 1, 1929, Aug. 26 to sometime in November 1935.

Reservoir is formed by concrete arch dam; capacity, 191,000 acre-feet between elevations 3,327 feet (bottom of outlet tunnel) and 3,406 feet (top of 5-foot flashboards). Dead storage, 1,400 acre-feet below elevation 3,327 feet. Records given herein represent contents above elevation 3,327 feet. Storage began in 1919. In 1926 a half interest in reservoir was purchased by the Federal Government for Vale project of Bureau of Reclamation. Water used to irrigate lands on both sides of river between Namorf and Ontario. Once-daily gage readings and data for computing capacity table furnished by Bureau of Reclamation.

Agency Valley Reservoir.—Pressure gage with mercury column, lat. 43°55', long. 118°09', in SW¼ sec. 16, T. 19 S., R. 37 E., at dam on North Fork Malheur River, a quarter of a mile northwest of Beulah. Gage readings are elevations above mean sea level by original surveys of Bureau of Reclamation, or 7.72 feet less than elevations above mean sea level, datum of 1929. Drainage area, 420 square miles. Records available, December 1935 to September 1944. Maximum contents observed during year, 56,380 acre-feet Apr. 19 (elevation, 3,338.10 feet); minimum observed, 27,940 acre-feet Oct. 12 (elevation, 3,319.75 feet). Maximum contents during period 1935-44, 62,770 acre-feet May 3, 1941 (elevation, 3,341.50 feet); minimum observed since full capacity was attained on Apr. 9, 1938, 18,060 acre-feet Feb. 19, 20, 1943 (elevation, 3,311.11 feet).

Reservoir is formed by earth-fill rock-faced dam; storage began in December 1935. Capacity, 59,920 acre-feet between elevations 3,263.21 feet (bottom of outlet tunnel) and 3,340 feet (top of 17-foot spillway gates); with gates lowered the capacity is 32,220 acre-feet. No dead storage. Water is used for irrigation of lands below Juntura, on Vale project of Bureau of Reclamation. Capacity table and daily gage readings furnished by Bureau of Reclamation.

Other reservoirs.—There are several other reservoirs in the Malheur River Basin, all with less than 3,500 acre-feet capacity except Willow Creek No. 3 Reservoir near Malheur, which has a capacity of 49,000 acre-feet.

Monthly gage height and contents, water year October 1943 to September 1944

Month	Warm Springs Reservoir			Agency Valley Reservoir		
	Elevation (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)	Elevation (feet)‡	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	3,384.35	104,800	-	3,320.73	29,190	-
Oct. 31.....	3,383.15	100,800	-4,000	3,321.58	30,310	+1,120
Nov. 30.....	3,384.38	104,900	+4,100	3,324.41	34,180	+3,870
Dec. 31.....	3,385.46	108,600	+3,700	3,326.78	37,530	+3,450
Calendar year 1943..	-	-	-6,600	-	-	+7,600
Jan. 31.....	3,386.40	111,800	+3,200	3,328.97	40,940	+3,310
Feb. 29.....	3,388.31	118,400	+6,600	3,331.40	44,770	+3,830
Mar. 31.....	3,392.60	133,700	+15,300	3,335.64	51,770	+7,000
Apr. 30.....	3,396.66	150,200	+16,500	3,336.22	52,980	+1,210
May 31.....	3,388.58	119,300	-30,900	3,333.30	47,900	-5,080
June 30.....	3,385.87	110,000	-9,300	3,333.77	48,690	+790
July 31.....	3,371.70	65,030	-44,970	3,331.92	45,610	-3,080
Aug. 31.....	3,368.20	51,420	-35,610	3,329.65	41,840	-3,770
Sept. 30.....	3,340.23	16,620	-15,600	3,324.20	33,980	-7,860
Water year 1943-44..	-	-	-88,980	-	-	+4,700

† Gage reading observed about 10 a.m.

‡ Gage reading observed about 7 a.m.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

North Fork Malheur River above Agency Valley Reservoir, near Beulah, Oreg.

Location.— Water-stage recorder, lat. 43°58', long. 118°11', in sec. 33, T. 18 S., R. 37 E., at M. W. Scott's ranch, 3 miles upstream from Warm Springs Creek and 4 miles north-west of Agency Valley Dam and Beulah.

Records available.— January to September 1914, June 1936 to September 1944.

Extremes.— Maximum discharge during year, 368 second-feet Mar. 17 (gage height, 2.18 feet); minimum recorded, 15 second-feet Jan. 15, but may have been less during periods of ice effect or no gage-height record.
1914, 1936-44: Maximum discharge recorded, 975 second-feet Mar. 26, 1940 (gage height, 4.60 feet); minimum, that of Jan. 15, 1944.

Remarks.— Records good except those for periods of ice effect or no gage-height record, which are poor. A few diversions above station for irrigation; no regulation.

Rating tables, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to Feb. 9

Feb. 10 to Sept. 30

0.6	37	0.3	35	0.9	111
.7	47	.4	45	1.2	163
.8	58	.5	57	1.5	221
.9	71	.7	82		
1.0	85				

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	56	67	49	60	62	159	180	117	61	42	38
2	47	61	66	48	70	58	158	171	110	59	43	42
3	48	61	67	36	75	58	176	161	110	56	45	41
4	49	66	66	31	78	70	192	158	100	56	43	39
5	49	75	52	43	75	67	186	158	92	58	43	38
6	49	63	47	51	*75	61	186	158	89	56	41	37
7	49	55	58	35	75	62	174	171	89	55	40	35
8	49	59	57	30	75	73	176	171	92	55	40	35
9	49	61	40	35	70	106	169	169	119	58	40	37
10	50	58	35	40	57	134	161	150	119	56	40	36
11	59	58	40	50	76	92	182	143	111	55	39	36
12	58	58	45	50	65	96	199	136	104	53	37	36
13	55	58	45	55	65	82	172	132	96	52	37	37
14	54	57	50	55	70	56	165	131	93	51	37	37
15	54	56	50	60	61	77	159	131	99	51	38	39
16	54	56	55	60	65	132	149	131	116	50	38	39
17	54	57	60	65	68	287	136	127	111	49	38	41
18	54	57	60	65	57	197	132	124	102	49	38	42
19	55	58	65	60	65	159	132	119	93	50	35	44
20	57	61	65	60	53	108	138	114	88	51	38	42
21	63	59	60	55	65	96	127	108	92	50	37	41
22	62	58	54	55	67	96	138	106	105	51	37	42
23	62	56	51	60	63	122	152	106	98	49	37	41
24	65	54	50	60	68	145	187	104	85	46	36	40
25	67	54	49	55	63	102	159	99	79	46	37	40
26	66	55	45	50	65	88	152	93	77	46	38	39
27	63	51	a40	45	53	81	161	92	73	46	38	39
28	68	63	a45	40	70	82	172	88	72	44	37	39
29	67	71	58	40	65	114	184	85	69	44	36	39
30	66	67	50	45	-	140	198	114	64	43	37	40
31	62	-	49	50	-	145	-	124	-	43	37	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,749	68	47	56.4	3,470
November.....	1,798	85	51	59.9	3,570
December.....	1,641	67	35	52.9	3,850
Calendar year 1943.....	68,813	567	35	159	136,500
January.....	1,533	65	30	49.5	3,040
February.....	1,931	76	53	56.6	3,830
March.....	3,214	237	56	104	6,370
April.....	4,890	199	127	165	9,700
May.....	4,046	180	85	131	8,030
June.....	2,864	119	64	95.5	5,680
July.....	1,589	61	43	61.3	3,150
August.....	1,202	45	36	38.8	2,380
September.....	1,171	44	35	39.0	2,320
Water year 1943-44.....	27,628	237	30	75.5	54,790

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for Agency Valley Reservoir at Beulah.

Note.— Stage-discharge relation affected by ice Dec. 10-21, Jan. 8 to Feb. 9.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

MALHEUR RIVER BASIN

North Fork Malheur River at Beulah, Oreg.

Location.— Staff gage, lat. 43°54', long. 118°09', in NE¼ sec. 22, T. 19 S., R. 37 E., at BEULAH, a quarter of a mile downstream from Agency Valley Dam and 12 miles northwest of Juntura. Datum of gage is 3,262.47 feet above mean sea level, datum of 1929.

Drainage area.— 420 square miles.

Records available.— January 1936 to September 1944. March 1909 to June 1912, November 1913 to July 1914 at site 6 miles downstream. June 1926 to December 1935 at site three-quarters of a mile downstream, below intakes of two canals with combined capacity of about 10 second-feet.

Extremes.— Maximum discharge observed during year, 548 second-feet Apr. 30, May 1 (gage height, 3.13 feet); minimum observed, 1 second-foot Oct. 12-14, but may have been less during period of no gage-height record.

1909-12, 1913-14, 1926-44: Maximum discharge, 7,000 second-feet (regulated by sudden storage release) May 7, 1942 (gage height, 8.4 feet, from floodmark); maximum unregulated, 5,910 second-feet Mar. 20, 1910; no flow at times; minimum discharge prior to construction of dam, 5 second-feet Dec. 28, 1910, Jan. 26, 27, 1911.

Remarks.— Records fair Apr. 8 to Sept. 30; poor Oct. 1 to Apr. 7. Gage read once daily. FLOW regulated by Agency Valley Reservoir (see p. 140). Small diversions above station for irrigation; practically entire summer flow is diverted below station and above Juntura.

Cooperation.— Gage-height record and two discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	90							455	51	87	87	73
2	90							231	49	87	87	73
3	90				2			231	47	87	87	65
4	90						2	231	67	87	87	56
5	90							231	90	87	87	456
6	90				2			231	95	87	87	456
7	90							231	118	87	87	456
8	90							58	231	118	87	456
9	90							137	231	118	87	86
10	90							137	231	118	87	456
11	90							137	231	100	87	456
12	57							109	231	87	87	456
13	1							50	231	87	87	456
14	1							11	231	87	87	4191
15								36	231	87	87	279
16		1	1	2		2		71	231	87	86	279
17								70	231	87	87	279
18					2			122	231	87	87	279
19								182	222	87	87	279
20								211	204	87	87	279
21								222	172	87	87	279
22								224	133	87	87	279
23	1							226	107	87	87	279
24								244	107	87	87	279
25								305	107	87	87	279
26								332	107	87	87	274
27								395	107	87	87	258
28								462	107	87	87	251
29								485	107	87	87	246
30								538	107	87	87	237
31								-	69	87	73	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,066	90	-	34.4	2,110
November.....	30	-	-	1.0	60
December.....	31	-	-	1.0	61
Calendar year 1943.....	78,298	1,060	-	215	155,300
January.....	62	-	-	2.0	123
February.....	58	-	-	2.0	115
March.....	62	-	-	2.0	123
April.....	4,778	538	-	159	9,460
May.....	6,038	455	69	195	11,980
June.....	2,624	118	47	87.5	5,200
July.....	2,626	87	56	57.0	5,350
August.....	2,620	87	73	86.8	5,280
September.....	5,297	279	56	177	10,510
Water year 1943-44.....	25,402	538	-	69.4	50,390

d Doubtful gage-height record; discharge interpolated or extrapolated.

Note.— No gage-height record Oct. 15 to Apr. 7; discharge computed on basis of measurement Oct. 14, field estimate Feb. 5, and assumption that flow was all leakage from and varied with stage of Agency Valley Reservoir.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

South Fork Payette River at Lowman, Idaho

Location (revised).— Water-stage recorder, lat. 44°05', long. 115°37'30", in SW $\frac{1}{4}$ sec. 27, T. 8 N., R. 7 E., 1,200 feet upstream from Rock Creek, half a mile northwest of Lowman post office, and 4,100 feet downstream from Clear Creek.

Drainage area.— 456 square miles.

Records available.— May 1941 to September 1944.

Extremes.— Maximum discharge during year, 2,230 second-feet May 16 (gage height, 4.92 feet); minimum, 184 second-feet Jan. 4 (gage height, 2.50 feet).
1941-44: Maximum discharge, 4,860 second-feet May 29, 1943 (gage height, 6.53 feet); minimum, 157 second-feet Jan. 18, 1943 (gage height, 2.39 feet).

Remarks.— Records good except those for Jan. 18 to Feb. 10, which are fair. No regulation. Several small diversions for irrigation and placer mining, the return flow from which enters river above station.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

2.6	214	3.6	795
2.8	292	4.0	1,160
3.0	391	4.4	1,600
3.3	572	4.9	2,200

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	419	419	375	325	339	250	349	889	2,100	1,460	507	350
2	413	419	360	320	330	254	402	820	1,870	1,410	507	344
3	408	430	360	283	292	254	501	779	1,820	1,280	489	344
4	408	566	355	218	279	271	620	804	1,650	1,140	471	350
5	402	751	349	316	271	263	693	925	1,570	1,120	459	320
6	436	540	301	320	316	254	634	1,140	1,570	1,100	447	311
7	425	471	349	258	311	259	613	1,340	1,570	1,040	436	306
8	402	471	360	258	288	275	693	1,320	1,690	980	430	306
9	408	459	279	279	288	271	559	1,290	1,600	934	419	301
10	413	447	288	301	258	292	552	1,260	1,570	943	408	297
11	540	456	306	297	271	279	593	1,350	1,640	872	402	297
12	495	430	306	311	250	279	641	1,450	1,640	829	397	292
13	459	425	*306	325	275	275	593	1,690	1,550	812	391	288
14	447	419	306	334	292	259	559	1,950	1,550	787	386	284
15	456	408	306	325	258	279	520	2,170	1,630	763	381	297
16	436	408	306	320	267	284	501	2,150	1,550	739	376	316
17	430	397	365	325	263	297	477	2,060	1,480	715	370	344
18	436	381	381	b310	263	311	459	1,910	1,350	700	360	316
19	456	381	381	b300	243	325	447	1,690	1,550	685	360	316
20	450	397	381	b300	250	311	459	1,500	1,440	693	349	306
21	453	381	344	b310	*288	292	447	1,400	1,530	671	349	301
22	447	375	320	320	263	288	495	1,360	1,460	641	339	301
23	441	370	320	339	258	301	533	1,280	1,420	620	339	292
24	459	370	316	349	258	301	634	1,180	1,460	600	330	288
25	463	366	325	330	258	284	641	1,120	1,540	679	330	288
26	465	339	311	b290	254	284	620	1,140	1,600	559	330	279
27	447	334	259	267	254	254	641	1,240	1,640	652	330	279
28	546	381	228	284	250	267	693	1,370	1,440	540	325	275
29	528	349	263	b300	263	292	747	1,600	1,330	520	316	275
30	495	370	349	297	-	301	829	1,980	1,340	514	316	279
31	453	-	334	339	-	306	-	2,150	-	514	316	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	13,694	546	402	448	0.982	1.13	27,560
November	12,699	751	354	422	.928	1.03	25,170
December	10,069	551	228	329	.715	.82	19,970
Calendar year 1943	448,522	4,760	199	1,229	2.70	56.59	889,700
January	9,430	349	218	304	.667	.77	18,700
February	7,950	339	243	274	.601	.66	15,770
March	8,672	325	239	280	.614	.71	17,200
April	17,045	929	349	568	1.26	1.39	35,610
May	44,297	2,170	779	1,429	3.13	3.61	87,940
June	46,890	2,100	1,330	1,562	3.43	3.82	95,950
July	25,292	1,460	514	816	1.79	2.06	60,170
August	11,964	607	316	366	.846	.98	25,750
September	9,102	344	275	303	.664	.74	18,050
Water year 1943-44	217,254	2,170	218	594	1.30	17.71	430,900

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated.

b Stage-discharge relation affected by ice.

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

PAYETTE RIVER BASIN

South Fork Payette River near Garden Valley, Idaho

Location.— Water-stage recorder, lat. 44°04', long. 115°56', in sec. 1, T. 8 N., R. 4 E., at Garden Valley ranger station, 300 feet upstream from Station Creek, 2.7 miles south-east of Garden Valley, and 5.9 miles upstream from Middle Fork Payette River.

Drainage area.— 779 square miles.

Records available.— May 1921 to September 1944.

Average discharge.— 20 years (1924-44), 1,191 second-feet.

Extremes.— Maximum discharge during year, 2,970 second-feet May 16 (gage height, 3.74 feet); minimum, 231 second-feet Dec. 29 (gage height, 1.36 feet); minimum daily, 280 second-feet Dec. 28.

1921-44: Maximum discharge observed, 10,600 second-feet May 26, 1928 (gage height, 8.0 feet); minimum, 75 second-feet Dec. 15, 1935, Jan. 26, 1936 (gage height, 0.70 foot), from rating curve extended below 280 second-feet; minimum daily, 217 second-feet Jan. 26, 1936.

Remarks.— Records good. Practically no diversions above station. Since Nov. 2, 1930, flow has been regulated by Deadwood Reservoir (see p. 150).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,730	526	477	418	405	357	484	1,370	2,680	1,970	1,210	1,700
2	1,700	498	464	412	405	357	548	1,270	2,410	1,940	1,200	1,640
3	1,800	535	480	357	405	351	665	1,270	2,390	1,780	1,150	1,440
4	1,820	440	450	b500	424	397	845	1,210	2,180	1,620	1,070	1,390
5	1,700	1,050	444	412	399	375	956	1,370	2,020	1,550	1,070	1,350
6	1,730	740	387	*470	470	351	942	1,650	2,010	1,550	1,100	1,550
7	1,730	580	387	b370	484	334	898	1,880	2,010	1,460	1,170	1,460
8	1,720	572	477	b540	450	387	854	1,910	2,120	1,390	1,260	1,010
9	1,690	572	365	b370	438	399	800	1,880	2,180	1,330	1,230	1,010
10	1,660	548	312	b580	393	438	790	1,820	2,020	1,360	1,170	1,090
11	1,780	533	369	b390	381	418	865	1,870	2,220	1,520	1,170	1,090
12	1,660	526	b375	b400	369	405	1,020	1,980	2,040	1,400	1,070	1,010
13	1,530	519	*b410	b410	369	405	920	2,220	2,020	1,400	1,020	986
14	1,440	512	b410	b430	418	328	865	2,540	1,990	1,440	1,090	997
15	1,440	505	b410	b430	381	387	780	2,850	1,990	1,510	1,170	1,090
16	1,430	491	b400	418	381	424	750	2,840	2,040	1,520	1,480	1,170
17	1,400	498	b390	410	397	451	701	2,660	1,980	1,520	1,520	1,220
18	1,370	491	444	d400	375	450	685	2,470	1,830	1,530	1,660	1,190
19	1,140	491	444	d400	340	464	647	2,250	1,780	1,390	1,490	1,210
20	1,130	505	444	d400	b310	450	665	1,990	1,630	1,280	1,620	1,290
21	1,160	498	444	d400	387	418	656	1,870	1,990	1,250	1,720	1,260
22	1,110	484	418	d400	*381	412	730	1,810	1,970	1,210	1,750	1,210
23	1,020	470	399	399	363	424	810	1,720	1,970	1,190	1,550	1,140
24	1,050	470	399	418	365	444	975	1,610	1,990	1,170	1,380	1,100
25	1,030	457	412	b390	357	412	1,040	1,530	2,080	1,200	1,790	1,020
26	588	424	405	357	357	399	975	1,520	2,130	1,160	1,740	964
27	548	381	334	b350	345	334	997	1,610	2,220	1,150	1,730	843
28	556	431	b280	b360	345	363	1,070	1,750	2,040	1,160	1,680	780
29	674	438	290	b370	369	418	1,150	1,990	1,880	1,040	1,680	505
30	629	457	431	b380	-	431	1,260	2,400	1,870	1,150	1,620	730
31	572	-	438	381	-	438	-	2,660	-	1,170	1,700	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	40,227	1,780	548	1,298	79,790
November.....	15,940	1,050	381	531	31,620
December.....	12,557	477	280	405	24,910
Calendar year 1943.....	761,831	8,550	270	2,087	1,511,000
January.....	12,122	470	300	391	24,040
February.....	11,251	484	310	388	22,320
March.....	12,391	464	328	400	24,580
April.....	25,351	1,260	484	845	50,280
May.....	59,870	2,850	1,170	1,925	118,400
June.....	61,880	2,680	1,780	2,063	122,700
July.....	43,330	1,970	1,040	1,398	85,940
August.....	43,860	1,830	1,020	1,415	87,000
September.....	34,445	1,700	505	1,148	68,320
Water year 1943-44.....	373,024	2,850	280	1,019	739,900

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

c Doubtful gage-height record; discharge computed on basis of weather records and records for stations at Lowman and Banks.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

South Fork Payette River near Banks, Idaho

Location.— Water-stage recorder, lat. 44°05'30", long. 116°06', in sec. 28, T. 9 N., R. 3 E., 1 mile upstream from North Fork Payette River and 1½ miles northeast of Banks.

Drainage area.— 1,200 square miles.

Records available.— August 1921 to September 1944.

Average discharge.— 23 years, 1,591 second-feet.

Extremes.— Maximum discharge during year, 3,820 second-feet May 15, 16 (gage height, 4.70 feet); minimum, 337 second-feet Dec. 28 (gage height, 0.13 foot).

1921-44: Maximum discharge, 13,800 second-feet May 17, 1927 (gage height, 10.6 feet, from floodmarks); minimum, about 225 second-feet Dec. 15, 1935, Jan. 26, 1936, Dec. 26, 1939.

Remarks.— Records excellent except those for periods of ice effect or doubtful gage-height record, which are fair. Small diversions above station for irrigation. Since Nov. 2, 1930, flow has been regulated by Deadwood Reservoir (see p. 150).

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,830	722	700	646	d600	525	774	2,050	3,380	2,200	1,290	1,720
2	1,810	684	678	629	d600	515	876	1,870	3,050	2,180	1,280	1,680
3	1,700	739	662	575	590	515	1,050	1,730	2,990	2,020	1,230	1,490
4	1,700	1,040	662	430	612	545	1,340	1,740	2,780	1,860	1,180	1,440
5	1,770	1,440	640	535	585	540	1,600	1,950	2,580	1,900	1,160	1,530
6	1,790	1,040	580	656	734	520	1,550	2,280	2,520	1,770	1,200	1,630
7	1,820	834	530	540	785	500	1,440	2,630	2,490	1,680	1,240	1,680
8	1,780	810	700	490	695	545	1,380	2,620	2,560	1,600	1,310	1,060
9	1,760	816	555	540	646	575	1,280	2,540	2,660	1,520	1,300	1,060
10	1,710	792	465	550	580	551	1,260	2,480	2,440	1,510	1,240	1,150
11	1,890	774	b500	550	545	634	1,360	2,560	2,700	1,680	1,230	1,150
12	1,760	750	b550	560	545	607	1,670	2,690	2,600	1,680	1,170	1,070
13	1,620	739	b560	590	520	602	1,530	3,000	2,470	1,550	1,080	1,040
14	1,620	728	*b570	624	570	520	1,430	3,340	2,380	1,670	1,160	1,040
15	1,510	717	b580	634	550	565	1,300	3,670	2,400	1,630	1,210	1,130
16	1,500	706	b570	634	535	656	1,240	3,670	2,510	1,650	1,500	1,230
17	1,490	706	b560	618	545	684	1,170	3,500	2,480	1,630	1,550	1,310
18	1,480	700	b680	590	530	717	1,100	3,290	2,250	1,640	1,700	1,280
19	1,230	696	b680	570	510	728	1,060	3,060	2,170	1,520	1,510	1,270
20	1,220	722	695	575	470	706	1,130	2,670	2,200	1,430	1,600	1,360
21	1,280	706	684	580	525	662	1,100	2,470	2,440	1,560	1,730	1,320
22	1,240	690	656	602	540	651	1,210	2,360	2,430	1,530	1,750	1,260
23	1,160	678	629	607	520	662	1,350	2,210	2,430	1,500	1,840	1,210
24	1,190	678	624	d600	520	706	1,800	2,060	2,370	1,270	1,530	1,120
25	1,210	668	640	d550	515	646	1,770	1,950	2,440	1,500	1,810	1,100
26	854	634	629	d500	515	634	1,600	1,930	2,480	1,270	1,750	1,050
27	756	570	540	d450	505	575	1,600	1,980	2,670	1,240	1,750	942
28	858	602	394	d450	510	585	1,680	2,130	2,410	1,260	1,700	836
29	936	646	*460	d500	520	646	1,800	2,360	2,200	1,140	1,590	629
30	870	651	651	d550	-	673	1,940	2,900	2,140	1,250	1,620	816
31	792	-	684	d550	-	695	-	3,280	-	1,260	1,720	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	43,966	1,890	756	1,418	87,210
November.....	22,677	1,440	570	756	44,980
December.....	18,646	700	394	602	56,990
Calendar year 1943.....	1,047,561	11,600	394	2,869	2,077,006
January.....	17,475	656	430	564	34,660
February.....	16,408	736	470	566	32,540
March.....	18,985	728	500	612	37,680
April.....	43,190	1,940	774	1,373	81,700
May.....	79,020	3,670	1,750	2,549	158,700
June.....	75,380	3,800	2,140	2,513	149,500
July.....	47,990	2,520	1,140	1,548	95,190
August.....	46,230	1,840	1,080	1,459	89,710
September.....	36,403	1,720	629	1,213	72,200
Water year 1945-44.....	465,372	3,670	394	1,266	919,000

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

d Doubtful gage-height record; discharge computed on basis of records for South Fork Payette River near Garden Valley and Payette River near Horseshoe Bend.

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

PAYETTE RIVER BASIN

Payette River near Horseshoe Bend, Idaho

Location.- Water-stage recorder, lat. 43°56', long. 116°11'30", in SW¼ sec. 14, T. 7 N., R. 2 E., 100 feet east of tracks of Idaho Northern branch of Oregon Short Line Railroad and 1½ miles north of Horseshoe Bend. Datum of gage is 2,622.5 feet above mean sea level (levels by Corps of Engineers, U. S. Army).

Drainage area.- 2,230 square miles.

Records available.- November 1912 to September 1916, July 1919 to September 1944. February 1906 to November 1912 at site 2 miles upstream.

Average discharge.- 33 years (1907-15, 1919-44), 2,987 second-feet.

Extremes.- Maximum discharge during year, 7,380 second-feet May 19 (gage height, 4.98 feet); minimum, 562 second-feet Dec. 29 (gage height, 0.87 foot).
1906-16, 1919-44: Maximum discharge, 22,100 second-feet June 9, 1921 (gage height, 9.57 feet); minimum, 350 second-feet Dec. 17, 1935 (gage height, 0.26 foot), from rating curve extended below 600 second-feet.

Remarks.- Records excellent except those for periods of ice effect, which are good. Flow regulated by Deadwood Reservoir (see p. 150), Payette Lake (see p. 153), and Lake Fork Reservoir (see p. 159). Several diversions from tributaries above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,080	1,210	1,130	952	b920	864	1,240	3,280	5,700	3,060	2,020	1,900
2	2,060	1,110	1,100	943	b920	848	1,460	3,060	5,010	2,960	2,000	1,930
3	1,950	1,140	1,080	864	925	856	1,860	2,840	6,460	2,730	1,970	1,690
4	1,930	1,520	1,080	871	979	898	2,390	2,820	6,440	2,600	1,900	1,690
5	1,990	2,210	1,060	760	943	880	3,190	3,000	5,740	2,490	1,880	1,610
6	2,000	1,850	952	943	1,080	848	3,440	3,440	5,180	2,420	1,910	1,710
7	2,060	1,480	832	792	1,170	816	3,550	3,950	4,640	2,260	1,940	1,840
8	2,020	1,500	1,020	713	1,140	848	3,380	4,090	4,890	2,140	2,000	1,280
9	2,030	1,270	880	b780	1,120	916	3,000	4,070	4,980	2,040	1,970	1,230
10	1,970	1,240	744	b790	1,030	1,040	2,740	4,090	4,450	1,980	1,850	1,380
11	2,170	1,190	756	b800	970	1,080	2,910	4,260	4,700	2,130	1,790	1,280
12	2,140	1,170	792	b810	952	1,070	3,460	4,620	4,900	2,060	1,730	1,260
13	2,040	1,140	848	b890	898	1,070	3,250	5,540	5,320	1,950	1,560	1,220
14	1,910	1,120	848	b930	952	979	3,000	5,960	5,300	1,940	1,590	1,200
15	1,860	1,100	848	b950	907	952	2,640	6,590	5,120	2,000	1,610	1,270
16	1,840	1,110	824	952	889	1,090	2,420	7,010	5,000	2,030	1,860	1,370
17	1,790	1,150	872	943	889	1,120	2,260	7,200	4,840	2,180	1,910	1,500
18	1,770	1,160	970	907	880	1,200	2,040	7,200	4,560	2,280	2,080	1,490
19	1,570	1,160	1,010	872	964	1,220	1,930	7,080	4,040	2,170	1,810	1,360
20	1,570	1,180	1,020	856	824	1,180	2,040	6,440	3,960	2,060	1,890	1,520
21	1,700	1,180	1,010	856	864	1,120	2,080	5,720	4,150	2,020	2,030	1,580
22	1,630	1,150	1,010	872	889	1,090	2,360	4,800	4,090	1,980	1,930	1,460
23	1,560	1,120	961	898	864	1,100	2,560	4,260	4,160	1,950	2,110	1,390
24	1,640	1,100	934	934	872	1,170	3,090	3,980	4,280	1,910	2,080	1,380
25	1,710	1,100	970	889	872	1,090	3,460	3,770	4,280	1,940	2,040	1,290
26	1,390	1,050	952	864	864	1,060	3,150	3,580	4,150	1,980	1,980	1,250
27	1,270	981	848	760	848	961	2,940	3,580	4,200	1,950	1,970	1,130
28	1,540	934	671	744	848	943	2,920	3,630	4,000	2,000	1,930	1,110
29	1,490	979	664	b830	864	1,020	3,030	3,770	3,610	1,850	1,790	848
30	1,450	1,050	907	b850	-	1,070	3,170	4,430	3,870	1,950	1,790	943
31	1,330	-	979	b870	-	1,120	-	5,180	-	1,970	1,900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	55,240	2,170	1,270	1,782	109,600
November.....	56,424	2,210	934	1,214	72,250
December.....	28,552	1,130	664	821	56,630
Calendar year 1943.....	1,768,546	19,700	664	4,845	3,508,000
January.....	26,465	1,952	871	854	52,460
February.....	27,037	1,170	832	832	55,630
March.....	31,529	1,280	816	1,017	62,540
April.....	90,950	3,550	1,240	2,698	180,600
May.....	145,010	7,200	2,280	4,613	285,700
June.....	141,570	6,460	3,270	4,719	280,800
July.....	66,970	3,060	1,950	2,160	132,800
August.....	58,930	2,110	1,490	1,901	116,900
September.....	42,011	1,930	848	1,400	85,330
Water year 1943-44.....	758,688	7,200	664	2,018	1,465,000

* Winter discharge measurement made on this day.

† Stage-discharge relation affected by ice.

Time Basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Payette River near Emmett, Idaho

Location.— Water-stage recorder, lat. 43°56', long. 116°27', in sec. 22, T. 7 N., R. 1 W., three-eighths of a mile downstream from Black Canyon Dam and 5 miles northeast of Emmett.

Records available.— June 1925 to September 1944.

Average discharge.— 19 years, 2,804 second-feet.

Extremes.— Maximum discharge during year, 7,000 second-feet (regulated) May 17 (gage height, 6.68 feet); minimum, 130 second-feet (regulated) Dec. 5 (gage height, 1.73 feet); minimum daily, 641 second-feet (regulated) Dec. 30.

1925-44: Maximum discharge, 22,800 second-feet May 1, 1938 (gage height, 12.90 feet); minimum daily, 3 second-feet Jan. 10-14, Feb. 2, 22-25, 1938, when gates in dam were closed.

Remarks.— Records good. Diversions above station for irrigation. Flow regulated by diversion at and operation of gates in Black Canyon Dam and by Deadwood Reservoir (see p. 150), Payette Lake (see p. 153), and Lake Fork Reservoir (see p. 159).

Cooperation.— Gage-height record collected in cooperation with Bureau of Reclamation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,550	1,320	1,360	1,060	1,010	850	1,140	3,480	5,170	2,220	1,080	1,090
2	1,600	1,210	1,320	1,020	830	926	1,350	3,400	5,890	2,100	1,080	1,170
3	1,550	1,160	1,300	830	904	959	1,350	2,900	6,240	2,030	1,070	1,140
4	1,430	1,380	1,310	850	904	926	1,380	2,550	6,620	1,740	1,070	1,080
5	1,540	2,420	809	710	1,230	730	3,180	2,690	5,700	1,620	1,070	1,110
6	1,550	2,180	1,290	893	1,190	740	4,090	3,040	5,000	1,530	1,070	1,100
7	1,550	1,700	1,080	1,040	1,640	840	3,260	3,620	4,410	1,390	1,070	1,290
8	1,590	1,590	1,150	800	1,530	1,520	3,680	3,850	4,170	1,250	1,070	1,120
9	1,590	1,540	1,130	800	1,420	1,050	3,400	3,780	4,330	1,110	1,070	992
10	1,610	1,560	937	690	1,270	1,010	2,760	3,620	4,170	1,040	1,070	992
11	1,700	1,500	830	810	1,160	1,310	3,110	3,780	4,490	1,080	1,080	970
12	1,900	1,410	790	820	1,160	1,310	3,930	4,010	4,830	1,140	1,010	915
13	1,780	1,380	840	850	1,010	1,310	3,780	4,660	5,170	1,090	840	937
14	1,670	1,380	893	860	1,080	1,270	3,580	5,520	5,340	1,080	820	937
15	1,530	1,360	830	1,010	790	1,070	2,970	6,060	5,170	1,080	820	926
16	1,680	1,350	915	1,020	670	1,050	2,690	6,620	5,000	1,080	1,020	915
17	1,660	1,410	970	1,070	710	1,050	2,360	6,810	4,830	1,080	1,070	959
18	1,780	1,430	915	948	850	1,060	2,180	6,620	4,250	1,260	1,070	1,050
19	1,590	1,470	1,050	882	926	1,070	2,030	6,620	3,850	1,350	1,080	926
20	1,480	1,440	1,180	830	915	1,070	2,360	5,890	3,550	1,160	1,120	860
21	1,700	1,430	1,080	830	915	1,090	2,550	5,170	4,010	1,080	1,120	915
22	1,700	1,460	1,080	840	959	1,090	2,680	4,350	4,010	1,090	1,150	959
23	1,680	1,410	1,060	840	970	1,090	2,970	3,550	4,010	1,100	1,160	904
24	1,620	1,320	1,060	969	970	1,090	3,550	3,320	4,010	1,080	1,160	915
25	1,640	1,350	926	860	970	1,090	4,490	3,040	4,090	1,080	1,160	860
26	1,550	1,300	1,070	893	970	1,090	3,780	2,830	3,930	1,070	1,160	800
27	1,300	1,230	1,150	840	959	1,090	3,400	2,690	3,930	1,080	1,140	760
28	1,360	1,150	790	830	1,200	1,070	3,400	2,970	3,700	1,080	1,100	833
29	1,560	1,220	670	830	926	1,070	3,480	3,110	3,110	1,060	1,080	720
30	1,610	1,240	641	690	-	1,060	3,480	3,700	2,690	1,070	1,080	680
31	1,460	-	1,000	860	-	1,080	-	4,850	-	1,070	1,090	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	49,860	1,900	1,300	1,608	98,900
November.....	43,270	2,420	1,150	1,442	86,820
December.....	31,466	1,360	641	1,015	62,410
Calendar year 1943.....	1,823,993	21,300	641	4,997	3,618,000
January.....	27,145	1,070	690	876	53,840
February.....	30,068	1,840	670	1,037	59,640
March.....	33,061	1,620	730	1,066	65,680
April.....	86,780	4,490	1,140	2,969	176,100
May.....	129,050	6,810	2,550	4,133	285,000
June.....	135,660	6,620	2,690	4,522	299,100
July.....	39,180	2,820	1,040	1,364	77,710
August.....	35,040	1,660	880	1,066	65,630
September.....	26,868	1,590	650	932	57,250
Water year 1943-44.....	669,445	6,810	641	1,829	1,328,000

* No gage-height record; discharge computed on basis of records for station near Payette.

* Discharge computed from average of hourly readings of long-distance indicator at Black Canyon Dam furnished by Bureau of Reclamation.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

PAYETTE RIVER BASIN

Payette River near Payette, Idaho

Location.— Water-stage recorder, lat. 44°02'30", long. 116°55'30", in SW $\frac{1}{4}$ sec. 10, T. 8 N., R. 5 W., at highway bridge, $\frac{1}{4}$ miles south of Payette.

Records available.— August 1935 to September 1944. January 1895 to July 1897 (incomplete) at site 2 miles downstream.

Extremes.— Maximum discharge during year, 6,610 second-feet June 4 (gage height, 7.28 feet); minimum, 373 second-feet Aug. 15 (gage height, 3.36 feet); minimum daily, 389 second-feet Aug. 15, 16.
1935-44: Maximum discharge observed, 23,400 second-feet May 2, 1938 (gage height, 11.90 feet); minimum, 180 second-feet Oct. 13, 20, 1935 (gage height, 2.04 feet); minimum daily, 220 second-feet Oct. 5, 1935.

Remarks.— Records good except those for periods of no gage-height record, which are fair. Many diversions above station for irrigation. Flow regulated by Black Canyon Dam and reservoirs on tributary streams.

Rating table, water year 1943-44 (gage height, in feet,
and discharge, in second-feet)

3.3	325	4.5	1,590	6.0	3,850
3.6	580	5.0	2,270	6.5	4,780
4.0	990	5.5	3,020	7.2	6,370

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,370	1,600	1,590	1,360	1,200	1,100	1,240	3,090	4,480	1,990	580	675
2	1,460	1,500	1,660	1,300	1,200	1,190	1,540	3,170	5,540	1,520	608	726
3	1,470	1,500	1,660	1,280	1,280	1,280	1,540	2,640	5,890	1,470	608	859
4	1,380	1,720	1,590	1,120	1,560	1,400	1,520	2,800	6,370	1,230	618	817
5	1,380	2,340	1,420	1,080	1,560	1,240	2,220	1,990	5,780	1,030	608	786
6	1,540	2,710	1,350	1,000	1,720	1,080	3,920	2,200	5,210	902	608	817
7	1,560	2,270	1,450	1,180	2,420	1,040	3,740	2,710	4,480	880	608	806
8	1,660	1,990	1,350	1,110	1,920	1,660	4,100	3,090	4,010	775	618	1,000
9	1,660	1,990	1,520	1,010	1,820	1,720	3,580	3,090	4,100	618	599	765
10	1,660	1,920	1,300	1,030	1,660	1,380	3,020	2,940	4,100	553	599	846
11	1,660	1,920	1,170	1,070	1,460	1,720	3,020	2,940	4,100	499	599	646
12	1,990	1,790	1,060	1,100	1,420	1,660	3,580	3,170	4,780	490	590	618
13	1,990	1,860	1,110	1,200	1,510	1,560	4,010	3,580	4,780	482	844	806
14	1,860	1,790	1,110	1,260	1,280	1,590	3,740	4,460	5,100	490	422	599
15	1,790	1,720	1,090	1,300	1,290	1,340	3,330	5,100	4,990	490	389	682
18	1,720	1,720	1,150	1,550	946	1,340	2,940	5,660	4,780	473	389	637
17	1,860	1,720	1,160	1,360	902	1,340	2,710	5,890	4,780	454	482	866
16	1,720	1,720	1,130	1,340	1,010	1,370	2,490	5,890	4,280	473	517	705
19	1,790	1,790	1,260	1,150	1,150	1,370	2,200	6,130	3,830	618	526	928
20	1,590	1,790	1,400	1,290	1,190	1,340	2,490	5,660	3,490	686	571	786
21	1,900	1,790	1,370	1,230	1,170	1,300	2,940	4,780	3,660	562	606	726
22	1,900	1,790	1,370	1,230	1,190	1,320	2,710	4,190	4,100	826	637	786
23	1,860	1,720	1,400	1,190	1,240	1,360	3,020	3,330	3,920	562	666	817
24	1,800	1,660	1,300	1,170	1,260	1,340	3,260	2,860	3,920	580	675	796
25	1,100	1,660	1,300	1,290	1,260	1,360	4,380	2,640	4,010	553	675	786
26	1,800	1,660	1,290	1,180	1,260	1,340	4,100	2,420	3,920	544	705	745
27	1,600	1,560	1,260	1,240	1,280	1,340	3,490	2,870	3,660	562	725	685
28	1,600	1,470	1,260	1,220	1,290	1,320	3,260	2,270	3,580	544	705	637
29	1,800	1,490	1,010	1,220	1,610	1,320	3,260	2,490	3,020	553	685	705
30	1,800	1,550	968	1,090	-	1,310	3,170	2,780	2,490	562	695	618
31	1,700	-	1,010	1,030	-	1,280	-	3,830	-	562	695	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	52,560	1,990	1,370	1,705	104,800
November	53,710	2,710	1,470	1,790	166,800
December	40,068	1,660	968	1,293	79,470
Calendar year 1943	1,826,513	20,600	599	5,004	3,623,000
January	37,370	1,560	1,010	1,205	74,120
February	39,688	2,420	902	1,369	78,720
March	42,340	1,720	1,040	1,366	85,980
April	90,480	4,380	1,240	3,014	179,600
May	109,480	6,130	1,990	3,632	217,800
June	131,150	6,370	2,490	4,372	250,100
July	22,242	1,990	484	717	44,120
August	18,554	725	389	599	36,800
September	21,917	1,000	599	731	43,470
Water year 1943-44	659,869	6,370	389	1,803	1,309,000

a No gage-height record; discharge computed on basis of records for station near Emmett.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Clear Creek at Lowman, Idaho

Location.- Staff gage, lat. 44°05', long. 115°37', in SWSE $\frac{1}{4}$ sec. 27, T. 9 N.; R. 7 E., 200 feet upstream from mouth and 350 feet downstream from highway bridge at Lowman.

Drainage area.- 59.6 square miles.

Records available.- May 1941 to September 1944.

Extremes.- Maximum discharge observed during year, 255 second-feet May 15; maximum gage height observed, 4.70 feet Dec. 17, 19 ice jam; minimum daily discharge, 23 second-feet Dec. 28.

1941-44: Maximum discharge observed, 754 second-feet May 31, 1943; maximum gage height observed, 6.10 feet Jan. 9, 10, 1942, ice jam; minimum daily discharge, that of Dec. 28, 1943.

Remarks.- Records fair. Gage usually read twice daily. Feeder canal for small power plant diverts 1 mile above gage; water is returned to creek above station except that used for irrigation of small pasture adjacent to Lowman.

