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HAROLD L. ICKES, Secretary
GEOLOGICAL SURVEY
W. E. WRATHER, Director

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SURFACE WATER SUPPLY *of the* UNITED STATES

1942

PART 13

SNAKE RIVER BASIN

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

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Plate 1. Gaging-station structures: A, Snake River at King Hill, Idaho; B, Snake River near Murphy, Idaho; C, Snake River near Clarkston, Wash..... 2

SURFACE WATER SUPPLY OF SNAKE RIVER BASIN, 1942

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, 1942. 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 9,400 gaging stations in the United States and also at many gaging stations in Alaska and Hawaii. In July 1942, 4,970 gaging stations were being maintained by the Geological Survey and cooperating organizations. Miscellaneous discharge measurements were made 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 on page 11.

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

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

EXPLANATION OF DATA

The base data collected at gaging stations consist of records of stage, measuremsnts 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 on plate 1.

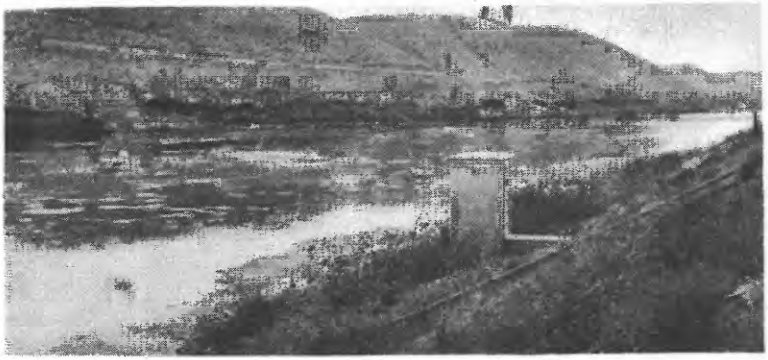
Rating tables giving the discharge for any stage are prepared from the discharge measurements. The application of the daily mean gage height to these rating tables gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. If the stage-discharge relation is subject 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 for them the rate of change of stage is used as a factor in the determination of discharge.

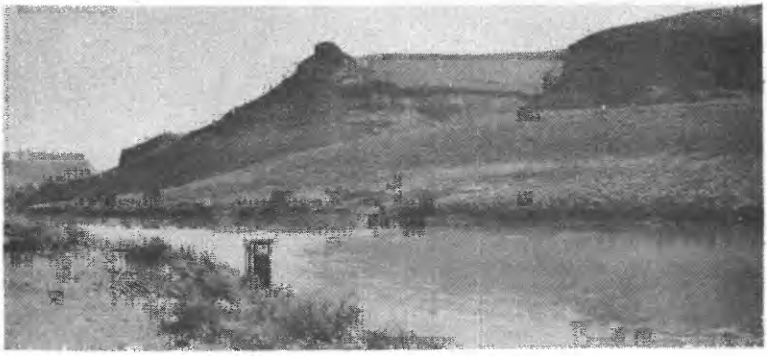
At most gaging stations in the northern part of the United States and at some in the mountainous regions of other parts the stage-discharge relation is affected by ice during the winter, which makes it impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed 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. The days included in the periods of ice effect and the days during the winter period on which discharge measurements were made are indicated in the table of symbols referring to footnotes or are given in a general note following the table.

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 run-off. Skeleton rating 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.

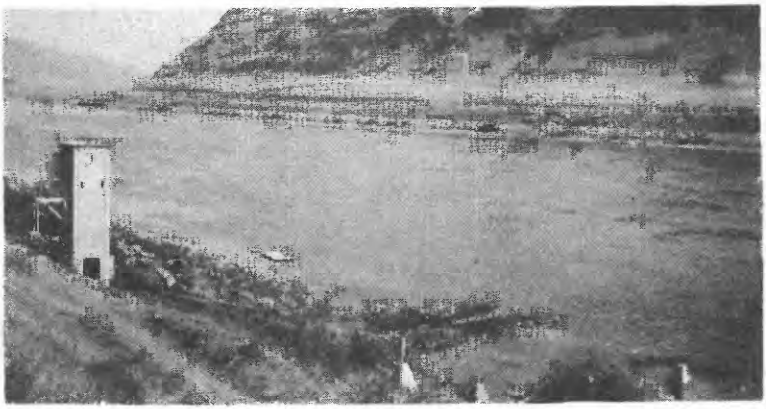
The description of the station gives the type of gage, its latitude and longitude determined from the best available maps, and information in regard to diversions that



A. SNAKE RIVER AT KING HILL, IDAHO.



B. SNAKE RIVER NEAR MURPHY, IDAHO.



C. SNAKE RIVER NEAR CLARKSTON, WASH.

GAGING-STATION STRUCTURES.

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 stations having drainage areas of less than 10 square miles or more than 10,000 square miles or if the peak discharges usually exceed the corresponding mean discharges for the day by less than 10 percent.

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 flashy floods 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. 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.

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 and 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. This made February 9 a 23-hour day. Time prior to 2 a.m.

February 9 as given herein refers to standard time; time after 2 a.m. February 9 refers to war time. To convert war time to standard time, subtract 1 hour.

Records of daily discharge prior to February 9, 1942, published herein have been computed on the basis of standard time. Records subsequent to that date have been computed on the basis of war time. The discharge given for February 9 is the mean for 23 hours. The mean discharge and run-off for the month of February have been computed from the total second-foot-days for the month without adjustment for the fact that February 9 was a 23-hour day. The small error resulting from this procedure has been disregarded.

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 daily records are accurate within 5 percent; "good," within 10 percent; "fair," within 15 percent; and "poor," within 20 or a higher percent. The records of monthly and yearly mean discharge and run-off 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 "run-off 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 of reservoirs or for other changes incident to use and control. Figures of second-feet per square mile and run-off 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 slope and eastern Gulf of Mexico basins (James River to Mississippi River).

3. Ohio River Basin.
4. St. Lawrence River Basin.
5. Hudson Bay and upper Mississippi River basins.
6. Missouri River Basin.
7. Lower Mississippi River Basin.
8. Western Gulf of Mexico basins.
9. Colorado River Basin.
10. The Great Basin.
11. Pacific slope basins in California.
12. 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 local offices of the water-resources branch of the Geological Survey as follows:

East of the Mississippi River:
Albany, N. Y., 528 Federal Building.
Atlanta, Ga., 3 North Rhodes Center NW.
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., 119 United States Courthouse.
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.
New Philadelphia, Ohio, Muskingum Watershed Conservancy District Building.
Ocala, Fla., 302 Post Office Building.
Pittsburgh, Pa., 438-M New Federal Building.
Raleigh, N. C., 242 Education Building.
St. Paul, Minn., 1427 New Post Office Building.
Trenton, N. J., 228 Federal Building.
Urbana, Ill., 14 Post Office Annex, Elm Street.
Williamsburg, Ky., Kentucky Highway Building.

West of the Mississippi River:
Austin, Tex., 302 West 15th Street.
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., 1404 Statehouse.
Los Angeles, Calif., 429-F United States Post Office and Courthouse.
Oklahoma City, Okla., 303 Capital Office Building.
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:

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 Sept. 1890.
12th A, pt. 2	....do.....	1884 to June 30, 1891.
13th A, pt. 3	....do.....	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871-93).....	1888 to Dec. 31, 1893.
B 131.....	Descriptions, measurements, gage heights, and ratings.....	1893-94.
16th A, pt. 2	Descriptive information only.	
B 140.....	Descriptions, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11.....	Gage heights (also gage heights for earlier years).....	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895-96.
W 15.....	Descriptions, measurements, and gage heights 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 (also some long-time records).	1897.
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 (also for many earlier years).....	1898.
W 35 to 39...	Descriptions, measurements, gage heights, and ratings.....	1899.
21st A, pt. 4	Monthly discharge.....	1899.
W 47 to 52...	Descriptions, measurements, gage heights, and ratings.....	1900.
22d A, pt. 4	Monthly discharge.....	1900
W 65, 66.....	Descriptions, measurements, gage heights, and ratings.....	1901.
W 75.....	Monthly discharge.....	1901.

Papers on surface water supply containing records from 1899 to date, grouped by years and drainage basins, are listed by number on page 7. The data for any particular 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. 7), contains a summary of yearly discharge at gaging stations in the area covered by that report. Gaging stations at which 10 or more complete years of record have been collected are represented. These summaries are available also as separate reprints.

Numbers of water-supply papers containing results of stream measurements, 1899-1942

(For basins included see p. 4)

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1899 a...	35	b35, 36	36	36	36	c36, 37	37	37	d37, 38	38, e39	38, f39	38	38	38
1900 g...	47, h48	48	48, 149	49	49	49, j50	60	50	50	51	51	51	51	51
1901.....	65, 75	65, 75	65, 75	65, 75	k65, 66, 75	66, 75	k65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902.....	82	b82, 83	83	m82, 83	k83, 85	84	k83, 84	84	85	85	85	85	85	85
1903.....	97	b97, 98	98	97	k98, 99, n100	99	k98, 99	99	100	100	100	100	100	100
1904.....	o124, p125, q126	q126, 127	128	129	k128, 130	130, r131	k128, 131	132	133	133, s134	134	135	135	135
1905.....	o165, p166, q167	q167, 168	169	170	171	172	k169, 173	174	175, t177	176, s177	177	178	178	u177, 178
1906.....	o201, p202, q203	q203, 204	205	206	207	208	k205, 209	210	211, t213	212, s213	213	214	214	214
1907-8...	241	242	243	244	245	246	247	248	249	250, s251	251	252	252	252
1909.....	261	262	263	264	265	266	267	268	269	270, s271	271	272	272	272
1910.....	281	282	283	284	285	286	287	288	289	290	291	292	292	292
1911.....	301	302	303	304	305	306	307	308	309	310	311	312	312	312
1912.....	321	322	323	324	325	326	327	328	329	330	331	332-A	332-B	332-C
1913.....	351	352	353	354	355	356	357	358	359	360	361	362-A	362-B	362-C
1914.....	381	382	383	384	385	386	387	388	389	390	391	392	393	394
1915.....	401	402	403	404	405	406	407	408	409	410	411	412	413	414
1916.....	431	432	433	434	435	436	437	438	439	440	441	442	443	444
1917.....	451	452	453	454	455	456	457	458	459	460	461	462	463	464
1918.....	471	472	473	474	475	476	477	478	479	480	481	482	483	484
1919-20..	501	502	503	504	505	506	507	508	509	510	511	512	513	514
1921.....	521	522	523	524	525	526	527	528	529	530	531	532	533	534
1922.....	541	542	543	544	545	546	547	548	549	550	551	552	553	554
1923.....	561	562	563	564	565	566	567	568	569	570	571	572	573	574
1924.....	581	582	583	584	585	586	587	588	589	590	591	592	593	594
1925.....	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1926.....	621	622	623	624	625	626	627	628	629	630	631	632	633	634
1927.....	641	642	643	644	645	646	647	648	649	650	651	652	653	654
1928.....	661	662	663	664	665	666	667	668	669	670	671	672	673	674
1929.....	681	682	683	684	685	686	687	688	689	690	691	692	693	694
1930.....	696	697	698	699	700	701	702	703	704	705	706	707	708	709
1931.....	711	712	713	714	715	716	717	718	719	720	721	722	723	724
1932.....	726	727	728	729	730	731	732	733	734	735	736	737	738	739
1933.....	741	742	743	744	745	746	747	748	749	750	751	752	753	754
1934.....	756	757	758	759	760	761	762	763	764	765	766	767	768	769
1935.....	781	782	783	784	785	786	787	788	789	790	791	792	793	794
1936.....	801	802	803	804	805	806	807	808	809	810	811	812	813	814
1937.....	821	822	823	824	825	826	827	828	829	830	831	832	833	834
1938.....	851	852	853	854	855	856	857	858	859	860	861	862	863	864
1939.....	871	872	873	874	875	876	877	878	879	880	881	882	883	884
1940.....	891	892	893	894	895	896	897	898	899	900	901	902	903	904
1941.....	921	922	923	924	925	926	927	928	929	930	931	932	933	934
1942.....	951	952	953	954	955	956	957	958	959	960	961	962	963	964

a Rating tables and index to Water-Supply Papers 35-39 contained in Water-Supply Paper 39. Tables of monthly discharge for 1899 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 and data on precipitation, wells, and irrigation in California and Utah contained in Water-Supply Paper 52. Monthly discharge for 1900 in 22d Annual Report, part 4.
h Wissahickon and Schuylkill Rivers to James River.
i Scioto River.
j Loup, Platte, and Elkhorn Rivers and tributaries below Platte River.
k Tributaries of Mississippi River from east.
m Lake Ontario and tributaries to St. Lawrence River proper.
n Hudson Bay only.
o New England rivers only.
p Hudson River to Delaware River, inclusive.
q Susquehanna River to Yadkin River, inclusive.
r Platte and Kansas Rivers.
s The Great Basin in California, except Truckee and Carson River Basins.
t Below mouth of Gila River.
u Rogue, Umpqua, and Siletz Rivers only.

From time to time 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 in alphabetical order by States and drainage basins.