Rating table, Oct. 1, 1943, to Aug. 15, 1944, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.8	24.	2.9	108
2.0	33	3.2	147
2.3	51	3.5	193
2.6	75	3.8	247

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	30	42	b33	32	31	45	126	217	85		
2		b30	a40	b32	32	30	50	114	202	a84		
3	36	53	39	b28	31	32	87	109	203	a85		
4	36	75	36	b25	32	32	80	118	180	a82		
5	37	72	36	*b33	37	31	84	140	171	81		
6	39	62	b28	b33	45	b30	84	164	165			
7	38	55	b35	b27	48	b27	82	177	162			
8	37	50	b40	b25	30	34	72	170	174	a75	a40	
9	38	45	b30	b28	36	36	65	168	168			
10	38	45	b24	b28	33	39	68	166	166			
11	49	45	b24	b28	36	32	73	172	187			
12	43	46	b25	b30	37	30	77	162	172			
13	40	45	*b25	b30	40	30	73	193	147			
14	37	40	b27	b32	36	b27	70	228	146			
15	37	41	b30	b32	37	34	63	239	160			
16	37	39	b30	b32	35	36	60	226	168	a60	36	a26
17	37	39	b33	b32	34	34	57	219	146			
18	37	a39	b36	b32	32	39	56	203	137			
19	37	39	b36	32	b30	39	54	190	134			
20	38	40	b36	31	b27	36	58	176	130			
21	40	39	b34	31	*b31	33	61	164	139			
22	42	38	b33	32	32	32	66	156	139			
23	42	39	b32	32	32	36	70	158	128			
24	42	38	b32	31	31	32	66	139	115	a32		
25	41	38	a32	30	32	32	90	133	109			
26	42	b30	32	27	32	30	55	133	108	a50		
27	48	b30	b25	24	32	b29	92	141	119			
28	55	b35	b23	26	30	b32	98	137	106			
29	50	b39	b25	25	31	b34	113	177	87			27
30	45	42	b33	30	-	36	121	206	85			a27
31	34	-	b35	32	-	40	-	202	-		28	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-foot
October	1,245	55	34	40.2	0.874	0.75	2,470
November	1,299	75	30	43.3	.727	.81	2,570
December	988	42	23	31.9	.555	.62	1,960
Calendar year 1943	56,419	750	23	155	2.60	35.19	111,880
January	923	33	24	29.6	.500	.58	1,830
February	983	48	27	33.9	.589	.61	1,980
March	1,027	40	27	33.1	.555	.64	2,040
April	2,221	121	45	74.0	1.24	1.39	4,410
May	5,223	259	109	168	2.82	3.26	10,360
June	4,460	217	55	149	2.50	2.78	8,850
July	1,940	85	-	62.8	1.05	1.21	3,850
August	1,104	-	-	35.6	.597	.69	2,190
September	537	-	-	27.9	.468	.52	1,860
Water year 1943-44	22,249	259	23	60.8	1.02	13.89	44,140

* Winter discharge measurement made on this day.

a No gage-height record; discharge estimated or interpolated.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

PAYETTE RIVER BASIN

Deadwood Reservoir near Lowman, Idaho

Location.— Staff gage, lat. 44°18', long. 115°39', in SE¼ sec. 8, T. 11 N., R. 7 E., at dam on Deadwood River, 15 miles north of Lowman. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

Drainage area.— 108 square miles.

Records available.— October 1935 to September 1944.

Extremes.— Maximum elevation observed during year, 5,334.7 feet June 29 to July 1; minimum observed, 5,291.55 feet Sept. 30.
1935-44: Maximum elevation observed, 5,337.1 feet June 1, 2, 1943; minimum observed, 5,260.1 feet Oct. 1, 1935.

Remarks.— Reservoir is formed by concrete arch dam, completed in 1930; storage began Nov. 2, 1930. Reported capacity, 160,400 acre-feet between elevations 5,230.0 feet (minimum operating level because of fish protection, 27 feet above sill of emergency gate in front of needle valve) and 5,334.0 feet (crest of spillway). Storage below elevation 5,230.0 feet, about 1,500 acre-feet. Water is used to augment flow of Payette River at Black Canyon power plant near Emmett. During late fall of 1936, Bureau of Reclamation cut a transmountain canal to divert a small flow of water from a tributary of Johnson Creek in Salmon River Basin to Deadwood River Basin for supplemental storage in Deadwood Reservoir. Discharge measurement made on June 1, 1944, indicated flow in this canal of 24.1 second-feet. Gage read once daily.

Cooperation.— Gage-height record furnished by Bureau of Reclamation.

Elevation, in feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	321.2	306.0	308.5	310.0	311.3	313.1	314.6	318.0	328.55	334.7	329.55	310.1
2	320.3	306.05	308.4	310.1	311.45	313.2	314.7	318.2	329.1	334.65	329.2	309.3
3	319.5	306.15	308.5	310.15	311.55	313.25	314.75	318.4	329.5	334.6	328.9	308.6
4	318.8	306.3	308.55	310.15	311.7	313.3	314.8	318.6	329.8	334.6	328.7	307.8
5	318.0	306.5	308.6	310.2	311.8	313.35	314.9	318.9	330.1	334.6	328.4	307.1
6	317.0	306.6	308.65	310.25	311.9	313.4	315.0	319.2	330.4	334.6	328.1	306.2
7	316.2	306.7	308.7	310.3	312.0	313.45	316.1	319.5	330.7	334.6	327.8	305.2
8	315.35	306.8	308.75	310.35	312.1	313.5	316.2	319.8	331.1	334.55	327.4	304.7
9	314.5	306.85	308.8	310.4	312.15	313.55	316.3	320.2	331.4	334.55	327.0	304.2
10	313.6	306.9	308.85	310.45	312.2	313.6	316.45	320.6	331.6	334.55	326.6	303.6
11	312.9	306.95	308.9	310.5	312.2	313.7	316.6	321.0	331.9	334.4	326.2	303.0
12	312.2	307.0	308.9	310.5	312.2	313.75	316.8	321.3	332.2	334.25	325.8	302.5
13	311.5	307.1	308.95	310.55	312.25	313.8	316.0	321.65	332.4	334.1	325.5	302.0
14	310.8	307.2	309.0	310.6	312.3	313.8	316.2	322.0	332.6	333.9	325.15	301.5
15	310.1	307.3	309.05	310.65	312.3	313.85	316.3	322.5	332.8	333.65	324.8	300.8
16	309.5	307.4	309.1	310.7	312.35	313.9	316.35	323.0	333.1	333.35	324.2	300.0
17	308.8	307.45	309.15	310.75	312.4	313.95	316.4	323.5	333.4	333.0	323.5	299.4
18	308.2	307.5	309.2	310.8	312.45	314.0	316.45	324.0	333.6	332.7	322.7	298.7
19	307.7	307.55	309.25	310.8	312.5	314.1	316.5	324.5	333.8	332.4	322.0	298.0
20	307.15	307.6	309.3	310.8	312.5	314.15	316.6	324.9	334.0	332.25	321.3	297.2
21	306.7	307.7	309.4	310.85	312.55	314.15	316.7	325.2	334.2	332.1	320.5	296.4
22	306.3	307.8	309.45	310.95	312.6	314.2	316.8	325.6	334.4	331.9	319.6	295.6
23	306.0	307.85	309.5	310.9	312.65	314.25	316.9	325.8	334.5	331.7	318.65	294.9
24	305.7	307.9	309.55	310.95	312.7	314.3	317.0	326.0	334.55	331.5	317.7	294.1
25	305.35	307.95	309.6	311.0	312.75	314.3	317.1	326.3	334.6	331.3	316.7	293.5
26	305.4	308.0	309.65	311.0	312.8	314.35	317.2	326.5	334.65	331.1	315.8	292.9
27	305.5	308.05	309.7	311.05	312.85	314.35	317.3	326.75	334.65	330.85	314.5	292.4
28	305.6	308.1	309.7	311.05	312.9	314.4	317.5	327.0	334.65	330.6	313.9	291.9
29	305.75	308.15	309.75	311.05	313.0	314.45	317.7	327.3	334.7	330.4	313.0	291.8
30	305.9	308.2	309.8	311.1	-	314.5	317.9	327.7	334.7	330.15	312.1	291.55
31	305.95	-	309.85	311.2	-	314.55	-	328.2	-	329.85	311.1	-

Note.— Add 5,000 feet to obtain elevation above mean sea level.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Deadwood River below Deadwood Reservoir, near Lowman, Idaho

Location.— Water-stage recorder, lat. 44°18', long. 115°39', in NE¼ sec. 17, T. 11 N., R. 7 E., 300 feet upstream from Wilson Creek, a quarter of a mile downstream from Deadwood Dam at lower end of Deadwood Basin, 15 miles north of Lowman, and 18 miles upstream from mouth.

Drainage area.— 108 square miles.

Records available.— October 1926 to September 1944.

Average discharge.— 17 years (1927-44), 191 second-feet.

Extremes.— Maximum discharge during year, 1,490 second-feet (regulated) Aug. 20 (gage height, 4.97 feet); minimum not determined, occurred when gates at dam were closed. 1926-44: Maximum discharge, 2,150 second-feet May 28, 1928 (gage height, 5.67 feet, site and datum then in use); small amount of leakage from reservoir for long periods during 1930-44 when gates in dam were closed.

Remarks.— Records good except those below 5 second-feet, which are poor. Flow regulated since Nov. 2, 1930, by Deadwood Reservoir (see preceding page). During late fall of 1936 the Bureau of Reclamation cut transmountain canal to divert a small flow from a tributary of Johnson Creek in Salmon River Basin to Deadwood River Basin for supplemental storage in Deadwood Reservoir. Discharge measurement of June 1 indicated flow in this canal of 24.1 second-feet.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,210									202	518	1,180
2	1,180									185	494	1,000
3	1,120									188	454	945
4	1,160									180	441	905
5	1,180									177	470	960
6	1,180									171	533	1,180
7	1,180									167	618	798
8	1,180									180	660	588
9	1,160									158	635	645
10	1,140								a3	297	594	685
11	1,060									360	614	652
12	990									337	484	594
13	905									383	528	598
14	880									464	578	635
15	885									526	772	722
16	871	a3	a3	a3	a3	a3	a3	a3		555	975	754
17	861									590	1,109	749
18	698									555	1,030	744
19	598									4	1,010	928
20	590									5	1,140	856
21	570									31	368	814
22	494									81	365	1,240
23	470									122	365	1,280
24	473									156	404	1,280
25	e209									175	432	1,240
26										191	416	1,280
27										202	448	1,200
28	a3									206	590	1,140
29										206	416	1,120
30										206	473	1,180
31										501	1,200	410

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	22,188	1,210	-	718	44,010
November.....	90	-	-	3.0	379
December.....	93	-	-	3.0	184
Calendar year 1943.....	120,641	1,710	-	331	229,500
January.....	93	-	-	3.0	184
February.....	87	-	-	3.0	173
March.....	93	-	-	3.0	184
April.....	90	-	-	3.0	179
May.....	93	-	-	3.0	184
June.....	1,646	205	-	54.8	3,280
July.....	11,022	590	166	356	21,860
August.....	26,917	1,280	441	868	53,390
September.....	21,399	1,160	282	713	42,440
Water year 1943-44.....	83,810	1,280	-	229	166,200

a No gage-height record; discharge comprised of leakage and seepage only and computed on basis of discharge measurement of June 1, information furnished by observer and comparable records of previous years.

e Reservoir gates closed at 10:30 a.m.; discharge computed as being comprised of leakage and seepage for part of day.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Deadwood River near Lowman, Idaho

Location.- Water-stage recorder, lat. 44°05', long. 115°40', in sec. 29, T. 9 N., R. 7 E., 700 feet upstream from mouth and 2½ miles west of Lowman.

Records available.- August 1921 to September 1944.

Average discharge.- 23 years, 365 second-feet.

Extremes (regulated since Nov. 2, 1930).- Maximum discharge during year, 1,460 second-feet Aug. 18 (gage height, 3.41 feet); minimum, 38 second-feet Mar. 14, 27 (gage height, 0.85 foot); minimum daily, 45 second-feet Dec. 28.
1921-44: Maximum discharge, 4,230 second-feet May 9, 1928 (gage height, 5.17 feet), from rating curve extended above 3,200 second-feet; minimum, 28 second-feet Nov. 4, 1935 (gage height, 0.83 foot); minimum daily, 34 second-feet Nov. 4, 1935.

Remarks.- Records good except those for periods of ice effect, which are fair. Flow regulated by Deadwood Reservoir (see p. 150). Small amount of water diverted from tributary of Johnson Creek in Salmon River Basin to Deadwood River Basin during year.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,240	73	80	70	70	62	89	298	394	378	613	1,240
2	1,210	73	76	65	70	62	103	262	349	358	594	1,090
3	1,130	82	76	60	70	62	125	246	368	344	549	951
4	1,170	142	71	50	65	62	150	273	325	329	525	925
5	1,200	199	68	480	75	62	177	320	298	329	543	933
6	1,200	114	52	70	95	59	174	394	289	316	607	1,140
7	1,200	87	52	60	100	56	166	442	277	303	673	956
8	1,200	95	87	55	80	69	155	420	289	294	722	640
9	1,180	95	64	60	70	68	142	399	285	285	708	667
10	1,150	69	55	60	62	75	147	389	273	356	680	722
11	1,130	65	55	60	60	70	169	410	358	494	694	708
12	1,010	80	60	65	62	68	208	426	303	460	575	653
13	933	80	465	65	64	65	177	431	285	498	581	640
14	891	78	65	70	71	52	180	431	273	549	646	673
15	891	76	65	70	65	68	142	437	277	613	765	743
16	882	75	65	70	65	76	134	448	307	660	969	795
17	874	76	70	70	65	75	125	437	285	680	1,030	788
18	765	75	75	65	64	76	118	426	266	680	1,170	780
19	633	76	75	65	60	60	116	399	254	582	1,030	833
20	633	78	75	65	55	75	120	363	242	482	1,170	882
21	633	76	70	65	460	70	116	339	289	477	1,240	850
22	575	73	70	65	65	71	137	320	316	471	1,310	795
23	518	73	70	70	64	73	158	298	354	471	1,380	768
24	531	73	70	70	64	73	202	261	368	494	1,380	722
25	433	71	65	65	62	68	218	269	383	525	1,340	667
26	95	58	60	55	62	65	192	266	394	518	1,300	581
27	87	56	60	50	60	59	202	262	410	551	1,290	512
28	103	65	45	50	62	64	226	262	410	506	1,210	405
29	107	70	50	55	62	73	250	277	399	477	1,140	251
30	95	75	70	60	-	75	281	329	389	562	1,210	426
31	83	-	75	65	-	78	-	344	-	581	1,270	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	23,782	1,240	83	767	47,170
November.....	2,518	199	56	83.9	4,990
December.....	2,076	87	45	67.0	4,120
Calendar year 1943	234,695	3,280	40	643	465,500
January.....	1,955	80	50	63.4	3,900
February.....	1,949	100	55	87.2	3,870
March.....	2,110	80	62	68.1	4,190
April.....	4,878	261	69	163	9,680
May.....	10,698	448	246	352	21,620
June.....	9,709	410	242	324	19,260
July.....	14,573	680	285	470	28,910
August.....	28,914	1,380	525	935	57,580
September.....	22,726	1,240	251	758	45,080
Water year 1943-44	126,098	1,380	45	345	250,100

o Winter discharge estimate or measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 28 to Dec. 1, Dec. 10 to Feb. 9, Feb. 19-21.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Payette Lake at McCall, Idaho

Location.— Water-stage recorder, lat. 44°55', long. 116°07', in sec. 8, T. 18 N., R. 3 E., at outlet of lake on North Fork Payette River, at McCall. Datum of gage is 4,982.24 feet above mean sea level, adjustment of 1912. Prior to Nov. 23, 1943, staff gage 75 feet downstream at same datum.

Drainage area.— 144 square miles (revised).

Records available.— August 1921 to September 1944 (fragmentary prior to Nov. 23, 1943).

Extremes.— Maximum gage height during year, 8.22 feet June 1; minimum, 1.62 feet Sept. 28-30.

1921-44: Maximum gage height observed, 8.75 feet July 13, 1935; minimum observed, 0.95 foot Oct. 3, 1931.

Remarks.— Flow from Payette Lake is regulated within natural range by taintor gates and removable stop logs of a buttress- and slab-type dam completed in November 1943. During period 1923 to 1943 lake was regulated by a structure consisting of a series of concrete-filled cribs supporting removable flashboards. Some regulation is reported to have been effected by timber flashboards for several years prior to 1923. Lake area is approximately 5,000 acres and no capacity table has been developed. Water is used for irrigation of lands in vicinity of Emmett. No diversion above station.

Cooperation.— Water-stage recorder inspected by U. S. Forest Service. Prior to Nov. 23, Forest Service furnished once-weekly readings.

Gage height, in feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	-	2.18	2.00	1.99	1.99	1.96	4.66	8.16	8.15	4.97	1.91
2	-	-	2.18	2.00	1.90	1.99	1.96	4.97	7.98	8.14	4.75	1.91
3	-	2.31	2.18	1.99	1.91	1.99	1.98	5.05	7.89	8.12	4.53	1.88
4	1.88	-	2.17	1.98	1.93	2.00	2.01	5.86	7.69	8.12	4.29	1.87
5	-	2.45	2.16	1.97	1.95	2.02	2.09	5.64	7.70	8.15	4.07	1.86
6	-	2.45	2.13	1.97	1.97	2.02	2.17	5.91	7.73	8.15	3.85	1.84
7	-	2.49	2.13	1.98	1.98	2.01	2.24	6.33	7.75	8.15	3.63	1.85
8	-	-	2.14	1.95	1.98	2.00	2.32	6.69	7.79	8.14	3.44	1.81
9	1.84	-	2.12	1.94	2.00	2.02	2.38	6.94	7.88	8.13	3.27	1.79
10	-	-	2.10	1.95	2.00	2.02	2.45	7.13	7.85	8.11	3.13	1.77
11	1.98	2.59	2.08	1.93	2.00	2.01	2.52	7.19	7.93	8.10	3.01	1.76
12	-	2.61	2.07	1.22	2.00	2.00	2.65	7.23	7.90	8.08	2.89	1.74
13	-	2.62	2.08	1.92	2.00	2.01	2.74	7.31	7.78	8.05	2.80	1.71
14	-	2.68	2.04	1.91	2.01	2.00	2.83	7.35	7.69	8.01	2.72	1.69
15	-	-	2.03	1.91	2.00	2.00	2.90	7.59	7.64	7.87	2.65	1.68
16	-	-	2.02	1.90	2.01	1.99	2.98	7.36	7.77	7.71	2.56	1.69
17	-	-	2.01	1.90	2.00	1.99	3.03	7.25	7.87	7.65	2.48	1.70
18	-	-	2.01	1.90	2.00	1.98	3.07	7.03	7.91	7.39	2.42	1.70
19	-	2.40	2.00	1.89	1.99	1.99	3.11	6.85	7.96	7.25	2.35	1.68
20	-	-	2.00	1.89	1.99	1.99	3.17	6.82	8.04	7.11	2.31	1.67
21	2.05	-	2.00	1.88	1.98	1.98	3.23	7.01	8.12	6.98	2.28	1.66
22	2.06	2.32	1.99	1.88	1.98	1.98	3.28	7.16	8.17	6.85	2.20	1.67
23	2.08	2.31	1.99	1.90	1.97	1.98	3.34	7.21	8.19	6.71	2.16	1.68
24	2.11	2.29	2.00	1.91	1.98	1.98	3.47	7.21	8.18	6.55	2.11	1.67
25	2.13	2.27	2.01	1.91	1.99	1.98	3.61	7.13	8.12	6.38	2.08	1.67
26	2.14	2.24	2.01	1.91	1.99	1.98	3.73	7.08	8.07	6.22	2.05	1.66
27	2.17	2.21	2.00	1.90	1.98	1.98	3.84	7.21	7.95	6.04	2.02	1.65
28	2.20	2.19	2.00	1.90	1.98	1.97	3.99	7.44	7.92	5.94	1.99	1.65
29	2.23	2.17	1.99	1.90	1.99	1.97	4.20	7.72	8.01	5.63	1.95	1.62
30	2.26	2.17	1.99	1.89	-	1.96	4.42	8.02	8.08	5.41	1.92	1.62
31	2.28	-	1.99	1.89	-	1.96	-	8.14	-	5.19	1.90	-

Note.— Dam at outlet of Payette Lake washed out Aug. 9, 1945. Cofferdam, which was placed by contractor in lake outlet during construction of new dam, closed outlet Sept. 22 to Nov. 15, 1945.

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

PAYETTE RIVER BASIN

North Fork Payette River at McCall, Idaho

Location.- Water-stage recorder, lat. 44°54'30", long. 116°07'30", in sec. 8, T. 18 N., R. 3 E., at McCall, a quarter of a mile downstream from outlet of Payette Lake.

Drainage area.- 144 square miles.

Records available.- September 1908 to June 1917, May 1919 to September 1944.

Average discharge.- 33 years (1908-16, 1919-44), 343 second-feet.

Extremes.- Maximum discharge during year, 3,080 second-feet, June 1 (gage height, 6.57 feet); minimum, 0.3 second-foot (regulated), Oct. 19, 20 (gage height, 0.81 foot).
1908-17, 1919-44: Maximum discharge, 4,260 second-feet, June 10, 1933; maximum gage height, 7.5 feet, June 5, 1909, June 10, 1933; practically no flow Nov. 5-8, 1931, Nov. 17-24, 1933, Nov. 14-27, 1935, Oct. 22 to Nov. 11, 1938.

Remarks.- Records good except those below 10 second-feet, which are fair. Flow partly regulated by Payette Lake. Dam failed Aug. 8, 1943. Cofferdam for new structure placed Sept. 22, 1943, and dam completed during November. Since water year 1939 some water bypassed station through fish hatchery (see p. 157).

Cooperation.- Water-stage recorder inspected by U. S. Forest Service.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Jan. 8)

1.0	1.8	1.8	34	4.0	785
1.1	3.2	2.0	54	4.5	1,130
1.2	5.1	2.2	82	5.0	1,550
1.3	7.3	2.4	117	6.0	2,500
1.4	10	2.7	186		
1.6	20	3.0	281		
		3.5	505		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	1.4	70	47	40	52	50	8.8	2,420	118	604	47
2	.4	1.4	70	46	41	52	50	2.9	1,610	260	616	48
3	.4	1.5	72	44	42	51	41	2.6	1,650	224	599	45
4	.4	1.7	70	47	45	55	11	7.3	1,170	135	604	42
5	.4	1.7	70	46	48	58	9.3	40	785	110	599	40
6	.4	1.7	66	45	51	58	8.8	117	798	185	599	38
7	.4	1.7	66	45	51	57	11	214	737	152	545	35
8	.4	1.6	67	44	52	55	9.9	322	703	146	475	33
9	.4	1.4	64	44	54	58	9.0	495	707	146	407	32
10	.5	1.4	62	43	54	59	8.8	747	731	144	354	30
11	.7	1.2	59	42	53	57	8.5	1,260	1,270	141	316	27
12	.6	.6	57	41	53	57	8.8	1,290	1,460	141	278	25
13	.6	57	55	41	58	57	7.9	1,520	1,340	139	245	22
14	.5	135	53	40	54	56	7.1	1,650	957	273	524	21
15	.5	131	51	40	54	54	6.6	2,120	605	495	197	19
16	.4	123	50	40	55	54	6.0	2,060	456	495	177	20
17	.4	119	50	40	54	53	4.9	2,030	480	495	159	21
18	.4	113	48	39	53	52	4.7	1,870	505	500	146	21
19	.4	108	47	39	53	53	4.9	1,490	441	495	131	19
20	.4	104	47	38	53	53	4.9	703	274	490	121	19
21	.5	101	46	38	52	53	5.1	615	376	495	112	18
22	.5	96	45	38	51	52	5.6	622	689	490	104	18
23	.5	92	45	40	50	52	7.1	632	701	510	94	18
24	.6	89	46	41	51	52	8.8	632	683	577	85	18
25	.6	84	48	41	52	51	7.3	594	665	577	78	18
26	.4	80	48	41	52	52	6.4	500	654	577	73	17
27	.4	76	47	40	52	52	6.5	599	495	599	57	17
28	.6	72	47	40	52	51	4.7	465	177	599	53	15
29	.8	70	46	40	53	51	4.5	566	57	599	57	16
30	1.5	68	46	39	-	50	8.8	874	57	604	52	15
31	1.4	-	47	39	-	50	-	1,630	-	604	47	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	16.7	1.5	0.4	0.54	35
November.....	1,735.3	135	.6	57.8	3,440
December.....	1,705	72	45	55.0	3,580
Calendar year 1943.....	172,335.6	3,330	.4	472	341,800
January.....	1,288	47	38	41.5	2,650
February.....	1,477	55	40	50.9	2,930
March.....	1,665	59	50	53.7	3,300
April.....	339.0	60	4.5	11.3	672
May.....	25,668.6	2,120	2.6	828	50,910
June.....	23,630	2,420	57	798	45,670
July.....	11,465	604	110	370	22,740
August.....	8,229	616	47	265	15,320
September.....	777	48	15	25.9	1,540
Water year 1943-44.....	77,995.6	2,420	.4	213	154,700

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

North Fork Payette River at Cascade, Idaho

Location.- Staff gage, lat. 44°31', long. 116°02', in NE¼ sec. 36, T. 14 N.; R. 3 E., at Cascade, 375 feet downstream from Halleck and Howard mill dam, half a mile upstream from Beaver Creek, and 2½ miles downstream from Willaw Creek.

Drainage area.- 626 square miles.

Records available.- May 1941 to September 1944.

Extremes.- Maximum discharge observed during year, 3,580 second-feet June 3; maximum gage height observed, 3.78 feet May 18; minimum discharge observed, 53 second-feet (gates in mill dam closed) Sept. 18 (gage height, 0.40 foot); minimum daily discharge, 68 second-feet Sept. 18.

1941-44: Maximum discharge observed, 7,000 second-feet June 3, 1943 (gage height, 6.33 feet); minimum observed and minimum daily, those of Sept. 18, 1944.

Remarks.- Records fair. Gage read twice daily. Flow regulated by Payette Lake (see p. 153), Lake Fork Reservoir (see p. 159), and occasionally by Halleck and Howard mill dam. Several diversions from tributaries above station for irrigation.

Cooperation.- Gage-height record furnished by Bureau of Reclamation.

/ Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	155	345	345	803	280	230	425	607	2,180	544	701	140
2	155	304	352	a190	230	240	a520	552	2,670	a540	701	145
3	a180	297	352	180	260	a240	582	495	3,450	527	720	a165
4	150	418	352	160	260	240	572	487	a3,000	544	701	185
5	145	598	a300	160	260	230	1,200	511	2,540	479	710	165
6	140	535	180	150	270	230	1,140	580	1,320	418	a710	135
7	155	a440	175	150	300	210	1,250	a700	1,640	402	682	160
8	168	345	175	170	320	230	1,250	820	1,640	373	683	140
9	170	358	175	190	320	260	a1,070	925	1,580	a350	607	135
10	a200	351	165	190	310	290	925	1,030	1,580	351	535	a135
11	235	317	160	180	300	310	978	1,140	1,760	440	495	135
12	317	510	160	210	270	330	1,080	1,520	2,300	297	471	135
13	297	304	160	230	270	310	1,030	1,940	2,670	170	a430	111
14	252	a300	160	240	250	270	820	1,820	2,420	278	410	99
15	221	331	160	240	280	280	682	2,180	2,060	338	388	111
16	209	410	160	240	250	284	a500	2,670	1,940	a400	366	119
17	a209	410	197	240	250	310	519	3,060	1,700	553	317	a200
18	209	410	215	230	250	345	442	3,320	a1,550	571	310	68
19	239	410	a220	220	250	a330	425	3,190	1,420	589	271	135
20	252	410	227	220	250	325	442	2,800	1,360	599	a250	155
21	245	a400	233	a210	250	310	553	a2,000	1,300	589	233	145
22	290	368	233	200	250	280	672	1,470	1,300	598	221	127
23	366	368	233	210	250	310	701	1,470	1,550	a500	197	155
24	a390	a380	221	220	250	a280	820	1,360	1,580	607	180	a145
25	410	345	a220	200	250	270	925	1,250	a1,500	663	175	135
26	425	310	a215	190	240	260	820	1,200	1,420	682	175	127
27	388	290	200	190	240	245	663	1,140	1,300	672	a170	119
28	410	a290	180	190	240	245	607	a1,060	1,250	682	165	127
29	410	317	150	190	240	245	625	978	1,030	682	155	127
30	418	335	180	200	-	324	a625	1,200	544	a700	145	119
31	a380	-	197	210	-	352	-	1,520	-	701	140	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	9,175	425	140	264	16,210
November.....	10,987	595	290	316	21,790
December.....	6,652	352	160	245	13,190
Calendar year 1943	478,786	7,000	140	1,312	949,600
January.....	6,302	240	150	203	12,500
February.....	7,640	320	160	260	14,950
March.....	5,615	352	230	278	17,090
April.....	23,363	1,260	425	779	46,340
May.....	45,006	3,320	497	1,462	89,270
June.....	54,034	3,450	544	1,801	107,200
July.....	15,909	701	170	513	31,560
August.....	12,594	720	140	400	24,580
September.....	4,099	155	68	136	8,110
Water year 1943-44	203,055	3,450	68	555	402,800

e Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated or computed on basis of records for station near Smiths Ferry.

Note.- Stage-discharge relation affected by ice Dec. 8, 9, 11-16, 27-30, Jan. 3 to Mar. 15, Mar. 20-29.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

PAYETTE RIVER BASIN

North Fork Payette River near Smiths Ferry, Idaho

Location.—Water-stage recorder, lat. 44°16', long. 116°04', in SW¹/₄ sec. 23, T. 11 N., R. 3 E., 450 feet downstream from Beaver Creek, 2¹/₂ miles downstream from Tripod Creek, and 2 5/8 miles southeast of Smiths Ferry. Datum of gage is 4,506.9 feet above mean sea level (levels by Bureau of Reclamation).

Drainage area.—893 square miles.

Records available.—May 1941 to September 1944.

Extremes.—Maximum discharge during year, 3,830 second-feet June 4 (gage height, 7.53 feet); minimum, 99 second-feet (regulated) Sept. 19 (gage height, 2.05 feet) from rating curve extended below 150 second-feet; minimum daily, 123 second-feet Sept. 15, 1941-44; Maximum discharge, 9,110 second-feet June 3, 1943 (gage height, 10.70 feet); minimum, that of Sept. 19, 1944; minimum daily, that of Sept. 15, 1944.

Remarks.—Records good except those for period of ice effect, which are fair. Flow regulated by Payette Lake (see p. 153), Lake Fork Reservoir (see p. 159), and occasionally by mill dam at Cascade. Several diversions from tributaries above station for irrigation.

Rating table, water year 1943-44, except period of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Aug. 7 to Sept. 30)

2.2	117	3.6	630	6.0	2,200
2.4	153	4.2	850	6.5	2,630
2.7	228	4.6	1,090	7.0	3,220
3.0	312	5.0	1,370	7.5	3,830
3.4	442	5.5	1,760		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	212	450	408	270	310	270	450	1,120	2,380	822	740	174
2	215	399	280	330	330	290	800	1,080	2,430	712	740	186
3	210	403	399	240	370	*280	750	1,000	3,450	674	740	194
4	210	572	406	220	370	280	950	970	3,580	718	740	212
5	205	768	363	220	350	270	1,400	1,000	3,000	680	740	207
6												
7	202	729	339	220	390	270	1,600	1,090	2,380	609	740	186
8	210	582	*295	220	430	250	1,800	1,230	2,020	542	734	167
9	231	466	270	240	450	300	1,580	1,540	1,980	518	729	169
10	233	435	250	270	420	330	1,800	1,400	1,930	478	880	180
11	233	424	240	270	390	370	*1,480	1,520	1,880	450	619	155
12												
13	275	403	210	280	350	400	1,520	1,640	2,020	435	562	153
14	342	406	210	310	330	430	1,720	2,020	2,480	428	504	155
15	383	390	210	320	330	390	1,600	2,430	2,890	399	450	145
16	342	376	210	320	320	370	1,400	2,630	2,890	345	420	131
17	312	370	210	320	300	390	1,200	2,890	2,630	351	383	123
18												
19	295	417	210	320	290	390	1,090	3,340	2,480	323	370	137
20	286	446	280	310	290	430	1,000	3,450	2,240	604	351	255
21	280	454	350	290	290	470	880	3,700	1,980	656	324	127
22	312	454	320	270	290	460	822	3,700	1,800	646	306	130
23	336	458	290	270	290	440	880	3,580	1,680	658	283	186
24												
25	370	462	290	280	290	420	970	3,000	1,880	656	272	194
26	361	450	320	*280	290	420	1,090	2,200	1,840	658	283	186
27	413	431	300	280	290	440	1,120	1,880	1,680	646	244	186
28	458	413	300	300	290	400	1,370	1,900	1,880	641	228	169
29	486	424	300	250	290	380	1,440	1,880	1,780	658	205	189
30												
31	509	353	290	250	280	350	1,540	1,560	1,640	718	202	174
32	500	387	270	260	280	330	1,180	1,520	1,800	740	199	164
33	496	330	*240	280	280	330	1,120	1,440	1,560	740	194	160
34	532	345	200	270	280	330	1,120	1,400	1,370	734	186	160
35	537	403	230	280	-	350	1,120	1,560	1,000	740	131	164
36	496	-	250	290	-	390	-	1,880	-	754	174	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	10,482	537	202	338	20,790
November.....	13,424	768	330	447	26,630
December.....	8,857	406	200	286	17,670
Calendar year 1943.....	661,123	8,910	202	1,811	1,311,000
January.....	8,370	320	220	270	16,600
February.....	9,470	450	280	327	18,780
March.....	11,210	470	250	362	22,250
April.....	36,472	1,680	450	1,215	72,340
May.....	61,040	3,700	970	1,989	121,100
June.....	63,940	3,580	1,000	2,131	126,800
July.....	18,785	822	345	606	37,280
August.....	13,523	740	174	436	26,820
September.....	5,118	255	123	171	10,160
Water year 1943-44.....	260,691	3,700	123	712	517,100

* Winter discharge measurement made on this day.

Note.—Stage-discharge relation affected by ice Dec. 8 to Apr. 7; no gage-height record Dec. 30 to Feb. 26; discharge computed on basis of records for North Fork Payette River at Cascade, Payette River near Horseshoe Bend, and South Fork Payette River at Banks.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Fish hatchery diversion at McCall, Idaho

Location.- Staff gage and Parshall flume, lat. 44°54'30", long. 116°07', in sec. 8, T. 18 N., R. 3 E., immediately below outlet from fish hatchery tanks, just above point of return to North Fork Payette River, and 1 mile west of McCall.

Records available.- October 1942 to September 1944.

Extremes.- Maximum discharge observed during year, 3.8 second-feet July 19 (gage height, 0.94 foot); no flow Oct. 1 to Nov. 7.
1942-44: Maximum discharge observed, 4.8 second-feet Apr. 18-24, 26-28, May 1, 2, 4, 5, 7-11, July 2, 4, 1943; maximum gage height observed, 1.12 feet June 2, 1943, affected by backwater from North Fork Payette River; no flow Sept. 22 to Nov. 7, 1943.

Remarks.- Records poor. Gage read once daily. Flow regulated by operation of fish hatchery, water for which is diverted from Payette Lake or North Fork Payette River and bypasses gaging station on that stream.

Cooperation.- Gage readings furnished by Idaho State Fish and Game Commission.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	2.6	2.6	2.2	a2.6	2.6	2.6	3.7	3.6	3.6	a2.4
2		0	2.6	2.4	2.3	a2.6	2.7	2.6	3.7	3.6	3.6	a2.4
3		0	2.6	2.4	2.2	a2.7	2.6	2.6	3.7	3.6	3.6	2.4
4		0	2.6	2.4	2.1	a2.7	2.7	2.6	3.7	3.6	3.6	2.3
5		0	2.7	2.3	2.1	a2.7	2.7	2.6	3.7	3.6	3.6	2.4
6		0	2.7	2.6	2.6	2.7	2.6	2.6	3.7	3.6		2.6
7		1.6	2.7	2.6	2.6		2.7	2.6	3.7	3.6		2.9
8		2.7	2.6	2.6	2.6		2.6	2.6	3.7	3.6		2.9
9		2.6	2.4	2.4	2.6		2.6	2.6	3.7	3.6	a3.5	2.9
10		2.6	2.7	2.6	2.6		2.6	2.6	3.7	3.6		2.9
11		2.7	2.6	2.6	2.6		2.6	2.6	3.7	3.6		2.3
12		2.6	2.7	2.6	2.6		2.6	2.6	3.7	3.6		2.4
13		2.7	2.6	2.3	2.6	a2.7	2.6	2.6	3.7	3.6	3.6	2.3
14		2.7	2.7	2.3	2.7		2.6	2.6	3.7	3.6	3.6	2.3
15		2.7	2.6	2.3	2.6		2.6	2.6	3.7	3.6	3.6	2.4
16		2.6	2.7	2.3	2.7		2.6	2.6	3.7	3.6	3.6	2.3
17		2.6	2.6	2.3	2.7		2.6	2.6	3.7	3.6	3.6	2.3
18		2.7	2.6	2.4	2.6		2.6	2.6	3.7	3.6	3.6	2.3
19		2.6	2.6	2.3	2.7		2.6	2.6	3.1	3.6	3.6	2.3
20		2.6	2.6	2.3	2.6		2.6	2.6	3.1	3.4	2.3	2.3
21		2.7	2.6	2.2	2.6		2.6	2.6	3.7	3.4	2.3	2.3
22		2.6	2.6	2.2	2.6		2.7	2.6	3.7	3.6	2.4	2.3
23		2.6	2.6	2.3	2.7		2.6	2.6	3.7	3.4	2.3	2.3
24		2.6	2.6	2.2	2.7		2.6	2.6	3.7	3.4	2.6	2.4
25		2.6	2.6	2.3	2.6	a2.6	2.6	2.6	3.1	3.4	2.4	2.3
26		2.6	2.6	2.2	2.6		2.6	2.6	3.4	3.4	2.6	2.3
27		2.6	2.6	2.3	a2.6		2.6	2.6	3.7	3.4	a2.6	2.4
28		2.6	2.6	2.2	a2.6		2.6	3.1	3.1	3.4	a2.6	2.3
29		2.6	2.4	2.3	a2.6		2.6	3.7	3.1	3.4	a2.6	2.3
30		2.6	2.6	2.2	-		2.6	3.1	3.1	3.6	a2.6	2.3
31		-	2.4	2.3	-		-	3.1	-	3.6	a2.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	0	0	0	0	0
November	52.8	2.8	0	0.09	126
December	80.3	2.7	2.4	2.69	159
Calendar year 1943	1,158.3	4.8	0	3.17	2,300
January	73.0	2.6	2.2	2.36	145
February	72.9	2.7	2.1	2.51	146
March	82.2	-	-	2.66	163
April	77.8	2.8	2.5	2.69	154
May	80.9	3.7	2.6	2.61	160
June	107.1	3.7	3.1	3.57	212
July	108.9	3.6	3.4	3.61	216
August	95.1	-	2.3	3.10	191
September	72.6	2.9	2.3	2.42	144
Water year 1943-44	914.5	3.7	0	2.60	1,810

a No gage-height record; discharge interpolated.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Lake Fork Payette River above reservoir, near McCall, Idaho

Location.— Water-stage recorder, lat. 44°55', long. 116°00', in NW¼ sec. 8, T. 18 N., R. 4 E., three-quarters of a mile downstream from power plant, 2½ miles upstream from Lake Fork Reservoir dam, and 5 miles east of McCall.

Drainage area.— 54.6 square miles.

Records available.— May 1926 to September 1944 (irrigation seasons only prior to 1943).

Extremes.— Maximum discharge during year, 1,030 second-feet May 14 (gage height, 4.90 feet); minimum recorded, 7.5 second-feet (regulated) Mar. 25 (gage height, 0.13 foot); minimum daily, 13 second-feet Sept. 14.

1926-44: Maximum discharge observed, 2,520 second-feet June 9, 1933 (gage height, about 7.9 feet, present datum, from high-water mark), from rating curve extended above 1,100 second-feet; practically no flow at times in 1937 and 1939 caused by regulation by power plant.

Remarks.— Records good except those for periods of no gage-height record, ice effect, or backwater from reservoir, which are fair. Diurnal fluctuations at low flow caused by power plant of McCall Light & Power Co. and small reservoirs above station. No diversion above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	21	28			19	b25	243	715	124	32	16
2	17	22	26			18	32	193	484	111	30	20
3	16	25	26			18	48	195	419	102	32	24
4	16	46	27			18	72	247	370	102	29	19
5	16	84	25			18	94	343	363	102	28	18
6	16	44	b27	b20		b17	81	466	367	99	27	17
7	16	38	23			*b16	81	538	367	88	27	16
8	16	35			b20	20	75	438	367	80	25	16
9	16	37				20	68	426	350	75	20	16
10	18	34					74	412	334	73	20	16
11	27	33				b20	90	492	529	76	20	16
12	27	32					105	548	441	69	19	14
13	23	33					85	652	393	66	19	14
14	22	32				b18	79	760	328	61	20	13
15	21	31		b21		b20	73	770	306	56	20	14
16	21	28				21	68	699	334	54	19	16
17	20	28	b25			21	64	562	298	52	19	19
18	20	29				22	61	444	262	49	18	19
19	19	32		b20	b19	22	61	400	280	47	18	19
20	19	34		*b19		22	60	376	282	46	18	19
21	20	32				b22	60	367	262	45	18	18
22	20	33				b22	78	323	284	43	17	20
23	18	30		b20	20	22	93	272	288	42	17	22
24	19	*27			21	b22	139	247	254	41	16	19
25	20	24			20	b21	154	230	249	39	16	18
26	25	21			20	19	116	272	230	38	16	17
27	25	20			19	b20	134	304	200	37	16	16
28	27	21			18	b21	181	367	166	36	16	15
29	40	23	b22	b19	19	b21	224	436	122	34	16	16
30	33	25			-	b22	249	593	111	33	16	15
31	28	-			-	23	-	613	-	32	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	657	40	16	21.2	1,300
November.....	954	84	20	31.8	1,890
December.....	768	-	-	24.7	1,620
Calendar year 1943	71,664	1,540	-	196	142,200
January.....	621	-	-	20.0	1,230
February.....	570	-	-	19.7	1,130
March.....	625	23	16	20.2	1,240
April.....	2,804	249	26	23.5	5,360
May.....	13,188	770	193	425	26,180
June.....	9,745	715	111	325	19,330
July.....	1,954	124	32	65.0	3,880
August.....	699	32	15	20.6	1,270
September.....	516	24	13	17.2	1,020
Water year 1943-44	33,038	770	-	90.3	65,530

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Note.— No gage-height record Oct. 25 to Nov. 23; discharge computed on basis of auxiliary record at power plant. Stage-discharge relation affected by backwater from reservoir May 17 to July 12; discharge computed on basis of special gage height computation developed from auxiliary relation curve.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Lake Fork Reservoir near McCall, Idaho

Location.- Staff gage and graduations on concrete gate-control structure of dam on Lake Fork Payette River, lat. 44°54', long. 116°03', in NW¼ sec. 13, T. 18 N., R. 3 E., 3 miles east of McCall. Datum of gage is at mean sea level (levels by Lake Irrigation District).

Records available.- April 1926 to September 1944.

Extremes.- Maximum contents observed during year, 19,410 acre-feet June 3 (elevation, 5,118.55 feet); no storage during fall and winter.

1926-44: Maximum contents observed, 19,740 acre-feet June 19, 1941 (elevation, 5,118.75 feet); probably no storage above elevation 5,101.0 feet during fall and winter each year.

Remarks.- Reservoir is formed by earth- and rock-fill dam completed in 1926. Capacity, 18,940 acre-feet between elevations 5,101.0 feet (lower limit of capacity table, 4.0 feet above gate sill of outlet) and 5,117.0 feet (top of flashboards, 5.0 feet above spillway crest). Dead storage unknown. Water is used for irrigation of about 6,800 acres of land in vicinity of Norwood. Figures given herein represent contents above 5,101.0 feet. There is some usable storage below elevation 5,101.0 feet, but natural flow passing through reservoir when outlet gates are operating prevents withdrawal of storage to elevation of sill of gates. Gage read once daily. Time of reading variable. Storage figures from gage heights as observed.

Cooperation.- Elevation record and capacity table furnished by Lake Irrigation District.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Furnished by Lake Irrigation District 5,101 to 5,118 feet;
extended to 5,119 feet)

5,101	0	5,106	2,807	5,111	8,098	5,115	15,386
5,102	481	5,107	3,615	5,112	9,379	5,117	18,940
5,103	969	5,108	4,847	5,113	10,518	5,118	19,625
5,104	1,497	5,109	6,006	5,114	12,318	5,119	20,143
5,105	2,105	5,110	6,769	5,115	13,846		

Note.- Capacity published for elevation 5,118 feet in Water-Supply Paper 863 was in error.

Contents, in acre-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								7,273	19,170	18,600	10,560	2,967
2								-	19,360	18,540	10,180	2,823
3								-	19,410	18,460	9,882	2,793
4								8,568	19,010	18,400	9,580	2,779
5								-	18,850	18,380	9,243	2,764
6								9,954	18,810	18,240	8,960	2,700
7								10,670	18,770	18,180	8,648	2,680
8								11,550	18,770	17,830	8,312	2,681
9	3,690							12,820	18,600	17,710	8,026	2,611
10								13,040	18,800	17,460	7,754	2,434
11								13,800	19,010	17,240	7,512	2,364
12								14,680	19,300	16,940	7,223	2,294
13								15,620	19,300	16,670	6,908	2,217
14								16,660	19,220	16,360	6,676	2,147
15								17,410	19,120	16,070	6,441	2,081
16								17,730	19,100	15,730	6,163	2,044
17								17,890	19,100	15,430	5,864	-
18								17,730	19,070	15,170	5,652	1,959
19								17,650	19,040	14,770	5,429	-
20								17,440	19,090	14,490	5,182	1,879
21								17,330	19,070	14,170	4,970	1,849
22								17,250	19,100	13,850	4,768	-
23								17,110	19,170	13,510	4,528	1,794
24							4,312	17,070	19,120	13,160	4,294	1,776
25								16,960	19,100	12,840	4,080	-
26								16,960	19,070	12,520	3,875	-
27								17,070	18,970	12,230	3,689	1,715
28								17,290	18,850	11,900	3,518	-
29								17,670	18,630	11,670	3,372	-
30								18,080	18,720	11,210	3,226	1,569
31								18,720	-	10,850	3,113	-

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
May 31	5,118.12	18,720	-
June 30	5,118.12	18,720	0
July 31	5,113.02	10,850	-7,870
Aug. 31	5,106.68	5,113	-7,737
Sept. 30	5,104.12	1,569	-1,544

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

PAYETTE RIVER BASIN

Lake Fork Payette River below Lake Irrigation District Canal, near McCall, Idaho

Location.— Water-stage recorder, lat. 44°54', long. 116°03', in SW¼ sec. 13, T. 18 N., R. 3 E., 300 feet downstream from diversion dam for Lake Irrigation District Canal, half a mile downstream from Lake Fork Reservoir, and 3 miles southeast of McCall.

Records available.— October 1940 to September 1944.

Extremes.— Maximum discharge during year, 622 second-feet May 17 (gage height, 4.77 feet); minimum daily, 0.4 second-foot (regulated) Mar. 27, 28.

1940-44: Maximum discharge, 1,380 second-feet June 1, 1943 (gage height, 6.13 feet); minimum daily, that of Mar. 27, 28, 1944; minimum gage height, 1.76 feet Mar. 28, 1944.

Remarks.— Records good except those for periods of ice effect or no gage-height record, which are poor. Flow regulated by Lake Fork Reservoir (see preceding page) and Lake Irrigation District Canal.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	a60	46	a23		25	0.5	1.0	420	88	68	23
2	62		44			26	.6	.9	450	76	68	18
3	62		43			26	.6	.8	416	70	68	18
4	62		41			25	.7	.8	356	74	64	12
5	61		40			26	1.0	.8	302	78	61	11
6	61		37			b25	.8	.8	270	76	64	12
7	61		37			b24	.6	2.5	250	81	62	12
8	61		37			*23	.8	11	240	76	61	11
9	60		a35		a25	23	.8	28	244	60	60	11
10	59		a35			24	.5	42	228	78	60	12
11	61					b23	1.0	51	263	81	59	14
12	61					b22	1.1	54	340	81	58	12
13	59					b21	.9	80	344	78	57	12
14	58					b20	.8	298	308	74	56	12
15	58	a40				20	.8	545	267	71	50	12
16	58					20	.8	572	263	70	53	12
17						8.6	.8	599	247	70	51	12
18			a30		27	2.8	.8	532	231	73	46	12
19	a60				b26	.6	.8	480	212	73	54	13
20					b25	.5	.8	424	218	71	46	13
21					b22	.5	.8	364	218	70	50	12
22					b22	.5	1.0	330	247	70	49	12
23	a170				24	.5	1.1	228	263	69	50	12
24		*39			24	.5	1.7	160	247	71	51	12
25		38			b22	.5	1.2	138	231	71	50	12
26		38			25	.5	1.0	121	215	71	47	12
27		37			b25	.4	1.1	90	189	70	44	11
28		36			b25	.4	1.1	100	160	69	44	11
29	a90		a22	a22	25	.5	1.1	108	138	69	33	11
30		40			-	.5	1.1	150	107	69	21	11
31		47			-	.5	-	270	-	66	27	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	2,596	-	-	83.7	5,160
November.....	1,295	-	-	43.2	2,570
December.....	977	46	-	31.5	1,940
Calendar year 1943.....	66,757	1,350	-	183	132,400
January.....	707	-	-	22.8	1,400
February.....	780	-	-	26.2	1,460
March.....	399.9	26	0.4	12.6	773
April.....	27.2	1.7	.5	.91	54
May.....	5,803.6	599	.8	187	11,510
June.....	7,894	460	107	263	15,660
July.....	2,284	88	66	73.7	4,530
August.....	1,631	68	21	52.6	3,240
September.....	380	23	11	12.7	764
Water year 1943-44.....	24,714.6	599	.4	67.5	49,030

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for station above Lake Fork Reservoir and changes in reservoir contents.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Lake Irrigation District Canal near McCall, Idaho

Location.- Staff gage, lat. 44°54', long. 116°03', in SW¼ sec. 13, T. 18 N., R. 3 E., 600 feet downstream from head of canal, half a mile south of Lake Fork Reservoir, and 3 miles east of McCall.

Records available.- May 1926 to September 1944.

Extremes.- Maximum discharge observed during year, 150 second-feet May 30 to June 3 (gage height, 4.86 feet); practically no flow during nonirrigation season.
1926-44: Maximum discharge observed, 159 second-feet July 8, 9, 1942 (gage height, 4.96 feet); no flow or small amount of leakage through head gate during nonirrigation seasons.

Remarks.- Records good except those for discharges below 1 second-feet, which are poor. Staff gage read once or twice a day. No diversions between head and station. Canal diverts water from right bank of Lake Fork Payette River in SW¼ sec. 13, T. 18 N., R. 3 E., for irrigation of 6,800 acres of land near McCall and Norwood, in the Lake Irrigation District project.

Cooperation.- Gage-height record furnished by Lake Irrigation District.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									150	57	115	52
2									150	59	115	41
3		a0.5							142	67	115	38
4								a0.1	134	71	114	38
5									132	71	108	38
6		a0.7							132	82	106	35
7								.1	152	99	106	34
8								.1	124	110	106	40
9		a.3						.1	120	112	97	44
10				a0.2				.1	118	117	89	41
11	t.7						a0.1	.4	121	124	87	40
12								.4	118	126	90	34
13								.4	107	128	91	32
14								.7	102	129	91	32
15			a0.2		a0.2	a0.2		.8	98	129	92	32
16								8.3	84	129	85	32
17		a.2						31	67	129	79	a30
18								49	63	129	78	29
19								54	63	129	78	a27
20				t.2				64	63	130	78	26
21	a.7							71	60	129	78	.25
22								87	48	129	78	a24
23								99	43	129	73	23
24		t.2					t.1	114	43	127	70	23
25				a.2				121	43	123	70	a23
26								124	43	121	68	a23
27		a.2					a.1	130	50	123	60	23
28								140	53	124	59	a23
29								143	53	124	60	a23
30								147	53	124	68	23
31								150		118	54	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	21.7	-	-	0.70	43
November.....	8.0	-	-	.27	16
December.....	6.2	-	-	.20	12
Calendar year 1943	11,652	152	-	31.9	23,110
January.....	6.2	-	-	.20	12
February.....	5.8	-	-	.20	12
March.....	6.2	-	-	.20	12
April.....	3.0	-	-	.10	6
May.....	1,536.0	150	-	49.5	3,050
June.....	2,709	150	43	90.3	5,370
July.....	3,498	130	57	113	6,940
August.....	2,648	118	84	88.4	5,250
September.....	947	52	25	31.6	1,680
Water year 1943-44	11,395.1	150	-	31.1	22,600

† Discharge measurement or field estimate.

a No gage-height record; discharge interpolated or computed on basis of discharge measurements or field estimates.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

PAYETTE RIVER BASIN

Cruzen Canal at Lake Fork, Idaho

Location.- Staff gage, lat. 44°50', long. 116°04', in NE $\frac{1}{4}$ sec. 3, T. 17 N., R. 3 E., 500 feet below head gates and 1 mile northeast of town of Lake Fork.

Records available.- August 1938 to September 1944 (fragmentary).

Remarks.- Records good. Staff gage read once or twice daily. Flow regulated at head gate of canal. No diversions between head and station. Canal diverts water from right bank of Lake Fork Payette River in NE $\frac{1}{4}$ sec. 3, T. 17 N., R. 3 E., for irrigation.

Cooperation.- Gage readings furnished by Lake Irrigation District.

Monthly discharge, 1943-44

Month	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	19	5.6	12.6	788
November 1-15.....	5.6	1.0	4.78	142
May.....	61	.5	35.4	2,240
June.....	87	17	28.8	1,710
July.....	56	46	50.1	3,080
August.....	46	13	40.9	2,520
September 1-4.....	15	6.2	16.7	100

Porter Creek near Gardena, Idaho

Location.- Staff gage, lat. 43°57', long. 116°11', in NE $\frac{1}{4}$ sec. 14, T. 7 N., R. 2 E., at Road ranch house, 0.6 mile upstream from mouth and 2 miles south of Gardena.

Drainage area.- 21.2 square miles.

Records available.- November 1938 to September 1944.

Extremes.- Maximum discharge observed during year, 92 second-feet Apr. 24 (gage height, 2.40 feet), from rating curve extended above 60 second-feet; minimum observed, 0.2 second-foot Aug. 29-31; minimum gage height observed, 0.30 foot Aug. 28.

1938-44: Maximum discharge observed, 181 second-foot Aug. 11, 1941 (gage height, 3.58 feet, from floodmark), from rating curve extended above 50 second-feet; no flow at times.

Remarks.- Records good except those for October and November, which are fair, and those below 1 second-foot or for periods of ice effect, which are poor. Gage read twice daily. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	5.0	5.3	4.3	4.0	4.8	11	32	13	4.0	1.2	0.4
2	1.0	5.2	4.6	4.2	4.8	4.8	13	28	16	4.0	1.3	.4
3	1.0	5.3	5.3	b5.5	5.7	4.2	15	30	19	4.6	.9	.4
4	1.0	11	5.0	b2.5	6.0	6.2	16	28	12	5.6	.7	.4
5	1.0	7.3	5.0	b4	5.7	6.2	18	27	11	3.2	.7	.4
6	1.0	5.9	5.0	b5.5	11	6.0	15	28	10	2.6	.5	.4
7	1.1	5.7	5.0	5.5	9.3	4.2	14	28	9.8	2.4	1.1	.4
8	1.1	5.7	5.7	b5	6.2	5.8	16	26	11	2.5	1.4	.4
9	1.0	5.0	b4	b4	6.4	8.5	16	25	10	3.7	1.1	.4
10	1.0	4.6	b3	b3.5	5.7	10	13	23	10	2.8	.8	.4
11	1.1	4.6	b2	b5.5	6.2	7.3	14	21	12	2.5	.7	.4
12	1.4	4.3	b3	b3.5	5.2	8.2	20	20	9.8	2.5	.4	.4
13	1.4	4.3	b3	b3.5	5.3	5.8	19	20	8.7	1.8	.4	.4
14	1.4	4.5	b5	b4	6.2	6.4	20	20	11	1.6	.5	.4
15	1.4	4.6	b3	4.5	b6	b6	16	18	10	1.4	.9	.4
16	1.3	4.6	b5.5	4.2	b6	9.0	15	16	12	1.3	1.0	.5
17	1.4	4.6	b4	4.2	5.3	13	13	15	10	1.3	.8	1.1
18	1.6	4.6	b4	3.7	5.0	8.7	13	14	9.6	.9	.8	1.2
19	1.6	5.0	4.2	3.3	4.8	8.5	14	13	9.3	.7	.9	1.2
20	1.4	5.0	4.3	3.6	b4	8.2	23	12	8.5	2.0	.9	1.2
21	2.8	5.0	4.3	3.7	b4	6.9	20	11	11	1.1	.9	.8
22	4.2	4.6	4.2	3.6	5.0	7.8	24	10	10	.7	.6	.7
23	4.0	4.6	4.3	3.9	4.8	9.3	26	6.0	9.0	.5	.5	1.4
24	4.3	4.5	4.5	3.9	4.6	9.0	67	8.7	6.2	.6	.4	1.0
25	4.3	4.3	4.5	3.7	4.2	8.0	44	7.8	7.3	.5	.4	.7
26	4.3	4.3	4.5	3.5	4.3	7.1	36	7.5	7.3	.7	.3	.5
27	4.5	4.0	b3	2.8	3.9	6.7	32	7.3	7.3	.5	.3	1.2
28	7.1	4.3	b2	2.8	4.6	7.3	32	7.3	7.5	.6	.3	1.2
29	7.8	4.3	b3	3.6	4.3	8.2	52	9.0	6.4	.5	.2	.9
30	6.4	4.8	b4	3.7	-	8.2	33	11	5.5	.7	.2	1.0
31	5.2	-	4.2	3.7	-	9.6	-	12	-	1.0	.2	.7

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	79.0	7.6	1.0	2.55	157
November.....	151.6	11	4.0	5.05	301
December.....	124.4	5.7	2.0	4.01	247
Calendar year 1943	7,580.7	126	.2	21.6	15,630
January.....	118.9	5.5	2.5	3.84	236
February.....	156.5	11	3.9	5.47	314
March.....	232.5	13	4.2	7.50	461
April.....	878	87	11	22.6	1,340
May.....	544.6	32	7.3	17.6	1,080
June.....	302.2	19	5.5	10.1	599
July.....	56.8	4.6	.8	1.63	115
August.....	2.3	1.4	.2	.69	42
September.....	20.6	1.4	.4	.69	41
Water year 1943-44	2,488.4	87	.2	6.80	4,930

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weiser River at Tamarack, Idaho

Location.- Staff gage, lat. 44°57', long. 116°23', in sec. 30, T. 19 N., R. 1 E., 0.4 mile southeast of Tamarack.

Drainage area.- 36.5 square miles.

Records available.- September 1936 to September 1944.

Extremes.- Maximum discharge observed during year, 146 second-feet Apr. 5 (gage height, 2.80 feet); minimum, about 3 second-feet Jan. 4-7; minimum gage height observed, 0.66 foot Aug. 8.

1936-44: Maximum discharge observed, 775 second-feet Mar. 27, 1940 (gage height, 6.00 feet); minimum observed, 1.7 second-feet July 30, 1938 (gage height, 0.52 foot), while water was being stored in mill pond.

Remarks.- Records fair except those for periods of ice effect or no gage-height record, which are poor. Gage read once or twice daily. No diversion or regulation. Small flow from Boulder Creek in Salmon River Basin enters Weiser River above station through transmountain diversion during late irrigation season.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.1	7.7	6.8	4.7	5.3	5.9	23	98	23	9.3	5.7	5.5
2	5.1	7.7	6.8	4.7	5.3	5.9	56	86	22	8.7	5.9	5.9
3	5.1	7.7	6.8	b4	4.5	5.9	70	73	22	8.7	5.3	5.5
4	5.5	7.7	6.8		4.5	5.5	91	69	19	8.7	5.3	5.9
5	5.5	7.7	6.3		4.5	5.3	146	64	18	5.7	5.5	5.5
6	5.5	7.5	5.9		5.3	5.9	142	63	16	as.2	5.9	5.5
7		7.7	5.5		5.3	5.9	124	62	16	5.9	5.9	5.5
8		a7.7	5.9		4.9	5.3	120	55	15	7.3	as.9	5.9
9		7.7	4.7	b4	4.5	5.3	100	52	16	6.3	5.9	5.5
10	a7	7.7	4.7		4.9	5.2	100	45	15	6.5	5.9	5.9
11		7.7	4.7		4.9	7.3	100	41	15	7.3	5.9	5.9
12		7.7	4.7	b5	5.1	7.3	144	38	16	6.3	5.9	5.5
13	5.5	7.3	4.7		4.9	5.3	124	35	16	6.3	5.9	5.9
14	4.9	7.3	4.7		5.5	7.3	124	32	13	5.1	5.5	5.9
15	5.1	6.8	4.7		5.7	7.7	108	29	13	6.3	5.9	5.9
16	5.5	6.8	a4.7	b6	6.1	7.3	91	27	17	6.3	5.9	5.9
17	6.5	6.8	4.7		5.7	5.2	80	24	15	6.5	5.9	5.9
18	6.5	6.8	4.7		5.3	9.3	72	27	14	6.3	5.9	6.8
19		6.8	4.7		6.5	a9.3	73	24	13	6.8	5.7	5.7
20		6.8	4.7	a5	5.7	9.3	86	a22	12	7.5	5.7	6.1
21	a8	6.8	4.7	a5.5	5.6	5.2	75	19	15	5.9	5.5	5.1
22		6.8	4.7	5.1	5.5	5.7	75	18	13	5.1	5.5	5.7
23		6.8	4.7		5.5	9.3	86	20	13	7.5	5.5	6.1
24		6.3	4.7		5.5	11	122	16	11	7.3	5.1	6.1
25		5.5	4.7	a6	5.5	11	128	16	9.9	5.5	5.1	6.1
26												
27	6.2	5.3	4.7		5.7	a12	116	15	11	5.3	5.5	5.7
28	7.7	5.3	5.1	*5.3	5.7	13	106	16	11	6.1	5.5	5.7
29	7.7	5.3	5.1		5.7	13	103	14	12	5.3	5.5	5.7
30	8.0	6.8	5.1	b5	5.7	13	103	13	9.9	5.3	5.7	5.1
31	8.0	-	4.7		-	16	a100	14	9.6	as.5	5.5	5.7
						20	-	18	-	5.3	5.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	209.4	-	-	5.75	415
November.....	213.1	7.7	6.3	7.10	485
December.....	180.1	5.8	4.7	5.16	319
Calendar year 1943	18,473.0	590	-	50.5	36,550
January.....	183.3	-	-	4.95	304
February.....	154.7	5.5	4.5	5.33	307
March.....	277.9	20	5.9	8.96	561
April.....	2,989	146	22	39.6	5,930
May.....	1,146	98	13	37.0	2,270
June.....	440.4	25	9.6	14.7	874
July.....	213.1	9.3	5.3	6.87	453
August.....	177.6	5.3	5.1	5.74	353
September.....	175.1	5.8	5.5	5.94	347
Water year 1943-44	6,310.0	146	-	17.2	12,589

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated or computed on basis of records for Weiser River near Cambridge and West Fork Weiser River near Fruitvale.

b Stage-discharge relation affected by ice.

c Gage height affected by operation of mill pond; discharge computed from selected gage readings or interpolated.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weiser River at Starkey, Idaho

Location.- Water-stage recorder, lat. 44°51', long. 116°27', in sec. 34, T. 18 N., R. 1 W., at Starkey Hot Springs (Starkey post office), 10 miles north of Council.

Drainage area.- 106 square miles.

Records available.- August to September 1920, March 1939 to September 1944.

Extremes.- Maximum discharge during year, 390 second-feet Apr. 25 (gage height, 3.40 feet); minimum, 9.4 second-feet Jan. 3;
1920, 1939-44: Maximum discharge, 2,450 second-feet Mar. 27, 1940 (gage height, 6.00 feet), from rating curve extended above 700 second-feet by logarithmic plotting; minimum, 8.0 second-feet Aug. 31, 1939, Aug. 23, 1940; minimum gage height, 1.04 feet Aug. 31, 1939.

Remarks.- Records good except those for December to February, which are fair. Several small diversions from river and tributaries above station.

Rating tables, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 31

Apr. 1 to Sept. 30

1.5	16	1.3	12	2.2	75
1.6	22	1.4	16	2.5	106
1.7	28	1.6	24	2.8	195
1.9	44	1.8	36	3.1	280
2.1	66	2.0	52	3.4	390

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	26	36	29	30	28	81	318	132	61	a18	19
2	16	25	34	28	30	28	111	274	113	58	a17	20
3	16	27	34	16	30	30	161	241	118	54	a17	20
4	16	46	34	19	32	30	200	232	106	51	a17	18
5	16	46	32	31	30	30	237	238	98	52	a16	17
6	17	39	23	29	34	29	290	256	97	49	h16	16
7	17	36	34	21	36	27	280	262	88	44	a16	15
8	17	35	33	23	33	30	262	241	93	40	a16	15
9	17	34	16	24	32	37	226	220	93	38	16	15
10	18	32	22	27	24	43	226	205	87	35	15	14
11	32	32	23	26	31	41	238	192	102	33	15	13
12	26	31	26	32	27	42	318	180	100	33	14	14
13	22	31	26	31	27	41	294	175	104	28	14	15
14	20	29	25	32	30	33	277	172	95	28	16	15
15	20	28	26	32	26	42	253	168	90	26	16	15
16	20	29	28	32	29	42	220	149	111	25	16	18
17	20	29	35	32	27	49	192	141	128	25	15	18
18	22	29	36	30	27	61	175	136	118	26	14	19
19	20	29	34	29	27	64	165	134	113	24	14	18
20	20	30	34	28	24	59	192	115	111	23	14	18
21	27	30	32	28	30	53	182	107	113	20	14	18
22	30	30	31	29	27	52	200	102	118	19	14	20
23	27	30	30	29	28	53	250	97	115	19	13	18
24	31	29	30	30	29	56	326	86	102	20	13	17
25	30	27	31	27	28	53	374	80	98	20	13	17
26	30	27	30	26	28	51	329	78	93	20	14	17
27	28	30	20	22	27	46	312	78	90	18	14	17
28	30	30	20	22	28	44	313	78	78	18	13	16
29	31	32	30	26	29	49	345	84	70	18	14	17
30	36	32	35	25	-	55	343	95	64	22	14	17
31	31	-	30	30	-	57	-	102	-	18	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	721	38	18	23.3	1,430
November.....	942	48	25	31.4	1,670
December.....	906	36	16	26.2	1,800
Calendar year 1943.....	62,426	1,460	15	171	123,800
January.....	844	32	16	27.2	1,670
February.....	842	38	24	29.0	1,670
March.....	1,370	67	27	44.2	2,720
April.....	7,428	374	61	248	14,750
May.....	5,038	318	78	163	9,890
June.....	3,037	132	64	101	6,020
July.....	964	61	18	31.1	1,910
August.....	461	18	13	14.9	914
September.....	506	20	13	16.9	1,000
Water year 1943-44.....	23,059	374	13	63.0	46,720

a No gage-height record; discharge computed on basis of weather records and records for other stations in Weiser River Basin.

h Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Weiser River near Council, Idaho

Location.- Water-stage recorder, lat. 44°41', long. 116°29', in sec. 29, T. 16 N., R. 1 W., 0.7 mile downstream from Cottonwood Creek, 2 miles upstream from Middle Fork, and 3½ miles southwest of Council.

Drainage area.- 390 square miles.

Records available.- April 1937 to September 1944.

Extremes.- Maximum discharge during year, 1,210 second-feet Apr. 24, 25 (gage height, 4.52 feet); minimum recorded, 36 second-feet July 16 (gage height, 0.78 foot).
1937-44: Maximum discharge, 6,700 second-feet Mar. 16 or 17, 1938 (gage height, 7.6 feet, from floodmark, site and datum then in use), from rating curve extended above 3,500 second-feet; minimum, 22 second-feet June 29, 1940 (gage height, 0.89 foot).

Remarks.- Records good except those for periods of ice effect, which are fair. Flow partly regulated by Lost Valley Reservoir (see p. 168) and other reservoirs. Many diversions above station for irrigation.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

0.8	37	1.8	168	3.0	510
1.0	52	2.1	232	3.5	711
1.2	72	2.4	309	4.0	940
1.5	114	2.7	402	4.5	1,200

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	51	99	93	82	55	105	347	818	412	147	65	68
2	50	96	88	81	60	112	420	724	382	136	65	76
3	50	100	98	55	65	122	537	599	455	124	70	72
4	50	203	86	40	75	144	531	560	386	112	66	72
5	52	207	95	60	100	142	773	560	329	106	64	57
6	55	153	68	75	175	140	733	611	301	100	63	47
7	56	126	77	50	251	133	698	652	287	93	64	46
8	56	121	89	45	182	155	660	627	279	78	65	47
9	56	117	64	45	145	261	575	583	298	72	68	46
10	58	112	45	50	128	423	548	560	282	66	66	45
11	71	105	50	50	110	304	579	548	328	61	66	44
12	66	95	42	55	100	285	960	535	306	58	65	45
13	78	92	65	80	98	246	935	640	296	62	65	45
14	75	89	65	60	102	182	980	548	279	46	66	42
15	72	86	65	60	81	207	890	560	264	42	66	44
16	72	85	70	60	96	266	778	495	321	43	64	47
17	72	86	75	60	91	395	660	451	366	57	64	50
18	72	86	75	60	91	462	579	497	335	57	60	61
19	71	86	80	89	89	444	552	448	321	58	61	53
20	73	86	85	55	80	360	765	389	318	58	61	62
21	100	85	82	56	91	309	656	353	304	56	58	55
22	104	85	77	55	89	282	672	315	318	56	56	57
23	110	84	78	55	95	279	742	274	312	55	56	56
24	131	84	82	55	111	304	986	251	274	55	56	55
25	112	80	98	55	104	284	1,140	237	251	54	56	55
26	106	81	86	55	106	242	985	225	230	55	56	53
27	102	80	71	50	96	205	863	218	210	55	57	51
28	108	80	50	47	102	192	832	216	200	55	56	53
29	117	81	65	50	105	203	872	225	218	55	56	53
30	133	82	86	50	-	232	868	251	158	69	57	52
31	112	-	85	50	-	269	-	293	-	68	58	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	2,511	133	50	81.0	4,980
November.....	3,054	207	80	102	6,080
December.....	2,335	98	45	76.3	4,630
Calendar year 1943.....	194,813	3,150	45	534	386,400
January.....	1,740	82	40	56.1	3,450
February.....	3,082	251	55	106	6,110
March.....	7,669	462	105	247	15,210
April.....	22,185	1,140	347	740	44,000
May.....	14,111	618	216	455	27,990
June.....	8,990	455	185	300	17,850
July.....	2,230	147	48	71.9	4,420
August.....	1,916	70	58	61.8	3,800
September.....	1,584	75	42	62.8	3,140
Water year 1943-44.....	71,407	1,140	40	195	141,600

* Winter discharge measurement made on this day.

d Doubtful gage-height record; discharge computed on basis of records for station near Cambridge.

Note.- Stage-discharge relation affected by ice Dec. 10-19, 28, 29, Jan. 3 to Feb. 6 (no gage-height record Jan. 17-23).

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

WEISER RIVER BASIN

Weiser River near Cambridge, Idaho

Location.— Water-stage recorder, lat. 44°35', long. 116°38', in NE¼ sec. 1, T. 14 N., R. 3 W., 2½ miles northeast of Cambridge and 2½ miles upstream from Rush Creek.

Drainage area.— 605 square miles.

Records available.— March 1939 to September 1944.

Extremes.— Maximum discharge during year, 1,640 second-feet Apr. 25 (gage height, 4.78 feet); minimum, 23 second-feet (regulated) Oct. 1 (gage height, 0.78 foot); minimum daily, 37 second-feet Sept. 13, 14.
1939-44: Maximum discharge, 6,670 second-feet Mar. 31, 1940 (gage height, 8.30 feet); minimum, that of Oct. 1, 1943; minimum daily, 27 second-feet Sept. 2, 3, 1940.

Remarks.— Records excellent except those below 50 second-feet, which are good. Flow partly regulated by Lost Valley Reservoir (see p. 168) and other reservoirs. Discharge above station for irrigation.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 1 to Sept. 30)

0.9	31	2.0	186	4.0	1,070
1.1	47	2.3	268	4.5	1,390
1.3	69	2.6	352	5.0	1,750
1.5	96	3.0	617		
1.7	129	3.5	772		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	158	147	136	106	206	517	1,250	948	299	76	57
2	54	147	145	134	110	227	608	1,120	756	272	72	77
3	52	153	142	86	122	253	750	1,020	884	248	86	74
4	55	504	142	58	145	308	884	992	756	227	53	72
5	54	504	142	109	180	312	1,060	1,020	664	210	77	69
6	59	299	119	136	335	312	1,040	1,120	603	208	72	52
7	67	250	112	93	418	296	985	1,210	879	188	70	47
8	68	210	147	81	540	312	950	1,150	550	172	68	45
9	69	204	110	83	397	536	854	1,060	593	153	67	44
10	72	193	70	96	306	920	794	1,020	588	142	68	43
11	117	184	77	96	275	690	789	1,020	717	136	68	42
12	134	166	90	104	237	628	1,280	1,000	690	129	57	41
13	117	152	98	114	206	540	1,260	1,040	625	117	65	37
14	112	166	96	112	218	369	1,330	1,060	574	107	67	37
15	104	151	98	114	193	370	1,260	1,110	556	102	68	39
17	106	147	109	114	193	504	1,160	1,010	628	96	65	42
18	106	145	120	119	184	739	1,000	960	744	115	65	49
19	107	145	138	117	182	920	890	884	664	114	61	52
20	109	145	142	112	176	866	818	908	623	110	62	54
21	107	151	143	108	158	696	1,080	795	628	102	62	52
22	134	147	143	104	174	574	986	756	584	90	58	52
23	164	158	133	104	172	612	980	690	613	88	55	58
24	174	158	134	106	178	486	1,040	603	608	85	52	61
24	190	156	138	112	210	522	1,320	545	551	82	52	58
25	184	151	160	112	201	455	1,560	504	481	77	52	56
26	172	129	151	108	210	397	1,340	490	446	72	55	52
27	164	126	119	93	156	335	1,250	478	429	51	54	49
28	168	127	76	90	197	318	1,210	478	393	79	53	48
29	201	151	104	93	201	318	1,310	504	349	77	51	49
30	213	133	149	95	-	349	1,300	550	326	77	51	50
31	186	-	145	101	-	393	-	618	-	79	52	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	3,669	213	52	118	7,280
November.....	5,490	504	128	185	10,890
December.....	5,837	160	70	124	7,610
Calendar year 1943.....	316,125	4,960	47	863	626,100
January.....	3,236	136	59	104	6,420
February.....	6,660	618	106	230	13,210
March.....	14,651	920	206	473	29,060
April.....	31,586	1,560	517	1,053	62,650
May.....	26,951	1,250	476	869	53,460
June.....	15,007	884	325	600	35,720
July.....	4,132	299	72	155	8,200
August.....	1,971	86	51	65.6	3,810
September.....	1,558	77	37	61.9	3,090
Water year 1943-44.....	121,748	1,560	37	333	241,600

Time basis. Mountain War time. To convert war time to standard time, subtract 1 hour.

Weiser River above Crane Creek, near Weiser, Idaho

Location.- Water-stage recorder, lat. 44°18', long. 116°48', in sec. 10, T. 11 N., R. 4 W., 1 mile upstream from Crane Creek and 9 miles northeast of Weiser.

Drainage area.- 1,160 square miles.

Records available.- July 1920 to September 1944.

Average discharge.- 23 years (1921-44), 833 second-feet.

Extremes.- Maximum discharge during year, 3,120 second-feet Mar. 17; maximum gage height, 6.58 feet Feb. 7 (ice jam); minimum discharge, 43 second-feet July 30 (gage height, 0.87 foot).

1920-44: Maximum discharge, 16,900 second-feet Mar. 19, 1932 (gage height, 10.8 feet, from floodmarks), from rating curve extended above 9,000 second-feet by logarithmic plotting; minimum, 5 second-feet (estimated) Aug. 11 to Sept. 10, 1931.

Remarks.- Records excellent except those for periods of ice effect, which are fair. FLOW partly regulated by Lost Valley Reservoir (see p. 188) and other reservoirs. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	73	237	203	210	160	376	733	1,680	1,150	431	57	58
2	79	214	218	180	170	442	842	1,500	1,220	376	62	58
3	73	214	214	140	180	499	960	1,320	1,240	336	64	97
4	73	404	210	110	220	608	1,100	1,240	1,160	297	71	102
5	76	805	207	170	350	782	1,290	1,280	1,000	266	73	100
6	81	511	199	200	600	709	1,410	1,410	866	254	68	95
7	90	376	172	160	1,000	687	1,260	1,620	860	235	66	75
8	105	315	169	150	900	628	1,200	1,570	798	203	60	66
9	107	306	159	130	700	594	1,150	1,450	865	178	66	62
10	100	298	110	140	614	2,080	994	1,340	865	166	73	62
11												
12	123	274	120	140	547	1,640	986	1,350	960	140	75	60
12	168	262	130	160	487	1,350	1,620	1,320	1,210	134	73	60
13	178	245	140	170	404	1,280	1,800	1,370	994	123	68	66
14	186	237	140	170	409	745	2,080	1,430	928	106	68	58
15	158	229	140	170	360	709	1,870	1,600	868	93	70	52
16	155	225	150	170	355	1,040	1,760	1,480	880	77	68	54
17	168	222	180	180	325	1,980	1,420	1,380	1,090	71	62	64
18	161	222	220	180	325	2,350	1,230	1,230	1,030	68	60	81
19	155	222	240	170	320	1,910	1,100	1,280	958	70	57	88
20	155	222	250	160	288	1,430	1,640	1,160	928	66	58	93
21	172	222	280	150	294	1,140	1,560	1,080	880	64	64	95
22	207	218	220	150	310	928	1,320	1,010	928	54	55	95
23	233	210	220	160	502	928	1,340	890	936	50	58	95
24	254	207	230	+164	365	986	1,510	812	850	54	57	95
25	262	203	250	170	382	835	2,420	745	762	55	52	95
26	241	199	230	160	392	723	2,010	702	695	57	52	90
27	229	196	200	150	365	621	1,740	716	660	55	58	84
28	233	192	160	140	350	585	1,640	738	628	62	57	88
29	270	192	200	140	370	559	1,720	760	571	54	60	85
30	288	196	250	140	-	502	1,720	335	505	50	58	84
31	284	-	230	150	-	647	-	977	-	56	60	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	5,106	288	73	165	10,130
November.....	8,068	806	192	259	16,000
December.....	6,012	280	110	194	11,920
Calendar year 1943.....	483,998	6,980	49	1,325	960,000
January.....	4,894	510	110	186	9,710
February.....	11,354	1,000	160	408	23,470
March.....	30,661	2,350	376	989	60,820
April.....	43,530	2,420	738	1,461	86,340
May.....	57,265	1,680	702	1,202	73,910
June.....	27,253	1,240	505	909	54,080
July.....	4,278	431	50	138	8,490
August.....	1,940	78	60	62.6	3,860
September.....	2,547	102	62	78.2	4,660
Water year 1943-44.....	183,194	2,420	50	501	365,400

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Dec. 9 to Feb. 9.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

WEISER RIVER BASIN

West Fork Weiser River near Fruitvale, Idaho

Location.— Staff gage, lat. 44°50', long. 116°28', in NW¼ sec. 9, T. 17 N., R. 1 W., 1½ miles northwest of Fruitvale and 1½ miles upstream from mouth. Prior to Oct. 26, staff gage 70 feet downstream at datum 1.00 foot higher.

Drainage area.— 78 square miles.

Records available.— October 1910 to January 1913, October 1919 to September 1925, April 1937 to September 1944.

Extremes.— Maximum discharge observed during year, 215 second-feet Apr. 24 (gage height, 4.18 feet); minimum not determined; minimum gage height observed, 2.82 feet Feb. 24, 1910-13, 1919-25, 1937-44: Maximum discharge observed, 1,170 second-feet Mar. 31, 1940 (gage height, 3.79 feet, site and datum then in use); minimum observed, 0.5 second-foot July 23-27, 1911.

Remarks.— Records fair except those for periods of ice effect, which are poor. Gage usually read twice daily. Several diversions above and below station for irrigation. Flow regulated by Lost Valley Reservoir (see below).

Discharge, in second-feet, water year October 1943 to September 1944.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	30	15		b16	16	81	190	47	54	63	a60
2	24	30	15		b17	17	107	175	65	32	63	63
3	24	32	15		b18	19	127	109	73	34	63	63
4	24	38	15		b19	19	125	100	70	23	61	60
5	25	41	16		b20	19	161	98	53	23	61	33
6		26	36	16	b25	16	138	109	45	22	63	32
7		26	34		b35	b15	134	117	43	19	63	30
8		26	36		b30	20	127	121	45	19	61	30
9		28	32		b25	22	109	119	47	17	63	30
10		32	30		b20	43	109	117	47	15	61	29
11	36	13		b13		31	98	117	49	13	63	a29
12	28	12				a30	168	115	47	13	65	a28
13	28	12		b13		30	162	115	50	12	64	28
14	28	11				b28	143	115	47	12	64	29
15	28	11	*b12			b30	143	109	47	11	63	30
18	28	9.3	b13			33	125	108	89	50	63	30
17	28	11	b15			46	109	101	60	49	63	29
18	28	13	b18		b15	70	100	101	57	47	63	30
19	28	13	20			65	94	96	57	47	60	29
20	29	13	20			57	109	87	57	47	60	29
21		31	13	19		51	101	85	56	47	61	29
22		29	13	16		51	a116	38	56	47	57	31
23		29	13	19		60	132	32	56	47	60	30
24		31	14	19		61	195	32	51	46	57	30
25		30	13	17		57	205	30	46	45	57	30
26	30	13	17		17	51	175	30	46	55	57	30
27	30	13		*b11	17	42	158	27	44	64	57	29
28	30	10			15	37	152	27	43	65	57	29
29	30	13	b15	b12	16	38	170	27	36	64	57	29
30	35	13				47	a180	27	34	65	57	29
31	31	-			-	64	-	33	-	63	57	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	884	56	24	28.5	1,750
November.....	595.5	41	9.5	19.5	1,160
December.....	479	20	-	15.5	950
Calendar year 1943.....	43,711.5	920	9.5	120	86,690
January.....	397	-	-	12.8	787
February.....	514	35	-	17.7	1,020
March.....	1,191	70	15	33.4	2,560
April.....	4,043	205	31	135	8,020
May.....	2,704	190	27	87.2	5,360
June.....	1,563	99	34	52.1	3,100
July.....	1,157	65	11	37.3	2,290
August.....	1,882	64	57	60.7	3,730
September.....	1,017	63	28	33.9	2,020
Water year 1943-44.....	16,416.3	205	-	44.9	32,550

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Lost Valley Reservoir near Tamarack, Idaho

Location.— Staff gage, lat. 44°57'30", long. 116°28', in sec. 28, T. 19 N., R. 1 W., a short distance upstream from outlet gates near left end of dam on Lost Creek, 4 miles west of Tamarack and 16 miles north of Council.

Drainage area.— 29.4 square miles.

Records available.— May to September 1924, May 1926 to September 1944.

Extremes.— Maximum gage height observed during year, 26.40 feet June 23; minimum observed, 14.77 feet Nov. 10.

1924, 1926-44: Maximum gage height observed, 26.90 feet May 14, 1940; gage not read when reservoir was nearly empty.

Remarks.— Reservoir is formed by earth dam completed in 1910 and raised 6 feet in 1929. Permanent spillway crest is at gage height 22.26 feet; during 1938 temporary flash-board structure was raised to permit storage to gage height about 26 feet. Water is used for irrigation of lands in Weiser River Basin.

Cooperation.— Several gage readings furnished by Lost Valley Reservoir Co.

Gage height, in feet, of Lost Valley Reservoir near Tamarack, Idaho, water year October 1943 to September 1944

Date	Gage height	Date	Gage height	Date	Gage height	Date	Gage height
Oct. 13	17.12	Jan. 19	15.97	May 21	25.22	July 26	184.90
Nov. 6	15.88	Mar. 27	16.62	June 4	25.96	Aug. 6	23.00
10	14.77	May 2	23.46	23	26.40	28	18.80
22	14.86	14	25.38	July 12	26.16	29	18.90
Dec. 9	15.93	20	25.30	15	26.10	Sept. 4	17.76

Lost Creek near Tamarack, Idaho

Location.- Water-stage recorder, lat. 44°57', long. 116°28', in sec. 28, T. 19 N., R. 1 W., a quarter of a mile downstream from dam of Lost Valley Reservoir, 4 miles west of Tamarack, and 16 miles north of Council.

Drainage area.- 29.4 square miles.

Records available.- January 1910 to August 1914, May 1920 to September 1921, May 1924 to September 1944.

Average discharge.- 14 years (1930-44), 33.9 second-feet.

Extremes (regulated).- Maximum discharge during year, 92 second-feet May 2 (gage height, 2.10 feet); minimum recorded, 4 second-feet Nov. 23 (gage height, 1.07 feet).

1910-14, 1920-21, 1924-44: Maximum discharge, about 688 second-feet May 17, 18, 1921 (gage height, 4.29 feet); practically no flow at times gates in dam were closed.

Remarks.- Records good except those for period of no gage-height record, which are fair. No diversion between reservoir and station; practically entire flow diverted below station during irrigation season. Flow regulated by Lost Valley Reservoir (see preceding page).

Cooperation.- Water-stage recorder inspected by Lost Valley Reservoir Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	26	8	8			7	70	22	24	73	61
2	27	26	8	8			7	49	26	22	73	61
3	27	26	8	8			7	10	29	20	71	60
4	27	26	8	8			7	10	21	18	71	48
5	27	26	8	8			8	11	10	17	71	53
6	27	26	8	8			8	22	13	16	70	33
7	27	26	8	8			8	37	17	15	70	33
8	27	26	8	8			8	49	21	13	70	34
9	27	26	8	8			8	60	24	13	70	34
10	27	18	8	6			8	68	27	12	70	34
11	27	6	8	8	a7		8	71	30	11	69	33
12	27	6	8	8			9	76	31	11	69	33
13	27	6	8	8			9	77	32	10	69	33
14	27	6	8	8		a8	9	80	32	9	69	32
15	27	6	8	8			8	83	32	25	69	32
16	27	6	8	8			8	81	34	55	68	33
17	26	6	8	8			8	80	35	53	68	33
18	26	6	8	7			8	78	34	53	68	33
19	26	6	8	7			9	76	34	53	68	32
20	26	6	8				9	71	34	52	66	32
21	26	6	8				9	57	35	53	66	33
22	26	6	8				9	14	35	53	66	33
23	26	8	8				9	18	35	52	66	33
24	26	8	8				9	15	34	52	65	33
25	26	8	8	a7	a8		9	15	33	57	65	33
26	26	8	8				9	16	32	76	65	33
27	26	8	8			8	9	16	31	76	65	33
28	26	8	8			8	12	16	30	74	64	33
29	26	8	8			8	29	16	27	73	64	33
30	26	8	8			8	49	18	26	73	62	32
31	26	-	8		-	8	-	20	-	73	62	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	822	27	26	26.5	1,630
November.....	388	26	6	12.9	770
December.....	248	8	8	8.0	492
Calendar year 1943.....	18,781	417	2	51.5	37,280
January.....	234	-	-	7.6	484
February.....	212	-	-	7.3	460
March.....	248	-	-	8.0	492
April.....	313	49	7	10.4	621
May.....	1,377	83	10	44.4	2,730
June.....	655	35	10	28.5	1,700
July.....	1,214	76	9	39.2	2,410
August.....	2,102	73	62	67.8	4,170
September.....	1,086	61	52	36.2	2,160
Water year 1943-44.....	9,099	83	6	24.9	18,050

a No gage-height record; discharge computed on basis of records of gate changes.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

WEISER RIVER BASIN

Middle Fork Weiser River near Mesa, Idaho

Location.— Staff gage, lat. 44°39', long. 116°27', in NW¼ sec. 10, T. 15 N., R. 1 W., at old highway bridge, 1½ miles north of Mesa and 2½ miles upstream from mouth. Datum of gage changed an undetermined amount June 11, 1943.

Drainage area.— 86.5 square miles.

Records available.— August 1919 to November 1921, April 1937 to September 1944. October 1910 to August 1913 at site three-quarters of a mile upstream.

Extremes.— Maximum discharge observed during year, 335 second-feet May 6 (gage height, 2.58 feet); minimum observed, 0.4 second-foot Aug. 27 (gage height, 0.56 foot).
1919-21, 1937-44: Maximum discharge observed, 1,350 second-feet May 1, 1938, from rating curve extended above 1,000 second-feet; maximum gage height observed, 4.88 feet Dec. 11, 1937, referred to datum in use July 16, 1940, to June 11, 1943; no flow at times in 1937, 1939-41.

Remarks.— Records fair except those for periods of ice effect or doubtful gage-height record, which are poor. Gage read twice daily. Mesa Orchards Canal diverts about 8½ miles above station.