Reports containing compilations of discharge by States and drainage basins

Water-supply Paper	Period	State or drainage basin and title
		STATE
107	1895-1903	Alabama, Water powers of, with an appendix on stream measurements in Mississippi.
298	1887-1912	California, Water resources of, part 1, Stream measurements in Sacramento River Basin.
299	1878-1912	California, Water resources of, part 2, Stream measurements in San Joaquin River Basin.
300	1891-1912	California, Water resources of, part 3, Stream measurements in the Great Basin and Pacific Coast river basins.
477	1890-1918	California, southern, Surface water supply of Pacific slope of.
597-E	1895-1927	California, Surface water supply of Sacramento River Basin.
636-D	1895-1927	California, Surface water supply of San Joaquin River Basin.
636-E	1894-1927	California, southern, Surface water supply of Pacific slope basins in.
637-A	1895-1927	California, Surface water supply of minor San Francisco Bay, northern Pacific, and Great basins in.
74	1884-1900	Colorado, Water resources of.
197	1895-1905	Georgia, Water resources of.
415	1845-1915	Massachusetts, Surface waters of.
230	1894-1906	Nebraska, Surface water supply of.
370	1878-1910	Oregon, Surface water supply of.
850	1898-1937	Texas, Summary of records of surface waters of.
424	1875-1916	Vermont, Surface waters of.
492	1878-1919	Washington, Summary of hydrometric data in.
870	1919-35	Washington, Summary of records of surface waters of.
156	1895-1905	Wisconsin, northern, Water powers of.
469	1894-1921	Wyoming, Surface waters of, and their utilization.
		DRAINAGE BASIN
395	1888-1914	Colorado River (Ariz., Colo., N. Mex., Utah, Wyo.) and its utilization.
617	1897-1927	Colorado River, upper (Colo., Utah), and its utilization.
517	1889-1920	Great Salt Lake Basin, Water powers of.
618	1894-1926	Green River (Utah, Wyo.) and its utilization.
198	1890-1906	Kennebec River Basin (Maine), Water resources of.
491	1898-1917	Milk River. See St. Mary and Milk Rivers.
536	1895-1920	New Kanawha River Basin (N. C., Va., W. Va.), Surface water supply of.
279	1904-9	Penobscot River Basin (Maine), Water resources of.
192	1895-1906	Potomac River Basin (D. C., Md., W. Va.)
358	1898-1913	Rio Grande Basin (Colo., N. Mex., Tex.), Water resources of, 1888-1913.
491	1898-1917	St. Mary and Milk Rivers (Mont., Canada), Water supply of.
109	1890-1904	Susquehanna River Basin (Pa., Md.), Hydrography of.

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].....	Connecticut State Water Commission.
Georgia.....	1895-1906	Bull. 16, Water powers of Georgia.....	Geological Survey of Georgia.
Do.....	1907-19	Bull. 38, 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.

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
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.....	Iowa State Planning Board.
Do.....	1873-1940	Summaries of flow relating to Iowa streams.	Iowa Geological Survey.
Kansas.....	1895-1919	Surface waters of Kansas.....	Kansas Water Commission.
Do.....	1919-24	....do.....	Do.
Do.....	1924-28	....do.....	Kansas State Board of Agriculture.
Do.....	1928-35	Stream-flow data of Kansas.....	Do.
Do.....	1935-39	....do.....	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.
Minnesota...	1909-12	Water-resources investigation of Minnesota.	State Drainage Commission.
Missouri....	1857-1926	Vol. 20, 2d series, Water resources of Missouri.	Missouri Geological Survey and Water Resources.
De.....	1927-39	Vol. 26, 2d series, Surface waters of Missouri.	Do.
Montana.....	1889-1911	5th biennial report.....	Office of the State engineer.
Do.....	1881-1938	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.....	1914-28	2d hydrographic report.....	Do.
New Jersey..	1891-1928	Bull. 33, Surface water supply of New Jersey.	Department of Conservation and Development.
Do.....	1928-34	Special Rept. 5, Surface water supply of New Jersey.	State Water Policy Commission.
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.
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.[3]	Do.
Utah.....	1889-1905	5th biennial report, State engineer.....	Office of the State Engineer.
Do.....	1906-10	7th biennial report, State engineer.....	Do.
Do.....	1911-1916	10th biennial report, State engineer....	Do.
Virginia....	1895-1927	Bull. 31, Water resources of Virginia...	Conservation Commission.
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 discharge 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, Washington, and Wyoming.

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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 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.

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 1941 to September 1942 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, 1932-42.	Idaho Water District 36.
Antelope Reservoir....	Sec. 32, T. 30 S., R. 45 E., near Danner, Oreg.	1925-27, 1930, 1932-42.	Oregon State engineer.
Bully Creek.....	SW¼ 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.	1933-42.....	Do.
Grande Ronde River....	NW¼ sec. 12, T. 3 S., R. 36 E., at lower reservoir site near La Grande, Oreg.	1937-42.....	Do.
Grassy Creek.....	Below Grassy Lake, near Moran, Wyo....	1941-42.....	Idaho Water District 36.
Jordan Creek.....	9 miles west of Jordan Valley, Oreg...	1930, 1932-42†...	Oregon State engineer.
Lapwai Creek.....	Near Sweetwater, Idaho.....	1940-42.....	Bureau of Reclamation.
Little Minam River....	SE¼ sec. 27, T. 3 S., R. 41 E., 10 miles east of Cove, Oreg.	1938-42.....	Oregon State engineer.
Malheur River.....	Below Nevada Dam, near Vale, Oreg.....	1934, 1936-42†...	Do.
Do.....	SW¼ sec. 32, T. 20 S., R. 41 E., near Namorf, Oreg.	1931-42†.....	Do.
Snake River tributaries.	Near Irwin, Idaho.....	1940-42.....	Idaho Water District 36.

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

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

Stream	Location	Period	Collected by
Teton River tributaries and diversions.	Near Driggs, Idaho.....	1934-42.....	Idaho Water District 36.
Wallowa Lake Reservoir.	At outlet, near Joseph, Oreg.....	1925-42†.....	Oregon State engineer.
Wallowa River.....	Below Wallowa Lake, Oreg.....	1926-42†.....	Do.
Webb Creek.....	Near Sweetwater, Idaho.....	1940-42.....	Bureau of Reclamation.

† 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 1937-42 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 began in 1938 to make studies of run-off from two areas of less than 220 acres each in the vicinity of Emmett, Idaho, and from two areas of less than 180 acres each in the vicinity of Moscow, Idaho. The records are in the files of that organization.

COOPERATION

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

Idaho: Department of Reclamation, E. V. Berg, commissioner.

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.

Funds were furnished by the Corps of Engineers, United States Army, for the construction and maintenance of two gaging stations in Idaho.

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

Assistance in collecting records was rendered also by the following municipality, counties, organizations, corporations, and individuals:

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

Oregon: Warmsprings Irrigation District, Malheur, Baker, Union, and Wallowa Counties, Eastern Oregon Light & Power Co., and Pacific Power & Light Co.

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), A. B. Purton prior to Nov. 30, 1942, and M. T. Wilson (acting) thereafter; 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, engineer in charge, and J. W. Gambrell, assistant 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 1942 (1908-10, fragmentary).

Extremes.- Maximum contents during year 853,380 acre-feet July 1 (elevation, 6,769.25 feet); minimum, 227,740 acre-feet Oct. 1 (elevation, 6,742.26 feet).
1908-42: Maximum contents, 857,220 acre-feet June 23, 1937 (elevation, 6,769.40 feet); no usable contents on 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. This dam washed out in July 1910 and was replaced by an earth dam, forming a reservoir with a usable capacity of 380,000 acre-feet. The earth dam was raised in 1916 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	227,740	266,230	296,540	336,020	363,070	386,260	405,420	464,910	627,480	853,380	681,400	419,540
2	229,780	267,070	297,180	336,880	363,950	386,920	405,870	467,200	633,980	851,580	671,650	414,140
3	231,200	267,900	298,660	337,970	365,050	387,580	406,320	468,800	640,710	850,820	661,240	407,430
4	232,630	270,630	302,900	338,620	366,140	388,250	407,430	471,100	650,340	850,050	651,800	399,830
5	234,060	272,090	303,750	339,270	367,900	388,910	408,550	473,620	662,210	850,050	644,800	391,570
6	235,690	272,930	305,020	339,920	368,780	389,580	409,450	475,910	673,350	850,050	637,620	383,150
7	237,730	273,770	306,300	340,790	370,970	390,020	410,340	477,740	686,030	849,790	629,160	374,960
8	239,160	274,610	307,590	342,310	371,860	390,680	411,240	480,030	700,440	849,790	619,820	367,460
9	240,180	275,650	308,680	343,400	372,740	391,570	412,130	482,780	716,160	849,530	610,020	360,880
10	241,400	276,280	309,740	344,700	373,410	392,460	413,020	486,470	730,710	849,020	601,190	353,860
11	242,630	277,120	310,810	345,560	374,290	393,120	413,920	491,550	744,550	848,510	592,170	347,080
12	244,070	277,960	311,880	346,430	374,960	393,790	415,940	496,860	754,250	845,440	583,390	341,220
13	245,520	279,000	312,740	347,300	375,620	394,460	418,190	500,090	763,470	839,590	574,630	340,790
14	246,760	280,260	314,030	347,950	376,290	395,360	419,320	503,550	771,940	833,740	565,910	340,570
15	248,210	282,150	315,320	348,600	377,170	396,030	420,450	507,710	780,720	828,400	557,200	340,570
16	249,240	283,190	316,820	349,260	377,840	396,700	421,350	511,900	791,750	822,800	547,810	340,360
17	250,270	284,240	317,890	350,360	378,500	397,150	422,480	515,150	801,320	817,230	539,150	340,360
18	251,310	284,870	319,160	351,230	378,940	398,040	424,060	518,170	809,400	812,180	530,020	340,570
19	252,340	285,510	321,750	351,890	379,610	398,710	426,090	520,960	816,980	806,120	520,960	340,360
20	253,790	286,360	323,040	352,550	380,270	399,380	428,340	523,750	825,090	799,040	512,130	340,570
21	254,820	287,000	324,120	353,210	380,720	399,830	431,720	527,700	831,700	790,240	504,010	340,790
22	256,270	288,270	325,620	353,640	381,380	400,280	436,910	532,360	836,790	780,720	496,160	340,790
23	257,100	289,120	326,480	354,300	382,270	400,950	443,040	539,620	842,900	771,440	488,780	341,220
24	258,130	289,960	327,550	355,180	382,930	401,620	446,910	549,680	847,740	761,720	480,720	339,920
25	259,370	290,810	328,640	356,060	383,600	402,290	450,090	559,550	853,120	751,760	472,700	335,370
26	260,400	291,660	329,510	357,370	384,260	402,740	452,600	570,390	851,560	741,340	464,660	329,290
27	261,440	292,510	330,370	358,470	385,150	403,180	455,100	585,050	852,100	731,200	456,920	324,970
28	262,470	293,760	331,030	359,130	385,810	403,630	457,830	597,620	851,840	721,560	448,280	321,970
29	263,710	295,050	332,330	360,220	-	404,080	460,550	605,960	850,820	710,760	439,630	321,540
30	264,760	295,900	333,410	361,100	-	404,530	462,850	614,320	852,100	701,180	431,950	321,330
31	265,390	-	335,150	361,980	-	404,970	-	621,730	-	691,400	424,730	-

Monthly elevation and contents, water year October 1941 to September 1942

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30.....	6,742.18	226,110	-
Oct. 31.....	6,744.09	265,390	+39,280
Nov. 30.....	6,745.54	295,900	+30,510
Dec. 31.....	6,747.37	335,150	+39,250
Calendar year 1941...	-	-	+99,050
Jan. 31.....	6,748.60	361,980	+26,830
Feb. 28.....	6,749.68	385,810	+23,830
Mar. 31.....	6,750.54	404,970	+19,160
Apr. 30.....	6,753.10	462,850	+57,880
May 31.....	6,759.89	621,730	+158,880
June 30.....	6,769.20	852,100	+230,370
July 31.....	6,762.77	691,400	-160,700
Aug. 31.....	6,751.42	424,730	-266,670
Sept.30.....	6,746.73	321,320	-103,410
Water year 1941-42...	-	-	+95,210

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 39 years, 1,406 second-feet (unadjusted).

Extremes.- Maximum discharge during year, 7,790 second-feet June 25 (gage height, 8.92 feet); minimum, 16 second-feet Oct. 10-12 (gage height, 1.37 feet).
1903-42: 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 prior to June 20, 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	20	20	17	18	19	20	21	20	3,620	6,020	3,160
2	18	20	20	17	18	19	20	21	20	3,770	6,210	3,640
3	18	20	20	17	18	19	20	21	21	3,590	6,020	4,360
4	17	20	20	17	18	19	20	21	21	3,380	4,890	4,840
5	17	19	19	17	18	19	20	21	21	3,370	4,210	4,890
6	17	19	19	17	18	19	21	21	21	3,370	4,710	4,860
7	17	19	18	17	18	19	21	21	27	3,230	5,800	4,590
8	17	19	18	17	18	19	21	21	33	2,950	5,750	4,120
9	17	20	18	17	18	19	22	21	32	2,700	5,550	3,990
10	16	20	17	17	18	19	22	21	27	2,510	5,400	3,910
11	16	20	17	17	18	19	22	20	20	3,080	5,340	3,910
12	16	20	17	17	18	19	22	20	20	4,540	5,210	2,170
13	17	20	17	17	18	19	22	19	18	4,950	5,150	552
14	17	20	17	17	18	19	22	19	18	4,710	5,080	458
15	17	20	17	17	18	19	21	18	18	4,940	5,310	344
16	17	20	17	17	18	19	21	18	18	4,760	5,450	274
17	18	21	18	17	18	19	21	18	18	4,500	5,400	242
18	18	21	18	17	18	19	21	18	18	4,380	5,340	242
19	18	21	18	17	18	19	21	18	18	5,020	5,370	224
20	18	21	18	17	18	19	21	18	19	5,580	5,050	206
21	18	21	18	17	18	19	21	18	16	6,180	4,500	206
22	18	21	17	17	18	19	22	18	394	6,480	4,500	182
23	18	20	17	17	18	19	22	18	1,370	6,040	4,600	708
24	18	20	17	17	18	19	22	18	1,850	6,460	4,950	2,200
25	18	20	17	17	18	20	22	18	5,360	6,520	4,780	3,280
26	19	20	17	17	18	20	22	19	3,680	6,500	4,750	3,110
27	19	20	17	17	18	20	22	20	3,400	6,350	4,710	1,980
28	19	20	17	17	18	20	22	20	3,560	6,240	4,970	1,070
29	20	20	17	17	-	20	22	20	2,370	6,310	4,830	242
30	20	20	17	17	-	20	22	20	1,990	6,190	4,320	224
31	20	-	17	17	-	20	-	20	-	6,010	3,540	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	551	20	16	17.8	1,090
November	602	21	19	20.1	1,190
December	551	20	17	17.8	1,090
Calendar year 1941	362,867	6,720	12	994	719,700
January	527	17	17	17.0	1,050
February	504	18	18	18.0	1,000
March	596	20	19	19.2	1,180
April	640	22	20	21.3	1,270
May	605	21	18	19.5	1,200
June	24,420	5,360	18	814	48,440
July	148,230	6,520	2,510	4,781	294,000
August	157,710	6,210	3,540	5,087	312,800
September	64,184	4,890	182	2,139	127,300
Water year 1941-42	399,120	6,520	16	1,093	791,600

Note.- Stage-discharge relation affected by ice Jan. 24 to Mar. 21. Staff gage read occasionally to hundredths Oct. 1 to June 19.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Snake River near Heise, Idaho

Location.- Water-stage recorder, lat. 43°37', long. 111°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 1942, except for winters of 1914-24.