Rating table, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Feb. 13 to Apr. 26, Aug. 15 to Sept. 30)

0.6	0.8	1.1	22	2.0	173
.7	1.3	1.2	32	2.3	249
.8	3.8	1.3	44	2.6	342
.9	7.8	1.5	73		
1.0	14	1.7	109		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	34	24	26		35	53	195	121	98	1.2	2.0
2	1.2	34	26			33	56	197	117	94	1.2	3.6
3	1.2	48	24		b20	39	52	190	144	85	1.2	3.4
4	1.5	94	d24			40	55	187	162	78	1.2	2.6
5	1.3	58	d24			40	166	222	146	71	1.2	1.7
6	1.2	35	d15		d125	40	140	332	140	67	1.2	1.0
7	1.2	22	d20	b20	d100	45	96	303	137	61	1.2	.7
8	1.4	25	d20		d80	53	75	261	137	52	1.2	.6
9	1.3	30			d70	73	65	258	137	46	1.1	.6
10	7.0	30			d65	*91	61	290	162	43	1.0	.6
11	38	28			d60	76	98	272	319	38	1.0	.6
12	21		b15		d55	92	133	252	207	30	1.0	.7
13	15				d50	73	146	264	195	24	1.0	.5
14	14				49	65	152	275	162	21	1.0	.5
15	11				48	67	137	258	168	20	.9	.6
16	10		(*)		42	73	111	244	192	18	.9	.7
17	15.8				38	78	94	227	217	16	.9	1.2
18	6.8	d30			35	75	76	220	190	14	.9	1.8
19	6.6				28	68	109	212	207	11	.8	1.4
20	15			b24	28	58	109	195	178	6.6	.8	1.4
21	22		b26		26	55	111	195	175	5.8	.8	1.4
22	28				24	58	82	175	180	4.2	.8	1.6
23	28				26	61	113	159	173	3.2	.6	1.6
24	26	30			26	53	103	151	164	2.8	.6	1.6
25	26	28			50	48	127	125	155	2.2	.6	1.6
26	28	26	22	(*)	33	45	142	123	142	2.0	.6	1.5
27	30	22	21		38	52	a170	121	127	1.6	.4	.9
28	28	22	20		35	45	203	127	125	1.6	.5	.8
29	34	20	20	b20	33	41	214	140	115	1.5	.5	1.2
30	34	24	24		-	44	217	150	96	1.4	.5	1.0
31	32	-	26		-	45	-	178	-	1.3	.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	482.7	38	1.0	15.6	957
November	971	94	20	32.4	1,930
December	665	26	-	21.5	1,520
Calendar year 1943	60,975.0	1,000	1.0	167	120,900
January	682	-	-	22.0	1,350
February	1,242	125	-	42.8	2,460
March	1,751	91	33	56.5	3,470
April	3,464	217	52	115	6,870
May	6,473	332	151	209	12,850
June	4,890	319	96	163	9,700
July	921.2	98	1.3	29.7	1,830
August	27.3	1.2	.4	.88	54
September	39.4	3.6	.5	1.31	78
Water year 1943-44	21,613.6	332	.4	59.1	42,870

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated.

b Stage-discharge relation affected by ice.

c Doubtful gage-height record; discharge computed on basis of weather records, inflow to Weiser River between stations near Council and near Cambridge, and records for other stations on nearby streams in Weiser River Basin.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

WEISER RIVER BASIN

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Mesa Orchards Canal near Mesa, Idaho

Location.- Staff gage, lat. 44°38', long. 116°25', in sec. 14, T. 15 N., R. 1 W., 1,500 feet upstream from end of flume, 1½ miles northeast of Mesa, and 3 miles downstream from head gates.

Records available.- 1924, 1928, 1930-44 (irrigation seasons only).

Extremes.- Maximum daily discharge observed during year, 36 second-feet July 22-26; maximum gage height observed, 2.15 feet July 24, 25; no flow at times.

1924, 1928, 1930-44: Maximum discharge observed, 38 second-feet June 18, 19, 1940; maximum gage height observed, 2.46 feet Aug. 3-7, 1943; no flow during non-irrigation seasons.

Remarks.- Records good. Gage read twice daily and gate changes noted. Canal diverts water from Middle Fork Weiser River in SE¼ sec. 9, T. 15 N., R. 1 E., for irrigation of Mesa orchards and for domestic supply of Mesa. Flow regulated by gates in diversion dam and waste gates in flume above gage. There was known to be some flow during April, of which there was no record.

Cooperation.- Gage-height record furnished by The Mesa Co.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	6						-	13	14	31	24
2	17	6						-	13	14	30	23
3	a17	6						-	13	14	31	24
4	17	6						-	12	14	29	20
5	17	6						-	13	16	27	19
6	17	6						-	13	21	26	18
7	17	a6						-	12	23	25	18
8	17	6						-	12	24	25	17
9	17	a2						-	12	26	25	16
10	a17	0						-	12	27	23	15
11	10	0						-	13	28	23	16
12	8	0						-	13	30	23	15
13	5	0						-	13	31	21	14
14	6	0						-	15	32	23	14
15	6	0						-	13	19	23	17
16	6	0						-	13	33	22	17
17	a6	0						-	14	33	21	16
18	6	0						0	13	33	21	18
19	6	0						-	14	34	20	18
20	6	0						-	11	34	20	18
21	6	0						8	11	35	19	17
22	6	0						11	11	36	20	22
23	6	0						12	11	36	19	18
24	a6	0						12	11	36	17	17
25	6	0						12	11	36	17	a17
26	6	0						12	12	36	19	a17
27	6	0						12	13	35	18	a17
28	6	0						12	13	35	18	13
29	6	0						12	13	33	18	12
30	6	0						12	13	34	18	12
31	a6	-						-	-	32	18	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	298	17	6	9.6	591
November	50	6	0	1.7	99
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May 21-31	127	12	8	11.5	252
June	374	14	11	12.5	742
July	884	36	14	28.5	1,760
August	690	31	17	22.3	1,370
September	521	24	12	17.4	1,050
Water year	-	-	-	-	-

a No gage-height record; discharge computed on basis of reported gate changes or interpolated.
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Johnson Creek below Johnson Park, near Council, Idaho

Location.— Water-stage recorder, lat. 44°46', long. 116°39', in SE $\frac{1}{4}$ sec. 36, T. 17 N., R. 3 W., 50 feet downstream from Johnson Park Creek, three-quarters of a mile south-east of Johnson Park, and 10 miles northwest of Council.

Drainage area.— 5 square miles.

Records available.— March 1941 to September 1944.

Extremes.— Maximum discharge during year, 79 second-feet May 6 (gage height, 1.73 feet); minimum recorded, 0.9 second-foot Oct. 20.
1941-44: Maximum discharge, 181 second-feet May 22, 1942 (gage height, 2.57 feet), from rating curve extended above 60 second-feet; minimum recorded, 0.5 second-foot Sept. 18, 1941.

Remarks.— Records good except those below 5 second-feet, which are fair, and those for period of no gage-height record, which are poor. No diversion or regulation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		2.4					-	23	54	6.4	2.1	1.9
2		2.5					-	21	40	5.9	2.1	1.9
3		2.5					-	27	47	5.7	2.2	1.8
4							-	36	33	5.4	2.0	1.7
5	a1.7	-					-	44	30	6.1	1.9	1.7
6		-					-	50	27	5.4	1.9	1.6
7		-					-	42	26	5.0	1.9	1.5
8		-					-	34	27	5.0	1.9	1.5
9		-					-	31	28	4.7	1.9	1.6
10		-					-	31	24	4.4	1.9	1.6
11	a2.0	-					-	33	23	4.2	1.8	1.4
12		-					-	34	20	4.1	1.8	1.4
13		-					-	37	20	4.0	1.8	1.4
14	1.8	-					-	44	17	3.8	1.8	1.4
15	1.8	-					-	41	18	3.6	1.8	1.6
16	1.8	-					-	40	23	3.5	1.8	2.2
17	1.8	-					-	38	19	3.4	1.7	1.8
18	1.8	-					-	40	16	3.3	1.7	1.8
19	1.8	-					-	38	17	3.1	1.7	1.9
20	2.0	-					-	35	16	3.1	1.7	1.8
21		1.9	-				-	34	15	3.0	1.7	1.9
22		2.0	-				-	30	15	2.9	1.6	2.3
23		2.8	-				-	27	12	2.8	1.6	1.8
24		3.1	-				-	25	10	2.7	1.6	1.8
25		3.0	-				-	24	9.6	2.5	1.6	1.8
26	3.4	-					-	25	9.2	2.5	1.7	1.7
27	3.0	-					18	26	8.4	2.4	1.6	1.7
28	2.7	-					26	26	8.1	2.3	1.6	1.7
29	2.6	-					31	27	7.4	2.3	1.6	1.7
30	2.3	-					30	33	6.8	2.5	1.5	1.7
31	2.2	-					-	36	-	2.2	1.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	65.0	3.4	-	2.10	129
November.....	-	-	-	-	-
December.....	-	-	-	-	-
Calendar year	-	-	-	-	-
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	-	-	-	-	-
May.....	1,032	50	21	33.3	2,050
June.....	626.6	54	6.8	20.9	1,240
July.....	118.0	6.4	2.2	3.81	234
August.....	55.1	2.2	1.5	1.78	109
September.....	51.4	2.3	1.4	1.71	102
Water year	-	-	-	-	-

a No gage-height record; discharge computed on basis of records for Boulder Creek near Tamarack and other stations in Weiser River Basin.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Pine Creek near Cambridge, Idaho

Location.- Staff gage, lat. 44°35', long. 116°44', in SW¹ sec. 32, T. 15 N., R. 3 W., 300 feet upstream from West Fork and 3.2 miles northwest of Cambridge.

Records available.- April 1938 to September 1944.

Extremes.- Maximum discharge observed during year, 149 second-feet May 14; maximum gage height observed, 2.20 feet Jan. 31 (ice jam); minimum discharge observed, 3.1 second-feet Aug. 14, 16, 17, 23, 25, 28, 29, Sept. 10; minimum gage height observed, 0.36 foot Aug. 14, 16, 17, 23, 25, 28, 29.

1938-44: Maximum discharge observed, 392 second-feet Apr. 1, 1940 (gage height, 3.26 feet), from rating curve extended above 250 second-feet; minimum observed, 2 second-feet on several days July to October 1939 and July and August 1940; minimum gage height observed, 0.34 foot July 24, 1939.

Remarks.- Records good except those for periods of ice effect, which are fair. Gage read twice daily. Several diversions above station for irrigation.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Sept. 6-30)

0.3	1.5	0.8	22
.4	3.5	1.0	37
.5	6.2	1.2	57
.6	9.8	1.4	82
.7	15	1.8	142

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.6	14	15	14	b12	15	32	62	74	17	4.3	4.0
2	8.4	14	14	14	b14	17	38	55	58	16	4.0	4.6
3	8.4	15	14		15	17	42	53	61	13	4.6	4.8
4	8.4	22	15		14	22	43	58	53	11	5.1	4.3
5	8.0	22	14		15	24	49	61	48	12	4.6	4.3
6	8.7	19	13		24	21	44	98	46	12	4.6	3.8
7	9.1	17	13		28	23	44	86	44	10	4.3	3.3
8	9.1	16	14		20	22	43	85	45	10	4.6	3.3
9	9.4	17	11		19	29	41	79	53	11	4.3	3.3
10	9.4	15			12	32	41	76	50	10	3.5	3.1
11	11	15			14	*27	48	77	50	10	3.5	3.3
12	10	15			15	27	54	76	46	8.4	3.5	3.3
13	9.8	14	b10		14	26	48	110	42	7.3	3.5	3.8
14	9.8	14			15	34	55	129	44	7.3	3.5	3.8
15	11	14			15	28	48	123	41	6.6	3.5	4.0
16	12	14		b10	14	28	54	131	43	6.6	3.3	4.6
17	12	14	*b13		14	35	46	104	41	5.7	3.3	4.6
18	12	14	b13		14	35	46	88	37	6.4	3.5	4.6
19	12	14	14		14	35	43	72	35	5.1	3.5	5.1
20	13	15	14		12	32	50	76	36	5.7	3.5	4.6
21	14	14	14		13	28	46	72	36	5.1	3.5	4.6
22	15	14	14		14	28	43	63	36	5.1	3.5	4.8
23	14	14	14		15	28	42	56	34	5.1	3.1	4.6
24	16	14	14		16	28	65	50	32	4.6	3.3	4.6
25	16	14	15		15	28	59	46	29	4.6	3.3	4.8
26	15	14	14	(*)	15	28	56	47	28	4.8	3.5	4.6
27	16	13	9.8		10	28	55	67	27	4.6	3.5	4.8
28	16	14	b9.0		15	23	57	68	24	4.6	3.5	4.6
29	16	14	b10		14	28	56	64	23	4.6	3.1	4.8
30	16	14	b11		-	28	63	73	21	4.6	3.5	5.1
31	14	-	13		-	30	-	68	-	4.6	3.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	368.1	18	7.6	11.9	750
November.....	453	22	13	15.1	899
December.....	364.8	15	9.0	12.4	765
Calendar year 1943.....	17,141.1	304	6.5	47.0	34,000
January.....	318	14	-	10.3	631
February.....	441	28	10	15.2	875
March.....	839	35	15	27.1	1,660
April.....	1,451	65	32	48.4	2,880
May.....	2,375	131	46	76.6	4,710
June.....	1,237	74	21	41.2	2,450
July.....	242.4	17	4.6	7.82	481
August.....	115.4	5.1	3.1	5.72	225
September.....	127.5	5.1	3.1	4.26	253
Water year 1943-44.....	8,352.5	131	3.1	22.8	16,560

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

WEISER RIVER BASIN

Little Weiser River near Indian Valley, Idaho

Location.- Staff gage, lat. $44^{\circ}30'$, long. $116^{\circ}24'$, in NE $\frac{1}{4}$ sec. 1, T. 13 N., R. 1 W., 60 feet downstream from barn at Richardson Ranch, 1 mile upstream from diversion feeding C. Ben Ross Reservoir, and $4\frac{1}{2}$ miles southeast of Indian Valley.

Drainage area.- 81.9 square miles.

Records available.- April 1938 to September 1944. June 1920 to February 1921, March to September 1923, and February 1924 to October 1927 at nearby sites.

Extremes.- Maximum discharge observed during year, 475 second-feet Apr. 5 (gage height, 3.28 feet); minimum observed, 9.2 second-feet Sept. 12, 13 (gage height, 0.23 foot). 1920-21, 1923-27, 1938-44: Maximum discharge observed, about 1,840 second-feet Feb. 4, 1925; minimum observed, 3.6 second-feet Aug. 28-30, Sept. 4, 5, 1924.

Remarks.- Records good except those for periods of ice effect or doubtful or no gage-height record, which are fair. Gage read once or twice daily. One small ranch diversion above station. Many diversions below station for irrigation including feeder canal to C. Ben Ross Reservoir.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet).
(Shifting-control method used Apr. 6 to June 27)

0.2	0.5	0.7	2.6
.3	11	1.0	42
.4	14	1.4	75
.5	18	1.7	108
.6	22	2.0	152

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	19	20	17	14	26	a100	188	218	84	22	15
2	13	21	19	18	14	26	a110	189	189	81	22	15
3	a13	23	20	17	16	26	121	160	188	75	22	14
4	12	26	20		16	25	144	160	a180	70	20	13
5	13	41	18		a16	a26	445	169	152	70	16	12
6	13	34	19		144	27	263	208	144	73	17	11
7	13	21	a15		90	30	144	208	136	63	15	10
8	12	24	a15		52	31	144	198	144	57	16	10
9	13	19	a15		45	135	126	188	144	47	16	a10
10	a13	19	13	b14	42	108	121	198	144	51	18	10
11	a28	20			38	80	128	208	370	52	16	9.8
12	a29	18			33	64	a200	229	208	50	15	9.5
13	a26	23	b13		a35	54	208	240	208	45	12	9.5
14	a23	23			35	58	208	276	178	42	13	10
15	a12	19			35	51	169	275	160	41	14	9.8
16												
17	a13	19	a16		33	57	144	a240	208	42	13	14
18	a13	20	16	15	30	67	152	229	213	38	14	12
19	a14	22	a18	15	25	63	121	229	188	32	13	11
20	15	23	18	14	23	67	114	218	178	32	13	12
21	13	21	a18	14	28	63	152	208	160	31	13	11
22	12	22	18	15	24	54	152	a200	178	38	13	12
23	12	22	18	14	28	52	160	198	208	30	12	13
24	12	20	18	15	28	61	160	160	188	25	11	13
25	16	23	20	14	26	58	288	152	160	26	10	11
26	22	18	20	15	25	53	218	152	136	25	10	11
27	16	16	a19	a15	a25	42	188	152	128	24	10	10
28	18	12	16	14	a25	35	188	152	121	25	10	10
29	19	12	14	14	25	35	178	152	108	23	10	9.5
30	20	16	b14	a14	26	41	168	178	96	24	10	10
31	19	19	a14	14	-	54	208	198	96	23	10	11
	a19	-	19	14	-	59	-	178	-	23	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches	Runoff Acre-feet
October	499	29	12	16.1	0.197	0.23	990
November	656	41	12	21.2	.259	.29	1,280
December	517	20	-	16.7	.204	.23	1,030
Calendar year 1943	52,820.0	925	-	145	1.77	23.99	104,800
January	450	19	-	14.5	.177	.20	895
February	996	144	14	34.3	.419	.45	1,980
March	1,630	156	25	52.6	.642	.74	3,230
April	5,244	445	100	175	2.14	2.38	10,400
May	6,059	275	152	195	2.38	2.75	12,020
June	5,114	370	96	170	2.08	2.32	10,140
July	1,357	84	23	43.8	.535	.62	2,690
August	440	22	10	14.2	.173	.16	873
September	542.1	18	9.5	11.4	.139	.10	679
Water year 1943-44	25,284.1	445	9.5	65.6	.777	10.57	46,180

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated or computed on basis of weather records and records for other stations in Weiser River Basin.

b Stage-discharge relation affected by ice.

c Doubtful gage-height record; discharge computed on basis of records for other stations in Weiser River Basin.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Crane Creek Reservoir near Midvale, Idaho

Location.- Staff gage, lat. 44°22', long. 116°37', in SE $\frac{1}{4}$ sec. 19, T. 12 N., R. 2 W., at gate-control structure near left end of dam on Crane Creek, 10 miles southeast of Midvale.

Drainage area.- 242 square miles.

Records available.- November 1923 to September 1944.

Extremes.- Maximum gage height observed during year, 48.9 feet Apr. 14; minimum not determined.
1923-44: Maximum gage height observed, 56.3 feet Feb. 22, 1927; no usable contents Sept. 23, 1928, to Feb. 28, 1929, and Sept. 25 to Dec. 1, 1929.

Remarks.- Reservoir is formed by earth dam completed in 1910 and raised in 1920-21. Capacity is reported to be about 60,000 acre-feet at gate height 55.0 feet (elevation of spillway crest). Water is used for irrigation of lands in lower Weiser Valley. Gage read once daily.

Cooperation.- Gage-height record furnished by Crane Creek Administration Board.

Gage height, in feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38.6	-	-	37.9	-	-	48.1	-	-	47.8	-	38.2
2	-	-	-	-	-	-	-	-	47.8	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	37.8	-	-	42.0	-	-	-	47.7	-	-
5	-	-	-	-	37.9	-	-	-	-	-	43.4	-
6	38.0	37.6	-	-	-	-	-	48.0	-	-	-	-
7	-	-	-	-	38.6	-	-	-	-	-	-	-
8	-	-	-	37.9	-	-	48.3	-	-	47.55	42.9	-
9	-	-	-	-	-	-	-	-	47.7	47.5	-	36.6
10	-	-	-	-	-	-	-	-	-	47.4	-	-
11	-	-	37.8	-	-	43.8	-	-	-	47.4	-	-
12	-	-	-	-	40.5	-	-	-	47.7	-	-	-
13	37.6	37.7	-	-	-	-	48.8	48.0	-	-	-	-
14	-	-	-	-	-	-	48.9	-	-	47.0	-	-
15	-	-	-	37.9	-	-	48.7	-	-	46.9	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-
17	37.4	-	-	-	-	-	48.5	-	-	-	-	-
18	37.4	-	37.8	-	-	46.2	-	48.0	-	-	-	-
19	-	-	-	-	41.0	-	48.1	-	47.8	46.3	-	-
20	-	37.7	-	-	-	47.3	-	47.9	-	46.1	40.8	34.5
21	-	-	-	-	-	-	48.3	-	-	-	-	-
22	-	-	-	37.9	-	47.75	48.3	-	-	-	40.5	-
23	-	-	-	-	-	48.1	-	-	-	-	-	34.1
24	-	-	-	-	-	48.2	48.3	47.85	-	-	-	-
25	-	-	37.8	-	-	48.1	-	-	-	-	39.8	-
26	-	-	-	-	41.2	-	48.0	-	-	-	-	-
27	-	37.75	-	-	-	48.0	-	-	-	45.9	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	37.9	-	47.9	-	-	-	45.6	-	-
30	37.45	-	-	-	-	-	47.8	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Crane Creek near Midvale, Idaho

Location.- Water-stage recorder and concrete control, lat. 44°22', long. 116°37'30", in SE $\frac{1}{4}$ Sec. 19, T. 12 N., R. 2 W., 400 feet downstream from Crane Creek Dam and 10 miles southeast of Midvale.

Drainage area.- 242 square miles.

Records available.- October 1910 to April 1918, May 1924 to September 1944.

Average discharge.- 23 years (1912-15, 1924-44), 69.8 second-feet.

Extremes.- Maximum discharge observed during year, 334 second-feet (regulated) Apr. 14-19 (gage height, 2.38 feet); practically no flow at times when gates in dam were closed. 1910-16, 1924-44: Maximum discharge observed 4,240 second-feet Dec. 3, 1910 (gage height, 8.9 feet), from rating curve extended above 3,500 second-feet; practically no flow at times in each year when gates in dam were closed.

Remarks.- Records good. Flow regulated by Crane Creek Reservoir (see p. 175). No large diversions above station.

Cooperation.- Water-stage recorder inspected by Crane Creek Reservoir Administration Board.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-17, Apr. 13-30)

0.1	2.0	0.5	20	1.6	143
.2	5.0	.7	36	2.0	225
.3	9.0	1.0	66	2.4	366
.4	14	1.3	101		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96					0	0	0	12	11	157	164
2	79					0	0	0	12	11	167	158
3	79					0	0	0	12	11	156	137
4	83					0	0	0	12	11	156	136
5	83					0	0	0	12	11	156	134
6	77					0	0	0	12	11	156	134
7	60					0	0	0	12	11	156	134
8	59					0	0	0	12	37	166	134
9	56					0	0	0	12	68	166	134
10	57					0	0	0	12	84	154	134
11	59					0	0	0	a12	96	154	134
12	59					0	0	0	11	104	154	132
13	49					0	h122	0	a11	104	154	132
14	14					0	h282	h4	a11	106	163	132
15	14					0	h334	a8	a11	115	163	132
16	14					0	a334	a5	a11	146	161	131
17	7					0	h334	h7	a11	146	149	131
18	0					0	a334	h10	a11	145	149	130
19	0					0	h330	a10	11	145	149	130
20	0					0	a330	h10	11	148	143	115
21	0					0	h328	a10	11	181	137	100
22	0					0	h328	a10	11	179	146	94
23	0					h69	a326	a10	11	179	175	77
24	0					h166	h326	h10	11	179	186	16
25	0					h204	a326	a10	11	176	186	16
26	0					a170	a326	a10	a11	176	184	15
27	0					h137	h242	a10	a11	173	181	14
28	0					a82	a143	a11	11	157	181	14
29	0					h37	a143	a11	11	157	179	14
30	0					0	h83	a11	11	157	177	16
31	0					0	-	a12	-	157	177	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	945	96	0	30.5	1,870
November.....	0	0	0	0	0
December.....	0	0	0	0	0
Calendar year 1943.....	47,415	866	0	130.	94,040
January.....	0	0	0	0	0
February.....	0	0	0	0	0
March.....	864	204	0	27.9	1,710
April.....	4,967	334	0	166	9,850
May.....	172	12	0	5.5	341
June.....	341	12	11	11.4	676
July.....	3,390	181	11	109	6,780
August.....	4,978	186	137	161	9,870
September.....	3,050	164	14	102	6,060
Water year 1943-44.....	18,707	334	0	81.1	37,090

a No gage-height record; discharge computed on basis of reported changes in gate opening, or interpolated.

b Computed from stage-gage readings.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Crane Creek at mouth, near Weiser, Idaho

Location.— Water-stage recorder and concrete control, lat. 44°18', long. 116°47', in sec. 14, T. 11 N., R. 4 W., just downstream from steel highway bridge at Harris Ranch, a quarter of a mile upstream from mouth, and 10 miles northeast of Weiser.

Drainage area.— 288 square miles.

Records available.— July 1920 to September 1944.

Average discharges.— 23 years (1921-44), 76.7 second-feet.

Extremes (regulated).— Maximum discharge during year, 495 second-feet Mar. 17 (gauge height, 4.77 feet); minimum, 2.4 second-feet Jan. 7 (gauge height, 1.69 feet); minimum daily, 2.7 second-feet May 7, 14.

1920-44: Maximum discharge, 2,350 second-feet about Feb. 7, 1925 (gauge height, 6.80 feet, from well-defined marks on gauge), from rating curve extended above 1,000 second-feet; minimum, 0.2 second-foot May 26, 1931; minimum daily, 1 second-foot or less at times during many years; minimum gauge height, 1.30 feet Jan. 21, 1922.

Remarks.— Records good except those for periods of ice effect or no gauge-height record, which are fair. Flow regulated by Crane Creek Reservoir (see p. 175). Several small ditches divert above station for irrigation.

Rating table, water year 1943-44, except periods of ice effect (gauge height, in feet, and discharge, in second-feet)
(Shifting-control method used Feb. 7 to Apr. 18)

1.7	2.5	2.1	18	5.1	108
1.8	4.2	2.3	23	3.4	151
1.9	7.0	2.5	44	4.0	254
2.0	11	2.8	72	4.4	350

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	6.7	6.4	5.9	7.0	8.6	7.4	23	10	15	161	167
2	80	6.4	6.4	5.9	7.0	12	6.7	12	9.0	15	161	136
3	79	6.4	6.4	5.6	8.2	15	6.4	9.4	9.8	13	161	135
4	32	20	6.4	6.0	14	25	6.2	7.4	6.6	12	151	135
5	83	14	5.9	5.9	18	36	5.9	6.4	5.6	11	160	135
6	85	8.2	5.9	5.6	168	24	5.6	4.8	9.4	9.4	148	135
7	84	7.0	6.2	65.0	111	18	6.0	2.7	6.4	5.6	148	123
8	63	6.7	5.9	65.0	49	16	5.6	3.4	9.8	17	150	135
9	59	6.7	5.6	65.0	26	69	6.2	3.4	12	54	150	133
10	62	7.0	5.9	65.0	13	112	5.9	3.0	11	81	146	133
11	64	6.7	5.3	65.0	9.6	58	6.4	2.8	11	86	146	132
12	62	7.0	5.6	65.0	7.6	57	41	2.8	11	99	146	132
13	69	7.0	5.9	65.0	7.0	*45	73	2.8	11	100	146	132
14	31	7.0	5.6	65.0	7.0	21	278	2.7	11	99	146	132
15	22	7.0	5.6	65.0	6.2	16	359	2.8	12	105	146	132
16	22	6.7	5.6	6.7	6.4	57	342	3.0	13	136	146	132
17	21	7.0	5.9	6.7	6.9	201	350	4.0	11	140	146	132
18	11	6.4	5.6	6.2	5.9	133	350	4.8	11	142	145	132
19	6.4	6.4	5.6	6.2	5.9	89	350	5.9	11	144	145	132
20	6.2	6.4	65.9	6.2	6.3	43	350	6.2	12	145	140	122
21	7.0	6.4	6.2	6.2	5.9	36	340	6.2	17	170	133	105
22	6.7	6.4	5.9	6.2	5.6	39	333	6.2	18	170	135	100
23	7.0	6.4	5.9	6.7	6.6	77	328	5.9	17	172	162	100
24	7.0	6.4	5.9	6.7	7.4	165	336	5.3	16	173	177	54
25	6.7	6.2	6.4	*6.2	8.2	214	335	6.2	15	172	180	26
26	6.4	6.2	6.2	6.7	8.2	164	329	6.7	15	172	180	24
27	6.2	6.2	5.6	6.4	6.7	153	294	6.4	14	172	180	24
28	8.2	6.2	5.6	65.0	6.7	85	164	7.0	15	157	180	24
29	9.8	6.2	5.6	65.0	7.8	75	161	7.4	14	156	180	24
30	9.4	6.2	5.5	65.0	-	14	147	8.6	15	154	177	24
31	7.8	-	5.9	65.0	-	9.0	-	9.4	-	153	175	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,137.6	96	6.2	36.7	2,260
November.....	219.5	20	6.2	7.32	435
December.....	182.7	6.4	5.3	5.89	362
Calendar year 1943.....	55,320.6	1,100	4.6	152	109,700
January.....	182.0	6.7	5.0	5.87	361
February.....	550.5	165	5.3	19.0	1,090
March.....	2,085.6	214	5.6	67.3	4,140
April.....	5,300.3	350	5.0	177	10,510
May.....	188.6	23	2.7	6.08	374
June.....	367.6	18	6.6	12.3	729
July.....	3,255.0	173	5.6	105	6,460
August.....	4,806	180	133	155	9,530
September.....	5,172	167	24	106	6,290
Water year 1945-44.....	21,447.6	350	2.7	58.5	42,540

* Winter discharge measurement made on this day.

a To gauge-height record; discharge computed on basis of weather records, records for station near Midvale, and records for stations on nearby streams.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

WEISER RIVER BASIN

Weiser Irrigation District Canal near Weiser, Idaho

Location.- Water-stage recorder, lat. 44°15', long. 116°51', in sec. 32, T. 11 N., R. 4 W., 3¼ miles downstream from headworks of canal and 7 miles east of Weiser.

Records available.- April 1920 to September 1944 (winter records fragmentary).

Extremes.- Maximum discharge during year, 208 second-feet June 4 (gage height, 2.94 feet); minimum, not determined (consists of leakage during nonirrigation season when gates were closed).

1920-44: Maximum discharge, 221 second-feet July 15, 1932; maximum gage height, 3.43 feet May 5, 1926; no flow at times when gates were closed.

Remarks.- Records good except those for Oct. 31 to Nov. 20, Mar. 29-31, which are fair. Canal diverts water from Weiser River in sec. 35, T. 11 N., R. 4 W., 3¼ miles above station for irrigation of about 9,000 (revised) acres included in projects of Weiser and Weiser Bench Irrigation Districts. One farm lateral diverts a quarter of a mile above station.

Cooperation.- Gage-height record furnished by Weiser Irrigation District.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	135					-	92	117	202	159	167	160
2	133					-	94	126	200	186	169	154
3	131					-	105	105	205	182	166	161
4	131					-	115	17	205	175	165	161
5	131					-	117	16	202	166	165	157
6	125					-	116	189	200	173	164	157
7	118					-	117	190	197	182	167	156
8	114					-	117	189	195	181	164	156
9	118					-	117	188	199	180	161	154
10	113					-	116	185	190	181	163	152
11	90	a49				-	115	186	183	180	164	150
12	90					-	117	192	186	181	163	149
13	92					f1	118	197	184	180	162	148
14	90					-	119	197	184	170	161	143
15	87					-	119	193	183	165	161	141
16	61					-	119	198	164	168	161	141
17	60					-	118	197	184	174	168	141
18	59					-	117	200	182	166	153	145
19	59					-	117	205	181	169	152	143
20	59			t2		-	119	205	181	164	152	131
21	61	49				-	117	195	182	180	149	128
22	61	49				-	116	192	182	173	140	127
23	61	49				-	116	184	181	177	152	126
24	58	49				-	117	180	183	176	158	109
25	49	48			t4	-	118	191	182	176	156	90
26	49	48				-	117	189	181	173	157	89
27	47	48				-	117	189	180	169	159	84
28	49	48				-	116	192	177	168	161	94
29	48	-				3	115	193	171	169	163	91
30	49	-				3	115	196	152	166	162	92
31	a49	-				39	-	201	-	164	161	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	2,575	135	47	83.1	5,110
November 1-30.....	1,368	-	-	48.9	2,710
December.....	-	-	-	-	-
Calendar year.....	-	-	-	-	-
January.....	-	-	-	-	-
February.....	-	-	-	-	-
March.....	-	-	-	-	-
April.....	3,450	119	92	115	6,840
May.....	5,399	205	16	174	10,710
June.....	5,604	206	152	187	11,120
July.....	5,366	186	156	173	10,640
August.....	4,865	169	140	160	9,530
September.....	4,039	161	88	135	8,010
Water year.....	-	-	-	-	-

† Field estimate or discharge measurement.

a No gage-height record; discharge interpolated.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

WEISER RIVER BASIN

179

Mann Creek near Weiser, Idaho

Location.- Staff gage, lat. 44°24', long. 116°54', in sec. 11, T. 12 N., R. 5 W., at Richards Ranch, 12 miles upstream from mouth and 11 miles northeast of Weiser.

Drainage area.- 56 square miles.

Records available.- March 1911 to September 1913, July to November 1920, April 1937 to September 1944.

Extremes.- Maximum discharge observed during year, 237 second-feet Mar. 17 (gage height, 2.44 feet); minimum observed, 1.1 second-feet Sept. 11 (gage height, 0.66 foot); 1911-13, 1920, 1937-44: Maximum discharge, 1,540 second-feet Mar. 27, 1940 (gage height, 5.45 feet, from floodmark, site and datum then in use), from rating curve extended above slope-area determination at gage height 4.21 feet; no flow Aug. 18 to Sept. 22, 1937, July 31 to Sept. 13, 1939.

Remarks.- Records good above 15 second-feet and fair below. Gage read twice daily. One diversion above station for irrigation.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

0.6	0.5	1.1	14	1.6	66
.7	1.5	1.2	22	1.8	99
.8	2.8	1.3	30	2.1	158
.9	5.0	1.4	40		
1.0	9.0	1.5	52		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.7	8.2	7.4	6.2	6.6	9.0	115	113	23	7.4	a2.4	1.4
2	2.7	8.2	7.4	5.8	6.6	9.6	117	97	20	7.4	2.4	2.3
3	2.8	8.2	7.8	2.8	8.2	10	129	97	20	5.8	2.8	2.7
4	2.8	17	7.8	2.8	8.2	15	149	99	17	4.6	2.8	2.3
5	2.8	16	6.6	3.7	8.2	13	133	96	16	5.8	2.5	2.0
6	3.7	13	6.6		23	16	117	96	14	6.6	2.2	1.8
7	3.7	6.6	7.4		17	16	103	96	14	7.4	2.2	1.6
8	3.5	6.6	7.4		13	13	92	87	13	7.0	2.3	1.5
9	3.7	7.4	6.6		13	42	84	71	19	8.2	2.5	1.5
10	3.7	7.0	4.1		13	45	79	63	14	7.0	2.5	1.5
11	7.4	7.4			12	28	92	63	15	6.6	2.3	1.2
12	5.0	7.4			9.0	25	137	62	13	6.2	2.0	1.3
13	5.0	7.4			9.0	*24	113	52	13	6.2	2.0	1.3
14	4.6	7.4			9.6	27	121	53	13	5.8	2.0	1.5
15	4.3	7.4			6.6	32	123	48	9.6	5.0	2.0	1.5
16	4.1	7.4			8.2	36	117	42	8.2	4.8	2.2	2.2
17	4.1	7.4	*6.6		7.4	119	94	39	8.2	4.1	2.0	2.8
18	4.1	7.4	6.6		8.2	77	92	35	8.2	3.9	2.0	2.4
19	4.1	7.4	6.6		8.2	62	77	33	7.4	3.9	2.0	2.7
20	3.9	7.4	6.6		7.4	44	97	30	8.2	4.1	2.0	2.5
21	7.4	7.4	6.6		7.4	40	76	27	14	4.1	1.8	2.4
22	7.4	6.6	6.6		8.2	39	76	27	11	4.6	1.8	3.5
23	7.4	6.6	6.6		8.2	44	87	26	8.2	4.6	1.8	2.5
24	8.6	6.6	6.6		10	38	152	25	7.4	4.3	1.8	2.5
25	8.6	6.6	7.4	(*)	12	32	141	22	6.6	3.9	1.8	2.5
26	8.2	6.6	6.6		12	28	135	21	5.8	3.2	1.5	2.3
27	8.2	6.6	b6.0		9.6	25	121	21	5.8	2.8	1.4	2.3
28	8.6	6.2	b6.0		9.0	19	125	21	7.4	2.8	1.5	2.2
29	10	6.6	b6.0		10	40	137	20	7.4	2.7	1.5	2.0
30	14	7.0	b6.0		-	65	125	24	7.4	a2.6	1.4	2.2
31	10	-	6.6	6.6	-	92	-	21	-	a2.5	1.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1777.1	14	2.7	5.71	351
November.....	239.0	17	6.2	7.97	474
December.....	205.6	7.8	4.1	6.53	409
Calendar year 1943.....	19,176.0	500	1.5	52.5	38,030
January.....	177.9	6.6	-	5.74	355
February.....	288.8	23	6.6	9.96	573
March.....	1,124.6	119	9.0	36.3	2,230
April.....	3,345	152	76	112	6,630
May.....	1,628	113	20	52.5	3,230
June.....	354.8	23	5.8	11.8	704
July.....	155.9	8.2	2.5	5.03	309
August.....	62.8	2.8	1.4	2.03	125
September.....	62.4	3.5	1.2	2.08	124
Water year 1943-44.....	7,818.8	152	1.2	21.4	15,500

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Unity Reservoir near Unity, Oreg.

Location.- Staff gage and low-water reference mark, lat. 44°30', long. 118°11', in S.W. 1/4 sec. 21, T. 12 S., R. 37 E., at Unity Dam on Burnt River, just downstream from Job Creek, half a mile downstream from confluence of North, Middle, and South Forks of Burnt River, and 4 1/2 miles north of Unity. Gage readings are elevations above mean sea level, datum of Bureau of Reclamation.

Drainage area.- 309 square miles.

Records available.- March 1938 to September 1944.

Extremes.- Maximum contents observed during year, 18,920 acre-feet May 5-11 (elevation, 3,812.8 feet); minimum observed, 1,960 acre-feet Sept. 30 (elevation, 3,785.0 feet). 1938-44: Maximum contents observed, 25,770 acre-feet Apr. 13, 1942 (elevation, 3,820.6 feet); minimum observed, that of Sept. 30, 1944.

Remarks.- Reservoir is formed by earth-fill dam with concrete spillway and outlet works, completed by Bureau of Reclamation in 1937; storage began Feb. 19, 1938. Capacity, 25,220 acre-feet between elevations 3,776.5 feet (bottom of outlet gates) and 3,820.0 (top of radial gates on spillway when closed). Dead storage, 600 acre-feet below elevation 3,776.5 feet. Records given herein represent usable contents. Water used for irrigation of lands in Burnt River Irrigation District near Hereford and Bridgeport. Gage read or water surface elevation measured from reference mark once daily by employee of Burnt River Irrigation District. Contents computed from capacity table based on surveys by Bureau of Reclamation.

Monthly elevation and contents, water year October 1943 to September 1944

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30.....	3,795.1	5,574	-
Oct. 31.....	3,794.0	6,060	+486
Nov. 30.....	3,792.9	5,468	-592
Dec. 31.....	3,789.3	3,698	-1,770
Calendar year 1943.....	-	-	-5,650
Jan. 31.....	3,792.3	5,156	+1,458
Feb. 29.....	3,795.7	7,002	+1,846
Mar. 31.....	3,805.7	12,050	+5,048
Apr. 30.....	3,812.1	18,340	+6,290
May 31.....	3,809.2	16,070	-2,270
June 30.....	3,806.3	15,370	-700
July 31.....	3,801.2	10,370	-5,000
Aug. 31.....	3,792.0	5,000	-5,370
Sept. 30.....	3,785.0	1,960	-3,040
Water year 1943-44.....	-	-	-3,614

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Burnt River near Hereford, Oreg.

Location.- Water-stage recorder, lat. $44^{\circ}30'$, long. $118^{\circ}11'$, in SE $\frac{1}{4}$ sec. 21, T. 12 S., R. 37 E., at entrance to canyon, 1,250 feet downstream from Unity Dam, 0.7 mile downstream from South Fork, and 7 miles west of Hereford.

Drainage area.- 309 square miles.

Records available.- March 1915 to September 1916, October 1928 to September 1944.

Average discharge.- 15 years (1929-44), 68.7 second-feet.

Extremes.- Maximum discharge during year, 217 second-feet (regulated) Nov. 25, 26 (gage height, 3.14 feet); practically no flow Jan. 10-16.
1915-16, 1928-44: Maximum discharge, 2,220 second-feet Apr. 17, 1943 (gage height, 4.06 feet, caused by opening of automatic spillway gates), from rating curve extended above 1,300 second-feet by logarithmic plotting; no flow at times; minimum discharge before construction of Unity Reservoir Dam, 1.6 second-feet Aug. 31, 1935 (gage height, 0.92 foot).

Remarks.- Records fair except those below 5 second-feet, which are poor. Many small diversions above station for irrigation. Some regulation from reservoir on South Fork of Burnt River, 3 miles above mouth (capacity, about 700 acre-feet), and by Unity Reservoir (see preceding page).

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet) (Shifting-control method used Oct. 12 to Nov. 2, Nov. 23-26)

0.6	0	1.2	2.5	1.8	27
.7	.1	1.3	4.2	2.0	46
.8	.2	1.4	6.8	2.2	67
.9	.5	1.6	10.2	2.4	92
1.0	1.0	1.6	15	2.7	134
1.1	1.6	1.7	20		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	91	h0.3	80	19	a1.7	0.2	13	39	68	102	89	83
2	91	h23	80	20	a1.9	.2	32	55	56	100	89	82
3	89	48	80	20	a2.0	.2	18	55	53	95	89	82
4	89	48	80	20	a2.2	.2	18	54	50	95	89	82
5	88	49	80	20	a2.4	.2	15	54	47	97	89	82
6	87	49	80	20	a2.5	.1	13	105	52	95	89	80
7	86	49	79	20	a2.7	.1	10	100	51	93	89	80
8	86	49	79	20	a2.8	.2	9.9	98	49	92	88	79
9	84	49	68	20	3.0	.4	12	98	41	93	88	78
10	35	49	57	13	2.4	.8	a14	89	36	91	88	78
11	a.3	49	56	0	2.5	1.0	a16	87	33	86	87	77
12	h.3	50	56	0	3.0	1.1	18	105	33	79	87	77
13	h.3	50	56	0	3.0	1.1	16	116	32	79	86	75
14	h.3	50	56	0	2.1	1.7	13	116	31	82	89	74
15	h.3	50	56	0	1.6	2.5	11	115	37	83	86	73
16	h.3	50	56	0	1.4	2.8	9.5	111	49	79	88	72
17	h.3	50	56	.1	1.2	2.7	8.5	122	48	82	87	69
18	h.3	50	54	.1	1.0	3.2	7.1	139	35	90	87	68
19	h.3	50	54	.1	.8	4.0	6.5	131	32	89	87	67
20	h.3	50	54	.1	.8	4.0	6.0	132	31	93	86	66
21	h.3	50	53	.1	.8	3.9	5.2	131	31	92	87	65
22	h.3	50	53	.1	.6	3.9	4.5	126	32	91	87	64
23	h.3	34	53	a.3	.6	4.0	4.0	130	32	92	87	63
24	h.3	h.3	53	a.4	.6	4.2	3.9	130	32	92	88	52
25	h.3	73	53	a.6	.5	4.2	3.5	132	31	91	87	60
26	h.3	140	53	a.7	.4	4.2	20	115	30	91	86	60
27	h.3	82	53	a.9	.4	4.2	51	105	30	91	84	59
28	h.3	82	53	a.1	.3	4.2	46	106	30	89	84	58
29	h.3	82	53	a.1.2	.3	4.2	40	102	52	91	84	57
30	h.3	80	53	a.1.4	-	4.2	31	95	87	91	84	56
31	h.3	-	37	a.1.5	-	4.5	-	80	-	91	84	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	832.3	91	0.3	26.8	1,650
November.....	1,585.6	140	.3	52.9	3,140
December.....	1,883	80	37	60.7	3,750
Calendar year 1943	56,269.9	1,240	.3	154	111,600
January.....	200.7	20	0	6.47	398
February.....	45.5	3.0	.3	1.57	90
March.....	72.4	4.5	.1	2.34	144
April.....	475.6	51	3.5	15.9	943
May.....	3,209	139	39	104	6,360
June.....	1,251	87	30	41.7	2,480
July.....	2,737	102	79	89.9	5,330
August.....	2,703	89	64	87.2	5,360
September.....	2,128	83	56	70.9	4,220
Water year 1943-44	17,173.1	140	0	46.9	34,040

a No gage-height record; discharge interpolated or extrapolated.

h Computed from staff-gage reading.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

POWDER RIVER BASIN

Powder River at Salisbury, Oreg.