Average discharge.- 32 years (1910-42), 6,682 second-feet (unadjusted).

Extremes.- Maximum discharge during year, 19,500 second-feet June 10 (gage height, 7.33 feet); minimum, 1,740 second-feet Feb. 18 (gage height, 1.69 feet).
1910-42: Maximum discharge, about 60,000 second-feet May 19, 1927, result of washing out of a 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 period May 25 to June 15, which are good, and those for periods of ice effect, which are fair. Station is above all irrigation diversions from main river except Riley ditch (capacity about 30 second-feet), which diverts 1 mile above station. About 105,000 acres in Wyoming and Idaho irrigated by diversions from tributaries above station. Flow partly regulated by Jackson Lake (see p. 13).

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,340	2,860	2,460	2,210	2,340	2,080	2,170	5,820	11,400	10,400	10,300	6,660
2	3,510	2,900	2,510	2,010	2,340	2,080	2,250	5,790	11,100	12,100	10,100	6,060
3	3,450	2,960	2,720	1,900	2,340	2,120	2,370	5,710	11,700	13,000	10,200	6,200
4	3,360	3,170	3,430	1,850	2,320	2,120	2,610	5,630	13,200	13,100	10,100	6,870
5	3,340	3,430	3,230	1,850	2,300	2,140	3,320	5,760	14,600	12,800	9,180	7,370
6	3,400	3,230	2,880	1,900	2,260	2,120	3,490	5,680	15,100	13,300	8,260	7,430
7	3,380	3,090	2,700	1,950	2,240	2,100	3,540	5,760	15,400	13,600	8,400	7,400
8	3,320	2,960	2,690	1,960	2,250	2,040	3,890	6,140	17,100	13,400	9,250	7,270
9	3,260	2,860	2,580	2,010	2,240	2,110	4,310	6,960	18,300	12,700	9,180	6,810
10	3,210	2,820	2,560	2,070	2,210	2,120	5,230	8,030	19,100	11,600	8,980	6,600
11	3,150	2,780	2,600	2,150	2,150	2,150	5,900	8,370	18,100	10,900	8,740	6,540
12	3,130	2,760	2,650	2,210	2,180	2,170	7,370	8,470	15,800	10,500	8,740	6,930
13	3,170	2,760	2,600	2,190	2,120	2,170	8,710	8,030	14,200	11,700	8,540	6,660
14	3,320	2,760	2,600	2,190	2,120	2,170	9,460	7,500	13,200	11,800	8,370	4,500
15	3,230	2,760	2,600	2,190	2,020	2,100	9,500	7,300	12,900	11,300	8,300	3,960
16	3,170	2,820	2,610	2,170	1,980	2,020	8,370	7,460	13,800	11,800	8,400	3,670
17	3,150	2,880	2,630	2,150	1,860	2,070	8,130	7,530	13,100	11,700	8,470	3,490
18	3,110	2,980	2,610	2,140	1,790	2,100	8,470	7,180	11,800	11,300	8,430	3,360
19	3,090	2,900	2,610	2,120	1,790	2,070	8,540	7,120	11,900	10,600	8,370	3,320
20	3,070	2,700	2,560	2,150	1,790	2,010	8,770	7,460	11,800	10,700	8,330	3,320
21	3,070	2,620	2,560	2,150	1,840	2,010	9,950	7,990	11,100	10,800	8,200	3,280
22	3,070	2,540	2,560	2,170	1,940	2,020	11,200	9,280	10,400	11,000	7,590	3,260
23	3,040	2,480	2,500	2,170	2,010	2,040	11,500	11,200	10,300	11,100	7,460	3,230
24	3,000	2,430	2,460	2,170	2,050	2,080	10,100	14,000	11,600	10,600	7,430	3,210
25	3,000	2,480	2,500	2,170	2,070	2,140	8,810	14,900	12,500	10,900	7,860	3,760
26	3,070	2,460	2,500	2,210	2,080	2.070	7,960	16,300	15,400	11,000	7,820	5,410
27	3,020	2,430	2,260	2,220	2,080	2,030	7,270	18,400	15,300	11,000	7,790	5,820
28	3,040	2,380	2,250	2,340	2,080	2,040	6,780	17,700	13,700	10,800	7,500	4,900
29	3,020	2,400	2,380	2,380	-	2,040	6,400	15,200	12,900	10,700	7,690	4,500
30	2,980	2,400	2,510	2,370	-	2,060	6,090	13,500	11,000	10,800	7,720	3,600
31	2,920	-	2,510	2,340	-	2,100	-	12,300	-	10,600	7,240	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	98,320	3,510	2,920	3,174	195,200
November	83,000	3,430	2,380	2,767	164,600
December	80,820	3,430	2,250	2,607	160,300
Calendar year 1941	1,880,900	14,000	1,770	5,153	3,731,000
January	66,060	2,380	1,850	2,131	131,000
February	58,790	2,340	1,790	2,100	116,600
March	64,690	2,170	2,010	2,087	128,300
April	202,460	11,500	2,170	6,749	401,600
May	288,470	18,400	5,630	9,305	572,200
June	407,800	19,100	10,300	13,590	808,900
July	358,000	13,600	10,400	11,550	710,100
August	262,940	10,300	7,240	8,482	521,500
September	155,370	7,430	3,210	5,179	308,200
Water year 1941-42	2,126,790	19,100	1,790	5,827	4,219,000

Note.- Stage-discharge relation affected by ice Jan. 1 to Feb. 2, Feb. 16, 17, Feb. 19 to Mar. 3.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942. One of the canals is equipped with a water-stage recorder, the others with staff gages, which are read once daily; records of discharge are combined to show total diverted flow.

Records good.

Discharge, in second-feet, water year October 1941 to September 1942

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	561	6,130	7,290	5,150	6,100	16	2,310	5,350	8,670	6,760	3,870
2	930	6,500	7,720	5,020	6,090	17	2,350	5,350	5,740	7,200	3,920
3	546	7,050	7,880	8,230	6,030	18	2,370	5,380	5,790	7,080	3,910
4	1,120	7,610	7,760	5,250	6,060	19	2,520	8,500	5,640	7,060	3,840
5	1,260	7,860	7,710	8,180	6,460	20	3,070	8,490	8,630	7,080	3,830
6	1,460	8,020	7,940	7,790	6,280	21	3,420	5,280	8,710	7,230	3,610
7	1,650	7,970	5,030	7,650	6,150	22	4,240	8,340	5,740	6,660	3,760
8	1,740	5,280	5,200	7,760	6,210	23	4,850	5,530	8,700	6,650	3,700
9	1,840	8,480	8,290	7,750	5,760	24	5,250	5,940	5,570	6,530	3,820
10	1,900	8,510	8,400	7,680	5,780	25	5,700	5,480	5,520	6,630	3,950
11	1,970	8,670	8,440	7,400	5,990	26	6,270	5,230	8,560	6,280	4,480
12	2,080	5,560	8,410	7,480	4,970	27	6,440	7,350	5,460	6,520	4,490
13	2,240	8,570	5,660	7,030	4,150	28	6,340	7,000	5,450	6,420	4,360
14	2,120	8,510	8,640	7,070	4,020	29	6,170	6,780	5,470	6,450	4,420
15	2,270	5,470	8,600	6,660	3,920	30	5,900	7,170	5,390	6,560	4,060
						31	5,950	-	8,130	6,060	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May	97,437	6,440	846	3,143	193,300
June	240,360	8,940	6,130	8,012	476,700
July	259,140	5,790	7,290	5,359	514,000
August	222,470	8,250	6,060	7,176	441,300
September	143,990	6,460	3,610	4,800	285,600
The period	-	-	-	-	1,911,000

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 1942 (summer months only during some years).

Extremes.- Maximum discharge during year, 16,300 second-feet May 28 (gage height, 9.72 feet); minimum, 1,400 second-feet Jan. 4, 5.

1915-42: 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. Flow partly regulated by Jackson Lake (see p. 13), Henrys Lake (see p. 46), Island Park Reservoir (see p. 38), and Grassy Lake (see p. 46). Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,180	2,650	2,650	1,900	2,520	2,150	2,610	7,130	10,300	6,830	3,780	2,760
2	2,150	2,650	2,630	1,650	2,550	2,250	2,810	6,860	5,840	5,760	3,750	2,490
3	2,210	2,680	2,810	1,460	2,600	2,350	2,940	6,700	7,700	6,930	3,680	2,050
4	2,320	2,740	3,050	1,400	2,600	2,400	3,090	6,630	7,260	7,730	3,570	2,060
5	2,370	3,030	3,530	1,400	2,600	2,400	3,350	6,600	7,970	7,770	3,420	2,560
6	2,560	3,730	3,780	1,500	2,600	2,360	3,920	6,470	9,290	7,460	2,920	2,960
7	2,720	3,640	3,370	1,600	2,600	2,340	4,000	6,270	9,860	7,670	2,440	3,050
8	2,760	3,440	3,400	1,900	2,600	2,320	3,970	6,210	10,300	7,900	2,470	3,110
9	2,790	3,190	3,170	2,200	2,580	2,300	4,200	6,370	11,800	7,600	3,170	2,900
10	2,770	3,090	3,210	2,450	2,560	2,500	4,550	7,360	13,300	6,700	3,400	2,790
11	2,700	3,030	3,150	2,550	2,500	2,700	5,350	8,590	14,500	5,630	3,190	2,650
12	2,630	2,940	3,210	2,700	2,400	2,800	6,270	9,290	13,900	4,660	3,250	3,210
13	2,610	2,940	3,330	2,650	2,400	2,700	8,040	9,400	11,700	4,250	3,210	4,690
14	2,580	2,920	3,230	2,610	2,300	2,700	9,120	8,900	9,680	5,060	3,230	4,780
15	2,560	2,860	3,130	2,550	2,100	2,700	10,200	8,240	8,350	5,000	3,070	3,290
16	2,540	2,830	3,150	2,400	1,900	2,600	10,300	8,040	8,210	4,640	3,110	2,630
17	2,510	2,830	3,110	2,250	1,700	2,600	9,260	8,280	9,220	4,840	3,150	2,290
18	2,460	2,700	3,130	2,050	1,500	2,590	8,980	8,350	8,660	4,720	3,000	2,150
19	2,390	2,670	3,110	2,220	1,500	2,610	9,320	7,800	7,230	4,410	2,900	2,000
20	2,400	2,510	3,090	2,350	1,500	2,510	9,650	7,260	6,860	3,920	2,770	1,940
21	2,350	2,470	3,030	2,270	1,700	2,390	9,970	7,230	6,730	3,710	2,740	1,920
22	2,310	2,200	3,030	2,200	1,900	2,370	11,300	7,330	5,950	3,680	2,680	2,000
23	2,310	2,060	3,010	2,100	2,200	2,460	12,900	8,240	4,720	3,800	2,460	1,600
24	2,290	2,000	2,900	2,050	2,300	2,540	13,400	10,000	4,040	3,900	2,390	1,490
25	2,210	1,940	2,540	2,250	2,250	2,590	12,200	12,300	4,900	3,620	2,350	1,460
26	2,180	2,100	2,160	2,400	2,200	2,560	10,900	12,800	6,630	3,800	2,670	1,480
27	2,270	2,270	1,760	2,600	2,200	2,510	9,900	13,600	10,700	3,950	2,860	2,690
28	2,290	2,490	1,760	2,600	2,200	2,440	9,180	15,600	11,200	3,830	2,850	3,270
29	2,440	2,540	1,900	2,600	-	2,420	8,560	15,300	10,200	3,730	2,720	2,700
30	2,560	2,630	2,050	2,600	-	2,460	7,900	13,400	9,120	3,680	2,860	2,310
31	2,590	-	2,180	2,560	-	2,560	-	11,800	-	3,750	2,850	-

Note.- Stage-discharge relation affected by ice Nov. 23-29, Dec. 25 to Mar. 17.