Location.- Water-stage recorder, lat. 44°39', long. 117°52', in NE¼ sec. 36, T. 10 S., R. 38 E., 700 feet downstream from Salisbury siding of Sumpter Valley Railroad and Stices Gulch and 8½ miles south of Baker. Datum of gage is 3,633.84 feet above mean sea level (Oregon State Highway Department bench mark).

Drainage area.- 230 square miles.

Records available.- December 1903 to August 1914 and October 1928 to September 1944 in reports of Geological Survey. January 1904 to July 1914 and June 1926 to September 1936 in reports of State engineer.

Average discharge.- 26 years (1904-13, 1926-28, 1929-44), 109 second-feet.

Extremes.- Maximum discharge during year, 238 second-feet June 22 (gage height, 2.73 feet); minimum, 5.4 second-feet Sept. 12-14 (gage height, 1.14 feet).

1903-14, 1926-44: Maximum discharge, 1,820 second-feet Mar. 20, 1910 (gage height, 7.06 feet, site and datum then in use); no flow Aug. 31, 1909, Sept. 7, 1931.

Remarks.- Records good, April to July; fair October, November, August, and September; poor December to March. Diversions above station for irrigation.

Rating tables, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Feb. 5				Feb. 6 to Sept. 30			
1.5	12.5	1.2	7.5	1.8	65		
1.4	12	1.5	12.5	2.0	95		
1.5	26	1.4	19	2.2	130		
1.6	36	1.5	27	2.4	169		
		1.6	37	2.6	210		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	21	26	24	24	20	92	114	169	68	19	7.5
2	12	21	26	26	25	20	110	105	163	62	18	8.0
3	12	20	29	26	25	19	132	105	165	57	19	8.0
4	12	27	27	20	23	18	143	117	158	53	18	8.0
5	12	32	25	21	25	19	141	143	121	62	16	7.5
6	12	31	23	22	36	19	132	195	112	45	18	7.2
7	12	32	21	21	34	h19	125	223	105	38	16	6.8
8	12	32	24	20	33	22	123	216	110	36	14	6.4
9	12	31	21	20	h33	64	112	189	138	36	12	6.1
10	13	29	18	21	34	90	104	161	146	44	10	6.1
11	15	29	18	22	29	65	107	143	129	43	10	5.8
12	14	29	18	22	26	58	121	136	121	42	10	6.4
13	14	28	18	23	26	50	121	138	112	38	10	5.4
14	15	28	18	24	24	35	119	163	104	30	10	5.4
15	15	26	19	24	24	37	109	187	98	28	10	6.1
16	15	24	19	24	28	43	100	175	135	26	10	6.1
17	15	24	21	23	26	58	90	177	155	25	10	6.4
18	15	24	24	22	26	70	85	189	151	25	10	6.4
19	16	24	24	22	26	80	78	177	132	25	9.5	6.4
20	15	26	24	21	24	64	75	167	140	31	9.0	6.4
21	16	25	25	21	26	58	72	165	134	26	9.0	6.4
22	16	25	25	21	22	56	69	151	225	24	9.0	6.4
23	17	25	24	21	22	h63	74	180	173	22	9.0	6.4
24	21	24	25	22	26	65	85	130	146	21	9.0	6.8
25	23	24	25	22	24	50	95	116	128	21	9.0	6.8
26	24	24	24	20	22	40	88	114	119	21	9.5	6.8
27	24	24	22	18	22	h33	90	114	110	21	9.0	6.8
28	25	24	21	18	22	37	97	123	98	25	8.5	6.4
29	26	24	21	19	21	60	110	119	86	25	8.0	6.8
30	24	25	24	21	21	68	121	163	75	21	8.0	6.4
31	22	-	25	27	-	75	-	175	-	20	8.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	508	26	12	16.4	1,010
November.....	785	32	20	26.1	1,560
December.....	701	28	18	22.6	1,590
Calendar year 1943	57,689	1,030	12	158	114,400
January.....	677	27	18	21.8	1,340
February.....	755	38	21	26.0	1,500
March.....	1,476	90	19	47.6	2,980
April.....	3,130	143	69	104	6,210
May.....	4,720	223	105	152	9,360
June.....	3,946	225	75	132	7,830
July.....	1,051	68	20	33.9	2,080
August.....	356.5	19	8.0	11.5	707
September.....	197.4	8.0	5.4	6.58	392
Water year 1943-44	18,300.9	225	5.4	50.0	36,300

* Winter discharge measurement made on this day.

h Computed from staff-gage readings.

Note.- No gage-height record Oct. 23, 24, Feb. 7, 8, 10-12, Feb. 26 to Mar. 6, Mar. 8-22, 24-26, 28; discharge computed on basis of weather records and records for Powder River near Robette and Catherine Creek near Union. Stage-discharge relation affected by ice Dec. 8-17, 26-29, Jan. 3 to Feb. 5, Feb. 13-15.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Powder River near Robinette; Oreg.

Location.— Staff gage, lat. 44°46', long. 117°04', in SE $\frac{1}{4}$ sec. 22, T. 9 S., R. 46 E., downstream from all tributaries, 2 miles northwest of Robinette and 2 $\frac{1}{2}$ miles upstream from mouth.

Drainage area.— 1,710 square miles.

Records available.— September 1928 to September 1944.

Average discharge.— 16 years, 457 second-feet.

Extremes.— Maximum discharge observed during year, 1,200 second-feet May 31 (gage height, 3.16 feet); minimum observed, 65 second-feet Aug. 14, Sept. 12, 13, 17 (gage height, 0.65 foot).

1928-44: Maximum discharge observed, 4,180 second-feet June 15, 16, 1933 (gage height, 6.9 feet, site and datum then in use); minimum observed, 18 second-feet Sept. 2-10, 1930.

Remarks.— Records fair except those for periods of ice effect, which are poor. Gage read twice daily. Many diversions above station for irrigation, none below. One canal with capacity of about 5 second-feet diverts around station on left bank.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

0.6	57	1.7	365
.8	91	2.0	500
1.0	135	2.3	650
1.2	186	2.7	800
1.4	251	3.1	1,160

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	157	237	244	138	147	157	520	545	1,030	560	99	87
2	157	241	244	135	138	157	596	550	802	437	103	75
3	160	244	256	118	163	165	635	540	738	365	105	80
4	131	310	211	140	157	168	722	600	650	514	107	80
5	115	337	177	177	185	166	738	738	630	287	103	77
6	119	291	171	160	237	163	727	856	610	251	99	71
7	120	280	174	155	258	160	716	856	590	231	86	73
8	124	280	174	147	224	157	732	738	630	204	86	71
9	120	280	160	b140	186	404	694	716	650	179	80	77
10	122	273	b140	b145	*133	640	630	661	661	163	86	73
11	182	276	b120	b150	157	630	640	672	666	157	84	70
12	237	280	b130	b155	145	575	749	661	630	138	84	67
13	244	255	b120	b160	128	525	694	683	570	129	73	67
14	231	258	b110	b165	152	468	650	832	560	124	67	70
15	214	251	b110	b170	133	401	650	938	515	109	70	71
16	195	251	b110	b160	150	396	610	1,000	620	111	80	73
17	185	251	b115	b150	152	464	585	1,030	595	115	78	67
18	179	251	b120	b140	143	555	555	749	555	101	82	71
19	179	251	b150	b130	138	600	556	640	510	107	86	71
20	185	258	157	b125	129	580	510	635	525	107	95	70
21	217	251	152	b120	143	545	478	650	694	111	95	70
22	227	251	152	b125	150	520	460	585	738	115	95	70
23	237	244	152	b130	150	495	464	500	850	113	97	71
24	255	244	163	147	163	482	640	445	1,120	106	99	70
25	258	241	163	131	157	464	716	424	1,070	107	97	70
26	251	241	152	129	157	455	700	383	1,020	103	103	67
27	251	254	143	124	155	419	672	445	856	109	111	70
28	253	241	138	128	157	414	630	580	727	103	107	71
29	255	234	140	120	157	388	610	595	640	99	107	70
30	295	231	152	129	-	406	600	732	630	91	115	73
31	255	-	152	182	-	432	-	966	-	93	97	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	6,124	295	115	198	12,150
November.....	7,777	337	231	259	15,430
December.....	4,854	258	110	157	9,630
Calendar year 1943	294,273	3,280	110	805	585,700
January.....	4,425	182	118	143	8,770
February.....	4,641	258	126	160	9,210
March.....	12,351	640	155	405	24,590
April.....	18,837	749	460	628	37,560
May.....	20,907	1,030	383	674	41,470
June.....	21,082	1,120	510	703	41,380
July.....	5,338	560	91	172	10,590
August.....	2,874	115	87	99.7	5,700
September.....	2,153	87	67	72.1	4,290
Water year 1943-44	111,571	1,120	57	305	221,500

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

IMNAHA RIVER BASIN

Imnaha River at Imnaha, Oreg.

Location.- Water-stage recorder, lat. 45°34', long. 116°51', in SW $\frac{1}{4}$ sec. 16, T. 1 N., R. 48 E., at Imnaha, three-eighths of a mile downstream from Sheep Creek.

Drainage area.- 705 square miles.

Records available.- June 1928 to September 1944.

Average discharge.- 16 years, 433 second-feet.

Extremes.- Maximum discharge during year, 1,680 second-feet June 22 (gage height, 4.35 feet); minimum, 42 second-feet Jan. 4 (gage height, 1.49 feet).
1928-44: Maximum discharge, 5,400 second-feet May 23, 1942 (gage height, 6.70 feet), from rating curve extended above 1,800 second-feet; minimum, 16 second-feet Nov. 22, 1931.

Remarks.- Records excellent except those for periods of ice effect, which are fair. Diversions above station for irrigation.

Rating tables, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to June 21				June 22 to Sept. 30			
1.5	45	2.5	330	1.7	85	2.9	555
1.6	53	2.8	470	1.9	135	3.3	800
1.8	107	3.2	680	2.1	195	3.7	1,090
2.0	158	3.7	1,020	2.3	270	4.0	1,340
2.2	215	4.0	1,280	2.6	400	4.4	1,740

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	140	163	153	156	b170	130	242	980	1,170	828	192	115
2	135	161	150	150	161	127	278	849	996	748	186	125
3	132	163	148	98	158	130	357	782	1,010	670	183	125
4	132	172	160	52	155	135	475	800	898	618	183	118
5	132	206	150	b75	145	135	592	905	835	577	174	115
6	137	185	122	b110	145	130	525	1,080	814	538	171	112
7	137	163	137	b100	153	122	500	788	500	165	165	110
8	132	172	172	93	140	135	505	1,080	807	470	165	108
9	130	169	124	98	140	161	480	972	800	445	168	102
10	130	169	69	130	112	188	435	584	856	415	165	100
11	194	169	b80	b100	127	169	480	863	821	396	156	100
12	182	166	b90	b130	127	161	778	877	849	378	163	98
13	158	166	b100	b150	112	163	788	884	849	355	160	95
14	150	166	b100	153	137	117	740	964	800	337	165	98
15	145	163	b110	155	137	132	586	1,140	770	324	159	102
16	142	161	b120	158	132	191	842	1,040	891	302	153	105
17	148	161	b120	155	132	185	592	996	877	294	147	118
18	155	161	*b160	*150	*127	182	570	877	840	286	132	120
19	150	168	b160	142	127	191	570	794	770	278	130	118
20	148	163	177	137	112	188	586	770	821	278	125	112
21	158	163	174	132	124	180	555	776	1,080	270	125	108
22	163	158	153	135	137	174	530	704	1,650	250	122	112
23	163	155	161	137	127	180	764	647	1,510	246	120	112
24	169	150	166	140	135	180	1,080	581	1,370	234	118	110
25	177	148	166	137	130	172	1,220	545	1,270	223	118	108
26	177	140	155	102	130	174	1,040	555	1,170	220	118	108
27	169	127	112	b55	124	155	956	825	1,060	209	115	102
28	169	153	71	b75	127	165	948	728	947	209	112	102
29	168	148	b100	b100	135	173	1,040	807	884	212	110	105
30	172	148	172	b120	-	188	1,070	1,060	835	202	110	110
31	166	-	166	b140	-	215	-	1,110	-	195	110	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	4,755	194	130	153	9,430
November.....	4,847	206	127	182	9,610
December.....	4,191	177	69	135	8,310
Calendar year 1943.....	224,201	2,270	69	614	444,700
January.....	3,777	158	52	122	7,490
February.....	3,818	170	112	135	7,770
March.....	5,017	215	117	182	9,950
April.....	20,122	1,220	242	871	39,910
May.....	26,865	1,170	545	867	53,290
June.....	29,028	1,650	770	968	57,580
July.....	11,505	828	195	371	22,820
August.....	4,503	192	110	145	8,930
September.....	3,273	125	95	109	6,490
Water year 1943-44.....	121,801	1,650	52	333	241,600

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time Basis, Pacific war time. To convert war time to standard time, subtract 1 hour.

Salmon River near Obsidian, Idaho

Location.— Water-stage recorder, lat. 43°58', long. 114°48', in sec. 3, T. 7 N., R. 14 E., three-eighths of a mile below irrigation diversion dam, 1 mile upstream from Lost Creek, and 2½ miles southeast of Obsidian.

Drainage area.— 94.7 square miles.

Records available.— November 1940 to September 1944.

Extremes.— Maximum discharge during year, 348 second-feet May 15 (gage height, 3.42 feet); minimum recorded, 6 second-feet Feb. 11 (gage height, 1.32 feet), low point of diurnal fluctuation caused by ice jamming upstream or other natural causes.

1940-44: Maximum discharge, 664 second-feet May 30, 1943; maximum gage height recorded, 4.74 feet sometime between Dec. 5, 1940, and Jan. 23, 1941 (ice jam); minimum discharge, 2 second-feet Sept. 7-11, 1942.

Remarks.— Records good except those for periods of ice effect or no gage-height record, which are poor. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	b50	51			b30	31	92	247	250	21	8
2	48	b58	50			b30	32	60	211	241	22	9
3	46	b60	51			b30	31	62	220	206	21	9
4	47	b68	49	b55	a38	b32	34	86	192	173	20	8
5	47	b70	49			b30	30	124	185	162	18	8
6	48	b60	b46			b30	35	151	185	155	18	8
7	47	b58	48		37	29	35	155	192	139	17	8
8	48	59	48	*b33	36	34	36	181	211	128	17	8
9	48	59	b46		36	35	35	151	220	119	17	8
10	48	58	b44		b30	33	36	147	211	110	15	8
11	57	58	b46	b55	b27	b30	40	153	195	99	15	8
12	50	57	b46		b30	b30	40	173	195	85	15	10
13	48	*56	b46		b23	b30	34	228	195	71	14	18
14	49	54	b45		b28	b27	33	264	200	64	14	32
15	49	54	b45		b30	b28	34	300	200	59	14	32
16	49	54	b45		b32	33	32	289	198	55	14	32
17	49	54	48		b34	32	30	282	190	50	12	34
18	49	54	50		b35	34	29	234	178	41	10	34
19	50	53	52		b30	32	29	192	182	40	10	34
20	48	54	51		b29	30	30	173	217	41	10	36
21	49	54	50		b33	b30	29	166	217	39	9	39
22	49	53	50	a35	b35	b30	31	168	211	37	9	38
23	48	53	50		b34	32	37	147	211	35	9	38
24	50	53	50		b34	29	41	137	231	34	9	37
25	50	52	49		b33	31	40	155	257	31	8	37
26	55	b50	b48		b32	32	40	137	274	28	9	36
27	57	b48	40		b31	a31	44	151	274	24	9	36
28	85	51	37		b30	a29	53	168	225	23	8	36
29	70	50			32	*35	67	198	217	22	8	37
30	57	52	b42		-	33	93	280	225	21	8	37
31	62	-			-	31	-	287	-	21	8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,626	85	46	52.5	3,230
November.....	1,974	70	48	55.8	3,320
December.....	1,456	52	37	47.0	2,890
Calendar year 1943.....	48,618	646	-	133	96,440
January.....	1,083	-	-	34.9	2,150
February.....	959	-	23	33.1	1,900
March.....	958	34	27	30.9	1,900
April.....	1,148	93	29	36.3	2,280
May.....	5,393	300	60	174	10,700
June.....	6,366	274	178	212	12,630
July.....	2,602	250	21	83.9	5,160
August.....	409	22	8	13.2	811
September.....	723	39	8	24.1	1,430
Water year 1943-44.....	24,397	300	8	66.7	48,400

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records and records for stations on nearby streams.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Salmon River below Valley Creek, at Stanley, Idaho

Location.— Water-stage recorder, lat. 44°14', long. 114°55', in SE $\frac{1}{4}$ sec. 34, T. 11 N., R. 13 E., three-quarters of a mile downstream from Valley Creek and $\frac{1}{2}$ mile northeast of Stanley. Datum of gage is 6,190.32 feet above mean sea level, datum 1929.

Drainage area.— 535 square miles.

Records available.— July 1925 to September 1944.

Average discharge.— 19 years, 590 second-feet.

Extremes.— Maximum discharge during year, 1,720 second-feet May 17, June 27 (gage height, 2.54 feet); minimum daily, 270 second-feet Mar. 27.

1925-44: Maximum discharge, 5,020 second-feet June 27, 1927 (gage height, 4.41 feet), from rating curve extended above 4,000 second-feet; minimum, 100 second-feet (estimated) Nov. 20-30, 1929.

Remarks.— Records good except those for periods of ice effect or no gage-height record, which are fair. Diversions above station for irrigation.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Feb. 9 to Mar. 22)

0.9	268	1.7	845
1.0	312	2.0	1,140
1.2	436	2.3	1,440
1.4	589	2.5	1,670

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	472	509	458	a370	a370	a330	a300	721	1,610	1,500	549	287
2	472	502	443	a380	b355	a330	a310	589	1,550	1,500	565	307
3	465	533	443	a360	a380	a320	a330	557	1,670	1,410	533	512
4	465	678	429	a320	a380	a350	a390	613	1,440	1,310	502	302
5	465	500	443	a350	a380	a330	a470	704	1,520	1,290	487	297
6	480	608	383	a360	a380	a330	b436	800	1,280	1,240	495	292
7	487	541	410	a350	a370	a310	a450	874	1,280	1,170	436	287
8	487	549	429	a320	a370	a360	a430	883	1,430	1,090	416	287
9	497	549	377	a330	b364	b364	a400	950	1,610	1,040	403	287
10	497	541	b360	*b340	a340	a370	a440	921	1,500	1,010	396	282
11	605	533	b375	b340	a380	a320	a580	980	1,550	980	390	277
12	585	525	377	b340	a350	a320	b330	1,020	1,440	902	383	282
13	525	*525	377	a350	a350	a330	a520	1,150	1,380	845	370	282
14	509	494	370	a360	a360	a280	a460	1,290	1,390	809	364	292
15	502	487	370	a370	a340	b292	a430	1,440	1,430	781	358	302
16	502	465	364	a370	b353	a350	a430	1,550	1,590	755	353	312
17	494	480	390	a360	a350	a350	a420	1,610	1,530	738	341	335
18	494	480	390	a360	a350	a340	a410	1,670	1,540	704	315	329
19	494	480	403	a340	a310	a340	a410	1,800	1,240	697	312	324
20	480	487	390	a330	a340	a330	a410	1,540	1,330	712	307	318
21	502	472	377	a340	a370	a320	416	1,240	1,330	696	302	318
22	509	451	377	a350	*b364	b364	490	1,200	1,320	670	297	318
23	502	465	370	a370	a380	a340	613	1,130	1,500	662	297	318
24	549	472	370	a370	b358	a310	670	1,080	1,530	680	297	318
25	541	458	370	a360	a350	a320	597	990	1,420	569	292	312
26	533	410	364	b350	a350	a320	621	970	1,550	573	297	312
27	541	403	335	a340	a350	a270	638	1,000	1,670	587	292	312
28	712	436	329	a350	a330	*b272	654	1,070	1,550	541	292	312
29	637	429	324	a370	a360	b277	712	1,070	1,440	533	287	324
30	821	443	a370	a340	-	a290	773	1,370	1,420	525	287	324
31	565	-	a380	a370	-	a300	-	1,550	-	541	287	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-foot
October	16,199	712	465	523	0.978	1.13	32,130
November	15,202	800	403	507	1.348	1.06	30,150
December	11,947	458	284	385	.720	.85	23,700
Calendar year 1943	379,710	3,850	220	1,040	1.94	26.41	753,200
January	10,920	380	320	352	.558	.76	21,460
February	10,359	380	310	367	.687	.72	20,560
March	9,994	370	270	322	.602	.69	19,820
April	14,830	773	300	494	.923	1.03	29,410
May	33,902	1,670	587	1,094	2.04	2.36	67,240
June	42,720	1,870	1,240	1,424	2.66	2.97	84,730
July	26,980	1,600	525	870	1.63	1.88	53,510
August	11,475	665	287	370	.692	.80	22,760
September	9,166	336	277	306	.573	.64	18,180
Water year 1943-44	213,694	1,670	270	584	1.09	14.67	423,800

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records and records for stations downstream.

b Stage-discharge relation affected by ice.

c Computed from staff-gage reading.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Salmon River below Yankee Fork, near Clayton, Idaho

Location.- Water-stage recorder, lat. 44°16', long. 114°44', in sec. 20, T. 11 N., R. 15 E., a quarter of a mile downstream from Sunbeam Dam and Yankee Fork and 18 miles upstream from Clayton.

Drainage area.- 841 square miles.

Records available.- October 1921 to September 1944.

Average discharge.- 21 years (1922-24, 1925-44), 867 second-feet.

Extremes.- Maximum discharge during year, 2,830 second-feet May 17 (gage height, 5.73 feet); minimum, 329 second-feet Mar. 28 (gage height, 2.12 feet).
1921-44: Maximum discharge, 8,000 second-feet (estimated) June 27, 1927; minimum, 160 second-feet (estimated) Nov. 25-30, 1929.

Remarks.- Records good except those for periods of ice effect, which are fair. No diversions above station for irrigation except those above Stanley.

Rating table, water year 1943-44, except period of ice effect (gage height, in feet, and discharge, in second-feet)

2.2	365	4.0	1,440
2.6	565	4.5	1,800
3.0	780	5.0	2,200
3.5	1,090	5.7	2,800

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	805	885	565	490	440	405	415	1,260	2,650	2,160	736	400
2	800	805	555	495	440	425	440	995	2,480	2,140	798	430
3	595	648	555	450	450	400	495	905	2,510	1,980	750	450
4	590	798	520	420	440	440	595	1,000	2,370	1,830	692	455
5	590	990	560	460	450	420	698	1,220	2,170	1,850	659	410
6	500	720	445	435	460	420	654	1,500	2,130	1,730	632	400
7	610	620	500	445	455	400	676	1,640	2,120	1,620	605	395
8	610	664	545	4419	445	445	659	1,620	2,380	1,680	580	390
9	605	676	465	*420	450	445	615	1,670	2,700	1,450	570	390
10	800	659	445	4430	405	456	664	1,600	2,550	1,400	555	390
11	730	648	480	4430	420	410	780	1,680	2,640	1,330	545	380
12	714	637	475	440	420	415	840	1,790	2,560	1,260	530	380
13	654	637	475	4460	420	435	686	2,090	2,510	1,180	590	395
14	625	*615	480	4460	435	380	608	2,370	2,480	1,150	510	395
15	620	600	476	4470	410	405	560	2,650	2,520	1,080	500	410
16	615	580	465	470	420	435	560	2,710	2,420	1,040	495	420
17	600	615	450	475	425	435	535	2,740	2,310	1,000	480	460
18	600	600	600	440	415	415	625	2,710	2,150	966	455	450
19	605	605	510	430	380	425	625	2,410	2,130	954	445	445
20	580	610	625	425	390	410	545	2,140	2,260	996	445	430
21	610	600	520	430	420	385	555	1,980	2,220	966	440	430
22	615	560	505	435	415	390	648	1,900	2,170	924	430	425
23	600	595	495	455	*415	450	828	1,760	2,110	906	425	420
24	648	535	450	435	415	380	966	1,650	2,130	868	425	420
25	664	560	505	440	410	400	876	1,590	2,220	816	420	415
26	648	475	490	425	405	405	912	1,530	2,370	786	420	410
27	659	470	435	410	415	375	978	1,620	2,570	774	415	410
28	862	540	425	420	395	380	1,010	1,780	2,310	752	410	410
29	846	625	440	445	430	400	1,110	2,020	2,140	725	405	415
30	758	660	490	410	-	410	1,260	2,380	2,080	714	400	415
31	686	-	490	440	-	415	-	2,640	-	730	395	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-foot
October	19,935	852	590	643	0.765	0.88	39,540
November	18,572	990	470	619	.736	.82	36,840
December	15,295	565	425	495	.586	.68	30,340
Calendar year 1943	585,092	7,100	290	1,603	1.91	25.88	1,160,000
January	13,770	495	410	444	.528	.61	27,310
February	12,300	480	330	424	.504	.54	24,400
March	12,790	455	375	413	.491	.57	25,370
April	21,215	1,260	415	707	.841	.94	42,080
May	57,522	2,740	906	1,856	2.21	2.54	114,100
June	70,440	2,650	2,080	2,548	2.79	3.11	139,700
July	37,527	2,160	714	1,211	1.44	1.66	74,450
August	16,067	798	395	618	.616	.71	31,870
September	12,405	460	380	414	.492	.55	24,600
Water year 1943-44	307,848	2,740	375	841	1.00	13.61	610,600

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

SALMON RIVER BASIN

Salmon River near Challis, Idaho

Location.— Water-stage recorder, lat. 44°23', long. 114°15', in sec. 7, T. 12 N., R. 19 E., 250 feet downstream from Bayhorse Creek and 9 miles south of Challis. Datum of gage is 5,163.99 feet above mean sea level, datum of 1929.

Drainage area.— 1,740 square miles.

Records available.— October 1928 to September 1944.

Average discharge.— 16 years, 1,278 second-feet.

Extremes.— Maximum discharge during year, 5,030 second-feet June 27 (gage height, 5.90 feet); minimum, 358 second-feet Jan. 4; ice jam upstream (gage height, 1.55 feet).
1928-44: Maximum discharge, 10,500 second-feet May 30, 1943 (gage height, 8.07 feet); minimum, 160 second-feet Dec. 14, 1940.

Remarks.— Records good. Some diversion above station for irrigation.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

1.9	507	3.0	1,140	4.5	2,640
2.2	687	3.5	1,540	5.0	3,380
2.5	820	4.0	2,030	5.5	4,820

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	938	938	920	726	705	615	652	1,580	3,970	4,240	1,360	726
2	938	908	820	759	715	626	678	1,320	3,880	4,150	1,460	764
3	908	938	920	657	705	800	753	1,170	3,800	3,710	1,360	798
4	908	1,030	799	586	710	657	878	1,280	3,540	3,380	1,880	770
5	908	1,320	803	626	689	647	1,000	1,450	3,380	3,380	1,210	742
6	938	1,100	742	721	699	626	938	1,820	3,380	3,220	1,170	732
7	938	938	684	631	715	595	938	2,140	3,300	3,000	1,140	721
8	938	938	814	800	689	657	909	2,140	3,620	2,790	1,100	710
9	938	1,000	705	631	689	684	878	2,200	4,240	2,640	1,080	694
10	938	969	605	636	647	699	878	2,140	3,970	2,610	1,030	694
11	1,000	969	657	626	600	631	969	2,200	4,060	2,380	1,000	678
12	1,060	938	684	636	621	605	1,100	2,320	5,970	2,320	1,000	665
13	1,000	938	689	668	631	631	969	2,710	4,060	2,200	969	673
14	969	908	689	668	668	560	878	3,220	4,060	2,140	969	673
15	969	908	689	684	615	585	809	3,800	4,240	2,090	938	694
16	969	878	662	705	631	647	732	3,970	4,060	1,980	938	699
17	938	878	689	689	652	673	778	3,880	3,880	1,980	908	764
18	938	908	737	694	636	641	753	3,800	3,620	1,870	878	770
19	969	878	764	647	585	631	742	3,540	3,540	1,820	849	759
20	938	878	614	631	531	615	759	3,380	3,880	1,920	820	742
21	938	878	820	615	610	585	770	3,070	3,880	1,870	820	737
22	969	849	781	641	647	580	820	2,920	3,800	1,770	809	726
23	938	849	745	657	631	605	969	2,780	3,710	1,720	798	721
24	969	849	732	721	626	600	1,140	2,640	3,800	1,630	738	715
25	1,000	849	759	699	647	580	1,100	2,440	4,150	1,680	781	710
26	1,000	759	742	636	615	580	1,100	2,380	4,340	1,500	775	705
27	1,000	694	631	600	615	560	1,170	2,510	4,820	1,500	770	694
28	1,140	781	541	555	595	641	1,250	2,780	4,150	1,460	763	689
29	1,250	798	670	641	641	605	1,320	3,140	3,800	1,410	742	689
30	1,140	809	705	631	-	631	1,450	3,710	3,890	1,360	737	694
31	1,060	-	748	610	-	641	-	4,060	-	1,360	732	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	30,444	1,250	908	982	0.564	0.66	60,380
November	27,875	1,320	694	909	.522	.58	54,100
December	22,462	820	641	725	.417	.48	44,100
Calendar year 1943	857,068	10,200	355	2,348	1.35	18.31	1,700,000
January	20,187	769	526	651	.374	.45	40,000
February	18,760	715	531	647	.372	.40	37,210
March	19,143	699	541	618	.355	.41	37,970
April	25,136	1,450	652	938	.639	.80	55,810
May	32,460	4,060	1,170	2,660	1.53	1.76	163,600
June	116,780	4,820	3,300	3,893	2.24	2.50	231,600
July	70,850	4,240	1,360	2,285	1.31	1.61	140,500
August	29,932	1,450	732	966	.855	.84	59,370
September	21,561	798	566	718	.413	.46	42,750
Water year 1943-44	487,960	4,820	526	1,333	.766	10.42	967,800

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Salmon River at Salmon, Idaho

Location.- Water-stage recorder, lat. 45°11', long. 113°54', in sec. 6, T. 21 N., R. 22 E., just upstream from Lemhi River, near Rose ranch buildings, 1,000 feet downstream from island, and three-eighths of a mile downstream from highway bridge at Salmon.

Drainage area.- 3,600 square miles.

Records available.- April 1912 to September 1916, July 1919 to September 1944.

Average discharge.- 27 years (1913-16; 1920-44), 1,781 second-feet.

Extremes.- Maximum discharge during year, 5,960 second-feet June 27 (gage height, 5.50 feet); minimum, 762 second-feet Jan. 9 (gage height, 2.62 feet).

1912-16, 1919-44: Maximum discharge observed, 16,400 second-feet June 12, 1921 (gage height, 9.35 feet, staff gage at site 700 feet upstream); minimum, 242 second-feet Jan. 8, 1937 (gage height, 1.50 feet).

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

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,280	1,690	1,410	1,280	1,040	1,130	1,120	2,020	4,840	4,840	1,920	1,010
2	1,280	1,570	1,430	1,300	1,370	1,100	1,130	2,050	4,730	5,080	1,990	1,040
3	1,280	1,530	1,410	1,250	1,360	1,080	1,170	1,780	4,510	4,840	2,020	1,080
4	1,280	1,640	1,400	940	1,300	1,080	1,310	1,630	4,620	4,400	1,920	1,080
5	1,280	1,780	1,370	850	1,250	1,130	1,480	1,690	4,180	4,290	1,810	1,060
6	1,300	2,040	1,370	950	1,220	1,120	1,570	2,010	3,980	4,290	1,720	1,050
7	1,320	1,740	1,260	1,050	1,230	1,080	1,460	2,500	3,980	3,980	1,640	1,030
8	1,320	1,600	1,300	950	1,260	1,070	1,440	2,680	4,180	3,760	1,570	1,010
9	1,320	1,640	1,370	859	1,210	1,150	1,450	2,690	5,320	3,560	1,510	1,000
10	1,340	1,660	1,170	904	1,200	1,250	1,390	2,690	5,200	3,460	1,460	990
11	1,360	1,630	1,070	831	1,140	1,260	1,370	2,690	5,200	3,260	1,430	990
12	1,440	1,630	1,130	904	1,070	1,160	1,540	2,680	5,200	3,060	1,370	980
13	1,610	1,620	1,170	970	1,110	1,120	1,600	2,970	5,320	2,960	1,320	980
14	1,480	1,600	1,160	1,010	1,140	1,040	1,460	3,360	5,320	2,780	1,300	980
15	1,460	1,560	1,190	1,040	1,160	1,030	1,340	3,980	5,570	2,680	1,300	1,000
16	1,460	1,540	1,160	1,150	1,080	1,100	1,260	4,600	5,440	2,590	1,260	1,010
17	1,460	1,530	1,140	1,260	1,130	1,220	1,250	4,800	5,200	2,500	1,230	1,040
18	1,440	1,540	1,200	1,320	1,160	1,270	1,250	4,730	4,960	2,410	1,200	1,120
19	1,460	1,540	1,280	1,250	1,120	1,210	1,210	4,610	4,730	2,410	1,150	1,140
20	1,460	1,540	1,340	1,100	1,040	1,150	1,200	3,980	4,840	2,410	1,120	1,120
21	1,510	1,540	1,400	1,050	970	1,080	1,210	3,660	4,960	2,500	1,110	1,100
22	1,540	1,530	1,390	1,080	1,040	1,040	1,210	3,360	4,960	2,410	1,100	1,080
23	1,570	1,470	1,310	1,130	1,040	1,040	1,250	3,160	4,840	2,320	1,080	1,080
24	1,570	1,480	1,270	1,210	1,120	1,080	1,410	2,960	4,730	2,240	1,080	1,080
25	1,600	1,480	1,260	1,310	1,110	1,040	1,660	2,780	4,840	2,130	1,070	1,080
26	1,630	1,440	1,280	1,300	1,120	1,000	1,570	2,680	5,080	2,090	1,070	1,080
27	1,620	1,320	1,230	1,150	1,080	1,010	1,580	2,690	5,570	2,020	1,070	1,070
28	1,660	1,280	1,000	1,000	1,080	980	1,700	2,780	5,440	1,980	1,060	1,060
29	1,920	1,390	841	970	1,070	990	1,780	3,160	4,960	1,930	1,040	1,070
30	1,920	1,390	922	1,070	-	1,060	1,870	3,760	4,730	1,920	1,030	1,070
31	1,800	-	1,130	1,060	-	1,120	-	4,620	-	1,900	1,010	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	45,890	1,920	1,280	1,480	0.411	0.47	91,020
November	46,940	2,040	1,280	1,665	.435	.48	93,100
December	36,363	1,430	841	1,236	.544	.40	76,090
Calendar year 1943	1,086,814	10,700	650	2,978	.827	11.23	2,156,000
January	35,578	1,320	850	1,083	.501	.35	66,500
February	35,520	1,370	970	1,149	.519	.34	66,090
March	34,170	1,270	980	1,102	.506	.35	67,780
April	42,350	1,870	1,120	1,498	.591	.44	83,800
May	95,050	4,800	1,630	3,068	.852	.68	185,500
June	147,430	5,570	3,980	4,914	1.36	1.62	292,400
July	93,000	5,080	1,900	3,000	.833	.96	184,500
August	41,970	2,020	1,010	1,354	.376	.43	83,250
September	31,460	1,140	980	1,049	.291	.32	62,400
Water year 1943-44	683,421	5,570	841	1,867	.519	7.04	1,356,000

a No gage-height record; discharge computed on basis of records for other stations on Salmon River.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

SALMON RIVER BASIN

Salmon River at Whitebird, Idaho

Location.- Water-stage recorder, lat. 45°45', long. 116°20', in sec. 22, T. 28 N., R. 1 E., just upstream from Whitebird Creek, half a mile downstream from Canfield-Joseph highway bridge, and 1 mile southwest of Whitebird.

Drainage area.- 13,400 square miles.

Records available.- August 1910 to September 1917, October 1919 to September 1944.

Average discharge.- 32 years, 10,340 second-feet.

Extremes.- Maximum discharge during year, 36,800 second-feet June 1 (gauge height, 22.28 feet); minimum, 2,660 second-feet Jan. 11 (gauge height, 11.50 feet).

1910-17, 1919-44: Maximum discharge observed, 36,800 second-feet June 9, 1921 (gauge height, 31.2 feet), from rating curve extended above 75,000 second-feet; minimum discharge, 1,580 second-feet Dec. 11, 1932 (gauge height, 10.23 feet), from rating curve extended below 2,200 second-feet.

Maximum stage known, about 37.5 feet, present datum, June 1894 (discharge, 120,000 second-feet).

Remarks.- Records excellent. Amount of water diverted above station for irrigation is a negligible percentage of total flow.

Rating table, water year 1943-44 (gauge height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Jan. 23)

11.5	2,680	13.5	6,020	18.0	18,100
11.7	2,930	14.0	7,040	20.0	26,000
12.0	3,560	15.0	9,290	22.0	35,400
12.5	4,170	16.0	11,900	23.0	40,500
13.0	5,060	17.0	14,800		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,500	5,670	4,610	3,780	3,510	3,780	4,100	11,800	36,500	17,700	6,400	3,770
2	4,470	5,290	4,610	4,170	3,590	3,770	4,340	11,900	34,100	17,100	6,340	4,120
3	4,410	5,080	4,630	4,260	3,630	3,750	4,770	11,100	31,200	16,700	6,380	4,840
4	4,360	5,210	4,740	3,920	4,120	3,720	5,480	10,700	29,700	15,900	6,720	4,680
5	4,320	5,900	4,720	3,480	4,240	3,730	6,890	11,400	27,500	14,600	6,640	4,460
6												
7	4,320	6,690	4,570	3,080	4,290	3,750	8,080	14,000	25,900	14,500	6,320	4,220
8	4,390	6,420	4,320	3,300	4,310	3,700	7,860	17,600	25,300	14,100	6,140	4,070
9	4,460	5,780	4,140	3,300	4,340	3,620	7,600	19,700	25,200	13,200	5,960	3,920
10	4,390	5,390	4,430	2,970	4,320	3,670	7,250	19,800	26,000	12,800	5,780	3,810
11	4,360	5,420	4,170	2,880	4,190	4,020	6,650	19,400	29,500	11,900	5,670	3,730
12	4,750	5,440	3,420	2,760	4,070	4,240	6,680	20,000	30,300	12,000	5,480	3,650
13	5,400	5,360	2,840	2,780	3,880	4,340	7,020	21,400	33,500	11,500	5,290	3,610
14	5,670	5,290	2,850	2,880	3,830	4,190	7,690	25,800	34,100	10,900	5,140	3,640
15	5,260	5,250	2,900	3,070	3,730	3,860	7,590	27,700	32,400	10,300	5,140	3,600
16	4,970	5,100	3,030	3,170	3,860	3,590	7,190	32,700	30,100	9,860	5,310	3,500
17												
18	4,840	4,990	3,040	3,510	3,860	3,400	6,660	34,800	30,300	9,510	5,140	3,660
19	4,790	4,900	3,240	3,720	3,830	3,880	6,280	34,200	29,100	9,050	4,890	3,680
20	4,790	4,920	3,800	3,750	3,770	4,240	5,940	35,400	26,900	8,670	4,680	4,090
21	4,770	4,970	4,000	3,860	3,780	4,340	5,740	31,600	25,200	8,400	4,620	4,200
22	4,740	4,990	4,360	3,970	3,720	4,390	5,740	28,500	24,000	8,240	4,410	4,220
23												
24	4,770	5,040	4,630	4,030	3,670	4,190	5,780	25,500	23,600	8,400	4,290	4,170
25	4,840	5,030	4,610	3,610	3,460	3,970	5,800	25,400	26,000	8,490	4,200	4,070
26	4,990	4,900	4,790	3,530	3,670	3,850	6,800	21,800	25,400	8,170	4,140	4,080
27	5,020	4,810	4,660	3,670	3,770	3,850	6,940	20,000	25,300	7,860	4,060	3,970
28	5,140	4,750	4,600	3,750	3,900	3,680	7,920	18,500	22,100	7,640	4,000	3,880
29												
30	5,230	4,650	4,480	3,880	3,900	3,860	8,370	17,900	22,400	7,400	3,990	3,810
31	5,310	4,380	4,450	3,780	3,850	3,700	8,290	18,500	21,900	7,120	3,990	3,750
32	5,310	4,020	4,000	3,590	3,850	3,560	8,880	20,100	21,900	6,890	3,970	3,700
33	5,460	4,190	3,510	3,500	3,780	3,510	9,780	23,000	21,000	6,790	3,900	3,700
34	5,990	4,660	3,620	3,170	-	3,640	11,000	27,700	19,100	6,750	3,860	3,810
35	6,000	-	3,300	3,260	-	3,680	-	33,500	-	6,590	3,800	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October	161,890	6,000	4,380	4,900	301,300
November	154,360	6,590	4,080	5,145	306,800
December	125,030	4,850	2,940	4,033	248,000
Calendar year 1943	5,785,150	72,600	2,840	15,850	11,470,000
January	108,280	4,260	2,760	3,493	214,800
February	112,710	4,340	3,450	3,887	222,600
March	119,840	4,390	3,400	3,866	237,700
April	208,180	11,000	4,100	6,939	412,900
May	694,000	34,800	10,700	22,060	1,357,000
June	811,400	36,500	19,100	27,050	1,609,000
July	328,920	17,700	6,580	10,610	652,400
August	156,530	6,720	3,800	6,049	310,600
September	117,790	4,690	3,600	3,928	283,600
Water year 1943-44	5,078,930	36,500	2,760	8,412	6,107,000

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Alturas Lake Creek near Obsidian, Idaho

Location.- Water-stage recorder, lat. 43°56', long. 114°50', in SW $\frac{1}{4}$ sec. 9, T. 7 N., R. 14 E., 1 mile downstream from outlet of Perkins Lake, $\frac{1}{2}$ miles downstream from outlet of Alturas Lake, and 4 miles south of Obsidian.

Drainage area.- 35.7 square miles.

Records available.- November 1940 to September 1944.

Extremes.- Maximum discharge during year, 249 second-feet May 17 (gage height, 3.93 feet); minimum recorded, 11 second-feet Sept. 15, 16 (gage height, 1.89 feet), but may have been less during winter period.
1940-44: Maximum discharge, 612 second-feet May 31, 1943 (gage height, 5.30 feet); minimum recorded, that of Sept. 15, 16, 1944, but may have been less during winter periods.