Monthly discharge, in second-feet, of Snake River near Shelley, Idaho, water year October 1941 to September 1942

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	76,010	2,790	2,150	2,452	150,800
November	81,770	3,730	1,940	2,726	162,200
December	89,860	3,830	1,760	2,899	178,200
Calendar year 1941	1,252,680	11,500	1,140	3,432	2,485,000
January	68,020	2,700	1,400	2,194	134,900
February	62,560	2,600	1,500	2,234	124,100
March	77,180	2,800	2,150	2,490	153,100
April	228,140	13,400	2,610	7,605	452,500
May	278,350	15,600	6,210	8,979	552,100
June	269,120	14,500	4,040	8,971	533,800
July	160,930	7,900	3,620	5,191	319,200
August	92,910	3,780	2,350	2,997	184,300
September	77,180	4,780	1,460	2,573	153,100
Water year 1941-42	1,562,030	15,600	1,400	4,280	3,098,000

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 1942. The two largest canals are equipped with recorders, the others with staff gages, which are read once daily. Records of discharge are combined to show total diverted flow.

Records good.

Discharge, in second-feet, water year October 1941 to September 1942

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	547	2,740	3,260	2,970	2,400	16	1,870	3,620	3,520	2,540	1,570
2	601	2,980	3,180	2,990	2,320	17	1,860	3,650	3,640	2,540	1,540
3	696	3,260	3,420	2,900	1,850	18	1,830	3,600	3,640	2,480	1,220
4	714	3,430	3,410	2,890	1,780	19	1,830	3,590	3,600	2,480	1,110
5	829	3,500	3,370	2,880	2,100	20	1,990	3,590	3,520	2,470	1,090
6	889	3,560	3,460	2,580	2,300	21	2,300	3,560	3,380	2,440	1,160
7	1,020	3,570	3,570	1,620	2,610	22	2,560	3,600	3,230	2,450	1,240
8	1,340	3,660	3,600	1,480	2,550	23	2,820	3,560	3,220	2,040	1,300
9	1,570	3,750	3,550	1,690	2,570	24	2,880	3,550	3,060	2,020	1,540
10	1,790	3,750	3,590	2,000	2,500	25	2,940	3,590	3,000	1,930	1,480
11	1,940	3,740	3,560	2,370	2,500	26	3,060	3,520	3,050	2,040	1,100
12	1,960	3,700	3,510	2,340	2,240	27	3,180	3,380	3,040	2,470	1,420
13	1,920	3,620	3,580	2,250	1,580	28	3,180	3,000	3,010	2,510	1,860
14	1,860	3,570	3,670	2,650	1,390	29	3,110	3,050	2,970	2,470	1,680
15	1,890	3,610	3,550	2,600	1,510	30	3,040	3,170	2,640	2,450	1,650
						31	2,810	-	2,960	2,470	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May	60,826	3,180	547	1,962	120,600
June	104,470	3,750	2,740	3,482	207,200
July	103,760	3,670	2,640	3,347	205,800
August	74,010	2,990	1,480	2,387	146,800
September	53,160	2,610	1,090	1,772	105,400
The period	-	-	-	-	785,800

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Snake River at Clough Ranch, near Blackfoot, Idaho

Location.- Water-stage recorder, lat. 43°07', long. 112°31', in SE¼ 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 1942.

Extremes.- Maximum discharge during year, 13,000 second-feet Apr. 25 (gage height, 7.80 feet); minimum, 195 second-feet July 24 (gage height, 0.76 foot).

1910-42: 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. Flow partly regulated by Jackson Lake (see p. 13), Henrys Lake (see p. 46), Island Park Reservoir (see p. 38), Grassy Lake (see p. 46), and Blackfoot-Marsh Reservoir, having a combined capacity of 1,483,000 acre-feet. Many diversions above station for irrigation.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used July 19 to Sept. 12)

0.8	210	1.6	640	3.0	1,980	6.0	7,660
1.0	300	1.9	870	4.0	3,510	8.0	13,620
1.3	455	2.5	1,400	5.0	5,420		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,140	2,260	2,900	1,880	2,320	2,050	2,580	6,910	8,410	4,820	647	380
2	1,180	2,340	2,900	1,670	2,160	1,990	2,660	6,330	6,710	2,900	661	330
3	1,260	2,370	3,070	1,300	2,290	2,110	2,870	6,090	5,080	2,500	718	320
4	1,390	2,480	3,190	902	2,300	2,160	3,040	6,070	4,090	3,760	591	285
5	1,490	2,620	3,600	846	2,330	2,230	3,260	5,940	4,000	4,090	558	290
6	1,740	3,240	3,920	838	2,290	2,220	3,760	5,830	5,170	3,760	400	455
7	2,180	3,460	3,620	982	2,400	2,190	3,960	5,480	6,090	3,730	668	455
8	2,340	3,320	3,320	1,110	2,370	2,160	3,870	5,080	6,420	3,850	766	400
9	2,390	2,960	3,030	1,210	2,340	2,120	3,960	5,020	7,010	3,870	1,030	438
10	2,400	2,840	3,010	1,560	2,320	2,160	4,270	5,340	8,490	3,240	1,160	325
11	2,370	2,730	3,320	2,010	2,300	2,300	4,580	6,420	9,960	2,390	966	285
12	2,330	2,850	3,360	2,220	2,180	2,520	5,380	7,170	10,400	1,460	790	290
13	2,290	2,780	3,370	2,340	2,160	2,640	6,660	7,590	8,880	846	878	1,730
14	2,200	2,800	3,390	2,360	2,180	2,780	8,010	7,540	6,870	742	577	3,360
15	2,160	2,790	3,320	2,230	2,130	2,500	9,190	7,080	5,320	1,320	564	2,610
16	2,060	2,800	3,260	2,150	1,920	2,550	9,930	6,620	4,540	1,200	540	1,530
17	1,990	2,900	3,340	2,050	1,660	2,520	9,570	6,690	5,100	1,020	633	1,190
18	1,920	2,900	3,320	1,810	1,410	2,440	8,680	7,030	5,340	1,100	661	1,210
19	1,890	2,850	3,270	1,670	1,120	2,460	8,820	6,620	4,320	902	488	1,230
20	1,850	2,850	3,310	1,850	1,140	2,460	9,280	5,940	3,410	682	406	1,130
21	1,840	2,700	3,220	1,990	1,140	2,420	9,510	5,320	3,320	395	305	1,100
22	1,790	2,600	3,190	1,940	1,350	2,400	10,300	4,840	3,010	375	280	1,050
23	1,740	2,260	3,140	1,790	1,610	2,550	11,700	4,820	1,860	255	400	854
24	1,710	2,610	3,110	1,750	1,950	2,640	12,700	6,160	998	422	411	433
25	1,670	2,520	2,930	1,690	2,110	2,620	12,500	8,070	710	619	390	240
26	1,610	2,460	2,610	1,850	2,050	2,580	11,200	9,220	1,960	540	416	238
27	1,650	2,680	2,180	2,160	2,010	2,500	10,200	9,600	4,800	668	350	577
28	1,710	2,700	1,750	2,260	2,040	2,390	9,370	11,100	8,220	682	365	1,050
29	1,730	2,740	1,730	2,300	-	2,370	8,520	12,300	7,540	647	365	1,300
30	2,080	2,820	2,040	2,270	-	2,390	7,490	11,200	6,600	726	305	894
31	1,990	-	2,300	2,290	-	2,430	-	9,480	-	584	416	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	58,090	2,400	1,140	1,874	115,200
November	82,250	3,460	2,260	2,742	163,100
December	94,020	3,920	1,730	3,033	186,500
Calendar year 1941	831,148	8,160	162	2,277	1,648,000
January	55,278	2,360	838	1,783	109,600
February	55,580	2,400	1,120	1,985	110,200
March	73,850	2,780	1,990	2,382	146,500
April	217,820	12,700	2,580	7,261	432,000
May	218,900	12,300	4,820	7,061	434,200
June	164,648	10,400	710	5,488	326,600
July	54,095	4,820	255	1,745	107,300
August	17,705	1,160	280	571	35,120
September	25,979	3,360	238	866	51,530
Water year 1941-42	1,118,215	12,700	238	3,064	2,218,000

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum contents during year, 1,719,170 acre-feet May 14 (elevation, 4,354.84 feet); minimum, 327,630 acre-feet Oct. 1 (elevation, 4,319.44 feet).
1926-42: 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 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	327,630	571,340	882,930	1,173,430	1,222,660	1,359,450
2	336,650	581,340	889,200	1,178,610	1,227,930	1,364,490
3	340,450	592,470	895,080	1,183,320	1,234,650	1,368,020
4	347,020	602,790	904,190	1,190,380	1,240,880	1,373,570
5	355,820	613,100	919,150	1,194,620	1,242,800	1,377,600
6	364,360	624,610	929,670	1,194,150	1,246,160	1,382,140
7	373,350	637,500	946,810	1,188,500	1,249,520	1,387,690
8	379,600	649,450	954,320	1,180,970	1,256,710	1,391,720
9	386,360	661,070	963,500	1,179,060	1,264,500	1,396,260
10	391,130	671,690	971,010	1,178,140	1,271,320	1,400,800
11	396,510	683,020	978,110	1,179,550	1,277,160	1,405,850
12	403,950	693,950	986,960	1,183,320	1,283,010	1,412,020
13	410,100	704,200	995,980	1,183,790	1,288,360	1,420,250
14	413,690	714,100	1,007,140	1,183,790	1,290,800	1,425,390
15	417,050	725,290	1,017,870	1,184,260	1,294,210	1,433,110
16	423,620	738,880	1,025,590	1,184,730	1,305,410	1,440,310
17	432,290	747,060	1,036,570	1,186,150	1,312,340	1,446,480
18	442,550	757,760	1,047,140	1,188,500	1,315,800	1,451,620
19	452,240	768,580	1,058,580	1,192,740	1,319,270	1,457,280
20	461,130	777,960	1,069,590	1,193,210	1,322,240	1,465,140
21	470,040	788,820	1,078,590	1,194,150	1,326,200	1,472,470
22	479,440	798,090	1,091,660	1,195,090	1,330,160	1,478,750
23	488,850	806,980	1,101,580	1,196,510	1,336,100	1,485,030
24	498,010	815,880	1,108,800	1,196,980	1,340,060	1,492,360
25	506,640	824,790	1,119,250	1,199,800	1,344,020	1,500,740
26	515,380	834,700	1,130,310	1,204,040	1,348,470	1,508,070
27	524,780	843,650	1,136,770	1,206,920	1,351,440	1,514,980
28	533,270	853,370	1,146,450	1,209,710	1,355,410	1,522,430
29	543,540	863,710	1,153,820	1,214,030	-	1,529,350
30	552,340	873,510	1,160,280	1,215,900	-	1,535,740
31	562,260	-	1,167,310	1,218,820	-	1,543,190

Contents, in acre-feet, of American Falls Reservoir at American Falls, Idaho water year October 1941 to September 1942--Continued

Day	Apr.	May	June	July	Aug.	Sept.
1	1,549,050	1,705,600	1,712,900	1,612,350	1,157,050	650,110
2	1,557,040	1,706,720	1,716,890	1,605,290	1,140,450	634,920
3	1,564,530	1,710,080	1,716,320	1,594,960	1,122,940	620,100
4	1,572,140	1,708,960	1,712,900	1,584,640	1,106,090	606,230
5	1,581,380	1,711,760	1,708,960	1,575,940	1,085,350	591,850
6	1,590,620	1,712,330	1,704,480	1,572,140	1,070,470	576,190
7	1,599,850	1,712,330	1,697,200	1,555,440	1,054,620	561,350
8	1,610,180	1,711,200	1,692,710	1,543,730	1,038,780	545,890
9	1,620,560	1,715,180	1,690,470	1,532,550	1,022,160	530,340
10	1,629,410	1,705,040	1,688,230	1,521,900	1,007,990	516,810
11	1,638,810	1,710,080	1,689,910	1,505,450	992,970	503,710
12	1,649,310	1,710,080	1,694,960	1,492,890	975,180	493,270
13	1,660,370	1,715,180	1,699,440	1,477,180	961,410	485,250
14	1,669,760	1,719,170	1,698,880	1,458,330	945,560	476,950
15	1,687,670	1,714,610	1,693,270	1,442,360	929,670	470,870
16	1,701,120	1,714,040	1,688,230	1,424,880	913,490	465,170
17	1,702,240	1,712,330	1,683,750	1,408,940	899,010	459,520
18	1,705,600	1,711,760	1,678,700	1,391,720	884,100	456,010
19	1,705,040	1,715,750	1,674,220	1,378,110	868,020	450,090
20	1,703,920	1,714,040	1,669,760	1,361,970	848,800	444,970
21	1,705,040	1,712,330	1,663,680	1,346,000	830,890	439,650
22	1,703,360	1,708,960	1,657,600	1,328,180	816,250	434,400
23	1,712,900	1,700,560	1,648,200	1,310,360	799,200	429,930
24	1,705,600	1,701,120	1,638,250	1,292,750	779,760	425,200
25	1,689,350	1,701,680	1,626,090	1,275,700	763,890	420,470
26	1,693,270	1,703,920	1,613,440	1,257,200	747,060	416,530
27	1,698,880	1,705,040	1,605,290	1,239,920	728,100	413,180
28	1,713,470	1,717,460	1,604,750	1,222,660	713,080	410,360
29	1,713,470	1,715,750	1,610,180	1,204,040	696,000	410,360
30	1,707,280	1,715,750	1,612,350	1,880,030	681,650	410,360
31	-	1,713,470	-	1,170,140	665,710	-

Monthly elevation and contents, water year October 1941 to September 1942

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	4,319.11	319,800	-
Oct. 31	4,328.25	562,260	+242,460
Nov. 30	4,337.29	873,510	+311,250
Dec. 31	4,344.12	1,167,310	+293,800
Calendar year 1941	-	-	+231,170
Jan. 31	4,345.21	1,218,820	+51,510
Feb. 28	4,348.01	1,355,410	+136,590
Mar. 31	4,351.64	1,543,190	+187,780
Apr. 30	4,354.63	1,707,280	+164,090
May 31	4,354.74	1,713,470	+6,190
June 30	4,352.92	1,612,350	-101,120
July 31	4,344.18	1,170,140	-442,210
Aug. 31	4,331.52	665,710	-504,430
Sept.30	4,322.78	410,360	-255,350
Water year 1941-42	-	-	+90,560

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Snake River at Neeley, Idaho

Location.- Water-stage recorder, lat. 42°45', long. 112°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). Prior to Oct. 1, 1941, at datum 1.00 foot higher. 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 1942.