Remarks.- Records good except those for Dec. 8 to Apr. 10, which are poor. No diversion or regulation above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	26	20					42	230	168	37	14
2	23	24	20					42	224	166	36	14
3	23	24	20					44	220	166	36	14
4	22	29	19					49	199	143	34	13
5	22	33	19					54	179	138	33	13
6	22	31	19				20	62	170	130	31	13
7	22	30	19	(*)				74	168	121	30	14
8	22	28						87	187	112	28	13
9	22	27						97	206	104	27	13
10	22	27						104	199	97	26	13
11	28	26					20	112	187	92	26	13
12	28	26	15				23	119	174	86	23	13
13	27	*25					23	137	168	81	23	13
14	26	24					23	165	165	77	21	12
15	26	23				18	23	199	165	73	20	12
16	24	23		20	19		24	230	184	69	19	12
17	23	23	19				23	244	182	66	19	13
18	22	23	20				23	242	153	62	18	13
19	22	23	21				22	218	160	60	17	13
20	21	23	21				23	189	158	60	17	13
21	22	23	20				23	168	164	58	16	13
22	21	25	19				22	156	165	57	16	12
23	22	22	21				22	149	164	56	16	12
24	23	22	20				23	167	166	51	16	12
25	23	22	20				24	128	177	49	16	12
26	23	21					25	123	190	47	15	12
27	23	20					26	125	201	44	15	13
28	31	20	19				28	133	196	42	15	13
29	31	20				*18	30	146	182	41	14	13
30	30	20				18	36	177	171	39	13	13
31	28	-				18	-	211	-	38	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	746	31	21	24.1	0.675	0.79	1,480
November	731	33	20	24.4	.683	.76	1,460
December	593	21	-	19.1	.535	.62	1,180
Calendar year 1943	41,264	600	-	113	3.17	43.00	81,840
January	620	-	-	20.0	.660	.65	1,230
February	551	-	-	19.0	.532	.57	1,090
March	558	-	-	18.0	.504	.58	1,110
April	685	35	-	22.6	.639	.71	1,360
May	4,163	244	49	134	3.75	4.54	8,260
June	5,404	230	150	180	5.04	5.83	10,720
July	2,583	168	38	85.3	2.33	2.69	5,120
August	685	37	13	22.1	.619	.71	1,360
September	386	14	12	12.6	.364	.40	766
Water year 1943-44	17,705	244	-	48.4	1.35	18.44	35,130

* Winter discharge measurement made on this day.

Notes.- Datum correction uncertain Dec. 8 to Apr. 10 and stage-discharge relation affected by ice Nov. 27; Dec. 6, Dec. 8-20, Dec. 26 to Mar. 30 (no gage-height record Jan. 12 to Mar. 23); discharge computed on basis of 2 discharge measurements; gage heights not affected by ice but corrected by assumed datum corrections, weather records, and records for stations on nearby streams.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Valley Creek at Stanley, Idaho

Location.— Staff gage, lat. 44°13', long. 114°56', in sec. 3, T. 10 N., R. 13 E., a quarter of a mile upstream from mouth, three-eighths of a mile downstream from upper Stanley, and three-quarters of a mile upstream from lower Stanley.

Drainage area.— 176 square miles.

Records available.— December 1910 to October 1913, May 1921 to September 1944.

Average discharge.— 24 years (1911-13, 1922-44), 182 second-feet.

Extremes.— Maximum discharge observed during year, 598 second-feet June 3 (gage height, 2.48 feet); minimum observed, 61 second-feet Mar. 28 (gage height, 1.02 feet).
1910-13, 1921-44: Maximum discharge observed, 1,850 second-feet May 29, 1921 (gage height, 4.4 feet), from rating curve extended above 1,300 second-feet; minimum, 40 second-feet (estimated) Nov. 17-30, 1929, Dec. 8-13, 1932.

Remarks.— Records fair except those for Mar. 26 to May 25, which are poor. Gage read three times weekly except during spring runoff when it is read once daily. Diversions above station for irrigation.

Rating table, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.0	58	2.1	385
1.2	94	2.4	550
1.5	164	2.7	750
1.8	260		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	124	131	104	a100	a78	94	a80	215	532	376	a145	77
2	a124	a130	a115	a100	81	a94	a86	a200	508	400	151	a80
3	a123	136	113	96	a84	a90	92	232	598	380	a140	a85
4	122	a200	a100	a80	86	92	a96	a237	520	344	133	79
5	a121	232	a105	90	a88	a91	100	242	474	311	a125	a79
6	120	a150	b90	a95	a90	90	a95	a275	354	284	a120	79
7	a118	a100	a85	a90	92	a85	a95	a280	354	.279	115	a79
8	117	104	100	a85	a91	88	124	280	448	246	a110	79
9	a117	a150	a90	a87	90	a89	a140	a280	568	242	107	a78
10	a117	154	b78	a89	a86	90	a160	284	520	250	a104	a76
11	182	a144	a84	a90	b85	a90	a175	a400	484	236	100	75
12	a157	133	a84	92	a85	94	a175	a450	508	228	a96	a75
13	133	a122	84	a82	b85	a85	a155	a500	452	215	a92	75
14	a128	a122	a84	92	a85	a90	136	a520	390	209	88	a75
15	124	133	84	a86	a85	98	a128	452	474	209	a88	75
16	a123	a125	a82	81	b85	a100	a120	a430	452	190	88	a82
17	a121	117	81	a80	a85	a100	111	484	412	178	a86	a88
18	120	a106	a85	a78	b80	96	a114	514	390	176	84	84
19	a120	96	a92	77	a70	a90	117	508	395	173	a84	a84
20	120	a96	92	a74	a77	84	a115	400	390	196	a84	.88
21	a123	a96	a97	a76	84	a88	a125	354	380	190	84	a88
22	126	96	102	77	a81	92	138	354	376	a182	a82	88
23	a126	a110	a100	a81	88	a96	a200	311	362	a175	81	a86
24	a140	107	90	81	a90	a85	264	294	358	167	a79	a85
25	138	a100	a90	a80	92	88	a235	279	400	a160	77	a84
26	a136	94	a90	79	a92	a88	206	271	430	156	a76	a82
27	133	a96	b80	a75	a92	a70	a230	287	496	a160	a76	a79
28	a200	a100	a96	73	92	71	260	311	400	151	75	79
29	190	100	92	a74	a98	a73	a275	327	380	a143	a75	81
30	a170	a100	a95	a74	-	e75	a290	400	354	a140	75	81
31	a150	-	98	75	-	a77	-	508	-	141	a74	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches	Acres-feet
October	4,182	200	117	134	0.761	0.88	8,260
November	3,686	232	94	123	.699	.78	7,310
December	2,962	115	78	92.3	.524	.60	5,680
Calendar year 1943	117,262	1,300	76	321	1.82	24.78	232,600
January	2,600	100	73	83.9	.477	.55	5,160
February	2,496	98	70	86.1	.489	.53	4,950
March	2,743	100	70	88.5	.503	.58	5,440
April	4,637	280	80	185	.881	.98	9,200
May	10,919	520	200	352	2.00	2.31	21,660
June	13,187	598	354	439	2.49	2.78	26,100
July	6,897	400	140	222	1.26	1.46	13,680
August	2,994	151	74	96.6	.548	.63	5,940
September	2,425	88	75	80.8	.459	.51	4,810
Water year 1943-44	59,578	598	70	163	.926	12.59	118,200

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated or computed on basis of weather records and records for nearby stations.

b Stage-discharge relation affected by ice.

c Gage reading not representative of average for day; discharge computed on basis of weather records and records for stations on nearby streams.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Yankee Fork Salmon River near Clayton, Idaho

Location.— Water-stage recorder, lat. 44°17', long. 114°44', in sec. 17, T. 11 N., R. 15 E., half a mile upstream from mouth and 17 miles west of Clayton.

Drainage area.— 195 square miles.

Records available.— May 1921 to September 1944.

Average discharge.— 21 years (1922-24, 1925-44), 188 second-feet.

Extremes.— Maximum discharge during year, 900 second-feet May 16; maximum gage height, 4.25 feet Dec. 18 (ice jam); minimum discharge not determined, probably occurred during period of ice effect.

1921-44: Maximum discharge, 3,360 second-feet June 12, 1921 (gage height, 6.79 feet, site and datum then in use), from rating curve extended above 2,300 second-feet; minimum, 10 second-feet (estimated) Dec. 5, 6, 1927.

Remarks.— Records good except those for periods of ice effect, which are poor. No diversion or regulation above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	89	64	35	65			55	263	775	468	146	77
2	89	70	88	65			60	213	705	445	166	57
3	89	88	80	65			70	185	682	408	143	92
4	88	105	64	60			76	205	639	351	134	84
5	89	131	78	62			100	306	618	390	128	80
6	95	90	50	65			112	423	639	361	124	77
7	92	65	65				104	457	639	332	118	75
8	90	90	65		60		94	464	705	314	115	74
9	89	98	65	(*)			85	464	775	303	112	73
10	88	94					75	433	750	290	109	72
11	100	95					72	455	775	273	107	71
12	98	91					77	500	775	263	104	70
13	92	90				55	73	613	800	249	101	70
14	89	*85					76	750	775	235	100	70
15	88	83	60				72	850	775	226	100	72
16	89	78					70	825	728	216	99	74
17	89	86					69	775	682	205	96	65
18	89	89					66	705	639	199	94	77
19	90	88		60			64	613	618	199	87	76
20	85	85					62	542	660	203	90	74
21	91	83	65				59	510	639	197	89	72
22	90	69					64	500	598	185	88	72
23	87	89			50		81	461	579	179	87	70
24	95	82	64		(*)		100	435	579	170	85	70
25	94	72	64				102	408	579	164	84	69
26	94	50	62				107	408	618	159	84	68
27	92	60	55				118	464	598	170	83	67
28	116	80	55			*50	131	542	524	159	81	h66
29	113	80	55				140	660	484	146	80	69
30	104	85	60				218	800	468	141	80	68
31	96	-	65				-	825	-	143	77	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	2,879	116	87	92.9	0.476	0.56	5,710
November	2,525	131	50	84.2	.432	.48	5,010
December	1,980	88	-	63.9	.328	.38	3,930
Calendar year 1943	139,610	2,330	-	382	1.96	26.63	276,900
January	1,882	-	-	60.7	.311	.36	3,750
February	1,800	-	-	55.2	.283	.31	3,170
March	1,676	-	-	54.0	.277	.32	3,530
April	2,657	218	55	88.6	.454	.51	5,270
May	16,090	850	183	519	2.66	3.07	31,910
June	19,820	800	468	661	3.39	3.78	39,310
July	7,773	468	141	251	1.29	1.48	15,420
August	3,191	166	77	103	.528	.61	6,330
September	2,219	92	86	74.0	.379	.42	4,400
Water year 1943-44	64,291	850	-	176	.903	12.27	127,500

* Winter discharge measurement made on this day.

h Discharge computed from staff-gage reading.

Note.— Stage-discharge relation affected by ice Nov. 27 to Dec. 1, Dec. 8-23, Dec. 27 to Apr. 3 (no gage-height record Dec. 20-23, Jan. 10 to Apr. 3); discharge computed on basis of weather records, 2 discharge measurements, and difference in flow between stations on Salmon River below Yankee Fork and below Valley Creek.

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

Challis Creek near Challis, Idaho

Location.- Staff gage, lat. 44°34', long. 114°19' in sec. 2, T. 14 N., R. 18 E., an eighth of a mile downstream from Eddy Creek, 6 miles northwest of Challis, and 6½ miles upstream from mouth. After Sept. 27, recording gage at same site and datum.

Drainage area.- 85 square miles.

Records available.- October 1943 to September 1944.

Extremes.- Maximum discharge observed during year, 201 second-feet June 14, 15 (gage height, 1.78 feet); minimum, not determined, probably occurred during period of ice effect.

Remarks.- Records fair except those for periods of ice effect or unreliable gage-height record, which are poor.

Rating table, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Aug. 21-24)

0.1	12	0.8	54
.2	15	1.0	76
.5	19	1.2	104
.4	24	1.5	152
.6	37	1.8	206

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25		25		14		19	20	129	135	52	31
2	24		21		15	15	19	19	119	122	58	31
3			19		15		18	22	132	125	52	30
4			19		15		19	27	116	125	47	29
5			19		15	15	19	31	116	125	45	29
6		25			14		19	30	119	119	43	28
7					14		19	30	116	119	42	28
8				15	14	15	18	34	152	119	40	24
9			17		14		19	31	166	110	42	24
10					14		18	36	152	104	39	26
11							19	34	162	104	37	23
12		22				16	19	36	166	95	36	24
13							19	37	191	79	39	23
14							19	74	201	61	39	25
15	24	*21			13		19	92	201	79	37	24
16						17		110	194	76	34	26
17						19		113	187	74	34	25
18		22				19		116	169	76	36	28
19						21		116	176	69	36	29
20				(*)		19		92	169	71	35	29
21			15		14	19		84	169	74	35	28
22					14	20		81	162	76	33	28
23					14	19	19	74	152	76	32	28
24		20		14	*14	19		76	149	64	31	28
25					15	19		74	149	62	30	26
26					15	18		69	155	62	30	23
27					15	18		79	152	62	29	24
28		22			15	18		79	145	58	29	24
29	27	24			16	*19		79	135	56	29	24
30		25			-	20	18	113	135	50	29	25
31		-			-	19	-	135	-	54	29	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches	Runoff Acres-feet
October	757	-	-	24.4	0.287	0.33	1,500
November	658	-	-	21.9	.258	.29	1,310
December	503	-	-	16.2	.191	.22	998
Calendar year	-	-	-	-	-	-	-
January	449	-	-	14.5	.171	.20	891
February	406	-	-	14.0	.155	.18	805
March	533	-	-	17.2	.202	.23	1,060
April	565	-	-	18.8	.221	.25	1,120
May	2,043	135	19	65.9	.776	.89	4,060
June	4,636	201	116	155	1.82	2.05	9,200
July	2,701	135	50	27.1	1.02	1.18	5,340
August	1,157	59	29	37.3	.439	.51	2,290
September	788	31	23	26.3	.309	.34	1,560
Water year 1943-44	15,196	201	-	41.5	.488	6.65	50,140

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 16, 26, 27, Dec. 6 to Feb. 1, Feb. 11-25, Mar. 1-4, 6-16, 26-29. Gage-height record considered unreliable Oct. 3 to Nov. 14, Nov. 17-25, Apr. 16-29; discharge computed on basis of weather records and records for stations on nearby streams.

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

Pahsimeroi River near May, Idaho

Location.— Staff gage, lat. 44°42', long. 114°03', in W¹/₂ sec. 25, T. 16 N., R. 20 E., a quarter of a mile downstream from old highway bridge on Challis-Salmon River highway, a quarter of a mile upstream from mouth, and 10 miles northwest of May. Datum of gage is 4,636.95 feet above mean sea level, adjustment of 1912.

Records available.— October 1929 to September 1944.

Average discharge.— 14 years (1930-44), 191 second-feet.

Extremes.— Maximum discharge observed during year, 363 second-feet Oct. 29 (gage height, 2.51 feet); minimum observed, 118 second-feet May 16.

1929-44: Maximum discharge observed, 454 second-feet May 30, 1943 (gage height, 2.61 feet); minimum observed, 75 second-feet Apr. 28, 1934.

Remarks.— Records good. Gage read once daily. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	240	344	348	262	258	303	258	230	166	217	224	185
2	240	341	352	262	262	303	254	235	165	a216	220	204
3	244	337	348	265	258	303	262	227	179	214	204	204
4	247	341	344	262	265	306	262	227	158	220	192	207
5	247	337	341	262	265	299	258	220	155	240	188	214
6	251	337	341	258	272	295	258	198	160	224	185	a212
7	a251	337	329	251	276	287	254	179	168	214	173	a210
8	251	337	337	258	287	291	262	165	214	227	176	a209
9	251	333	325	254	275	295	269	148	204	217	166	207
10	254	341	314	254	276	295	262	143	192	235	158	207
11	254	341	306	251	284	284	262	139	224	240	a159	210
12	258	333	299	262	284	272	258	135	237	220	160	204
13	258	344	291	254	291	269	258	135	247	195	153	201
14	262	348	284	251	287	269	262	126	230	188	155	195
15	262	a346	269	254	287	265	269	122	258	188	150	201
16	262	344	269	258	280	269	269	118	251	179	150	210
17	265	352	265	251	280	272	265	126	237	173	155	233
18	a270	352	265	251	291	276	269	160	227	168	155	237
19	a275	348	265	247	291	284	262	158	230	182	155	230
20	280	348	269	258	284	276	262	150	240	176	150	230
21	287	344	272	262	276	272	258	148	230	171	155	235
22	299	341	269	258	272	265	258	141	198	179	153	235
23	306	341	272	251	280	266	247	146	204	173	158	230
24	314	341	272	251	280	258	240	141	217	168	163	a231
25	325	337	276	258	295	258	230	141	192	176	168	a232
26	337	333	276	254	295	258	235	139	230	179	179	233
27	344	337	280	258	299	262	230	132	227	a179	168	230
28	352	333	272	254	295	262	237	137	227	a179	168	227
29	363	333	262	254	295	269	230	137	220	179	176	227
30	366	341	265	251	-	265	233	165	217	176	179	224
31	348	-	272	251	-	265	-	176	-	182	179	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	8,755	363	240	282	17,560
November.....	10,222	352	333	341	20,280
December.....	9,149	332	262	295	18,150
Calendar year 1943.....	92,314	454	132	253	185,100
January.....	7,927	265	247	256	15,720
February.....	8,141	299	258	281	16,150
March.....	8,612	306	258	278	17,050
April.....	7,631	269	230	254	15,160
May.....	4,960	233	118	180	9,840
June.....	6,302	258	155	210	12,500
July.....	6,072	240	168	196	12,040
August.....	5,272	224	150	170	10,480
September.....	6,510	237	185	217	12,910
Water year 1943-44.....	89,551	363	118	245	177,600

a No gage-height record; discharge interpolated.

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

Middle Fork Salmon River near Cape Horn, Idaho

Location.— Water-stage recorder, lat. 44°25', long. 115°18', in sec. 34, T. 13 N., R. 11 E., 1.100 feet downstream from Little Beaver Creek, half a mile downstream from confluence of Marsh and Beaver Creeks, and 1½ miles northwest of Cape Horn.

Drainage area.— 138 square miles.

Records available.— September 1928 to September 1944 (no winter records 1941-44).

Average discharge.— 13 years (1928-41), 197 second-feet.

Extremes.— Maximum discharge during year, 930 second-feet May 15; maximum gage height recorded, 5.20 feet Dec. 14 (ice jam); minimum discharge recorded, 33 second-feet Mar. 30 (gage height, 2.13 feet), but may have been less during winter period.
1928-44: Maximum discharge, 2,340 second-feet June 9, 1933, and about May 31, 1943; maximum gage height, 6.26 feet June 9, 1933; minimum discharge recorded, that of Mar. 30, 1944, but may have been less during some winters.

Remarks.— Records good except those for Mar. 28 to May 15, which are fair, and those during periods of ice effect, which are poor. No diversion above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	103	98	98			-	59	266	769	353	145	94
2	103	101	96			-	62	225	686	325	143	103
3	101	101	98			-	73	229	785	305	141	105
4	101	123	-			-	85	288	595	282	136	98
5	99	174	-			-	92	385	556	295	132	92
6	103	121	-			-	94	501	551	279	127	90
7	101	111	-			-	98	575	547	256	121	89
8	99	119	-			-	99	570	559	244	117	87
9	99	113	-			-	98	620	642	244	115	85
10	107	115	-			-	101	556	610	259	113	85
11	155	115	-			-	109	575	696	235	113	85
12	125	109	-			-	117	595	564	223	109	83
13	113	92	-			-	107	570	615	215	107	83
14	105	b102	-			-	99	747	520	206	107	83
15	105	b101	-			-	94	840	620	198	109	86
16	103	b100	-			-	92	840	615	192	107	98
17	103	b103	-			-	89	840	551	187	106	103
18	103	103	-			-	87	840	506	179	101	96
19	106	106	-			-	85	714	493	185	101	96
20	101	109	-			-	87	620	497	209	99	94
21	109	106	-			-	87	575	528	190	99	90
22	111	101	-			-	99	547	493	177	98	90
23	109	101	-			-	117	497	467	172	96	89
24	117	101	-			-	141	467	441	167	96	87
25	123	96	-			-	136	446	453	162	96	85
26	127	b70	-			-	147	441	437	157	96	85
27	127	b75	-			-	169	471	467	155	94	83
28	177	101	-			*73	192	519	495	150	92	83
29	155	b90	-			60	230	595	366	147	92	85
30	134	94	-			56	263	747	344	143	90	85
31	115	-	-			54	-	780	-	143	89	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	3,538	177	99	114	0.826	0.95	7,020
November	3,149	174	70	106	.761	.85	6,250
December	-	-	-	-	-	-	-
Calendar year	-	-	-	-	-	-	-
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	3,398	263	59	113	.819	.92	6,740
May	17,532	940	226	587	4.11	4.74	34,870
June	16,578	769	344	553	4.01	4.47	32,960
July	6,612	333	143	213	1.54	1.78	13,110
August	5,386	145	89	109	.790	.91	6,720
September	2,694	105	83	89.8	.651	.73	5,340
Water year	-	-	-	-	-	-	-

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Bear Valley Creek near Cape Horn, Idaho

Location.- Water-stage recorder in about sec. 31, T. 13 N., R. 10 E., 250 feet downstream from Fir Creek, 5 miles upstream from mouth, and 7 miles northwest of Cape Horn.

Drainage area.- 180 square miles.

Records available.- September 1921 to September 1928 (fragmentary), October 1928 to September 1944 (No winter records 1941-44).

Average discharge.- 13 years (1928-41), 239 second-feet.

Extremes.- Maximum discharge during year, 1,080 second-feet May 13, 14 (gage height, 5.31 feet); minimum recorded, 66 second-feet Nov. 26 (gage height, 1.17 feet), but may have been less during winter.
1921-44: Maximum discharge, 3,450 second-feet June 9, 1933 (gage height, 5.49 feet), from rating curve extended above 2,000 second-feet; minimum recorded, 28 second-feet Nov. 11, 1931, but may have been less during some winters.

Remarks.- Records good except those for periods of ice effect, which are fair. No regulation or diversion above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	126	135	117			-	85	548	847	304	143	96
2	126	140	119			-	87	292	746	288	151	114
3	124	148	112			-	94	288	835	271	148	124
4	124	170	-			-	110	372	694	269	145	108
5	121	267	-			-	124	499	579	271	138	102
6	155	b10	-			-	128	639	550	267	128	98
7	148	b170	-			-	135	740	544	244	126	94
8	130	b175	-			-	133	780	657	235	124	92
9	128	b165	-			-	126	727	760	229	121	92
10	150	164	-			-	128	754	609	233	119	90
11	128	156	-			-	140	840	854	233	114	88
12	194	148	-			-	153	819	682	218	112	88
13	156	145	-			-	140	910	639	205	110	87
14	140	138	-			-	128	910	591	198	108	87
15	153	138	-			-	119	868	627	191	106	88
16	130	135	-			-	112	792	675	185	108	96
17	150	143	-			-	108	779	627	179	104	124
18	150	135	-			-	104	619	616	178	104	108
19	130	135	-			-	102	779	478	191	102	104
20	126	135	-			-	104	615	462	225	100	100
21	135	135	-			-	104	567	591	194	100	96
22	135	128	-			-	119	550	555	179	100	96
23	135	124	-			-	140	800	522	170	96	96
24	145	150	-			-	164	500	455	164	96	92
25	165	117	-			-	161	445	400	168	96	88
26	167	104	-			-	161	450	351	156	96	88
27	167	b115	-			-	188	462	400	161	96	87
28	208	b135	-			-	222	489	415	161	96	87
29	215	b120	-			-	85	259	553	148	92	87
30	182	b120	-			-	85	322	720	326	143	92
31	166	-	-			-	85	-	806	-	90	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	4,557	215	121	147	0.817	0.94	9,040
November	4,375	267	104	146	.811	.90	8,680
December	-	-	-	-	-	-	-
Calendar year	-	-	-	-	-	-	-
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	4,200	322	85	140	.778	.87	8,330
May	19,501	610	288	629	3.49	4.03	38,680
June	17,348	847	326	573	3.21	3.59	34,410
July	6,354	304	143	205	1.14	1.31	12,600
August	3,461	151	90	112	.682	.72	6,860
September	2,862	124	67	96.1	.534	.60	5,730
Water year	-	-	-	-	-	-	-

* Winter discharge measurement made this day.

b Stage-discharge relation affected by ice.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

South Fork Salmon River near Knox, Idaho

Location.- Water-stage recorder, lat. 44°39', long. 115°42', in NW¼ sec. 11, T. 15 N., R. 5 E., 800 feet downstream from Curtis Creek, 1 mile upstream from Warm Lake Creek, 1½ miles southwest of Knox, and 21 miles northeast of Cascade.

Drainage area.- 92 square miles.

Records available.- September 1928 to September 1944.

Average discharge.- 16 years, 126 second-feet.

Extremes.- Maximum discharge during year, 670 second-feet June 1 (gage height, 4.61 feet); minimum recorded, 22 second-feet Nov. 26, but may have been less at times during winter.

1928-44: Maximum discharge observed, 1,560 second-feet June 9, 1933 (gage height, 4.69 feet, site and datum then in use), from rating curve extended above 1,000 second-feet; minimum observed, 16 second-feet Feb. 17, Aug. 19, 20, 1931, but may have been less during a winter period.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are poor. No diversion above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	45	47				41	148	562	141	55	37
2	42	58	45			35	46	132	412	134	54	44
3	41	51	46	38			56	128	418	128	59	48
4	41	83	44				74	148	356	119	55	44
5	41	106	42			*36	94	176	336	121	52	40
6	54	61	40			35	90	219	323	115	49	38
7	49	45	45			33	90	247	314	104	49	36
8	45	48	*46			36	83	241	343	100	48	35
9	44	56				37	76	249	329	94	47	33
10	44	61				42	61	249	304	94	46	33
11	87	51				35	88	278	343	90	46	32
12	56	51				36	102	301	314	85	46	32
13	49	49	42			40	85	346	292	79	44	32
14	48	49				33	76	396	272	76	44	32
15	46	48				38	70	440	275	72	44	33
16	45	48			35	39	65	432	307	67	44	44
17	45	48				39	62	416	263	64	42	49
18	46	48				38	61	385	241	62	42	40
19	46	48		*36		39	59	363	238	62	41	40
20	45	51	46			37	62	317	225	72	41	38
21	47	48				35	62	304	247	72	41	36
22	48	47	47			34	77	289	258	70	40	36
23	48	46	45			37	88	258	238	69	39	36
24	52	47	45			38	117	241	211	67	39	35
25	58	46	45			36	111	236	201	62	39	34
26	56	36	45			34	104	241	196	61	39	34
27	54	45				34	113	261	196	61	39	33
28	74	49				32	123	284	183	59	39	33
29	65	52	42			35	132	329	164	56	37	33
30	58	47				38	146	424	152	58	37	54
31	51	-				39	-	432	-	55	36	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches	Acres
October	1,563	87	41	50.4	0.548	0.63	2,700
November	1,568	106	36	52.3	.568	.63	3,110
December	1,358	-	-	43.8	.476	.55	2,890
Calendar year 1943	82,046	1,380	-	225	2.46	33.15	162,700
January	1,126	-	-	36.3	.395	.46	2,230
February	1,015	-	-	36.0	.380	.41	2,010
March	1,126	-	-	36.3	.395	.46	2,230
April	2,534	146	41	84.5	.918	1.02	5,030
May	8,910	440	128	287	3.12	3.60	17,870
June	8,511	562	152	284	3.09	3.44	16,880
July	2,569	141	56	82.9	.901	1.04	5,100
August	1,373	59	36	44.3	.482	.56	2,720
September	1,106	49	32	36.9	.401	.46	2,190
Water year 1943-44	32,759	562	-	89.5	.973	13.25	64,960

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Nov. 7, 8, 15, 16, 27, Dec. 5-7, 9-21, Dec. 27 to Mar. 4; Mar. 6-8, 11-15, 21, 22, 25-30 (no gage-height record Jan. 6-17, 25, Feb. 3 to Mar. 4; discharge computed on basis of 2 discharge measurements, weather records, and records for Johnson Creek at Yellow Pine and Seeseh River near Burdick).

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Johnson Creek near Landmark ranger station, Idaho

Location.— Water-stage recorder, lat. 44°41', long. 115°33', in sec. 31, T. 16 N., R. 8 E., 0.5 mile downstream from Bob Cat Creek, 0.8 mile upstream from Lunch Creek, 1½ miles north of Landmark ranger station, and 20 miles south of Yellow Pine.

Drainage area.— 54.7 square miles.

Records available.— October 1942 to September 1944.

Extremes.— Maximum discharge during year, 453 second-feet May 15 (gage height, 3.93 feet); minimum not determined, probably occurred during period of ice effect; minimum gage height recorded, 1.79 feet Nov. 25.
1942-44: Maximum discharge, 610 second-feet May 28, 1943 (gage height, 5.09 feet), from rating curve extended above 450 second-feet; minimum observed, 7.8 second-feet Feb. 6, 1943, discharge measurement; minimum gage height recorded, that of Nov. 25, 1943.

Remarks.— Records good except those for period of ice effect, which are poor. During late fall of 1936, the Bureau of Reclamation cut a transmountain canal to divert a small flow from a tributary of Johnson Creek to Deadwood River Basin to supplement storage in Deadwood Reservoir. Discharge measurement of June 1 indicated flow in this canal of 24.1 second-feet.

Rating table, water year 1943-44, except period of ice effect
(gage height, in feet, and discharge, in second-feet)

1.8	9	2.2	47	3.0	194
1.9	15	2.4	76	3.4	296
2.0	24	2.7	130	3.9	444

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14							91	348	91	30	13
2	14							84	280	83	30	18
3	13							97	288	78	37	20
4	13							132	243	73	32	16
5	14							187	226	79	27	14
6	14	20	13					243	216	74	25	14
7	15							280	216	87	24	13
8	14							277	256	61	24	13
9	14		(*)					302	264	60	23	13
10	15							325	228	62	20	13
11	33							366	269	60	20	13
12	26							366	259	53	19	12
13	20	18						360	230	50	18	12
14	13							402	213	46	13	12
15	17							411	213	45	18	13
16	17			11	10	10		567	238	42	18	17
17	16			(*)				381	201	40	17	21
18	*17	16						384	178	39	16	17
19	18							27	342	178	41	15
20			11					26	291	167	56	14
21								28	272	182	43	14
22	18					(*)		31	259	182	41	14
23								39	226	165	39	14
24								43	206	146	36	14
25								41	192	164	34	14
26		14						42	192	128	33	14
27	20							48	204	136	34	14
28								57	223	132	40	13
29								67	243	111	33	13
30								81	342	100	31	13
31								325		30	13	

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	553	33	13	17.8	0.325	0.38	1,100
November	510	-	-	17.0	.311	.35	1,010
December	367	-	-	11.5	.210	.24	708
Calendar year 1943	42,041	775	-	115	2.10	28.60	83,390
January	341	-	-	11.0	.201	.23	676
February	290	-	-	10.0	.183	.20	575
March	310	-	-	10.0	.183	.21	615
April	992	81	-	33.1	.605	.67	1,970
May	8,422	411	84	272	4.97	5.73	16,700
June	6,127	348	100	204	3.73	4.17	12,150
July	1,593	81	30	51.4	.940	1.08	3,160
August	596	37	13	19.2	.351	.41	1,180
September	424	21	12	14.1	.258	.29	841
Water year 1943-44	20,515	411	-	56.1	1.03	13.96	40,680

* Winter discharge measurement made on this day.
Note.— Stage-discharge relation affected by ice Oct. 20 to Apr. 17 (no gage-height record Dec. 2-8, Dec. 15 to Jan. 16; discharge computed on basis of 3 discharge measurements, weather records, and records for station at Yellow Pine and other nearby stations).
Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Johnson Creek at Yellow Pine, Idaho

Location.- Water-stage recorder, lat. 44°58', long. 115°30', in NE¼ sec. 29, T. 19 N., R. 8 E., 700 feet upstream from mouth and a quarter of a mile southwest of Yellow Pine post office.

Drainage area.- 213 square miles.

Records available.- August 1928 to September 1944.

Average discharge.- 16 years, 297 second-feet.

Extremes.- Maximum discharge during year, 1,470 second-feet May 15 (gage height, 4.09 feet); minimum, 36 second-feet Mar. 14 (gage height, 0.86 foot).
1928-44: Maximum discharge, 5,150 second-feet June 9, 1933 (gage height, 7.62 feet), from rating curve extended above 2,800 second-feet; minimum, 22 second-feet Nov. 30, 1933; minimum gage height, 0.70 foot Nov. 30, 1937.

Remarks.- Records good. Small diversion from Johnson Creek Basin to Deadwood River Basin (See Remarks for station near Landmark ranger station).

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Jan. 6, May 6 to June 25)

1.0	51	2.0	296
1.2	60	2.3	418
1.5	141	2.6	560
1.7	196		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82	80	67	85	70	66	77	546	1,240	367	118	66
2	82	87	85	85	70	66	84	296	1,000	348	114	75
3	80	93	84	86	70	64	94	304	938	519	127	93
4	80	108	84	64	72	69	112	375	672	304	125	80
5	60	162	84	85	70	70	130	505	810	304	114	74
6	82	116	54	82	77	67	127	665	774	304	108	69
7	84	96	84	69	77	60	132	760	780	274	104	67
8	82	106	91	75	74	70	130	774	840	253	100	64
9	80	108	60	74	74	70	125	610	938	244	98	63
10	82	106	58	74	69	74	127	840	810	244	94	61
11	130	104	70	72	70	67	134	938	905	234	91	61
12	130	102	70	74	69	69	151	1,000	905	221	89	60
13	108	102	69	74	67	72	144	1,140	810	205	85	60
14	96	96	69	75	70	58	136	1,240	756	196	89	59
15	91	95	69	77	66	70	127	1,320	756	187	67	63
16	89	91	69	77	70	74	125	1,240	810	179	85	67
17	87	94	75	77	69	72	120	1,240	714	170	82	62
18	89	94	80	78	67	72	114	1,180	654	162	80	62
19	83	96	82	78	66	74	114	1,070	636	162	78	77
20	85	98	85	77	60	72	116	906	695	202	75	74
21	91	94	64	77	70	70	114	672	628	179	75	72
22	91	84	80	75	67	70	127	840	643	164	74	70
23	89	87	82	77	67	72	149	732	605	154	72	70
24	96	94	80	78	67	70	179	665	545	149	70	69
25	100	64	84	77	67	69	176	643	506	141	69	67
26	104	60	82	72	67	70	170	670	486	134	70	64
27	104	63	66	67	66	67	193	732	506	150	70	64
28	120	91	63	69	64	67	224	610	477	132	69	63
29	126	60	76	75	67	70	253	672	427	132	67	64
30	116	85	69	70	-	74	315	1,140	392	125	66	67
31	104	-	85	69	-	74	-	1,140	-	118	66	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	2,952	130	80	95.2	0.447	0.52	5,860
November	2,659	162	60	95.3	.447	.50	5,670
December	2,382	91	54	78.8	.361	.42	4,720
Calendar year 1943	177,034	3,030	54	468	2.28	30.95	351,200
January	2,324	85	64	75.0	.358	.41	4,610
February	1,999	77	60	68.9	.323	.36	3,960
March	2,149	74	58	69.3	.325	.38	4,260
April	4,519	315	77	144	.676	.75	8,570
May	26,084	1,320	296	841	3.95	4.55	61,740
June	21,726	1,240	392	724	3.40	3.79	43,090
July	6,427	367	118	207	.972	1.12	12,760
August	2,709	127	66	87.4	.413	.47	5,370
September	2,067	93	69	68.9	.323	.36	4,100
Water year 1943-44	77,997	1,320	54	213	1.00	13.62	154,700

Time basis. Mountain war time. To convert war time to standard time, subtract 1 hour.

Secesh River near Burgdorf, Idaho

Location.- Water-stage recorder, lat. 45°14', long. 115°49', in N $\frac{1}{2}$ sec. 23, T. 22 N., R. 5 E., at highway bridge, $1\frac{1}{2}$ miles upstream from Long Gulch Creek and $5\frac{1}{2}$ miles southeast of Burgdorf.

Drainage area.- 102 square miles.

Records available.- April 1943 to September 1944.

Extremes.- Maximum discharge during year, 825 second-feet May 14 (gage height, 5.93 feet); minimum not determined, probably occurred during winter period.

1943-44: Maximum discharge observed, 1,460 second-feet May 31, 1943 (gage height, 6.92 feet), from rating curve extended above 1,000 second-feet; minimum not determined, probably occurred during winter period.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are poor.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Nov. 20)

3.5	33	4.6	225
3.7	54	5.0	357
4.0	96	5.4	533
4.3	153	5.8	748

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	52					38	207	599	231	75	47
2	51	62					40	162	495	220	75	80
3	51	58	60	45			45	166	497	209	80	66
4	50	68					55	220	418	199	75	57
5	52	93					70	300	406	199	70	53
6	55	68					68	397	401	187	67	50
7	53	60					66	423	414	180	66	47
8	51	60					65	393	414	168	63	45
9	52	68					65	385	393	162	63	44
10	54	71					65	385	401	155	60	43
11		63	50				70	436	586	147	59	43
12	126	63					80	490	495	140	58	43
13	71	60					75	563	449	134	57	42
14	63	66					70	642	389	128	75	43
15	60	58				37	64	702	389	122	68	53
16	69	54				37	59	686	462	117	60	58
17	63	55					57	615	365	111	58	66
18	66	56					56	568	342	108	54	63
19	60	56					55	523	342	108	54	66
20	58	58	55				53	440	310	119	53	62
21	59	56					53	427	357	106	52	58
22	59	53					66	389	519	101	50	59
23	62	55					84	346	431	99	48	55
24	62	56					103	327	350	98	47	51
25	73	41					99	a310	320	94	46	46
26	74	41					90	a325	327	92	50	46
27	68	50					106	a350	385	87	47	45
28	68	65	50			(*)	145	a400	317	86	45	44
29	67	60					192	a450	276	86	44	50
30	67	60					237	e580	254	82	44	54
31	59	-					-	599	-	78	42	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches. Acre-feet
October	1,957	126	50	63.1	0.619	0.71 3,880
November	1,775	93	41	59.2	.580	.65 3,620
December	1,650	-	-	55.2	.522	.60 3,270
Calendar year	-	-	-	-	-	-
January	1,265	-	-	40.8	.400	.46 2,510
February	1,073	-	-	37.0	.363	.39 2,130
March	1,147	-	-	37.0	.363	.42 2,280
April	2,391	237	38	79.7	.781	.87 4,740
May	13,215	702	162	426.	4.18	4.82 26,210
June	12,075	599	254	402	3.94	4.40 23,950
July	4,153	231	78	134	1.31	1.51 8,240
August	1,807	80	42	58.3	.572	.66 3,580
September	1,581	80	42	52.7	.517	.58 3,140
Water year 1943-44	44,090	702	-	120	1.18	16.07 87,450

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for stations on nearby streams.

c Gage height not representative of average for day; discharge computed from partly-estimated gage height.

Note.- Stage-discharge relation affected by ice Nov. 17, 18, Nov. 21 to Apr. 14, Apr. 18 (no gage-height record Dec. 14-20, 22-26, Dec. 28 to Jan. 2, Jan. 4-9, 11-16, 18, 23-31, Feb. 2-17, Feb. 19 to Mar. 9, Mar. 10-26, Apr. 9; discharge computed on basis of 2 discharge measurements, weather records, and records for stations on nearby streams.

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

SALMON RIVER BASIN

Warren Creek near Warren, Idaho

Location.- Water-stage recorder, lat. 45°17', long. 115°42', in sec. 3, T. 22 N., R. 6 E., 30 feet downstream from bridge on Warren-McCall road, a tenth of a mile downstream from Steamboat Creek, and 1.3 miles northwest of Warren. Prior to Aug. 18, 1943, staff gage 60 feet downstream at same datum.

Drainage area.- 37 square miles.

Records available.- February 1943 to September 1944.

Extremes.- 1943: Maximum discharge observed during period February to September, 790 second-feet May 27 (gage height, 5.37 feet, site then in use), from rating curve extended above 350 second-feet; minimum observed, 10 second-feet several days during February, March, and September.
1943-44: Maximum discharge during water year, 211 second-feet June 12 (gage height, 4.52 feet); minimum, 4.2 second-feet Dec. 27 (gage height, 2.31 feet).

Remarks.- Records good except those for Feb. 17 to Aug. 17, 1943, which are fair, and those for Apr. 18 to June 1, 1944, which are poor. Gage read once daily Feb. 17 to May 22, July 16 to Aug. 6, Aug. 14, 1943, and twice daily May 23 to July 15, Aug. 17, 1943. No diversion or regulation above station. Small amount of flow bypasses station through debris from dredging operations.

Rating tables, Feb. 17, 1943, to Sept. 30, 1944 (gage height, in feet,
and discharge, in second-feet)
(Shifting-control method used Feb. 17 to Apr. 17, Aug. 18 to Nov. 6, 1943,
Sept. 14-30, 1944)

Feb. 17 to Aug. 17, 1943				Aug. 18, 1943, to Sept. 30, 1944			
2.5	8	3.7	138	2.4	5.5	3.3	42
2.7	15	4.0	214	2.5	7.5	3.6	64
2.9	27	4.5	388	2.6	10	3.8	93
3.1	44	5.0	609	2.8	16	4.0	109
3.4	82	5.2	706	3.0	25	4.3	163

Discharge, in second-feet, 1943-44

1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					-	12	25	154	548	226	35	18
2					-	11	35	168	525	208	31	17
3					-	11	41	189	396	232	28	16
4					-	11	44	267	357	217	26	15
5					-	12	41	251	284	214	25	14
6					-	12	46	235	251	197	24	14
7					-	11	51	235	220	176	a24	14
8					-	12	69	178	192	159	a23	13
9					-	11	67	159	166	150	a22	13
10					-	11	64	150	178	138	a22	13
11					-	10	58	143	206	125	a23	13
12					-	10	75	132	267	109	a23	12
13					-	10	109	132	302	106	a22	12
14					-	11	166	128	338	98	24	12
15					-	10	192	121	291	88	a23	12
16					-	10	235	108	319	81	a30	12
17					10	10	267	108	345	78	33	11
18					10	10	338	111	338	78	19	11
19					11	11	357	123	365	75	19	12
20					10	11	338	128	392	72	18	12
21					11	10	302	188	334	69	18	12
22					10	10	251	188	365	64	18	11
23					12	10	229	244	380	62	18	11
24					13	10	214	349	316	58	18	11
25					12	10	200	548	291	54	18	11
26					11	11	178	595	257	52	17	10
27					11	12	168	691	257	50	16	10
28					12	18	154	706	274	45	15	10
29					-	24	145	643	281	41	15	10
30					-	26	154	595	257	40	20	10
31					-	24	-	548	-	38	22	-

a No gage-height record; discharge computed on basis of records for Seesh River near Burgdorf.

Discharge, in second-feet, of Warren Creek near Warren, Idaho, 1943-44--Continued

1943-44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	10	13	10	6.7	6.9	8.0	50	150	74	22	16
2	10	14	12	11	6.9	6.7	10	45	129	71	23	21
3	9.8	14	12	10	6.9	6.7	13	45	127	68	27	17
4	9.8	17	12	10	7.1	7.1	17	50	115	65	26	15
5	10	28	11	10	7.1	6.9	20	70	108	64	22	14
6	11	19	7.5	10	7.1	6.9	18	90	103	60	20	13
7	10	14	13	9.2	7.3	6.7	18	95	105	57	20	12
8	10	17	13	9.2	6.9	7.3	15	90	106	54	19	12
9	10	16	10	9.2	7.5	8.0	14	90	102	52	18	11
10	11	15	11	8.8	6.9	8.2	14	90	96	50	17	11
11	20	15	11	8.5	7.3	7.3	15	100	145	48	16	11
12	19	15	11	8.2	7.3	6.9	19	110	153	45	16	11
13	15	15	11	8.2	7.1	7.5	16	130	130	45	15	10
14	13	14	10	8.2	7.3	7.1	15	150	119	41	22	10
15	12	13	10	8.2	7.1	7.8	14	160	120	39	19	12
16	12	13	10	8.2	7.1	8.0	14	155	130	37	17	13
17	13	14	10	8.2	7.1	8.5	13	140	114	35	15	14
18	13	14	11	8.2	6.9	7.8	11	135	105	34	15	14
19	13	14	11	8.0	6.7	7.8	9	120	103	35	14	14
20	11	14	11	8.2	6.7	7.8	8	105	95	35	14	13
21	12	14	11	8.0	7.1	7.5	8	100	111	32	14	12
22	12	12	11	7.8	7.1	7.5	15	90	129	34	13	12
23	12	12	11	7.8	6.9	7.8	20	80	111	34	13	12
24	14	12	11	7.8	7.1	7.3	25	75	101	31	13	11
25	15	8.2	11	7.8	6.9	7.5	24	70	96	29	13	10
26	15	8.2	11	7.3	6.9	7.8	22	75	99	28	13	10
27	15	10	8.5	7.3	6.7	7.5	26	80	103	26	13	9.8
28	17	14	10	7.3	6.7	7.8	35	90	93	27	12	9.8
29	18	12	10	7.1	7.1	8.0	45	110	85	26	12	11
30	17	13	10	6.9	-	8.5	55	140	78	24	12	12
31	14	-	10	6.7	-	8.0	-	150	-	24	11	-

Note.- No gage-height record Mar. 18 to June 1; discharge computed on basis of recorded extremes of stage during period and records for Seesh River near Burgdorf.