Extremes.- Maximum discharge during year, 20,500 second-feet Apr. 25 (gage height, 8.59 feet); minimum, 50 second-feet Oct. 22, 23, Nov. 14-16.

1906-42: Maximum daily discharge, 48,400 second-feet June 20,1918 (gage height, 13.5 feet, site and datum then in use); minimum, that of Oct. 22, 23, Nov. 14-16, 1941.

Remarks.- Records excellent. Flow regulated by American Falls Reservoir (see preceding page) 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 upstream from station.

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

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 9 to Sept. 30)

0.8	49	2.2	240	4.5	3,150
1.0	60	2.6	410	5.0	4,580
1.2	78	3.0	700	6.0	8,400
1.5	111	3.5	1,210	7.0	12,750
1.8	154	4.0	2,015	9.0	22,660

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	758	51	2,290	1,760	1,940	2,230	1,620	9,020	10,200	9,740	11,700	10,600
2	774	52	2,370	2,260	2,570	2,200	1,620	9,060	8,560	10,500	11,600	10,400
3	756	51	1,200	234	1,290	2,390	1,620	9,100	8,730	10,900	11,800	10,300
4	96	51	1,330	605	3,830	2,390	1,620	9,100	9,060	11,100	11,700	10,400
5	60	51	1,420	3,220	4,350	2,440	1,620	9,150	9,400	11,300	11,700	10,600
6	480	51	95	4,780	4,130	2,420	1,620	9,190	9,950	11,600	11,600	10,600
7	1,270	51	81	7,520	1,940	2,460	1,630	9,190	10,600	12,000	11,500	10,600
8	2,060	51	1,360	7,070	496	2,450	1,620	8,980	10,800	12,300	11,400	10,600
9	2,990	51	1,260	4,920	2,030	2,440	1,600	8,980	10,400	12,300	11,400	10,400
10	2,430	51	1,290	4,880	2,000	2,500	2,400	8,980	10,300	12,300	11,400	10,000
11	2,230	51	1,270	1,740	1,990	2,480	2,430	8,940	10,300	12,000	11,400	9,440
12	124	51	2,110	4,910	2,020	2,500	2,310	8,650	10,300	11,900	11,600	9,150
13	3,510	51	120	4,960	2,020	2,530	3,520	8,730	10,400	11,900	11,500	8,650
14	4,390	50	68	4,990	2,050	2,570	3,540	12,100	10,400	12,000	11,500	8,360
15	2,460	50	1,340	5,000	568	1,110	3,690	12,100	10,400	11,900	11,300	7,840
16	h52	50	1,380	5,010	2,060	2,590	9,910	11,000	10,300	11,800	11,200	7,280
17	h52	1,430	1,300	4,440	2,050	2,660	10,600	10,900	9,780	11,800	11,000	7,080
18	h52	1,360	1,110	1,800	2,060	2,600	12,300	8,940	9,520	11,700	11,200	7,040
19	h52	1,370	1,140	4,130	2,050	1,150	13,300	9,780	9,440	11,600	11,700	6,960
20	h52	514	114	4,140	2,050	1,440	11,700	10,900	9,360	11,400	11,800	6,480
21	h51	524	74	4,160	2,070	1,740	11,100	10,500	9,230	11,300	11,900	6,280
22	h50	532	1,760	4,080	612	1,740	11,200	9,860	9,230	11,500	11,800	6,280
23	h50	598	1,720	4,160	2,460	1,650	13,500	9,650	9,150	11,700	11,800	6,010
24	h51	423	2,310	4,120	2,440	1,600	20,300	9,190	9,480	12,000	11,700	5,820
25	h51	430	125	1,850	2,460	1,610	19,100	9,360	9,780	12,000	11,500	5,560
26	h51	415	1,700	4,140	2,800	1,620	14,500	9,150	9,740	12,000	11,400	5,050
27	h51	433	127	3,960	2,860	1,650	6,600	9,230	9,230	12,000	11,300	4,650
28	h51	652	60	3,620	2,890	1,600	8,600	12,000	9,060	11,800	11,200	4,360
29	h52	68	1,690	4,130	-	1,610	14,100	15,700	8,850	11,600	11,200	3,650
30	h51	60	1,710	4,180	-	1,610	12,500	15,700	8,940	11,500	11,200	3,440
31	h51	-	1,760	4,160	-	1,640	-	14,000	-	11,600	10,900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	25,208	4,390	50	813	50,000
November	9,623	1,430	50	321	19,090
December	35,704	2,370	60	1,152	70,820
Calendar year 1941	1,723,844	12,200	50	4,723	3,419,000
January	120,929	7,520	234	3,901	239,900
February	62,066	4,350	496	2,217	123,100
March	63,620	2,660	1,110	2,052	126,200
April	221,770	20,300	1,600	7,392	439,900
May	317,130	15,700	8,650	10,230	629,000
June	290,890	10,800	8,560	9,696	577,000
July	361,040	12,300	9,740	11,650	716,100
August	356,100	11,900	10,900	11,490	706,300
September	233,880	10,600	3,440	7,796	463,900
Water year 1941-42	2,097,980	20,300	50	5,748	4,161,000

h Computed from staff-gage readings.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum contents during year, 101,090 acre-feet May 3 (gage height, 45.49 feet); minimum, -101,410 acre-feet Nov. 17 (gage height, 15.19 feet).
1909-42: Maximum contents, 110,740 acre-feet Aug. 8, 1922 (gage height, 46.28 feet); minimum, that of Nov. 17, 1941.

Remarks.- Reservoir is formed by rock-fill dam with concrete core; storage began in 1909. Capacity, 107,240 acre-feet between gage heights 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 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18,350	-45,210	-100,590	-88,320	56,980	67,540	90,990	98,800	100,370	93,090	94,020	94,140
2	18,050	-48,240	-98,550	-87,140	59,130	66,550	91,920	99,520	100,370	92,390	94,020	94,370
3	17,460	-51,150	-96,600	-84,810	61,940	66,330	91,570	100,490	100,250	91,810	94,020	94,020
4	16,770	-54,180	-96,810	-86,960	63,260	66,550	91,690	98,900	100,010	91,460	94,490	93,790
5	15,680	-56,890	-96,240	-88,740	63,700	66,550	93,200	99,280	100,130	91,230	93,790	93,320
6	14,090	-60,880	-95,420	-88,160	63,920	66,660	94,020	98,800	100,250	91,810	94,140	93,090
7	12,510	-64,360	-96,860	-81,560	63,260	66,770	94,490	99,280	98,560	91,920	94,370	93,670
8	6,770	-68,320	-98,500	-68,180	63,370	66,990	94,950	99,520	99,040	92,040	94,490	93,790
9	4,670	-72,540	-97,750	-59,650	62,600	66,990	95,180	99,520	99,520	92,740	94,250	93,550
10	6,200	-76,480	-97,190	-53,520	63,700	69,850	95,310	99,520	99,040	93,670	94,140	94,020
11	7,060	-80,510	-96,560	-47,880	64,140	73,170	95,430	99,760	99,160	92,860	94,250	94,020
12	7,910	-84,420	-95,870	-46,310	64,800	75,870	95,670	99,040	99,520	93,790	93,320	94,140
13	3,430	-88,350	-94,040	-33,220	65,010	79,030	97,110	99,760	100,010	94,250	94,140	94,490
14	6,290	-92,130	-96,120	-25,100	65,230	81,740	97,350	99,400	99,760	94,250	94,370	93,790
15	10,130	-95,220	-97,120	-18,380	64,800	83,890	98,500	99,280	99,520	94,490	94,840	94,490
16	9,340	-98,150	-96,410	-13,210	63,700	84,350	98,080	99,280	100,490	94,250	94,720	93,900
17	5,050	-100,900	-95,470	-7,190	64,360	87,030	96,630	99,400	100,730	93,440	94,720	93,090
18	570	-99,810	-94,560	-1,670	65,010	89,710	98,800	99,280	99,760	94,020	94,250	94,020
19	-2,950	-98,410	-93,940	2,290	65,450	91,690	98,080	99,280	100,490	94,250	93,900	94,020
20	-7,640	-97,120	-93,350	8,300	65,890	90,760	97,470	99,280	99,880	94,720	93,320	94,250
21	-12,350	-97,550	-94,920	13,700	66,110	90,530	97,960	99,520	99,280	94,370	93,320	94,250
22	-15,240	-97,360	-96,170	17,860	65,450	89,360	96,870	98,200	98,560	93,790	93,790	94,720
23	-18,950	-97,360	-94,510	18,050	64,360	88,900	98,320	100,010	96,390	93,670	94,020	95,670
24	-21,920	-97,100	-92,920	19,040	65,780	88,660	97,590	99,040	95,180	93,790	94,020	96,150
25	-24,800	-97,570	-89,820	24,210	66,220	89,250	97,840	99,280	93,670	93,790	94,020	96,390
26	-27,310	-97,850	-91,150	26,650	66,550	89,940	96,990	99,520	94,250	94,020	93,790	95,910
27	-29,540	-98,150	-90,000	32,700	67,430	90,760	96,030	99,520	93,790	94,250	93,090	95,670
28	-33,140	-98,390	-91,290	37,780	67,320	91,460	91,110	99,520	93,790	94,490	93,790	95,070
29	-36,080	-98,100	-92,970	42,920	-	91,810	98,440	99,760	94,020	94,020	93,090	94,250
30	-38,800	-98,900	-91,430	47,990	-	92,510	99,280	100,610	93,670	94,250	93,790	93,550
31	-41,680	-	-89,520	52,890	-	92,860	-	100,730	-	93,790	93,550	-

Note.- Negative figures of contents indicate storage necessary to fill reservoir to sill of powerhouse penstock.

Monthly gage height and contents, water year October 1941 to September 1942

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	37.94	18,850	-
Oct. 31	30.70	-41,680	-60,530
Nov. 30	16.38	-98,900	-57,220
Dec. 31	20.02	-89,520	+9,380
Calendar year 1941	-	-	-85,640
Jan. 31	41.22	52,890	+142,410
Feb. 28	42.55	87,320	+14,430
Mar. 31	44.80	92,860	+25,540
Apr. 30	45.34	99,280	+5,420
May 31	45.46	100,730	+1,450
June 30	44.87	93,670	-7,060
July 31	44.88	93,790	+120
Aug. 31	44.86	93,550	-240
Sept.30	44.86	93,550	0
Water year 1941-42	-	-	+74,700

Note.- Negative figures of contents indicate storage necessary to fill reservoir to sill of powerhouse penstock.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942. August 1895 to December 1899, May 1901 to December 1910 at site at Montgomery Ferry, 6 miles downstream.

Extremes.- Maximum discharge during year, 20,200 second-feet Apr. 25 (gage height, 11.02 feet); minimum, 99 second-feet Feb. 2 (gage height, 1.82 feet).
1910-42: 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.19), Lake Walcott (see preceding page), 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,540	2,070	1,480	b1,260	1,240	2,740	1,670	7,390	9,150	7,170	8,670	7,960
2	1,050	2,100	1,600	b1,320	708	2,360	1,620	7,550	6,400	7,610	8,690	7,740
3	754	2,100	1,870	b1,510	500	2,340	1,390	8,230	6,370	7,880	8,720	7,800
4	768	2,140	1,790	b1,510	2,580	2,360	1,280	8,550	6,690	7,980	8,750	7,850
5	775	2,300	1,490	b2,160	4,080	2,390	1,230	8,390	6,900	8,040	8,830	7,900
6	768	2,520	1,370	b3,030	3,970	2,440	1,260	7,740	7,230	8,170	8,690	7,960
7	1,160	2,520	1,360	b2,670	2,620	2,440	1,240	7,500	7,520	8,390	8,550	7,960
8	1,490	2,500	1,340	b1,680	1,530	2,460	1,370	7,150	7,770	8,720	8,440	7,880
9	1,470	2,460	1,330	1,210	1,380	1,870	1,670	7,090	7,360	8,670	8,360	7,930
10	1,400	2,410	1,340	1,180	1,540	1,110	1,860	7,150	7,200	8,610	8,310	7,740
11	1,380	2,380	1,350	b1,250	1,690	1,130	1,980	7,090	7,170	8,720	8,340	7,440
12	1,390	2,330	1,360	b1,250	1,810	1,130	2,000	7,040	7,200	8,530	8,440	7,170
13	1,420	2,280	1,380	b1,230	1,870	1,150	2,100	7,360	7,260	8,530	8,310	7,070
14	1,390	2,240	1,380	b1,230	1,940	1,120	2,340	9,940	7,230	8,640	8,200	6,720
15	1,380	2,180	1,330	b1,400	1,850	1,140	2,460	10,900	7,340	8,690	8,120	6,480
16	1,470	2,100	1,260	b1,350	1,560	1,130	9,090	10,200	7,500	8,690	8,150	6,140
17	1,690	1,840	1,210	b1,250	1,870	1,140	8,970	10,400	7,040	8,640	8,170	6,010
18	1,840	1,400	1,230	1,140	2,130	1,180	11,000	8,770	6,660	8,530	8,280	5,880
19	1,870	1,360	1,220	b1,180	2,090	1,400	13,200	8,190	6,580	8,500	8,530	5,840
20	1,720	1,360	1,230	b1,360	2,130	1,610	11,500	9,820	6,660	8,420	8,720	5,490
21	1,850	1,080	1,230	b2,060	2,090	1,840	10,100	9,610	6,720	8,340	8,750	5,080
22	1,800	1,020	1,200	b1,720	1,940	2,060	10,500	8,340	7,010	8,310	8,720	4,920
23	2,020	1,020	1,210	b1,260	1,600	1,530	12,800	7,710	7,150	8,470	8,750	4,670
24	1,890	1,040	b1,200	b1,150	1,910	1,230	18,100	7,500	7,010	8,690	8,780	4,510
25	1,760	1,110	b1,200	b1,110	2,140	1,220	19,000	7,260	6,980	8,780	8,720	4,620
26	1,620	1,110	b1,150	1,030	2,360	1,210	15,700	7,150	7,090	8,750	8,530	4,400
27	1,790	1,050	b1,150	1,030	2,570	1,210	9,490	7,280	7,120	8,750	8,530	3,860
28	2,030	1,000	b1,150	1,120	2,680	1,230	6,690	6,820	7,120	8,610	8,440	3,740
29	2,000	1,000	b1,150	1,330	-	1,230	9,750	13,300	6,880	8,550	8,470	2,790
30	1,990	1,170	b1,150	1,460	-	1,360	13,300	13,700	6,800	8,550	8,390	2,250
31	2,060	-	b1,150	1,400	-	1,500	-	12,700	-	8,610	8,200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	47,635	2,060	754	1,533	94,280
November	53,190	2,620	1,000	1,773	105,500
December	40,860	1,870	1,150	1,318	81,040
Calendar year 1941	1,434,065	8,390	616	3,929	2,844,000
January	44,840	3,030	1,030	1,446	88,940
February	56,378	4,080	500	2,014	111,800
March	50,260	2,740	1,110	1,621	99,690
April	204,660	19,000	1,230	6,822	405,900
May	269,820	13,700	7,040	8,704	535,200
June	213,110	9,150	6,370	7,104	422,700
July	261,540	8,780	7,170	8,437	518,800
August	263,650	8,830	8,120	8,502	522,700
September	183,800	7,960	2,250	6,127	364,600
Water year 1941-42	1,689,543	19,000	500	4,629	3,351,000

b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Extremes.- Maximum discharge during year, 14,000 second-feet Apr. 26 (gage height, 16.16 feet); minimum, 8 second-feet July 2-5 (gage height, 1.49 feet).
1909-42: 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 for periods Dec. 26, 27, Apr. 15 to June 4, which are fair. Flow regulated by American Falls Reservoir (see p. 19), Lake Walcott (see p. 22) 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 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.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	356	1,500	404	395	476	2,280	459	1,640	3,470	9	11	325
2	356	1,400	404	420	498	2,140	473	936	99	8	12	322
3	353	1,380	407	459	456	1,500	452	1,890	43	8	12	319
4	350	1,320	548	512	729	1,710	449	1,670	27	8	13	319
5	353	1,580	784	697	2,600	1,790	449	2,730	10	8	13	319
6	350	2,320	671	1,790	3,560	1,580	449	1,860	11	10	13	325
7	350	2,530	527	2,140	3,240	1,690	449	886	11	10	13	328
8	350	2,210	527	1,490	1,580	1,990	456	374	13	10	13	328
9	353	1,330	439	614	606	1,790	456	55	16	12	13	328
10	353	692	404	398	638	506	456	27	16	13	13	328
11	353	498	414	401	850	395	456	303	16	13	12	328
12	353	498	414	433	1,270	356	452	507	15	12	11	328
13	353	494	417	459	1,060	350	452	1,020	15	12	11	336
14	353	494	417	462	1,030	345	452	1,980	15	12	11	333
15	392	449	417	442	1,150	350	645	5,160	15	13	10	330
16	494	395	414	420	796	348	4,530	3,140	16	13	10	325
17	494	395	417	429	626	348	6,750	4,140	159	13	10	316
18	501	395	417	433	775	345	7,670	3,300	47	11	31	319
19	501	398	417	436	931	495	10,600	923	15	11	322	325
20	501	401	414	426	1,060	727	6,410	2,870	12	11	330	333
21	498	407	407	420	1,670	931	5,790	2,520	10	11	330	330
22	501	407	410	429	1,370	1,230	4,750	1,590	10	11	330	353
23	576	634	410	446	816	1,270	7,140	494	9	10	330	377
24	798	670	410	452	965	567	12,500	359	10	10	330	377
25	793	865	410	423	1,410	356	13,300	229	11	10	328	377
26	786	825	b407	404	1,550	365	12,400	34	11	10	328	377
27	1,020	788	b407	404	1,850	365	6,250	34	11	11	328	380
28	1,420	735	426	417	2,140	353	651	625	11	12	328	374
29	1,620	529	456	429	-	350	1,760	5,540	13	12	330	368
30	1,790	401	423	456	-	389	7,620	6,990	12	12	328	368
31	1,920	-	395	470	-	452	-	7,120		12	325	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	19,543	1,920	350	630	38,760
November	27,140	2,530	395	905	53,830
December	13,834	784	395	446	27,440
Calendar year 1941	113,565	2,530	3	311	225,300
January	18,006	2,140	395	581	35,710
February	35,724	3,560	456	1,276	70,860
March	27,663	2,280	345	892	54,870
April	117,326	13,300	449	3,911	232,700
May	60,946	7,120	27	1,966	120,900
June	4,149	3,470	9	138	8,230
July	338	13	6	10.9	670
August	4,499	330	10	145	8,920
September	10,195	380	316	340	20,220
Water year 1941-42	339,363	13,300	8	930	673,100

b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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, 2¼ miles upstream from Shoshone Falls, and 4 miles north of Kimberly.

Records available.- July 1923 to September 1942.

Average discharge.- 19 years, 2,088 second-feet.

Extremes.- Maximum discharge during year, 13,700 second-feet Apr. 26 (gage height, 16.56 feet); minimum, 15 second-feet (regulated) July 4 (gage height, 1.27 feet).
1923-42: 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 good. Practically entire flow is diverted at Milner during irrigation season; no diversions between Milner and Kimberly. Flow regulated by Twin Falls power plant.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

3.1	173	5.5	740	10.0	3,340
3.4	221	6.0	925	11.0	4,350
4.0	332	7.0	1,370	12.0	5,580
4.5	445	8.0	1,890	14.0	8,730
5.0	580	9.0	2,530	16.3	13,100

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	817	2,160	775	803	820	2,500	768	4,010	4,870	372	396	767
2	814	1,870	806	733	893	2,610	764	1,040	1,640	366	400	738
3	806	1,870	817	747	929	2,070	775	1,920	627	567	415	770
4	817	1,840	853	831	893	1,910	775	2,390	358	174	404	783
5	810	1,850	1,010	941	1,710	2,130	750	2,660	402	384	408	778
6	810	2,450	1,220	1,600	3,720	1,620	761	2,520	395	345	450	747
7	817	2,910	1,010	2,540	3,730	a2,100	747	1,700	359	334	414	765
8	810	2,730	901	2,230	2,330	a2,100	775	1,140	331	351	466	753
9	803	2,200	909	1,470	1,430	a2,100	764	885	380	361	386	796
10	806	1,530	831	917	933	a1,800	775	498	368	349	410	793
11	789	1,020	796	761	1,120	754	750	299	336	357	404	780
12	768	921	810	733	1,410	664	750	678	378	355	416	791
13	810	945	796	814	1,740	702	754	1,320	390	371	395	784
14	792	945	817	877	1,470	628	768	1,640	388	404	410	796
15	768	937	810	803	1,490	a700	758	5,420	362	381	416	787
16	831	889	831	838	1,580	a700	2,970	3,370	372	377	439	783
17	973	842	831	796	1,070	a700	6,980	4,440	426	352	410	778
18	881	803	831	782	1,010	a700	7,140	4,150	415	393	400	776
19	954	828	796	838	1,320	677	11,000	1,720	495	355	581	790
20	949	792	803	775	1,420	917	9,180	2,360	432	376	633	775
21	981	806	792	803	1,680	1,010	6,560	3,000	379	371	662	780
22	917	828	796	796	2,010	1,560	5,020	2,800	390	390	700	801
23	957	873	803	796	1,580	1,640	6,420	1,110	378	379	731	796
24	1,140	1,210	845	831	1,230	1,460	11,800	965	379	383	737	834
25	1,300	1,400	796	831	1,630	824	13,000	909	378	409	779	853
26	1,300	1,350	782	817	1,890	693	12,900	667	429	379	748	857
27	1,380	1,290	782	754	1,950	687	7,380	383	331	394	752	857
28	1,880	1,230	768	782	2,400	690	2,440	508	309	409	752	857
29	1,940	1,160	861	775	-	661	921	3,920	336	403	756	857
30	2,140	933	845	775	-	680	7,320	7,190	361	406	763	789
31	2,260	-	849	824	-	658	-	7,710	-	387	770	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	32,820	2,260	768	1,059	65,100
November	41,412	2,910	792	1,380	82,140
December	26,172	1,220	768	844	51,910
Calendar year 1941	255,561	2,910	139	700	506,900
January	29,613	2,540	733	955	58,740
February	45,388	3,730	820	1,621	90,030
March	38,645	2,610	628	1,247	76,650
April	122,465	13,000	747	4,082	242,900
May	73,322	7,710	299	2,365	145,400
June	17,413	4,870	309	580	34,540
July	11,637	567	174	375	23,080
August	16,805	779	386	542	33,330
September	23,831	857	738	794	47,270
Water year 1941-42	479,523	13,000	174	1,314	951,100

a No gage-height record; discharge computed on basis of records for stations at Milner and near Twin Falls.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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Snake River near Twin Falls, Idaho

Location.- Water-stage recorder, lat. 42°36', long. 114°29', in SW¼SW¼ 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 1942.

Average discharge.- 28 years (1911-16, 1919-42), 3,593 second-feet.

Extremes.- Maximum discharge during year, 15,200 second-feet Apr. 26 (gage height, 9.66 feet); minimum, 347 second-feet (regulated) July 5 (gage height, 1.98 feet).
1911-17, 1919-42: Maximum discharge observed, 32,200 second-feet June 10,1914, corrected (gage height, 13.3 feet), from rating curve extended above 29,000 second-feet; minimum, 250 second-feet (estimated) Apr. 16, 1936.

Remarks.- Records good except those for period of no gage-height record, which are fair. Flow regulated 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.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,030	2,520	983	947	894	2,640	795	4,740	a6,000	460	555	992
2	1,030	2,150	929	912	929	2,810	827	1,480	a2,000	485	538	938
3	1,010	2,150	947	903	1,060	2,290	827	1,820	a900	550	555	920
4	1,010	2,140	983	920	1,020	1,990	878	2,600	a600	544	555	947
5	1,010	2,110	1,100	992	1,440	2,250	878	2,840	a500	445	544	965
6	1,010	2,870	1,340	1,400	3,900	2,060	827	2,870	a500	490	555	974
7	1,000	3,300	1,220	2,640	4,000	2,200	803	1,990	a500	480	555	965
8	992	3,160	1,050	2,520	2,800	2,210	869	1,430	a500	450	538	920
9	983	2,610	1,050	1,760	1,730	2,290	894	1,060	a500	480	528	983
10	974	1,860	1,010	1,180	1,140	1,950	852	920	a500	506	555	1,000
11	983	1,350	947	938	1,130	1,590	835	585	a500	500	555	1,000
12	974	1,100	929	903	1,420	819	894	500	a500	500	555	1,000
13	965	1,090	947	852	1,880	732	894	1,100	a500	500	555	992
14	965	1,100	947	912	1,580	725	852	1,420	506	522	567	1,000
15	965	1,090	956	929	1,580	748	827	5,130	528	538	567	1,000
16	965	1,050	974	929	1,710	725	2,260	3,740	561	533	550	992
17	1,130	1,010	992	929	1,260	803	7,180	4,580	567	528	579	983
18	1,080	983	992	903	1,090	740	7,180	4,440	538	506	579	992
19	1,120	965	956	894	1,250	740	11,600	2,320	732	522	654	992
20	1,160	965	947	894	1,440	886	9,690	2,220	585	528	688	983
21	1,180	938	956	894	1,690	1,030	7,020	3,310	544	522	819	947
22	1,130	974	929	894	2,150	1,490	5,390	3,030	544	533	852	1,000
23	1,150	974	938	903	1,770	1,760	6,400	1,690	522	528	852	992
24	1,250	1,200	929	903	1,310	1,720	2,300	a1,130	522	533	869	1,000
25	1,490	1,530	947	938	1,600	1,090	4,000	a1,000	533	528	938	1,010
26	1,500	1,530	903	938	1,950	835	4,300	a850	528	528	947	1,010
27	1,510	1,480	903	929	2,060	779	8,110	a600	522	533	903	1,010
28	2,080	1,420	903	929	2,530	748	3,080	a500	440	533	894	1,020
29	2,200	1,340	912	929	-	748	1,140	a4,000	500	533	965	1,030
30	2,420	1,170	920	894	-	740	6,860	a7,200	495	561	992	1,000
31	2,540	-	956	886	-	763	-	a8,000	-	573	983	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	38,806	2,540	965	1,252	76,970
November	47,929	3,300	938	1,598	95,070
December	30,395	1,340	903	980	60,290
Calendar year 1941	307,432	3,300	394	842	609,800
January	33,294	2,640	852	1,074	66,040
February	48,313	4,000	894	1,725	95,830
March	42,901	2,810	725	1,384	85,090
April	129,262	14,300	795	4,309	256,400
May	78,995	8,000	500	2,548	156,700
June	23,167	6,000	440	772	45,950
July	15,972	573	445	515	31,680
August	21,341	992	528	688	42,330
September	29,557	1,030	920	985	58,630
Water year 1941-42	539,932	14,300	440	1,479	1,071,000

a No gage-height record; discharge computed on basis of records for stations at Milner and near Kimberly.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 (Malad) River, and 3½ miles north of Hagerman.