Monthly discharge, in second-feet, 1943-44

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October							
November							
December							
Calendar year							
January	-	-	-	-	-	-	-
February 17-28, 1943	133	13	10	11.1	0.300	0.13	264
March	382	26	10	12.3	.332	.38	768
April	4,613	357	25	154	4.16	4.64	9,150
May	8,496	706	108	274	7.41	8.54	16,850
June	9,302	546	166	310	8.38	9.35	18,450
July	3,598	232	36	110	2.97	3.41	6,740
August	687	33	15	22.2	.600	.69	1,360
September	372	18	10	12.4	.355	.37	738
The period	-	-	-	-	-	-	54,300
October 1943	403.6	20	9.8	13.0	.351	.41	801
November	420.4	28	8.2	14.0	.378	.42	854
December	355.0	13	7.5	10.8	.292	.34	664
Calendar year							
January 1944	261.3	11	6.7	8.45	.228	.26	518
February	203.5	7.5	6.7	7.02	.190	.20	404
March	233.1	8.5	6.7	7.52	.203	.23	462
April	554	55	8	18.5	.500	.56	1,100
May	3,080	160	45	99.4	2.69	3.10	6,110
June	3,361	153	78	112	3.03	3.38	6,870
July	1,322	74	24	42.6	1.15	1.33	2,800
August	515	27	11	16.6	.449	.52	1,020
September	373.6	21	9.8	12.5	.338	.38	741
Water year 1943-44	11,062.5	160	6.7	30.2	.816	11.13	21,940

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Boulder Creek near Tamarack, Idaho

Location.- Water-stage recorder, lat. 45°05', long. 116°27', in SW¼ sec. 10, T. 20 N., R. 1 W., 350 feet upstream from transmountain diversion to Weiser River Basin and 8 miles northwest of Tamarack.

Drainage area.- 6.5 square miles.

Records available.- April 1938 to September 1944 (incomplete).

Extremes.- Maximum discharge during year, 53 second-feet May 20 (gage height, 1.67 feet); minimum not determined, probably occurred during winter, 1938-44; Maximum discharge, 244 second-feet May 23, 1942 (gage height, 2.96 feet), from rating curve extended above 50 second-feet; minimum not determined.

Remarks.- Records good. No regulation. Small diversion to Weiser River Basin about 350 feet below station.

Rating table, water year 1943-44 (gage height, in feet, and discharge, in second-feet)

0.7	0.8	1.0	6.1	1.3	21
.8	1.5	1.1	9.8	1.5	38
.9	3.2	1.2	14	1.7	56

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	2.2					-	20	25	6.1	2.0	1.8
2	1.3	2.2					-	19	23	7.2	1.8	1.5
3	1.3	2.4					-	21	26	6.1	2.0	1.4
4	1.3	2.4					-	25	27	5.8	1.8	1.3
5	1.3	-					-	34	25	5.5	1.8	1.2
6	1.3	-					-	43	21	5.2	1.8	1.2
7	1.3	-					-	47	23	4.9	1.7	1.2
8	1.3	-					-	46	25	4.8	1.7	1.2
9	1.3	-					-	44	23	4.6	1.7	1.2
10	1.5	-					-	41	22	4.4	1.5	1.2
11	4.6	-					-	35	20	4.4	1.5	1.2
12	2.0	-					-	39	19	4.1	1.5	1.2
13	1.6	2.2					-	37	19	3.8	1.4	1.2
14	1.7	2.2					-	34	17	3.5	1.5	1.2
15	1.5	2.4					-	34	16	3.5	1.4	1.2
16	1.5	2.4					-	35	18	3.2	1.4	1.4
17	1.4	2.0					-	36	16	3.0	1.4	1.4
18	1.4	1.8					-	42	14	2.9	1.4	1.4
19	1.4	1.8					-	47	14	2.9	1.4	1.3
20	1.6	1.8					-	50	13	2.7	1.4	1.2
21	4.2	1.8					4.6	47	14	2.7	1.4	1.3
22	7.2	1.8					5.2	42	14	2.5	1.3	1.4
23	16	-					6.1	37	12	2.5	1.3	1.3
24	17	-					7.6	32	11	2.8	1.3	1.2
25	5.0	-					9.1	31	9.8	2.4	1.3	1.2
26	2.7	-					11	28	9.4	2.2	1.3	1.2
27	1.8	-					14	29	9.8	2.2	1.3	1.2
28	1.8	-					17	28	8.7	2.2	1.2	1.2
29	1.8	-					19	28	8.0	2.4	1.2	1.2
30	1.8	-					20	29	7.6	2.2	1.2	1.2
31	2.4	-					-	29	-	2.0	1.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	97.0	17	1.3	3.13	0.482	0.56	192
November	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-
Calendar year	-	-	-	-	-	-	-
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April 21-30	113.6	20	4.6	11.4	1.75	.65	225
May	1,087	50	15	35.1	5.40	6.22	2,180
June	508.3	27	7.6	18.9	2.60	2.91	1,010
July	114.2	7.2	2.0	3.68	.566	.65	227
August	46.1	2.0	1.2	1.49	.229	.26	91
September	38.3	1.8	1.2	1.28	.197	.22	76
Water year	-	-	-	-	-	-	-

Time basis: Mountain war time. To convert war time to standard time, subtract 1 hour.

Grande Ronde River at La Grande, Oreg.

Location.—Water-stage recorder, lat. 45°21', long. 118°09', in sec. 35, T. 2 S., R. 37 E., 2½ miles northwest of La Grande and 4 miles downstream from Fivepoint Creek. Datum of gage is 2,831.25 feet above mean sea level, datum of 1929.

Drainage area.—678 square miles.

Records available.—February 1918 to June 1923, October 1925 to September 1944. November 1903 to September 1915 at Hilgard, 4 miles upstream.

Average discharge.—30 years (1905-9, 1910-11, 1912-15, 1918-20, 1921-22, 1925-44), 346 second-feet.

Extremes.—Maximum discharge during year, 2,570 second-feet Mar. 9 (gage height, 5.56 feet); minimum 12 second-feet Aug. 27, Sept. 8, 11-14.

1903-15, 1918-23, 1925-44: Maximum discharge, 8,890 second-feet Mar. 18, 1932 (gage height, 8.80 feet); minimum, 3.9 second-feet Aug. 26, 1940 (gage height, 1.23 feet).

Remarks.—Records good except those for period of shifting control, which are fair, and those for periods of ice effect, which are poor. Some discharge measurements made at cable 3 miles above station. Small diversions above station for irrigation.

Rating tables, water year 1943-44, except periods of ice effect or shifting control (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 9

Mar. 10 to Sept. 30

1.6	24	2.4	200	1.5	17	2.0	87	3.0	480
1.6	45	2.7	320	1.6	25	2.2	137	3.5	750
2.0	80	3.0	470	1.7	35	2.4	205	4.0	1,110
2.2	130	3.4	580	1.8	50	2.7	330		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	41	40	43	37	55	949	742	287	124	28	14
2	25	39	47	44	36	58	998	640	241	118	27	16
3	24	43	56	46	36	67	1,120	570	330	110	26	17
4	24	61	58	37	36	57	1,130	550	285	105	25	19
5	24	89	56	33	55	56	1,080	592	241	101	24	17
6	25	70	45	31	185	58	921	678	213	92	25	15
7	26	47	32	32	125	465	774	708	198	85	23	14
8	26	44	89	32	90	116	784	678	194	81	23	14
9	26	55	45	32	60	731	652	640	257	77	23	13
10	27	48	30	32	88	834	580	570	273	73	23	13
11	28	48	30	32	*75	405	570	525	253	75	23	12
12	30	45	30	32	64	405	628	490	202	73	20	12
13	31	44	30	33	65	303	645	490	180	67	20	12
14	30	41	30	35	60	198	640	515	170	62	20	14
15	28	37	32	34	60	221	628	548	157	57	21	16
16	29	33	33	34	64	298	604	510	205	53	21	17
17	29	51	38	35	62	540	550	470	277	49	19	20
18	30	45	42	36	62	730	505	425	285	46	16	25
19	30	44	42	39	58	688	490	395	263	44	17	24
20	33	44	42	39	64	536	545	365	249	50	17	23
21	35	44	48	35	56	425	622	335	245	46	17	23
22	40	43	47	35	56	385	858	308	308	40	16	28
23	43	41	65	34	54	520	949	281	277	37	16	52
24	43	40	60	34	55	560	1,040	253	237	35	16	27
25	45	40	56	35	55	455	984	233	213	35	15	24
26	50	38	54	32	55	370	851	225	202	37	15	22
27	45	31	40	28	55	290	788	221	198	34	16	21
28	43	35	48	28	55	305	774	221	170	32	16	21
29	47	45	39	31	55	430	802	233	150	32	15	25
30	48	41	40	35	-	628	802	245	134	36	15	26
31	50	-	40	40	-	837	-	257	-	32	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,038	50	24	35.5	2,080
November.....	1,557	89	31	45.6	2,710
December.....	1,374	69	30	44.3	2,730
Calendar year 1943	186,876	3,100	24	512	370,700
January.....	1,079	45	26	34.8	2,160
February.....	1,829	185	28	55.4	3,760
March.....	11,893	837	55	377	25,190
April.....	23,804	1,130	490	773	46,080
May.....	13,994	742	221	448	27,580
June.....	6,204	330	134	227	13,200
July.....	1,938	124	32	65.3	3,920
August.....	612	25	14	19.7	1,210
September.....	575	32	12	19.2	1,140
Water year 1943-44	56,476	1,130	12	175	129,900

* Winter discharge measurement made on this day.

Notes.—Stage-discharge relation affected by ice Dec. 6, 7, Dec. 9 to Mar. 7. Shifting-control method used Aug. 25 to Sept. 30.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

GRANDE RONDE RIVER BASIN

Grande Ronde River at Rondowa, Oreg.

Location.— Water-stage recorder, lat. 45°44', long. 177°47', in NW¼ sec. 23, T. 3 N., R. 40 E., at Rondowa, 500 feet downstream from Wallowa River. Datum of gage is 2,281.4 feet above mean sea level, datum of 1929 (Union Pacific System track profile).

Drainage area.— 2,555 square miles.

Records available.— October 1926 to September 1944.

Average discharge.— 18 years, 1,869 second-feet.

Extremes.— Maximum discharge during year, 4,880 second-feet May 15 (gage height, 4.41 feet); minimum, 300 second-feet Jan. 11 (gage height, 0.91 foot).
1926-44: Maximum discharge, 22,400 second-feet Mar. 18, 1932 (gage height, 9.30 feet), from rating curve extended above 10,000 second-feet; minimum, 225 second-feet Dec. 19, 1935.

Remarks.— Records good except those for December to February, which are fair. Many diversions above station for irrigation. Flow slightly regulated by Wallowa Lake Reservoir.

Rating table, water year 1943-44, except period of ice effect (gage height, in feet, and discharge, in second-feet)

1.0	345	2.6	1,810
1.3	525	3.0	2,370
1.6	750	3.5	3,180
1.9	1,020	4.0	4,080
2.2	1,350	4.5	5,060

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	518	678	686	553	539	539	2,160	3,230	4,040	2,300	506	389
2	518	655	678	546	539	539	2,360	2,960	3,480	2,040	506	406
3	518	670	710	512	553	539	2,630	2,810	3,620	1,810	492	424
4	512	871	734	412	618	545	2,920	2,810	3,280	1,670	473	424
5	506	1,110	742	448	712	553	2,990	3,040	3,080	1,540	473	412
6	506	934	662	466	1,490	560	2,910	3,570	2,990	1,450	460	400
7	506	553	640	430	1,030	560	2,590	3,930	2,980	1,340	442	384
8	606	801	758	394	862	660	2,500	3,850	2,980	1,290	436	367
9	506	776	662	406	715	1,280	2,440	3,600	3,230	1,220	448	362
10	506	758	595	454	655	3,030	2,260	3,500	4,040	1,180	436	366
11	546	742	532	442	648	2,160	2,180	3,210	3,850	1,160	424	367
12	618	726	567	499	632	1,860	2,370	3,230	3,670	1,110	424	362
13	588	718	506	512	598	1,580	2,400	3,420	3,480	1,060	418	362
14	567	710	612	512	574	1,250	2,430	3,930	3,130	1,000	448	372
15	560	686	612	525	595	1,030	2,460	4,620	2,980	954	454	406
16	567	678	6525	512	581	1,310	2,370	4,420	3,110	907	442	448
17	588	670	6512	506	581	2,180	2,240	4,160	3,040	826	430	486
18	625	678	6588	486	574	1,860	2,070	3,660	2,790	818	418	480
19	625	678	674	480	560	1,880	1,970	3,280	2,630	784	418	460
20	625	678	6551	466	559	1,760	1,970	3,030	2,870	784	406	454
21	655	686	567	466	525	1,550	2,050	3,010	2,870	742	406	448
22	694	678	553	466	532	1,400	2,240	2,660	3,950	694	406	473
23	686	662	560	486	539	1,640	2,480	2,400	4,020	655	400	473
24	710	648	595	499	539	1,740	2,990	2,160	3,760	632	394	464
25	718	640	610	486	539	1,660	3,130	1,980	3,620	610	400	448
26	718	625	595	448	539	1,500	2,960	1,910	3,370	581	412	430
27	694	618	618	412	539	1,320	2,870	2,120	2,940	567	412	430
28	686	625	448	406	539	1,330	2,890	2,570	2,650	546	412	430
29	686	640	539	442	539	1,510	3,130	3,010	2,460	539	386	466
30	726	648	553	512	-	1,740	3,320	4,180	2,310	525	394	480
31	702	-	525	454	-	1,980	-	4,270	-	506	384	-

Month.	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	18,696	726	506	603	37,060
November.....	21,540	1,110	618	718	42,720
December.....	18,339	758	448	592	36,370
Calendar year 1943.....	1,045,215	10,900	448	2,864	2,073,000
January.....	14,638	553	394	472	29,030
February.....	18,418	1,490	525	635	36,530
March.....	42,936	3,030	539	1,386	85,160
April.....	76,470	3,320	1,970	2,549	151,700
May.....	100,330	4,620	1,910	3,236	199,000
June.....	97,280	4,040	2,310	3,242	192,900
July.....	31,820	2,800	806	1,026	63,110
August.....	13,353	506	394	431	26,480
September.....	12,653	486	356	422	26,100
Water year 1943-44.....	466,433	4,620	356	1,274	925,200

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Catherine Creek near Union, Oreg.

Location.- Water-stage recorder, lat. 45°09', long. 117°47', in SE $\frac{1}{4}$ sec. 2, T. 5 S., R. 40 E., 3 miles downstream from Little Catherine Creek and 6 miles southeast of Union. Datum of gage is 3,082.11 feet above mean sea level, datum of 1929.

Drainage area.- 105 square miles.

Records available.- May 1906 to May 1907 (gage heights only), August 1911 to December 1912, March to September 1915, February 1918 to August 1919, October 1925 to September 1944.

Average discharge.- 21 years (1911-12, 1918-19, 1925-44), 116 second-feet.

Extremes.- Maximum discharge during year, 464 second-feet May 6 (gage height, 2.70 feet); minimum recorded, 16 second-feet Mar. 2, but may have been less during periods of ice effect.

• 1906-7, 1911-12, 1915, 1918-19, 1925-44: Maximum discharge observed, 1,240 second-feet May 21, 1912, June 3 or 4, 1933; minimum, 4 second-feet Nov. 26, 27, 1930.

Remarks.- Records good except those for periods of ice effect, which are poor. A few small diversions above station for irrigation and some water diverted into Big Creek, in Powder River Basin.

Rating tables, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 2

Jan. 3 to Sept. 30

0.8 26
1.0 42
1.2 66

0.7 20
0.8 26
0.9 36

1.4 100
1.6 135
1.9 200

1.0 45
1.2 70

2.2 284
2.6 386

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	29	31	27	27	27	149	294	290	130	40	24
2	27	33	31	27	26	27	181	263	260	121	39	26
3	27	33	32	28	26	25	210	257	269	114	39	30
4	27	72	32	23	26	26	243	275	232	107	38	25
5	27	66	29	23	30	25	223	326	213	100	37	24
6	27	43	27	24	80	25	208	386	208	97	36	24
7	27	38	26	24	60	26	190	405	205	90	35	22
8	27	38	30	23	42	30	156	392	203	87	35	22
9	26	37	25	23	34	60	157	343	206	83	40	22
10	27	37	20	24	36	77	143	316	208	83	37	21
11	46	36	21	24	32	65	166	306	195	77	35	21
12	35	35	21	24	29	60	213	310	186	73	33	21
13	31	35	21	25	30	55	203	353	176	69	32	21
14	29	33	21	26	28	35	190	364	166	66	34	23
15	29	33	22	26	29	40	176	394	159	62	33	25
16	29	32	22	25	31	45	161	375	195	60	32	31
17	30	33	25	25	30	58	145	343	200	68	30	30
18	30	32	27	26	31	66	133	300	181	56	30	29
19	30	33	27	26	29	73	126	265	170	56	29	26
20	29	35	27	26	32	69	124	246	181	56	28	25
21	33	33	30	24	28	62	121	234	186	52	27	24
22	32	32	29	23	27	60	131	218	248	49	26	30
23	32	31	37	23	29	64	170	200	228	49	25	25
24	38	30	32	24	28	65	263	183	200	47	25	24
25	44	28	30	24	28	62	257	170	205	46	25	23
26	40	27	28	22	28	58	246	168	200	44	25	22
27	38	28	25	20	28	55	254	178	200	43	25	22
28	37	32	23	19	28	55	278	200	155	45	26	22
29	37	29	22	20	27	62	323	229	143	43	24	24
30	41	30	26	23	-	89	350	340	133	41	24	24
31	33	-	25	30	-	114	-	297	-	41	23	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	992	46	26	38.0	1,970
November.....	1,063	72	27	35.4	2,110
December.....	823	37	20	26.5	1,630
Calendar year 1943.....	47,408	590	20	130	94,020
January.....	751	30	19	24.2	1,490
February.....	959	50	26	32.4	1,860
March.....	1,664	114	25	53.7	3,300
April.....	5,902	330	121	197	11,710
May.....	8,898	406	158	287	17,650
June.....	5,928	290	133	198	11,760
July.....	2,144	130	41	69.2	4,250
August.....	966	40	23	31.2	1,920
September.....	732	31	21	24.4	1,460
Water year 1943-44.....	30,802	405	19	84.2	61,100

* Winter discharge measurement made on this day.

† No gage-height record; discharge computed on basis of records for Grande Ronde River at La Grande.

Note.- Stage-discharge relation affected by ice Dec. 6-23, 28-31, Jan. 3 to Feb. 19, Feb. 21, Mar. 14-16.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

GRANDE RONDE RIVER BASIN

East Fork Willowa River near Joseph, Oreg.

Location.- Staff gage, lat. 45°18', long. 117°13', in SW¹/₄ sec. 29, T. 3 S., R. 45 E., a quarter of a mile upstream from mouth, 1 mile upstream from Willowa Lake, and 6 miles south of Joseph. Datum of gage is 4,517.69 feet above mean sea level, datum of 1929.

Drainage area.- 9.6 square miles.

Records available.- July 1924 to September 1944.

Average discharge.- 20 years, 11.9 second-feet.

Extremes.- Maximum discharge observed during year, 68 second-feet June 22 (gage height, 1.80 feet); minimum observed, 0.6 second-foot Jan. 24, 25, Feb. 25 (gage height, 0.50 foot).

1924-44: Maximum discharge, 300 second-feet July 25, 1937 (gage height, 3.63 feet, from floodmark), based on extension of rating curve above 80 second-feet and unpublished records of storage in Willowa Lake Reservoir; minimum observed, 0.1 second-foot (regulated) Dec. 7, 1929, Nov. 1, 6, 1935.

Remarks.- Records fair except those for periods of ice effect or no gage-height record, which are poor. Gage read twice daily. Willowa Falls power plant of Pacific Power & Light Co. diverts water 1 mile above station.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

0.5	0.6	1.0	11.5
.6	1.7	1.2	19.7
.7	3.2	1.4	31
.8	5.5	1.6	45
.9	8.3	1.8	68

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.1	7.4	4.3	5.0	2.6	2.6	2.0	4.6	38	38	9.6	3.2
2	7.7	6.6	4.3	5.0	2.9	2.0	3.8	4.3	30	43	9.3	5.0
3	9.9	7.1	4.7	5.2	2.0	2.2	3.6	3.8	32	34	9.8	7.7
4	7.4	8.9	4.5	b5.0	3.0	2.2	4.0	5.5	32	42	8.9	6.6
5	7.4	7.4	8.9	b3.0	2.7	4.7	3.6	9.3	27	32	7.7	4.3
6	7.4	8.6	b4.0	b2.6	4.7	1.7	3.4	11	27	34	11.0	2.9
7	7.1	9.6	b6.5	b2.6	2.2	1.7	2.9	12	26	31	7.7	2.9
8	6.6	6.8	5.6	b2.5	2.2	1.7	3.0	11	25	29	7.7	3.2
9	7.1	6.0	b4.6	b4.0	1.8	3.2	3.6	11	37	30	6.8	3.6
10	8.3	5.2	b4.0	b2.5	b1.5	2.0	3.6	13	34	24	6.3	6.5
11	6.9	7.1	b5.6	b2.0	b2.0	2.7	3.8	12	34	26	6.3	3.8
12	8.0	7.1	b5.0	b2.3	2.6	b3.0	4.0	12	32	23	6.6	3.6
13	7.7	6.0	*b2.0	b2.5	b2.5	2.0	4.3	15	33	22	9.6	3.6
14	7.1	8.9	b2.0	2.6	1.7	a2.0	3.6	22	32	21	8.3	5.5
15	6.3	6.3	b2.0	2.6	b1.9	a2.5	3.2	21	32	21	6.6	5.8
16	5.6	4.7	b3.0	5.2	2.1	2.6	3.4	22	34	23	6.0	5.5
17	9.3	5.2	4.5	*b2.0	2.1	3.2	3.6	20	34	19	5.5	5.5
18	7.4	5.0	4.7	2.2	2.2	2.6	2.6	19	34	18	5.0	4.5
19	7.1	5.0	5.5	1.8	2.2	3.6	2.9	17	30	18	5.5	4.5
20	7.1	5.0	2.9	1.7	3.6	2.0	2.9	17	31	20	7.4	2.6
21	7.4	8.3	2.6	1.7	2.1	2.0	3.2	20	32	18	6.0	2.0
22	6.3	5.6	3.4	1.8	2.2	2.0	5.0	18	66	16	5.2	2.4
23	6.8	5.2	4.7	4.3	2.4	2.0	5.6	18	51	18	5.0	2.9
24	11	2.9	5.0	1.2	1.5	2.0	8.0	14	40	15	3.4	6.0
25	8.9	5.9	7.4	.9	1.2	2.0	4.7	15	46	12	5.5	2.0
26	6.6	4.3	7.1	2.0	1.7	3.2	3.0	15	42	12	4.3	2.7
27	5.6	5.2	b5.0	2.0	2.9	5.5	3.6	19	41	11	6.8	2.6
28	6.6	7.1	b3.0	1.4	2.0	5.5	3.5	21	38	14	3.2	2.9
29	6.6	4.6	b3.0	b1.5	2.7	1.8	4.5	28	37	9.6	2.6	3.2
30	7.1	5.2	b3.0	a3.0	-	2.5	8.0	48	37	14	2.8	5.0
31	9.6	-	b3.0	a2.0	-	2.0	-	33	-	9.3	2.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	234.1	11	5.8	7.55	464
November.....	199.0	9.6	2.9	6.30	376
December.....	135.6	8.9	2.0	4.31	265
Calendar year 1943	5,707.7	108	1.4	15.6	11,330
January.....	81.1	6.0	.9	2.62	161
February.....	67.5	4.7	1.2	2.33	124
March.....	80.8	5.8	1.7	2.61	160
April.....	115.9	8.0	2.0	3.66	230
May.....	504.4	46	3.6	16.3	1,000
June.....	1,084	66	25	35.5	2,110
July.....	695.9	43	9.3	28.4	1,389
August.....	198.4	11	2.2	6.40	364
September.....	182.5	7.7	2.0	4.08	243
Water year 1943-44	3,436.9	66	.9	9.53	6,980

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records.

b Stage-discharge relation affected by ice.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Wallowa Falls power-plant tailrace near Joseph, Oreg.

Location.- Staff gage and sharp-crested weir, lat. 45°16', long. 117°13', in SE¼ sec. 29, T. 3 S., R. 45 E., a quarter of a mile upstream from mouth and 6 miles south of Joseph. Datum of gage is 4,624.79 feet above mean sea level, datum of 1929.

Records available.- August 1924 to September 1944.

Average discharge.- 20 years, 7.50 second-feet.

Extremes.- Maximum discharge observed during year, 15.7 second-feet at times in October, November, and December (gage height; 0.86 foot); no flow for 6 hours Mar. 5. 1924-44: Maximum discharge, 17 second-feet Dec. 1, 8, 1930, Jan. 9, 10, 1931; no flow at times.

Remarks.- Records good. Gage read hourly. Flow regulated for impulse wheel in powerhouse. Water diverted at dam on East Fork Wallowa River into a conduit 1 mile above powerhouse and discharged into West Fork a quarter of a mile below station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.5	9.2	8.8	6.9	7.8	7.1	6.9	7.8	9.0	9.2	9.5	10
2	8.5	9.2	8.8	6.7	7.6	7.4	6.0	7.8	9.2	7.1	9.2	9.7
3	6.9	9.5	8.5	8.8	8.1	7.1	7.1	7.8	9.7	9.5	9.2	7.1
4	9.5	10	8.5	8.1	7.8	7.4	6.9	7.4	7.6	7.4	9.0	8.8
5	9.5	9.7	8.9	8.5	7.8	4.4	7.1	7.4	9.7	9.2	9.5	10
6	9.7	9.0	9.0	8.5	6.5	7.6	6.9	7.8	9.2	9.5	7.4	10
7	9.5	7.1	8.5	8.1	7.8	7.6	6.7	6.0	9.0	9.0	9.7	10
8	9.7	9.5	8.5	8.3	8.1	7.8	7.1	8.1	9.5	9.0	9.7	9.7
9	9.7	9.2	8.8	6.7	8.1	7.6	6.0	8.1	9.7	7.1	10	9.5
10	7.4	9.0	8.8	8.5	7.8	7.4	7.1	8.1	9.0	9.2	9.7	7.6
11	10	8.5	8.5	8.5	7.8	7.6	6.9	8.1	7.4	9.0	9.7	10
12	10	8.8	6.5	8.1	7.8	7.4	7.1	8.3	9.5	9.0	9.7	10
13	9.5	9.0	9.0	8.1	6.5	8.5	6.9	7.6	9.5	9.2	7.1	10
14	9.5	6.9	9.0	8.1	7.8	7.6	6.9	6.5	9.7	9.2	9.7	9.7
15	9.5	9.0	8.8	8.1	7.8	6.9	6.9	8.5	9.7	9.5	9.7	9.2
16	9.2	9.0	9.0	6.5	7.8	6.7	6.0	8.8	9.2	6.9	9.7	9.2
17	7.4	8.8	9.0	8.1	7.6	6.7	6.9	8.8	9.0	9.7	9.5	7.8
18	9.2	9.0	9.0	8.1	7.6	8.5	7.1	8.5	7.1	9.5	9.5	10
19	9.2	9.2	7.4	7.8	7.8	6.9	6.9	8.3	9.5	9.5	10	10
20	9.2	9.2	9.2	7.6	6.5	6.7	7.1	8.5	9.2	9.0	7.1	9.7
21	8.8	6.7	9.0	7.6	7.8	6.7	6.7	7.1	9.5	9.0	9.7	10
22	9.2	9.2	9.0	7.8	7.6	6.9	6.5	9.0	7.4	9.5	10	9.7
23	8.5	9.5	8.5	6.5	7.8	6.9	5.8	9.2	8.8	6.9	9.7	9.7
24	7.4	9.0	8.5	8.3	8.5	6.9	7.4	8.8	8.8	9.7	10	7.8
25	9.5	7.1	6.9	8.5	8.5	6.9	7.6	8.5	6.9	9.7	9.5	10
26	9.7	9.0	6.9	8.1	8.5	8.0	7.8	8.8	9.5	9.7	9.5	10
27	9.2	9.2	8.3	8.1	7.1	7.1	7.6	7.1	9.2	9.5	6.9	10
28	9.2	7.4	8.5	7.8	7.4	6.9	7.8	7.1	9.2	10	9.5	10
29	9.5	9.2	8.3	7.4	7.1	6.9	7.6	8.8	9.5	10	10	10
30	9.2	9.2	8.3	6.5	-	8.9	5.4	7.6	9.0	7.1	10	9.2
31	7.1	-	8.5	7.8	-	6.9	-	8.8	-	10	9.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	278.6	10	7.1	8.99	553
November.....	284.1	10	6.7	8.89	524
December.....	260.8	9.2	6.5	8.41	517
Calendar year 1943	3,040.8	11	0	8.35	6,050
January.....	241.9	8.8	6.3	7.80	480
February.....	222.7	8.5	6.5	7.68	442
March.....	216.8	8.5	4.4	6.99	450
April.....	206.7	7.8	5.4	6.89	410
May.....	249.3	9.2	6.0	8.04	494
June.....	292.2	9.7	7.1	8.97	534
July.....	277.8	10	6.9	8.96	551
August.....	289.1	10	6.9	9.35	573
September.....	284.4	10	7.1	9.48	564
Water year 1943-44	3,061.4	10	4.4	8.36	6,070

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

GRANDE RONDE RIVER BASIN

Hurricane Creek near Joseph, Oreg.

Location.- Water-stage recorder, lat. 45°20', long. 117°18', in NE¼ sec. 3; T. 3 S., R. 44 E., upstream from intake of Moonshine ditch and ¾ miles southwest of Joseph.

Drainage area.- 31 square miles.

Records available.- April to September 1915, April 1924 to September 1944.

Average discharge.- 17 years (1927-44), 64.8 second-feet.

Extremes.- Maximum discharge during year, 335 second-feet May 29 (gage height, 2.50 feet); minimum, 7.0 second-feet Mar. 28 (gage height, 1.14 feet).
1915, 1924-44: Maximum discharge, 774 second-feet July 7, 1943 (gage height, 3.13 feet); minimum, 3.4 second-feet Feb. 10, 1938 (gage height, 0.91 foot).

Remarks.- Records fair, except those for period of no gage-height record, which are poor.
No diversion above station.

Rating table, water year 1943-44 (gage height, in feet,
and discharge, in second-feet)

1.2	10	1.9	117
1.3	19	2.1	172
1.5	46	2.3	240
1.7	76	2.5	335

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	32	27	a23	16	12	15	50	215	211	57	31
2	31	31	27	a22	16	12	20	46	169	172	56	32
3	31	31	27	20	15	13	29	49	149	149	54	31
4	31	52	26	20	16	13	33	80	140	133	53	29
5	31	47	a24	24	16	12	35	97	149	135	52	28
6	33	40	a23	27	20	12	29	120	163	127	52	26
7	31	38	a26	24	17	13	31	120	175	122	50	24
8	29	38	a24	26	16	12	29	113	166	115	49	24
9	29	35	a22	26	16	19	28	97	254	108	47	24
10	35	35	a22	24	16	20	27	91	233	110	46	24
11	46	36	a22	24	16	15	28	99	233	110	46	23
12	36	36	a21	24	16	15	29	115	244	110	45	23
13	35	36	a21	24	16	15	28	140	236	110	45	22
14	33	31	a20	23	16	15	26	198	218	108	46	26
15	32	31	a20	22	16	13	26	198	211	106	43	26
18	31	31	a20	22	16	14	24	204	201	108	42	32
17	32	29	a21	22	16	14	24	169	169	104	40	28
18	29	28	a23	20	16	13	23	138	158	99	40	27
19	a23	28	a23	20	16	13	20	126	172	99	40	27
20	a27	31	a23	19	16	11	22	126	185	97	39	24
21	28	31	a22	19	16	11	20	127	186	95	36	24
22	27	28	a21	19	16	11	22	115	240	89	38	27
23	29	28	a23	19	16	12	27	104	233	86	36	26
24	35	26	a23	19	16	10	39	93	249	80	36	26
25	40	24	a24	18	16	10	35	91	258	78	35	24
26	39	24	a23	18	14	9.0	32	108	226	74	35	24
27	38	24	17	18	12	9.0	32	160	194	71	33	23
28	35	26	a18	18	13	9.0	38	211	182	68	32	24
29	33	26	a22	18	13	11	47	258	201	65	32	27
30	33	27	a23	16	-	12	54	305	229	63	31	29
31	32	-	a22	17	-	13	-	254	-	59	31	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches	Acres-feet
October	1,011	46	27	32.6	1.05	1.21	2,010
November	960	52	24	32.0	1.03	1.15	1,900
December	700	27	17	22.6	.729	.84	1,390
Calendar year 1943	32,963	562	16	90.3	2.91	39.54	65,390
January	685	27	16	21.1	.681	.79	1,300
February	456	20	12	15.7	.506	.55	904
March	395.0	20	9.0	12.7	.410	.47	783
April	870	54	15	29.4	.935	1.04	1,730
May	4,168	305	46	134	4.32	5.00	8,270
June	6,037	258	140	201	6.43	7.24	11,970
July	3,259	211	59	105	3.39	3.91	6,460
August	1,313	57	31	42.5	1.37	1.58	2,610
September	785	32	22	26.2	.845	.94	1,580
Water year 1943-44	20,614.0	305	9.0	56.3	1.82	24.72	40,890

a No gage-height record; discharge computed on basis of records for Lostine River near Lostine and Bear Creek near Wallawa.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Lostine River near Lostine, Oreg.

Location.- Water-stage recorder, lat. 45°26', long. 117°26', in NW 1/4 sec. 34, T. 1 S., R. 45 E., 3 1/2 miles south of Lostine and 10 miles upstream from mouth.

Records available.- August 1912 to March 1914, April to September 1915, July 1925 to September 1944.

Average discharge.- 17 years (1912-13, 1928-44), 174 second-feet.

Extremes.- Maximum discharge during year, 1,180 second-feet May 30 (gage height, 5.35 feet); minimum, 16 second-feet Dec. 27, Mar. 7 (gage height, 0.48 foot).
1912-14, 1915, 1925-44: Maximum discharge, 2,540 second-feet May 27, 1913; minimum, 10 second-feet Nov. 28-30, 1936.

Remarks.- Records good June to September; fair, October to May except periods of ice effect or no gage-height record, which are poor. No large diversions above station. Flow regulated slightly by Minam Lake Reservoir.

Rating table, water year 1943-44, except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Mar. 30 to May 6, Sept. 20, 23-30)

0.6	22	1.2	67	3.0	396
.7	27	1.5	103	3.5	350
.9	33	1.8	149	4.0	686
.9	40	2.2	219	5.0	1,040
1.0	48	2.6	297		

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	36	45	32	27	a26	44	203	785	566	82	34
2	49	42	44	35	27	a25	52	183	581	446	78	36
3	46	42	47	24	27	25	71	187	533	379	77	57
4	42	78	46	b22	27	24	93	219	452	358	71	66
5	40	91	42	31	28	25	95	289	456	318	68	59
6	41	65	31	30	40	24	88	391	500	314	66	55
7	39	56	47	b22	31	24	90	446	545	289	65	46
8	36	56	43	b24	28	26	88	426	551	265	64	40
9	36	55	32	26	28	34	83	a380	755	242	67	34
10	36	53	33	26	b24	46	76	a330	825	256	61	31
11	65	52	33	b86	30	34	80	340	769	240	59	30
12	52	52	31	28	27	31	89	389	783	228	56	29
13	44	62	30	28	b86	29	96	479	766	225	55	28
14	42	50	30	28	28	b29	94	638	682	205	60	31
15	41	*48	b28	29	27	b28	80	794	654	196	56	34
16	39	47	28	29	27	33	78	708	678	188	52	a40
17	42	47	30	29	27	34	74	823	580	185	50	a56
18	42	46	35	29	26	32	70	491	488	171	48	a35
19	40	47	34	*29	26	31	68	423	436	169	47	a35
20	38	49	35	29	b25	31	66	437	542	158	46	b51
21	41	48	*32	28	28	29	65	434	569	146	45	a31
22	40	45	29	28	26	30	65	358	811	137	43	a35
23	40	44	35	28	26	36	77	305	766	123	42	34
24	44	43	34	27	26	32	120	268	766	116	41	32
25	68	40	36	27	26	31	118	261	790	110	41	30
26	56	37	36	b26	26	29	116	327	702	106	40	28
27	51	39	b22	b24	25	31	118	473	572	100	39	28
28	47	46	b23	b23	26	*32	137	644	506	98	37	28
29	46	42	34	b23	26	36	178	769	518	93	36	32
30	46	44	32	b25	-	39	210	1,090	578	90	35	36
31	43	-	31	26	-	39	-	912	-	86	34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,374	65	36	44.3	2,730
November.....	1,492	91	36	49.7	2,960
December.....	1,068	47	22	34.5	2,180
Calendar year 1943	86,009	1,560	22	236	170,600
January.....	839	33	22	27.1	1,660
February.....	791	40	24	27.3	1,570
March.....	955	46	24	30.8	1,890
April.....	2,761	210	44	92.0	5,480
May.....	14,212	1,090	135	458	28,190
June.....	18,985	826	452	632	37,620
July.....	6,579	568	86	212	13,050
August.....	1,661	82	34	63.6	3,290
September.....	1,099	66	28	36.6	2,180
Water year 1943-44	61,796	1,090	22	142	102,700

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for Hurricane Creek near Joseph and Bear Creek near Wallawa.

b Stage-discharge relation affected by ice.

c Computed from staff-gage reading.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

GRANDE RONDE RIVER BASIN

Bear Creek near Wallowa, Oreg.

Location.— Water-stage recorder, lat. 45°32', long. 117°33', in NE¼ sec. 34, T. 1 N., R. 42 E., at bridge 4½ miles southwest of Wallowa.

Records available.— April to September 1915, April 1931 to September 1944. April 1924 to November 1931 at site 1 mile upstream above intakes of two irrigation ditches with a combined capacity of about 3 second-feet.

Average discharge.— 15 years (1929-44), 99.8 second-feet.

Extremes.— Maximum discharge during year, 853 second-feet May 30 (gage height, 2.77 feet); minimum, 7.9 second-feet Sept. 10-13 (gage height, 0.57 foot).

1915, 1924-44: Maximum discharge, 1,620 second-feet Apr. 22, 1936 (gage height, 3.82 feet, from floodmarks), from rating curve extended above 950 second-feet; minimum, 3 second-feet Jan. 20, Feb. 1, 1937.

Remarks.— Records good except those for periods of ice effect, which are poor. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.2	17	19	16	b15	14	71	229	406	198	19	9.2
2	8.8	18	19	15	b16	14	89	197	338	162	18	10
3	8.8	19	21	12	b18	14	122	195	358	137	18	10
4	8.8	35	21	13	b16	14	169	220	317	119	17	9.6
5	8.8	58	18	b19	17	14	176	291	306	106	16	9.2
6	9.2	42	17	19	23	14	163	365	303	97	15	8.8
7	8.8	34	28	17	23	14	150	338	312	87	15	8.6
8	8.8	33	19	b19	19	15	159	310	312	78	16	8.2
9	8.8	31	16	b21	18	20	120	272	496	70	17	8.2
10	9.2	31	b16	b21	17	38	106	242	680	67	15	8.2
11	13	30	b16	b20	16	39	101	254	580	64	14	7.9
12	11	28	b15	b20	16	38	108	272	537	57	13	7.9
13	10	27	b15	b20	20	35	104	321	469	52	13	7.9
14	10	27	b14	b19	20	35	99	432	394	49	14	9.6
15	10	26	b14	b18	17	b54	96	585	588	45	15	9.2
16	10	24	b14	b18	16	b33	93	458	418	41	13	13
17	12	24	b16	b18	16	42	87	425	359	38	12	11
18	12	24	b18	b17	15	38	88	377	322	36	12	11
19	11	24	b19	17	14	40	79	332	308	33	12	10
20	11	24	b19	17	b13	37	79	310	349	38	11	9.6
21	13	24	*19	16	b16	37	76	316	354	29	11	9.6
22	13	22	17	15	b14	56	88	254	566	28	11	10
23	12	21	17	16	16	49	110	216	528	26	10	10
24	16	20	17	16	*15	41	182	190	469	25	10	9.6
25	17	19	16	15	15	38	176	176	400	24	10	9.6
26	17	16	16	14	14	36	163	209	344	22	10	9.2
27	17	17	10	b13	14	34	166	296	284	28	10	9.2
28	18	19	b11	b12	14	36	182	389	245	20	9.6	9.2
29	19	19	b16	b12	14	59	229	444	228	21	9.6	14
30	26	20	b17	b13	—	48	250	623	221	20	9.2	12
31	19	—	17	b14	—	58	—	456	—	19	9.2	—

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	382.2	22	8.8	12.3	758
November.....	771	58	16	25.7	1,530
December.....	524	25	10	16.9	1,040
Calendar year 1943.....	57,288.4	849	8.8	16.7	113,600
January.....	512	21	12	16.6	1,020
February.....	473	23	13	16.3	958
March.....	928	58	14	32.0	1,970
April.....	3,850	260	71	128	7,640
May.....	9,960	623	176	321	10,760
June.....	11,554	680	291	385	22,920
July.....	1,622	198	19	58.8	3,510
August.....	401.6	19	9.2	13.0	797
September.....	289.4	14	7.9	9.2	574
Water year 1943-44.....	31,532.2	680	7.9	25.2	62,540

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Asotin Creek near Asotin, Wash.

Location.- Staff gage, lat. 46°20', long. 117°12', in sec. 20, T. 10 N., R. 45 E., half a mile upstream from Washington Water Power Co.'s diversion for water supply and irrigation, 4 miles upstream from George Creek, and 8 miles west of Asotin.

Drainage area.- 171 square miles.

Records available.- August 1928 to September 1944. March 1904 to November 1906, August 1910 to October 1911 at practically same site.

Average discharge.- 16 years (1928-44), 57.8 second-feet.

Extremes.- Maximum discharge observed during year, 142 second-feet Mar. 9 (gage height, 1.64 feet); minimum observed, 24 second-feet July 30, 31, Aug. 29, Sept. 8, 9 (gage height, 0.71 feet).

1904-6, 1910-11, 1928-44: Maximum discharge observed, 1,180 second-feet Apr. 15, 1904 (gage height, 4.3 feet, datum then in use); minimum observed, 16 second-feet Jan. 5, 1937.

Remarks.- Records good except those for periods of ice effect or shifting control, which are fair. Gage read twice daily. Large part of low flow diverted for irrigation.

Cooperation.- Gage-height record furnished by Washington Water Power Co.