Records available.- November 1937 to September 1942.

Extremes.- Maximum discharge during year, 19,600 second-feet Apr. 26 (gage height, 12.48 feet); minimum, 4,600 second-feet (regulated) July 26 (gage height, 5.86 feet).
1937-42: Maximum discharge, 23,800 second-feet May 6, 1938 (gage height, 13.93 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.

Remarks.- Records excellent except those for period of no gage-height record, which are fair. Flow regulated by Lower Salmon Falls power plant. Practically entire flow at Milner diverted during irrigation season; only minor diversions below Milner.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,320	a8,300	7,320	6,900	6,680	8,060	6,120	12,800	13,200	6,240	6,340	6,980
2	7,260	a8,300	7,220	6,840	6,740	8,220	6,180	7,980	9,700	6,120	6,400	7,000
3	7,260	a8,200	7,200	6,700	6,820	8,120	6,140	7,060	7,460	6,080	6,420	6,940
4	7,260	a8,200	7,180	6,760	7,000	7,660	6,080	8,020	6,800	6,100	6,440	6,940
5	7,240	a8,200	7,200	6,720	6,960	7,660	6,100	8,540	6,440	5,960	6,380	6,960
6	7,260	a8,500	7,280	6,840	8,240	7,760	6,080	8,540	6,280	5,900	6,400	6,980
7	7,260	9,160	7,440	7,640	9,580	7,600	6,140	8,120	6,160	5,940	6,380	7,020
8	7,260	9,100	7,320	8,420	9,240	7,720	6,160	7,240	6,200	5,960	6,360	7,060
9	7,220	8,980	7,180	7,960	7,880	7,920	6,200	6,800	6,160	5,920	6,340	7,080
10	7,200	8,480	7,200	7,340	7,140	7,880	6,160	6,460	6,080	5,960	6,300	7,140
11	7,160	7,960	7,100	6,900	6,740	7,360	6,100	6,400	6,080	5,960	6,320	7,180
12	7,220	7,560	7,060	6,720	6,860	6,720	6,100	6,200	6,120	6,000	6,240	7,280
13	7,200	7,420	7,080	6,700	7,140	6,500	6,260	6,480	6,140	6,020	6,300	7,340
14	7,180	7,420	7,120	6,660	7,320	6,400	6,300	7,100	6,180	6,040	6,380	7,360
15	7,180	7,380	7,120	6,700	7,140	6,360	6,340	8,380	6,260	6,100	6,400	7,380
16	7,140	7,500	7,100	6,760	7,140	6,340	6,400	10,900	6,400	6,120	6,380	7,360
17	7,180	7,300	7,120	6,760	7,200	6,360	10,500	9,720	6,460	6,060	6,360	7,360
18	7,260	7,320	7,140	6,700	6,740	6,380	12,700	10,400	6,460	6,060	6,380	7,480
19	7,260	7,300	7,080	6,660	6,680	6,320	15,500	9,340	6,520	6,060	6,400	7,480
20	7,420	7,220	7,040	6,640	6,920	6,320	16,000	7,360	6,680	6,160	6,460	7,480
21	7,460	7,200	6,980	6,640	7,100	6,520	13,600	8,680	6,540	6,100	6,500	7,480
22	7,420	7,180	6,940	6,660	7,380	6,640	11,100	8,560	6,560	6,120	6,680	7,480
23	7,340	7,180	6,960	6,680	7,520	7,080	10,700	8,160	6,520	6,060	6,700	7,480
24	7,380	7,200	6,940	6,700	7,180	7,100	15,300	6,980	6,500	6,080	6,720	7,400
25	7,560	7,500	6,860	6,780	6,960	6,960	18,400	6,960	6,500	6,160	6,720	7,360
26	7,800	7,720	6,720	6,920	7,300	6,540	19,200	7,060	6,500	6,200	6,840	7,340
27	7,820	7,660	6,580	7,080	7,500	6,340	16,300	6,940	6,500	6,200	6,800	7,360
28	7,880	7,640	6,660	7,140	7,720	6,300	10,800	6,740	6,520	6,340	6,880	7,360
29	a8,000	7,540	6,860	7,080	-	6,220	7,360	6,820	6,400	6,260	6,880	7,340
30	a8,100	7,520	6,940	6,720	-	6,180	8,620	12,800	6,420	6,240	7,040	7,280
31	a8,200	-	6,960	6,660	-	6,160	-	14,100	-	6,280	7,100	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	229,700	8,200	7,140	7,410	455,600
November	234,140	9,160	7,180	7,805	464,400
December	218,900	7,440	6,580	7,061	434,200
Calendar year 1941	2,395,880	9,160	5,260	6,564	4,752,000
January	214,380	8,420	6,640	6,915	425,200
February	204,820	9,580	6,680	7,315	406,300
March	215,720	8,220	6,160	6,959	427,900
April	284,940	19,200	6,080	9,498	565,200
May	257,940	14,100	6,200	8,321	511,600
June	202,740	13,200	6,080	6,758	402,100
July	188,780	6,340	5,900	6,090	374,400
August	202,240	7,100	6,240	6,524	401,100
September	217,680	7,480	6,940	7,256	431,800
Water year 1941-42	2,671,980	19,200	5,900	7,320	5,300,000

a No gage-height record; discharge computed on basis of records for station at King Hill.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SW¼ 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 1942.

Average discharge.- 33 years, 10,500 second-feet.

Extremes.- Maximum discharge during year, 21,200 second-feet Apr. 26 (gage height, 10.59 feet); minimum, 6,730 second-feet July 4 (gage height, 5.68 feet).
1909-42: 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 good. 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,770	10,100	8,920	8,480	8,430	9,560	8,560	15,000	14,700	7,440	7,490	8,230
2	8,740	10,000	8,740	8,360	8,480	9,690	8,480	10,100	12,100	7,540	7,540	8,230
3	8,660	9,830	8,790	8,280	8,560	9,800	8,380	8,740	9,370	7,200	7,590	8,230
4	8,690	10,100	8,660	8,080	8,920	9,310	8,430	9,450	8,580	7,150	7,610	8,180
5	8,690	9,960	8,660	a7,800	8,970	9,130	8,480	10,300	7,780	7,230	7,610	8,200
6	8,660	9,850	8,710	a8,000	9,720	9,400	8,300	10,400	7,660	7,060	7,630	8,230
7	8,660	10,500	8,950	a9,000	11,900	9,160	8,230	9,750	7,610	7,080	7,590	8,280
8	8,690	10,800	8,870	a10,200	11,600	9,310	8,230	8,690	7,800	7,130	7,560	8,330
9	8,840	10,700	8,770	a9,500	10,200	9,480	8,180	8,160	8,130	7,110	7,510	8,430
10	8,820	10,200	8,770	a9,000	9,130	9,610	8,060	7,800	8,200	7,130	7,490	8,480
11	8,770	9,480	8,660	8,430	8,610	9,580	7,900	7,730	8,300	7,200	7,490	8,510
12	8,870	9,000	8,580	8,280	8,530	9,000	7,780	7,540	8,180	7,150	7,490	8,610
13	8,950	8,790	8,580	8,280	8,740	8,610	8,180	7,680	7,980	7,200	7,470	8,690
14	8,920	8,740	8,770	8,230	9,050	8,380	9,450	8,200	7,780	7,230	7,560	8,710
15	8,900	8,710	8,770	8,280	8,820	8,200	9,660	8,870	7,680	7,300	7,630	8,740
16	8,870	8,870	8,790	8,380	8,900	8,130	9,580	12,500	7,960	7,350	7,630	8,790
17	8,840	9,000	8,840	8,380	8,840	8,060	12,500	10,900	7,980	7,350	7,590	8,770
18	8,970	8,710	8,900	8,330	a8,600	8,130	15,700	11,700	7,960	7,350	7,730	8,820
19	9,000	8,740	8,970	8,260	a8,400	8,080	16,500	11,100	7,760	7,300	7,610	8,840
20	9,130	8,660	9,180	8,200	a8,500	8,230	18,400	8,560	7,980	7,370	7,660	8,840
21	9,180	8,740	8,970	8,180	a8,700	8,300	16,100	9,310	7,800	7,370	7,710	8,770
22	9,160	8,840	8,820	8,200	8,970	8,530	13,600	9,530	7,760	7,370	7,800	8,740
23	9,080	8,770	8,660	8,230	9,160	9,080	13,000	9,130	7,730	7,370	7,880	8,710
24	9,080	8,660	8,690	8,260	8,790	8,290	16,200	7,800	7,660	7,350	7,930	8,660
25	9,210	8,970	8,510	8,580	8,460	9,100	20,100	8,300	7,680	7,370	7,930	8,580
26	9,450	9,310	8,280	9,030	8,690	8,530	21,000	8,710	7,680	7,440	7,930	8,530
27	9,420	9,210	8,060	9,610	9,000	8,260	18,700	8,790	7,710	7,470	7,900	8,580
28	9,560	9,130	7,980	10,400	9,130	8,200	13,400	8,690	7,710	7,610	7,930	8,610
29	9,910	9,050	8,260	9,580	-	8,230	9,370	8,640	7,590	7,590	8,030	8,580
30	9,720	9,080	8,510	8,790	-	8,360	8,840	13,000	7,560	7,560	8,160	8,510
31	9,830	-	8,530	8,480	-	8,400	-	15,100	-	7,560	8,230	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	280,040	9,910	8,660	9,034	555,500
November	280,500	10,800	8,660	9,350	556,400
December	269,150	9,180	7,980	8,682	533,900
Calendar year 1941	2,886,350	10,800	6,500	7,908	5,725,000
January	267,090	10,400	7,800	8,616	529,800
February	253,800	11,900	8,400	9,064	503,400
March	273,130	9,800	8,060	8,811	541,700
April	349,290	21,000	7,780	11,640	692,800
May	300,170	15,100	7,540	9,683	595,400
June	248,170	14,700	7,560	8,272	492,200
July	226,930	7,610	7,060	7,320	450,100
August	238,910	8,230	7,470	7,707	473,900
September	256,410	8,840	8,180	8,547	508,600
Water year 1941-42	3,243,590	21,000	7,060	8,887	6,434,000

a No gage-height record; discharge computed on basis of recorded range in stage and records for stations near Murphy and below Lower Salmon Falls, near Hagerman.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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., 4¼ miles downstream from Swan Falls power plant and 7⅞ miles northeast of Murphy.
Drainage area.- 41,900 square miles.
Records available.- August to October 1912, August 1913 to September 1942.
Average discharge.- 29 years (1913-42), 10,550 second-feet.
Extremes.- Maximum discharge during year, 23,900 second-feet Apr. 27 (gage height, 8.92 feet); minimum, 6,760 second-feet (regulated) Aug. 12 (gage height, 3.75 feet).
1912-42: 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 good. Diurnal fluctuations caused by gates and power plant at dam. Several diversions by pumping between this station and station at King Hill.
Correction.- The minimum daily discharge for the water year 1941 has been corrected to 6,980 second-feet, superseding figure published in Water-Supply Paper 933.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