Rating tables, water year 1943-44, except periods of ice effect or shifting control (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 9 Mar. 10 to Sept. 30

0.8	26	0.7	23
.9	36	0.8	31
1.0	47	.9	40
1.2	76	1.0	60
1.4	112	1.2	76

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	51	56	40	56	55	*35	44	63	60	37	26	26
2	51	59	38	37	55	36	46	62	57	36	25	26
3	50	59	38	34	35	35	50	60	57	37	26	27
4	51	45	46	51	35	34	58	60	52	36	25	26
5	51	45	*40	45	35	34	60	65	49	36	26	26
6	51	41	36	34	47	56	57	69	49	55	26	26
7	33	40	38	31	39	34	55	68	46	35	26	26
8	31	59	39	b51	40	36	55	66	46	53	26	26
9	31	38	35	b51	40	94	32	63	50	33	26	26
10	35	38	32	b50	36	48	49	65	46	33	26	26
11	37	37	32	b52	36	42	50	66	44	33	26	26
12	37	56	33	34	36	40	57	60	42	51	27	26
13	56	56	32	36	34	38	56	60	42	59	26	26
14	33	36	32	36	36	36	55	62	41	59	26	26
15	36	36	33	35	34	36	50	68	40	59	26	26
16	34	36	35	34	36	38	47	68	40	29	27	29
17	35	35	34	35	35	38	48	63	40	29	26	29
18	36	36	34	35	35	38	48	62	40	29	26	29
19	56	37	34	35	34	38	46	60	59	29	26	29
20	56	37	34	39	33	38	50	55	56	29	26	29
21	56	37	34	34	34	37	47	55	50	59	26	29
22	37	37	34	33	34	37	46	51	66	29	26	29
23	37	36	34	35	36	38	49	50	57	26	26	29
24	38	38	35	36	34	58	62	49	51	26	26	29
25	39	36	36	34	35	37	68	47	48	26	26	29
26	59	36	34	34	36	58	62	44	47	26	26	29
27	39	35	33	31	34	55	62	44	46	29	27	29
28	37	36	33	b51	35	56	62	43	45	26	26	29
29	37	36	34	b50	36	56	68	43	44	26	26	29
30	39	38	35	b52	-	38	63	60	40	25	25	29
31	56	-	35	34	-	41	-	61	-	25	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	1,077	39	30	34.7	2,140
November.....	1,123	43	35	37.4	2,230
December.....	1,089	46	32	36.1	2,160
Calendar year 1943.....	29,501	569	30	90.3	58,120
January.....	1,032	37	30	33.3	2,060
February.....	1,039	47	33	35.8	2,060
March.....	1,204	94	34	36.8	2,390
April.....	1,624	68	44	54.1	3,280
May.....	1,807	68	43	58.3	3,590
June.....	1,425	66	39	47.6	2,850
July.....	945	37	25	30.4	1,870
August.....	810	38	25	26.1	1,610
September.....	810	29	25	27.0	1,610
Water year 1943-44.....	13,985	94	25	36.2	27,760

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Notes.- Shifting-control method used Oct. 1 to Feb. 7.

Time basis. Pacific war time. To convert war time to standard time, subtract 1 hour.

CLEARWATER RIVER BASIN

Selway River near Lowell, Idaho

Location.- Water-stage recorder, lat. 46°05', long. 115°31', in sec. 25, T. 32 N., R. 7 E., a quarter of a mile upstream from O'Hara Creek and 7 miles upstream from Lowell post office.

Drainage area.- 1,510 square miles.

Records available.- April 1911 to September 1912 (gage heights or fragmentary discharge records only); October 1929 to September 1944.

Average discharge.- 15 years, 3,207 second-feet.

Extremes.- Maximum discharge during year, 18,600 second-feet May 16 (gage height, 9.77 feet); minimum daily, 300 second-feet Dec. 12, Jan. 11, 29.

1929-44: Maximum discharge, 33,800 second-feet June 14, 1933 (gage height, 13.17 feet); minimum, probably less than 100 second-feet Jan. 8, 1937, during period of ice effect.

Remarks.- Records excellent except those for period of ice effect, which are fair. No diversion.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	517	666	825	600	520	560	1,130	7,080	13,300	3,640	963	567
2	510	604	774	580	550	567	1,400	5,920	11,400	3,560	944	666
3	504	682	825	550	*570	560	1,880	5,440	9,980	3,100	963	691
4	497	1,120	880	470	580	575	2,600	5,800	9,000	2,920	954	628
5	510	1,660	852	490	600	597	3,540	7,220	8,380	2,940	907	582
6	531	1,250	732	520	780	582	3,360	9,650	8,380	2,680	981	560
7	531	944	643	420	1,000	553	3,180	10,700	8,080	2,680	852	531
8	510	808	745	330	850	612	2,920	10,700	9,000	2,370	825	610
9	504	834	732	360	750	748	2,680	10,300	8,080	2,500	817	497
10	504	817	494	320	700	1,170	2,440	9,000	8,080	2,220	800	490
11	643	817	362	300	630	1,050	2,600	9,650	7,500	2,180	774	484
12	644	791	300	350	620	889	3,360	11,000	7,940	2,010	740	470
13	800	774	420	500	600	895	3,560	12,900	8,080	1,880	753	465
14	666	757	*450	520	600	651	3,010	14,900	7,080	1,810	1,120	470
15	612	723	450	550	580	635	2,680	16,900	6,550	1,710	1,100	539
16	589	699	500	560	560	808	2,440	16,900	6,950	1,620	916	604
17	589	707	580	600	570	916	2,300	15,300	6,820	1,560	817	591
18	612	774	750	570	560	1,060	2,180	14,100	6,170	1,480	765	658
19	604	757	730	550	550	1,020	2,010	12,900	6,040	1,440	723	628
20	597	752	700	500	550	954	2,010	10,300	5,680	1,600	691	597
21	604	900	600	480	570	598	2,010	9,650	5,680	1,610	674	567
22	666	765	500	450	590	552	2,220	9,000	6,300	1,380	658	597
23	658	707	550	480	600	954	2,680	8,080	5,920	1,310	643	620
24	651	699	600	520	620	1,140	3,560	7,360	5,440	1,240	628	589
25	682	723	660	520	604	1,020	4,020	6,680	5,100	1,220	628	553
26	699	589	700	500	582	954	3,730	6,550	4,870	1,220	635	594
27	691	450	600	430	575	834	3,920	7,220	4,870	1,140	620	510
28	682	517	450	350	560	825	4,760	9,000	4,980	1,080	597	497
29	682	817	350	300	553	852	5,920	10,700	4,220	1,040	567	617
30	732	715	500	320	-	934	7,220	12,100	3,920	1,040	567	604
31	723	-	620	400	-	1,040	-	13,700	-	1,010	560	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Inches	Acres-feet
October	19,244	944	497	621	0.411	0.47	38,170
November	23,748	1,660	450	792	.525	.58	47,100
December	18,867	880	300	608	.403	.46	37,400
Calendar year 1943	1,755,617	25,000	300	4,755	3.15	42.73	3,442,000
January	14,370	600	300	454	.307	.35	28,500
February	17,984	1,000	520	620	.411	.44	36,670
March	25,635	1,170	553	827	.548	.63	50,860
April	90,890	7,220	1,130	3,030	2.01	2.24	180,300
May	318,703	18,600	8,440	10,220	6.77	7.80	688,800
June	215,700	13,500	3,820	7,125	4.72	5.27	424,000
July	58,410	3,540	1,010	1,884	1.25	1.44	115,900
August	24,032	1,120	560	775	.513	.59	47,670
September	16,904	691	463	563	.373	.42	33,530
Water year 1943-44	840,564	16,900	300	2,297	1.52	20.69	1,667,000

* Winter discharge measurement made on this day.

Note.- Stage-discharge relation affected by ice Dec. 12 to Feb. 23.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

Clearwater River at Kamiah, Idaho

Location.- Water-stage recorder, lat. 46°14', long. 116°01', in sec. 1, T. 33 N., R. 3 E., a quarter of a mile downstream from new highway bridge at Kamiah, three-quarters of a mile downstream from Lawyer Creek, and 6 miles downstream from South Fork.

Drainage area.- 4,850 square miles.

Records available.- August 1910 to September 1944.

Average discharge.- 34 years, 7,872 second-feet.

Extremes.- Maximum discharge during year, 34,200 second-feet May 16 (gage height, 11.76 feet); minimum, 535 second-feet Dec. 12 (gage height, 2.55 feet).

1910-44: Maximum discharge observed, 81,400 second-feet June 10, 1933 (gage height, 16.53 feet, former site), from rating curve extended above 70,000 second-feet; minimum discharge, probably less than 200 second-feet Jan. 8, 1937, during period of ice effect.

Remarks.- Records excellent above 2,000 second-feet and good below. Some diurnal fluctuation at low stages caused by power plant on South Fork.

Cooperation.- Gage-height record collected in cooperation with U. S. Weather Bureau.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,140	1,520	1,700	1,380	1,240	1,340	2,690	15,800	23,400	8,280	2,030	1,160
2	1,120	1,370	1,820	1,350	1,400	1,380	3,140	13,700	21,200	7,640	1,960	1,320
3	1,100	1,380	1,780	1,300	1,380	1,370	4,140	12,500	18,600	7,180	1,960	1,550
4	1,090	2,060	2,090	1,110	1,400	1,400	5,640	12,900	16,700	6,600	1,910	1,430
5	1,100	3,550	2,160	1,120	1,440	1,510	8,610	14,600	16,800	6,310	1,880	1,290
6	1,180	3,140	1,880	1,220	1,810	1,470	8,940	19,100	15,400	6,040	1,800	1,200
7	1,230	2,270	1,590	979	2,440	1,400	8,280	21,200	15,000	5,640	1,770	1,150
8	1,180	1,820	1,570	750	2,030	1,380	7,960	21,200	16,200	5,270	1,730	1,100
9	1,120	1,700	1,710	630	1,470	1,820	8,610	20,600	16,200	5,040	1,680	1,070
10	1,110	1,710	1,220	730	1,610	3,630	7,180	19,100	16,200	4,800	1,680	1,010
11	1,180	1,670	790	670	1,480	3,140	7,030	19,100	14,500	4,690	1,660	1,010
12	1,770	1,660	670	760	1,440	2,600	9,620	21,200	16,400	4,470	1,600	1,000
13	1,880	1,590	880	1,160	1,400	2,240	9,970	24,000	15,400	4,140	1,520	979
14	1,520	1,600	957	1,210	1,380	1,800	9,280	27,600	14,500	3,940	1,970	979
15	1,340	1,510	946	1,270	1,350	1,600	8,120	31,600	12,900	3,830	2,690	1,080
16	1,290	1,430	1,010	1,290	1,300	1,840	7,180	31,500	13,700	3,630	2,170	1,280
17	1,270	1,380	1,230	1,390	1,330	2,240	6,800	29,300	14,100	3,430	1,820	1,600
18	1,340	1,510	1,690	1,330	1,280	2,960	6,040	26,400	12,900	3,340	1,670	1,580
19	1,390	1,630	1,660	1,240	1,280	2,870	5,640	27,000	12,500	3,140	1,560	1,430
20	1,330	1,610	1,500	1,160	1,170	2,600	5,770	21,200	11,800	3,450	1,500	1,340
21	1,300	1,680	1,380	1,120	1,230	2,320	6,040	19,600	11,400	3,530	1,440	1,280
22	1,460	1,630	1,170	1,070	1,300	2,140	6,170	18,600	13,700	3,140	1,380	1,270
23	1,520	1,520	1,200	1,100	1,280	2,440	7,030	16,700	14,100	2,870	1,350	1,390
24	1,460	1,400	1,370	1,210	1,380	3,140	8,610	15,400	12,200	2,690	1,320	1,400
25	1,460	1,510	1,470	1,220	1,380	2,690	9,970	13,700	11,400	2,690	1,290	1,290
26	1,520	1,380	1,600	1,180	1,350	2,350	9,620	13,500	10,700	2,690	1,300	1,220
27	1,520	1,090	1,390	990	1,340	2,090	9,280	14,100	10,700	2,520	1,290	1,160
28	1,480	935	1,000	820	1,320	1,920	10,700	16,200	11,000	2,350	1,240	1,120
29	1,440	1,400	820	750	1,300	1,980	12,900	19,100	9,620	2,250	1,210	1,110
30	1,540	1,670	1,260	730	-	2,320	15,400	21,200	8,610	2,170	1,200	1,260
31	1,610	-	1,440	860	-	2,520	-	23,400	-	2,110	1,160	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-feet
October	41,990	1,880	1,090	1,355	0.279	0.32	83,290
November	50,145	3,530	935	1,672	.345	.38	99,450
December	42,953	2,160	870	1,356	.286	.33	65,200
Calendar year 1943	3,641,048	49,700	670	9,975	2.06	27.91	7,222,000
January	33,299	1,390	670	1,074	.221	.26	66,050
February	41,780	2,440	1,170	1,441	.297	.32	82,870
March	66,500	3,630	1,340	2,145	.442	.51	131,900
April	256,150	15,400	2,690	7,872	1.62	1.81	468,400
May	619,700	31,600	12,500	19,990	4.12	4.75	1,229,000
June	425,830	23,400	8,610	14,190	2.93	3.27	844,600
July	129,860	8,280	2,110	4,189	.864	1.00	257,600
August	50,740	2,690	1,160	1,637	.338	.39	100,600
September	37,068	1,600	979	1,236	.255	.28	73,520
Water year 1943-44	1,776,015	31,500	670	4,862	1.00	13.62	3,522,000

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

CLEARWATER RIVER BASIN

Clearwater River at Spalding, Idaho

Location.— Water-stage recorder, lat. 46°25', long. 116°51', in lot 22, sec. 22, T. 36 N., R. 4 W., a quarter of a mile downstream from Lapwai Creek and three-eighths of a mile northwest of Spalding post office.

Drainage area.— 9,570 square miles.

Records available.— March 1926 to September 1944.

Average discharge.— 18 years, 13,800 second-feet.

Extremes.— Maximum discharge during year, 50,900 second-feet May 16 (gage height, 12.34 feet); minimum, 1,430 second-feet Jan. 30 (gage height, 2.04 feet).

1926-44: Maximum discharge, 172,000 second-feet Dec. 23, 1933, from rating curve extended above 100,000 second-feet by logarithmic plotting; maximum gage height, 25.6 feet Jan. 5, 1928 (present site and datum), from floodmark (ice jam); minimum, probably less than 500 second-feet Jan. 9, 1937, during period of ice effect.

Remarks.— Records excellent. Small diversions from lower tributaries; slight diurnal fluctuation at times caused by power plant on South Fork.

Rating table, water year 1943-44 (gage height, in feet,
and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Nov. 4)

2.2	1,620	4.0	5,050	7.0	15,400
2.4	1,890	4.5	6,300	8.0	20,400
2.7	2,370	5.0	7,710	9.0	26,800
3.0	2,920	5.5	9,350	10.0	33,000
3.5	3,930	6.0	11,200	12.0	46,400

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,200	3,410	3,820	3,310	2,370	2,920	7,260	28,200	35,000	11,600	3,510	2,300
2	2,200	3,020	4,940	3,210	3,110	3,020	8,020	25,600	31,600	10,800	3,410	2,800
3	2,200	2,620	4,820	3,110	3,310	3,020	10,100	22,600	27,500	10,400	3,310	2,640
4	2,200	3,210	9,260	2,820	3,310	3,020	13,800	22,000	24,800	9,720	3,310	2,730
5	2,120	6,170	9,010	2,820	3,510	3,210	18,800	24,500	25,200	9,010	3,310	2,550
6	2,200	7,260	6,300	2,730	6,410	3,210	22,600	29,500	21,400	9,010	3,210	2,280
7	2,370	3,290	4,940	2,460	6,300	3,110	19,800	34,500	20,900	8,340	3,110	2,200
8	2,370	4,260	4,370	1,940	6,300	3,020	18,800	34,500	22,000	8,020	3,020	2,120
9	2,260	3,720	4,260	1,740	5,170	4,290	20,400	38,900	25,700	7,560	3,110	2,000
10	2,200	3,620	3,820	1,940	4,260	9,010	18,300	31,600	25,800	7,260	3,110	1,940
11	2,550	3,620	2,550	1,890	3,930	9,360	16,800	29,500	20,900	7,120	3,110	1,860
12	3,720	3,510	1,960	1,890	3,620	7,410	26,800	31,500	20,400	6,840	3,020	1,860
13	4,700	3,510	2,000	2,880	3,310	5,910	32,300	35,200	20,900	6,440	2,880	1,830
14	3,620	3,510	2,370	3,110	3,310	4,820	25,800	40,500	20,400	6,170	3,020	1,810
15	2,920	3,410	2,200	3,110	3,210	4,040	22,600	46,000	18,300	5,910	4,160	1,830
16	2,730	3,110	2,120	3,110	3,020	4,370	19,800	48,400	18,300	5,660	4,370	2,120
17	2,820	3,020	2,200	3,110	3,020	5,410	18,800	45,600	19,800	5,410	3,620	2,730
18	2,820	3,020	2,640	3,020	3,020	7,260	15,400	40,500	18,300	5,170	3,210	2,810
19	3,110	3,310	3,620	3,020	3,020	7,410	14,100	41,200	17,300	5,050	2,620	2,920
20	2,920	3,310	3,510	2,820	2,820	6,700	13,600	34,500	16,800	4,940	2,730	2,640
21	2,820	3,410	3,110	2,640	2,730	5,780	14,100	30,900	15,900	5,780	2,640	3,020
22	3,020	3,410	2,820	2,550	2,920	5,290	14,100	28,900	17,800	5,170	2,550	2,730
23	3,720	3,210	2,640	2,550	2,920	5,410	15,000	26,800	20,400	4,920	2,550	2,730
24	3,620	3,020	2,920	2,730	2,920	7,560	16,800	24,500	17,500	4,480	2,460	2,730
25	3,410	2,920	3,210	2,820	3,020	7,120	19,800	22,600	15,900	4,370	2,370	2,550
26	3,620	3,020	3,820	2,730	3,020	6,040	19,800	20,900	15,000	4,480	2,370	2,370
27	3,510	2,640	3,930	2,550	2,920	5,290	18,300	20,900	14,500	4,370	2,370	2,300
28	3,310	2,120	2,920	2,120	2,920	4,700	19,300	22,600	15,400	4,040	2,370	2,120
29	3,110	2,280	2,280	1,820	2,920	4,700	22,000	26,800	14,100	3,820	2,280	2,120
30	3,110	3,310	2,370	1,690	-	5,910	26,200	29,500	18,800	3,720	2,300	2,550
31	3,510	-	3,210	2,040	-	6,940	-	32,500	-	3,620	2,200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-foot
October	91,010	4,700	2,120	2,936	0.307	0.38	180,500
November	105,460	7,280	2,120	3,512	.367	.41	209,200
December	113,940	9,260	1,860	3,676	.384	.44	226,000
Calendar year 1943	6,896,640	28,800	1,920	12,890	1.97	26.79	13,680,000
January	79,840	3,310	1,680	2,575	.269	.31	158,400
February	101,620	6,300	2,370	3,504	.366	.39	201,600
March	165,160	9,360	2,920	5,328	.557	.64	327,600
April	547,680	32,300	2,260	18,260	1.91	2.15	1,065,000
May	935,400	45,400	20,900	31,080	3.25	3.74	1,911,000
June	601,500	35,000	12,800	20,060	2.10	2.34	1,194,000
July	199,100	11,600	3,620	6,423	.671	.77	394,900
August	91,740	4,370	2,200	2,959	.303	.36	182,000
September	70,890	3,310	1,810	2,535	.247	.28	140,600
Water year 1943-44	3,131,630	48,400	1,680	8,556	.894	12.16	6,212,000

Time basis. Pacific war time. To convert war time to standard time, subtract 1 hour.

Lochsa River near Lowell, Idaho

Location.— Water-stage recorder, lat. 46°09', long. 115°35', in SW¹/₄SE¹/₄ sec. 33, T. 33 N., R. 7 E., three-quarters of a mile upstream from Lowell post office, seven-eighths of a mile upstream from mouth, and 1¹/₄ miles downstream from Pete King Creek.

Drainage area.— 1,180 square miles.

Records available.— November 1910 to August 1912 (gage heights only), October 1929 to September 1944.

Average discharge.— 15 years, 2,426 second-feet.

Extremes.— Maximum discharge during year, 11,500 second-feet May 16 (gage height, 7.43 feet); minimum daily, 230 second-feet Dec. 12, Jan. 11.

1929-44: Maximum discharge, 34,800 second-feet June 10, 1933 (gage height, 13.44 feet), from rating curve extended above 25,000 second-feet; minimum, probably less than 100 second-feet Jan. 8, 1937, during period of ice effect.

Remarks.— Records excellent except those for periods of ice effect, which are fair. No diversion.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	355	460	649	b480	b410	467	908	5,020	7,740	2,520	673	415
2	350	422	602	b470	b470	474	1,150	4,310	6,990	2,380	657	494
3	344	448	714	467	*b450	464	1,510	4,120	5,920	2,240	641	494
4	339	937	862	b380	b470	480	2,080	4,410	6,350	2,100	625	484
5	361	1,140	826	b390	b500	501	2,850	5,240	8,150	2,030	602	416
6	422	871	618	b420	b650	467	2,680	6,510	4,820	1,900	588	397
7	415	665	572	b340	b850	441	2,600	7,340	4,820	1,780	588	379
8	379	565	588	b260	b700	501	2,380	6,990	5,690	1,680	565	361
9	355	558	529	b280	b600	665	2,170	6,990	6,270	1,590	565	355
10	365	545	367	b250	b550	1,160	2,106	6,150	6,050	1,530	572	344
11	448	629	b280	b230	b520	908	2,240	6,270	5,020	1,480	558	339
12	673	615	b250	b270	b500	773	3,070	7,240	5,870	1,400	543	335
13	565	494	*b300	b400	b490	708	2,990	5,250	5,240	1,310	529	328
14	467	497	b330	b480	b480	550	2,680	9,850	4,820	1,250	730	339
15	422	454	b330	b440	474	610	2,380	11,000	4,810	1,200	662	441
16	409	434	b360	b450	b480	*610	2,170	10,700	4,710	1,150	697	558
17	409	428	b400	b480	474	739	2,030	9,580	4,820	1,100	610	722
18	467	474	b860	b460	494	853	1,900	9,880	4,510	1,040	558	610
19	460	656	543	b420	467	953	1,820	9,310	4,120	1,020	522	589
20	434	543	515	b400	b420	782	1,780	7,240	3,840	1,300	501	474
21	441	543	b450	b390	b440	714	1,720	6,750	5,760	1,140	494	454
22	536	501	b400	b370	454	689	1,960	6,390	4,410	995	480	515
23	529	454	b420	b380	454	880	2,240	5,570	3,930	937	460	610
24	487	448	b500	b410	480	995	2,750	5,130	3,480	890	448	558
25	508	474	558	b420	467	844	3,070	4,810	3,280	908	441	494
26	515	397	558	b400	454	773	2,910	4,510	3,300	937	441	454
27	501	512	487	b350	448	657	3,070	4,820	3,400	853	434	428
28	480	328	b350	b280	441	649	3,570	5,800	3,570	790	422	415
29	467	474	b300	b250	448	665	4,310	6,750	3,070	748	415	428
30	522	480	b450	b250	-	773	5,130	7,240	2,780	714	415	515
31	515	-	b500	b300	-	844	-	7,740	-	689	403	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff	
						Inches	Acres-foot
October	15,930	673	339	446	0.381	0.44	27,630
November	15,914	1,140	530	449	0.449	.50	31,660
December	15,106	862	230	497	0.418	.48	29,660
Calendar year 1943	1,304,182	18,700	230	3,573	3.03	41.10	2,587,000
January	11,607	480	230	371	.314	.36	22,690
February	14,535	850	410	501	.425	.46	28,850
March	21,478	1,160	441	693	.587	.68	46,600
April	74,148	5,130	908	2,472	2.09	2.34	147,100
May	211,510	11,000	4,180	6,316	5.78	6.66	419,100
June	140,530	7,740	2,750	4,694	3.97	4.45	278,700
July	41,611	2,580	698	1,342	1.14	1.31	82,530
August	17,039	862	403	550	.466	.54	33,800
September	15,652	782	338	455	.386	.43	27,080
Water year 1943-44	590,758	11,000	230	1,614	1.37	16.65	1,176,000

* Winter discharge measurement made on this day.

b Stage-discharge relation affected by ice.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

South Fork Clearwater River near Grangeville, Idaho

Location.— Staff gage, lat. 45°55', long. 116°04', in SE¼ sec. 30, T. 30 N., R. 4 E., just downstream from powerhouse of Washington Water Power Co.; 6 miles southeast of Grangeville.

Drainage area.— 865 square miles.

Records available.— November 1910 to September 1916, April 1923 to September 1944.

Average discharge.— 25 years (1912-16, 1923-44), 804 second-feet.

Extremes.— Maximum discharge observed during year, 4,080 second-feet June 22 (gage height, 7.40 feet); minimum daily, 85 second-feet Jan. 11; minimum, probably less than 10 second-feet for parts of many days while plant was shut down to refill pond.

1910-16, 1923-44: Maximum discharge observed, 9,830 second-feet May 30, 1912 (gage height, 9.7 feet), from rating curve extended above 6,500 second-feet; minimum daily, 41 second-feet Nov. 22, 1931; minimum, less than 10 second-feet for parts of many days while plant was shut down to refill pond.

Remarks.— Records good above 400 second-feet and poor below. Diurnal fluctuation caused by power plant just above station. No diversion for irrigation. Gage read twice daily.

Cooperation.— Gage-height record furnished by Washington Water Power Co. in connection with a Federal Power Commission project.

Rating table, water year 1943-44, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 4 to Jan. 20)

2.5	79	3.3	307	5.0	1,340
2.7	118	3.6	441	5.5	1,780
2.9	169	4.0	649	6.0	2,270
3.1	232	4.5	960	7.0	3,490

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	150	164	175	161	b160	169	303	2,170	2,270	1,420	e291	158
2	150	150	166	172	169	169	354	2,070	2,070	1,340	276	272
3	160	156	164	169	169	169	594	1,510	2,360	1,260	268	303
4	156	229	199	175	*164	169	706	1,600	1,880	1,180	261	222
5	161	622	175	175	161	169	1,180	1,880	1,690	1,100	254	196
6	178	349	175	169	e169	169	1,180	2,070	1,690	960	254	172
7	161	206	130	b120	232	164	1,100	2,360	1,600	926	258	169
8	142	181	164	b100	209	169	1,030	2,380	1,690	860	236	153
9	147	175	142	b100	187	193	926	2,490	1,600	827	e225	147
10	153	169	103	b100	175	257	827	2,380	1,690	766	e225	147
11	150	166	88	b85	184	295	926	2,380	1,510	736	225	142
12	356	164	b110	b90	187	254	1,260	2,380	2,070	706	206	137
13	246	156	b120	b140	b180	236	1,260	2,490	1,970	649	206	137
14	127	156	b120	b160	b170	187	1,030	2,720	1,690	622	376	132
15	169	132	*b120	b180	169	206	892	2,960	1,690	594	394	142
16	150	187	130	184	172	e210	755	2,840	2,070	568	311	161
17	164	153	184	161	172	216	755	2,490	1,880	516	254	158
18	172	206	166	166	169	246	706	3,090	1,880	490	232	187
19	166	193	181	161	169	260	706	3,490	1,880	490	225	181
20	159	161	169	166	169	246	796	2,720	1,780	516	202	181
21	158	169	175	b140	e169	236	765	2,600	1,690	568	e200	175
22	161	164	158	b140	175	225	892	2,380	3,090	490	193	169
23	164	161	153	b140	172	246	1,100	2,270	3,220	418	181	164
24	161	142	158	b140	166	268	1,340	1,970	2,720	394	181	155
25	172	118	150	b150	e169	260	1,420	1,780	2,720	376	175	146
26	175	116	161	b150	172	236	1,260	1,780	2,170	376	178	142
27	161	156	b140	b130	172	212	1,260	1,780	2,170	367	184	140
28	156	147	b130	b100	169	199	1,510	1,880	1,970	359	175	137
29	156	175	b100	b100	169	246	1,880	1,970	1,690	356	169	137
30	161	184	b140	b100	-	280	2,170	2,170	1,610	320	e160	169
31	181	-	164	b120	-	280	-	2,380	-	315	e160	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches	Acres-feet
October	5,252	336	142	169	0.196	0.23	10,420
November	5,566	622	116	185	.214	.24	11,020
December	4,610	199	88	149	.173	.20	9,140
Calendar year 1943	398,835	5,660	85	1,093	1.26	17.15	791,100
January	4,324	184	85	139	.161	.19	8,580
February	5,069	232	160	175	.202	.22	10,060
March	6,821	295	164	220	.254	.29	13,530
April	30,874	2,170	303	1,029	1.19	1.33	61,240
May	71,070	3,490	1,510	2,293	2.65	3.06	141,000
June	59,490	3,220	1,510	1,953	2.29	2.56	118,000
July	20,699	1,420	516	872	.777	.90	41,330
August	7,116	394	160	230	.266	.31	14,110
September	5,028	303	132	168	.194	.22	9,970
Water year 1943-44	226,039	3,490	85	618	.714	9.75	448,400

* Winter discharge measurement made on this day.

† Stage-discharge relation affected by ice.

‡ Gage readings not representative of mean for days; discharge computed on basis of gage readings, weather records, 1 discharge measurement, and records for other stations in Clearwater River Basin.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

CLEARWATER RIVER BASIN

219

North Fork Clearwater River near Ahsahka, Idaho

Location.- Water-stage recorder, lat. 46°31', long. 116°18', in SE¼ sec. 26, T. 37 N., R. 1 E., at Bruce's Eddy, 1½ miles northeast of Ahsahka and 2 miles upstream from mouth.

Drainage area.- 2,440 square miles.

Records available.- August 1926 to September 1944.

Average discharge.- 18 years, 5,182 second-feet.

Extremes.- Maximum discharge during year, 14,400 second-feet May 16 (gage height, 12.14 feet); minimum, 673 second-feet Jan. 30 (gage height, 2.02 feet), but may have been less during periods of ice effect.

1926-44: Maximum discharge, 100,000 second-feet Dec. 23, 1933 (gage height, 35.5 feet, from floodmarks), from rating curve extended above 24,000 second-feet by logarithmic plotting; minimum, probably less than 250 second-feet Jan. 8, 1937, during period of ice effect.

Remarks.- Records excellent except those for Dec. 4-10, which are good, and those for periods of ice effect or no gage-height record, which are fair. No diversion or regulation above station.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,020	1,380	2,330	1,460	1,220	1,280	2,760	9,940	8,130	3,040	1,320	938
2	1,020	1,250	2,330	1,380	1,420	1,280	3,280	9,090	8,130	2,920	1,280	1,020
3	1,020	1,280	3,070	1,350	1,420	1,280	4,430	8,460	7,210	2,810	1,280	1,080
4	995	2,430	7,210	b1,150	1,380	1,320	6,060	8,610	6,620	2,700	1,280	1,020
5	995	3,040	5,360	b1,200	1,380	1,360	8,610	9,260	6,340	2,590	1,280	965
6	1,060	2,480	3,280	1,220	1,730	1,320	8,770	10,300	5,920	2,640	1,220	938
7	1,120	1,860	2,380	b1,000	3,400	1,220	7,970	11,500	5,780	2,430	1,180	910
8	1,020	1,530	2,180	b800	3,160	1,220	7,510	11,400	6,480	2,380	1,180	882
9	1,020	1,460	1,990	b850	2,380	1,570	7,210	11,000	6,620	2,280	1,220	855
10	1,060	1,420	1,530	b750	1,940	3,040	7,060	10,100	5,920	2,230	1,250	828
11	1,570	1,380	b1,000	b700	1,730	3,400	6,910	9,600	5,500	2,230	1,250	928
12	2,580	1,350	b700	b800	1,610	2,700	11,200	9,940	5,360	2,130	1,220	828
13	1,940	1,320	b800	b1,200	1,530	2,180	11,700	10,800	5,220	1,990	1,150	800
14	1,380	1,320	b1,000	b1,250	1,490	1,690	9,770	12,100	4,950	1,940	1,570	800
15	1,220	1,220	1,060	b1,250	1,380	1,610	8,290	13,400	4,560	1,900	1,690	855
16	1,250	1,180	1,080	1,350	1,320	1,860	7,210	13,600	4,950	1,860	1,530	1,060
17	1,280	1,150	1,120	1,380	1,350	1,900	8,340	12,600	5,500	1,810	1,320	1,420
18	1,420	1,250	1,280	1,420	1,350	2,040	5,920	11,900	4,950	1,770	1,180	1,460
19	1,460	1,280	1,530	1,350	1,350	2,230	5,600	11,700	4,690	1,690	1,150	1,220
20	1,250	b1,320	1,380	1,250	1,280	2,180	5,220	10,300	4,430	1,860	1,080	1,150
21	1,220	a1,400	1,280	1,180	1,280	1,990	5,080	9,600	4,300	2,040	1,080	1,550
22	1,610	a1,400	1,150	1,150	1,280	1,860	5,360	8,930	5,080	1,690	1,060	1,350
23	1,690	a1,300	1,220	1,150	1,280	1,900	5,920	8,290	4,560	1,610	1,020	1,280
24	1,610	a1,100	1,580	1,220	1,280	2,640	6,910	7,810	4,040	1,570	1,020	1,150
25	1,650	a1,200	1,650	1,220	1,280	2,380	7,660	7,360	3,780	1,610	995	1,080
26	1,730	a1,100	1,900	1,220	1,280	2,180	7,360	6,910	3,650	1,690	1,020	965
27	1,610	b910	1,730	1,120	1,280	1,900	7,060	6,760	3,660	1,570	1,020	938
28	1,460	a800	1,550	882	1,250	1,730	7,510	7,210	3,910	1,460	995	938
29	1,380	a1,100	1,150	750	1,250	1,810	8,610	7,810	3,520	1,420	965	1,020
30	1,460	1,380	1,420	800	-	2,080	9,770	7,970	3,280	1,580	938	1,520
31	1,610	-	1,460	938	-	2,430	-	8,290	-	1,380	938	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches	Runoff Acre-feet
October	42,890	2,590	995	1,384	0.587	0.65	85,070
November	42,690	3,040	800	1,420	.582	.65	84,480
December	58,400	7,210	700	1,864	.772	.89	115,600
Calendar year 1943	2,428,690	31,500	700	6,648	2.72	36.99	4,814,000
January	54,790	1,460	700	1,122	.460	.53	69,000
February	45,280	3,400	1,220	1,561	.640	.69	89,810
March	59,470	3,400	1,220	1,918	.786	.91	118,000
April	212,960	11,700	2,760	7,099	2.91	3.25	422,400
May	303,030	13,600	6,760	9,776	4.01	4.62	601,100
June	157,030	8,130	3,280	5,234	2.15	2.59	311,500
July	62,460	3,040	1,320	2,015	.828	.95	123,800
August	36,621	1,690	958	1,181	.484	.56	72,640
September	31,698	1,650	800	1,057	.433	.48	62,970
Water year 1943-44	1,087,219	13,600	700	2,971	1.22	16.67	2,167,000

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for Clearwater River at Kamiah and at Spalding.

b Stage-discharge relation affected by ice.

c Computed from staff-gage readings.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

CLEARWATER RIVER BASIN

Mission Creek near Winchester, Idaho

Location.- Water-stage recorder, lat. 46°11', long. 116°39', in NE¼ sec. 24, T. 33 N., R. 3 W., 4 miles southwest of Winchester

Records available.- December 1940 to September 1944.

Extremes.- Maximum discharge during year, 133 second-feet Mar. 30, from rating curve extended above 90 second-feet; maximum gage height, 3.61 feet Mar. 10 (ice jam); minimum discharge, 0.01 second-foot Nov. 27 (gage height, 1.11 feet).
1940-44: Maximum discharge, 176 second-feet Apr. 1, 1943, from rating curve extended above 90 second-feet; maximum gage height, 3.67 feet Jan. 17, 1943 (ice jam); minimum discharge, that of Nov. 27, 1943.

Remarks.- Records good except those for periods of ice effect and those below about 1 second-foot, which are poor.

Discharge, in second-feet, water year October 1943 to September 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.08	0.1	0.8				45	14	3.7	1.2	0.08	0.06
2	.08	.1	.4		0.05		51	13	3.1	1.2	.08	.08
3	.08	.3	.7				52	11	3.1	1.1	.08	.08
4	.07	1.8	1.0			1.0	47	10	2.3	1.1	.08	.06
5	.07	1.0	.6				61	8.9	2.0	1.1	.07	.06
6	.08	.7	.2				36	8.6	1.8	.9	.07	.06
7	.08	.6	.2				33	7.5	1.8	.8	.07	.06
8	.08	.4	.2			2.0	30	7.5	1.8	.8	.08	.06
9	.08	.4	.2			20	30	7.5	1.8	.7	.2	.06
10	.2	.4	.1		1.5	20	28	7.2	1.7	.7	.1	.06
11	.4	.4	(*)			20	28	6.4	1.4	.7	.08	.06
12	.2	.4				15	44	5.8	1.2	.5	.06	.06
13	.1	.3				10	34	5.6	2.1	.5	.07	.06
14	.1	.4				9	32	5.0	1.7	.4	.08	.06
15	.1	.3				9	27	4.8	1.3	.4	.09	.09
16	.2	.3		0.05		9	22	4.3	1.4	.3	.09	.2
17	.2	.3				9	20	4.3	6.1	.3	.07	.1
18	.2	.3				15	19	4.8	5.7	.3	.07	.1
19	.2	.2				*12	17	4.3	3.7	.3	.07	.09
20	.1	*.3				10	20	3.9	4.3	.3	.07	.08
21	.2	.2	.05			9	30	3.7	4.3	.2	.06	.08
22	.3	.2			1.0	8	27	3.7	4.5	.2	.06	.1
23	.3	.2				12	24	3.7	3.3	.2	.06	.08
24	.3	.3				10	38	3.5	2.5	.1	.06	.07
25	.3	.1				8	34	3.1	2.3	.2	.07	.07
26	.2	.07				6	26	2.7	2.1	.2	.07	.07
27	.2	.07				5	22	2.4	2.0	.1	.07	.07
28	.2	.2				15	20	2.1	1.9	.1	.06	.07
29	.2	.2				25	18	2.3	1.7	.09	.06	.09
30	.5	.3				52	17	5.8	1.3	.09	.06	.09
31	.3	-				31	-	4.3	-	.09	.06	-

Month	Second-foot-days	Maximum	Minimum	Mean	Runoff in acre-feet
October.....	5.70	0.5	0.07	0.184	11
November.....	10.74	1.8	.07	.358	21
December.....	5.45	1.0	-	.176	11
Calendar year 1943	3,939.29	124	-	10.8	7,810
January.....	1.65	-	-	.050	3.1
February.....	29.25	-	-	1.01	58
March.....	348.0	52	-	11.2	690
April.....	932	61	17	31.1	1,850
May.....	181.7	14	2.1	5.86	360
June.....	77.9	5.1	1.2	2.60	155
July.....	16.17	1.2	.09	.489	30
August.....	2.34	.2	.05	.075	4.6
September.....	2.28	.2	.05	.075	4.5
Water year 1943-44	1,512.05	61	-	4.40	3,800

* Winter discharge measurement or field estimate made on this day.

Note.- Stage-discharge relation affected by ice Dec. 7, 8, Dec. 10 to Mar. 29 (no gage-height record Dec. 13, 15-20, 22-26, Jan. 14-15, 31, Feb. 22-26, Mar. 24-28); discharge computed on basis of 2 field estimates, 1 discharge measurement, weather records, and records for stations on nearby streams.

Time basis: Pacific war time. To convert war time to standard time, subtract 1 hour.

MISCELLANEOUS DISCHARGE MEASUREMENTS

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Measurements of stream flow in the Snake River Basin made at points other than gaging stations are given in the following table:

Miscellaneous discharge measurements in Snake River Basin during water year
October 1943 to September 1944

Snake River main stem, Idaho

Date	Stream	Tributary to or diverting from--	Locality	Discharge (sec.-ft.)
Apr. 10	S Snake River.....	Columbia River..	W ¹ / ₂ sec. 1, T. 8 S., R. 13 E., at site of former gaging station, just upstream from Upper Salmon Falls, 1/8 mile upstream from Owsley Bridge, and 4 miles south of Hagerman.	11,900
June 16	do.....	do.....	do.....	23,700

Tributaries between Portneuf River and Salmon Falls Creek, Idaho

May 19	Blue Lakes Outlet (two channels).	S Snake River.....	SW ¹ / ₄ sec. 28, T. 9 S., R. 17 E., at mouth, 4 miles north of Twin Falls.	210
July 28	do.....	do.....	do.....	206
Sept. 14	Blue Lakes Outlet (east channel only).	do.....	do.....	171
Sept. 21	Blue Lakes Outlet (two channels).	do.....	do.....	238

Salmon Falls Creek Basin, Idaho

Aug. 1	Lateral No. 1 of Salmon River Canal Co.	Salmon River Canal Co. canal.	NE ¹ / ₄ sec. 7, T. 13 S., R. 16 E., at rating bridge and gage 1,000 feet below canal head gate and 4 miles southwest of Hollister.	495
July 11	Lateral No. 2135 of Salmon River Canal Co.	Lateral No. 213 of Salmon River Canal Co. canal.	Sec. 18, T. 11 S., R. 16 E., at gage, 8 miles north of Hollister.	16.0

Tributaries and diversions between Big Wood River and Owyhee River, Idaho

Mar. 29	Canyon Creek....	S Snake River.....	Sec. 36, T. 2 S., R. 6 E., immediately below head gates of Mountain Home feeder canal, 5 miles north of Mountain Home.	†.5
May 16	do.....	do.....	do.....	†1.5
July 7	do.....	do.....	do.....	†1.0
Aug. 10	do.....	do.....	do.....	†2.0
Nov. 8	Ake lateral No. 2	Mountain Home feeder canal.	Sec. 36, T. 2 S., R. 6 E., at head, 5 miles north of Mountain Home.	2.32
Feb. 9	do.....	do.....	do.....	0
Mar. 10	do.....	do.....	do.....	†.4
Mar. 29	do.....	do.....	do.....	0
Apr. 7	do.....	do.....	do.....	3.69
May 16	do.....	do.....	do.....	†5.4
July 7	do.....	do.....	do.....	†2.0
Aug. 10	do.....	do.....	do.....	†1.28
Sept. 12	do.....	do.....	do.....	2.18

† Estimated.

Malheur River Basin, Oreg.

Aug. 2	Warm Springs Creek	North Fork Malheur River.	SE ¹ / ₄ sec. 1, T. 19 S., R. 37 E., near Beulah.	2.5
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Weiser River Basin, Idaho

Apr. 27	Johnson Creek....	W Weiser River....	SE ¹ / ₄ sec. 36, T. 17 N., R. 3 W., above Johnson Park Creek, 10 miles northwest of Council.	3.36
Oct. 14	Johnson Park Creek.	Johnson Creek...	SE ¹ / ₄ sec. 36, T. 17 N., R. 3 W., at mouth, 10 miles northwest of Council.	.73
Apr. 27	do.....	do.....	do.....	11.1
July 13	do.....	do.....	do.....	.74
Oct. 13	Pine Creek.....	W Weiser River....	Sec. 32, T. 15 N., R. 3 W., just below mouth of West Fork Pine Creek and 3 miles west of Cambridge.	13.7
18	Monroe Creek....	do.....	NE ¹ / ₄ sec. 34, T. 12 N., R. 5 W., at bridge on farm road, 200 feet west of U. S. Highway 95 and 6 miles north of Weiser.	1.64
Dec. 17	do.....	do.....	do.....	†1.6
Jan. 23	do.....	do.....	do.....	2.48
Mar. 13	do.....	do.....	do.....	13.2
Apr. 14	do.....	do.....	do.....	13.4
Apr. 26	do.....	do.....	do.....	11.1
May 17	do.....	do.....	do.....	†.3
May 25	do.....	do.....	do.....	0
July 7	do.....	do.....	do.....	†.25
Aug. 26	do.....	do.....	do.....	0

† Estimated.

Imnaha River Basin, Oreg.

Aug. 18	Imnaha River....	S Snake River.....	T. 21 N., R. 47 E. (unsurveyed), 0.3 mile below Coverdale guard station.	87.7
18	do.....	do.....	0.1 mile above Gunboat Creek and 5 miles northeast of Coverdale.	91.6

Salmon River Basin, Idaho

Sept. 27	Diversion for water supply of village of Challie, Idaho.	Garden Creek....	Sec. 32, T. 14 N., R. 19 E., at waterworks west of village.	†1.68
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