3.9	7,170	7.0	16,800
4.4	8,590	8.0	20,400
5.0	10,400	9.0	24,200
6.0	13,500		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,740	10,000	9,520	8,980	8,860	9,490	9,040	10,700	17,700	7,930	7,450	8,240
2	8,770	10,200	9,400	8,830	8,860	9,940	9,430	15,800	16,900	7,980	7,450	8,240
3	8,800	10,200	9,280	8,710	8,890	9,910	9,610	11,400	13,800	7,790	7,420	8,330
4	8,710	9,970	9,280	8,710	9,070	10,200	9,700	9,910	11,200	7,730	7,650	8,300
5	8,800	10,400	9,190	8,530	9,460	9,700	10,000	10,700	10,200	7,730	7,560	8,240
6	8,770	10,200	9,310	a8,500	9,700	9,310	10,700	11,400	9,670	7,700	7,510	8,300
7	8,740	10,200	9,340	a8,800	10,300	9,760	10,400	11,500	9,460	7,560	7,620	8,330
8	8,800	10,600	9,370	a9,500	12,200	9,580	10,400	10,900	9,550	7,620	7,670	8,330
9	8,830	11,000	9,280	a10,500	11,800	9,580	10,200	9,910	9,790	7,420	7,510	8,360
10	8,890	11,100	9,220	9,790	10,200	9,850	10,200	9,460	9,910	7,420	7,450	8,390
11	8,890	10,600	9,190	9,190	9,400	10,100	10,200	9,070	9,820	7,340	7,730	8,500
12	8,830	10,000	9,190	8,680	8,920	10,200	10,200	9,040	9,910	7,370	7,450	8,590
13	8,920	9,610	9,040	8,530	8,920	9,730	10,300	9,130	9,760	7,390	7,420	8,590
14	8,950	9,460	9,100	8,420	9,070	9,370	10,500	9,190	9,370	7,390	7,390	8,710
15	9,010	9,400	9,190	8,390	9,370	9,070	11,900	9,640	9,100	7,450	7,480	8,650
16	8,950	9,400	9,130	8,240	9,130	8,890	12,300	10,500	8,920	7,420	7,450	8,710
17	8,950	9,370	9,070	8,300	9,190	8,620	11,600	14,000	9,130	7,420	7,650	8,710
18	8,860	9,400	9,250	8,440	9,070	8,650	14,700	12,700	9,100	7,450	7,480	8,890
19	9,010	9,220	9,310	8,590	8,710	8,620	17,400	13,400	9,070	7,450	7,560	8,800
20	8,980	9,400	9,310	8,530	8,530	8,800	19,000	12,700	8,770	7,420	7,730	8,980
21	9,190	9,280	9,490	8,500	8,560	8,740	19,700	10,200	8,980	7,310	7,530	8,950
22	9,190	9,310	9,370	8,500	8,920	8,770	17,500	10,900	8,590	7,340	7,560	9,100
23	9,220	9,280	9,220	8,500	9,250	8,950	15,100	11,300	8,440	7,420	7,670	9,040
24	9,130	9,220	8,980	8,680	9,490	9,400	14,900	11,300	8,560	7,280	7,980	9,010
25	9,220	9,190	9,070	8,770	9,190	9,640	18,600	10,500	8,390	7,280	7,760	8,890
26	9,220	9,370	9,010	9,280	9,010	9,520	22,300	10,800	8,440	7,250	7,790	8,800
27	9,490	9,820	8,680	9,430	9,010	9,160	23,200	11,400	8,330	7,340	7,870	8,920
28	9,580	9,640	8,590	10,100	9,250	8,830	19,900	11,700	8,300	7,310	7,980	8,980
29	9,580	9,730	8,470	10,700	-	8,740	14,800	11,600	8,240	7,450	7,980	8,920
30	9,910	9,520	8,620	9,940	-	8,710	10,900	11,300	8,210	7,450	7,950	8,830
31	9,910	-	8,740	9,190	-	8,950	-	15,800	-	7,450	8,210	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	280,840	9,910	8,710	9,059	557,000
November	294,090	11,100	9,190	9,803	583,300
December	283,210	9,520	8,470	9,136	561,700
Calendar year 1941	3,021,230	11,100	6,980	8,277	5,992,000
January	277,750	10,700	8,240	8,960	550,900
February	262,330	12,200	8,530	9,369	520,300
March	288,780	10,200	8,620	9,315	572,800
April	404,680	23,200	9,040	13,490	802,700
May	347,850	15,800	9,040	11,220	690,000
June	295,610	17,700	8,210	9,854	586,300
July	231,860	7,980	7,250	7,479	459,900
August	236,910	8,210	7,390	7,642	469,900
September	259,630	9,100	8,240	8,654	515,000
Water year 1941-42	3,463,540	23,200	7,250	9,489	6,870,000

a No gage-height record; discharge computed on basis of records for stations at King Hill and Weiser.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942. Fragmentary gage-height record obtained by U. S. Weather Bureau since 1895.

Average discharge.- 31 years (1911-42), 17,230 second-feet.

Extremes.- Maximum discharge during year, 44,300 second-feet June 1 (gage height, 9.42 feet); minimum, 8,650 second-feet July 24 (gage height, 2.64 feet).

1910-42: 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 reservoirs above station and 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11,500	13,800	13,300	13,100	16,100	13,200	18,200	22,000	42,200	13,900	9,050	10,700
2	11,400	14,100	13,200	13,500	16,000	13,500	20,000	21,200	42,700	13,900	9,050	10,900
3	11,400	14,300	13,500	12,500	16,800	13,800	21,000	25,400	40,000	13,400	9,050	10,700
4	11,800	14,200	16,600	13,000	21,000	13,600	21,800	22,400	35,800	12,900	9,010	10,700
5	11,800	14,500	16,300	12,000	22,700	13,700	26,400	20,200	31,900	12,600	9,160	10,500
6	12,100	14,700	14,800	12,100	20,200	13,400	30,900	20,700	30,300	12,200	9,090	10,400
7	12,600	14,500	14,200	12,100	19,900	12,900	31,900	21,400	30,000	11,800	9,090	10,400
8	12,500	14,300	13,900	11,700	18,600	13,300	32,300	21,300	31,000	11,200	9,090	10,400
9	12,600	14,200	13,800	12,900	20,100	13,600	34,700	23,900	31,300	10,900	9,120	10,600
10	12,800	14,400	13,600	14,300	19,800	13,900	36,500	22,100	31,600	10,600	9,050	10,800
11	12,800	14,700	13,400	14,300	17,900	16,900	38,400	21,600	30,600	10,300	8,940	11,000
12	12,900	14,600	13,400	13,500	16,400	19,700	39,000	19,900	28,500	10,200	9,010	11,200
13	12,800	13,900	13,300	12,800	15,300	20,600	39,900	19,500	25,800	9,970	8,730	11,400
14	12,600	13,500	13,300	12,400	14,800	19,100	39,800	19,200	24,000	9,900	8,830	11,500
15	12,900	13,700	14,200	12,100	14,200	17,400	40,800	19,500	23,200	9,640	8,980	11,500
16	12,900	15,300	15,700	12,000	14,400	16,200	40,900	21,300	22,900	9,530	9,050	11,400
17	13,000	15,100	15,500	11,700	13,600	15,900	38,900	21,800	22,600	9,450	9,050	11,400
18	13,200	14,500	16,300	11,900	13,200	15,300	38,500	25,100	21,700	9,420	9,090	11,500
19	12,800	14,200	19,200	12,100	12,800	15,500	37,700	23,400	20,000	9,600	8,830	11,600
20	12,400	13,700	22,500	11,900	12,600	14,800	38,100	23,600	19,400	9,530	8,980	11,800
21	12,900	13,500	22,100	11,400	12,400	15,200	37,900	22,900	18,300	9,420	9,090	12,000
22	13,200	13,200	19,800	11,800	12,800	15,400	38,900	20,900	17,200	9,270	8,980	12,000
23	13,100	13,000	18,100	11,500	13,000	15,400	36,300	23,200	16,300	9,090	9,270	11,900
24	13,100	12,600	17,000	11,800	13,100	16,100	33,200	28,500	15,700	8,980	9,190	11,800
25	13,000	12,600	15,900	12,200	13,400	16,000	31,700	32,100	15,500	8,980	9,490	11,800
26	13,000	12,800	15,000	13,600	13,300	16,100	32,800	33,500	15,600	8,940	9,490	11,800
27	13,000	13,000	13,900	14,300	13,000	15,700	34,700	36,100	16,100	8,830	9,640	11,500
28	13,600	13,500	13,000	17,900	13,000	14,600	34,200	38,600	15,700	8,980	10,000	11,700
29	13,700	13,300	13,100	19,700	-	15,300	31,600	39,200	15,300	9,050	10,300	11,700
30	13,400	13,300	13,500	19,200	-	15,800	26,100	40,500	14,800	9,090	10,400	11,700
31	13,800	-	13,600	17,300	-	16,400	-	40,600	-	9,120	10,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	394,600	13,800	11,400	12,730	782,700
November	417,000	15,300	12,600	13,900	827,100
December	475,000	22,500	13,000	15,320	942,100
Calendar year 1941	5,271,610	27,600	8,090	14,440	10,460,000
January	412,600	19,700	11,400	13,310	818,400
February	440,400	22,700	12,400	15,730	873,500
March	479,300	20,600	12,900	15,460	950,700
April	1,003,100	40,900	18,200	33,440	1,990,000
May	791,600	40,600	19,200	25,540	1,570,000
June	746,000	42,700	14,800	24,870	1,480,000
July	320,690	13,900	8,830	10,340	636,100
August	286,600	10,500	8,730	9,245	568,500
September	338,400	12,000	10,400	11,280	671,200
Water year 1941-42	8,105,290	42,700	8,730	16,730	12,110,000

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 19 years, 15,840 second-feet.

Extremes.- Maximum discharge during year, 46,600 second-feet June 2 (gage height, 15.96 feet); minimum, 8,940 second-feet Aug. 20 (gage height, 7.78 feet).
1923-42: Maximum discharge, 72,800 second-feet May 4, 1938 (gage height, 20.25 feet); minimum, 4,890 second-feet Aug. 6, 1924 (gage height, 6.30 feet).

Remarks.- Records excellent except those for periods of no gage-height record or sluggish intake action, which are fair. Flow regulated by irrigation reservoirs and power plants above station.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

7.8	9,000	9.0	12,800	12.0	25,100
8.2	10,200	10.0	16,500	14.0	35,500
8.6	11,400	11.0	20,600	16.0	46,800

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11,900	14,400	14,100	14,100	18,700	14,000	19,800	27,200	43,400	16,200	10,000	10,800
2	11,900	14,300	14,100	13,300	17,900	14,300	22,100	24,000	46,000	15,900	10,000	11,100
3	11,800	14,900	14,600	14,300	18,500	14,600	23,600	25,800	43,900	15,200	10,000	11,000
4	12,000	15,000	15,800	13,400	20,800	14,800	24,600	27,400	41,100	14,600	10,000	10,900
5	12,300	14,700	18,300	13,500	26,000	14,600	26,500	23,700	36,800	14,300	9,980	10,900
6	12,400	15,300	17,000	12,400	a23,000	14,700	32,300	22,400	33,800	13,800	10,200	10,700
7	12,800	15,200	15,800	12,400	a22,000	14,400	35,300	23,500	33,200	13,300	10,200	10,600
8	13,200	14,900	15,400	12,600	h21,500	14,200	36,800	23,300	33,400	12,800	10,100	10,700
9	13,200	14,700	15,200	12,900	a22,000	14,700	37,000	24,200	34,200	12,000	10,100	10,700
10	13,200	14,700	15,100	14,700	a21,500	14,900	39,600	26,200	34,000	11,700	10,200	11,100
11	13,300	15,000	14,800	15,800	a20,000	16,600	41,100	24,500	33,900	11,100	10,000	11,300
12	13,300	15,200	14,700	15,200	a18,500	20,500	42,900	23,600	32,200	10,800	h9,220	11,400
13	13,400	15,000	14,600	14,400	a17,000	22,500	43,800	22,400	29,400	10,700	9,310	11,700
14	13,200	14,400	14,600	13,600	a16,000	22,300	44,200	22,300	27,200	10,500	9,060	11,800
15	13,300	14,300	14,800	13,300	a15,500	20,500	44,400	22,100	25,800	10,400	9,250	11,900
16	13,400	15,100	16,500	13,000	15,900	19,100	45,000	23,200	24,800	10,400	9,280	11,800
17	13,400	16,300	17,200	12,800	15,700	18,100	44,300	24,400	24,400	10,300	9,310	11,700
18	13,500	15,700	17,200	12,700	14,800	17,600	42,600	25,800	24,000	10,200	9,280	11,800
19	13,600	15,300	19,400	12,900	14,300	17,100	41,400	27,200	22,100	10,200	9,310	11,800
20	13,200	15,000	22,800	12,900	13,900	17,100	42,500	25,900	21,300	10,200	9,030	12,100
21	13,000	14,500	24,600	12,600	13,700	16,800	40,800	26,100	20,300	10,200	9,140	12,200
22	13,500	14,300	22,800	11,800	13,700	17,200	43,400	25,300	19,300	10,100	9,310	12,300
23	13,800	13,900	20,900	12,300	14,000	17,200	41,300	24,800	18,300	9,950	9,220	12,300
24	13,500	13,700	19,500	12,600	14,200	17,400	38,400	29,600	17,300	9,800	9,420	12,200
25	13,500	13,400	18,300	13,100	14,300	17,700	36,000	34,500	16,700	9,770	9,340	12,100
26	13,600	13,500	17,100	13,900	14,600	17,700	34,600	36,900	16,900	9,800	9,660	12,000
27	13,600	13,500	15,900	15,900	14,300	17,700	37,400	38,100	17,300	9,800	9,570	12,100
28	13,900	13,900	15,000	18,100	13,900	17,500	37,400	41,200	17,500	9,770	9,980	11,800
29	14,200	14,200	14,400	20,800	-	17,400	36,400	42,400	17,200	9,890	10,300	12,000
30	14,200	14,100	14,700	21,500	-	17,600	32,500	43,100	16,800	9,950	10,600	12,100
31	14,200	-	14,700	20,500	-	18,500	-	44,000	-	9,890	10,700	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	409,300	14,200	11,800	13,200	811,800
November	438,400	16,300	13,400	14,610	869,600
December	519,900	24,600	14,100	16,770	1,031,000
Calendar year 1941	5,687,090	29,000	8,450	15,580	11,280,000
January	443,300	21,500	11,800	14,300	879,300
February	486,200	26,000	13,700	17,360	964,400
March	529,200	22,500	14,000	17,070	1,050,000
April	1,107,200	45,000	19,600	36,910	2,196,000
May	875,100	44,000	22,100	28,230	1,736,000
June	822,400	46,000	16,700	27,410	1,631,000
July	353,720	16,200	9,770	11,410	701,600
August	301,070	10,700	9,030	9,712	597,200
September	346,900	12,300	10,600	11,560	688,100
Water year 1941-42	6,632,690	46,000	9,030	18,170	13,160,000

a No gage-height record; discharge computed on basis of records for stations at Clarkston and Weiser.
h Computed from staff-gage reading.
Note.- Sluggish intake action July 15 to Aug. 12.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1915 to September 1922, August 1928 to September 1935 (at site 66 miles downstream, published as Snake River at Riparia), October 1935 to September 1942 in reports of Geological Survey. October 1909 to September 1933 (at site then in use) in State Water-Supply Bulletin 5. All records equivalent.

Average discharge.- 33 years (1909-42), 47,370 second-feet.

Extremes.- Maximum discharge during year, 162,000 second-feet May 27 (gage height, 28.27 feet); minimum, 15,100 second-feet (regulated) Aug. 24 (gage height, 9.66 feet); minimum daily, 16,800 second-feet (regulated) Aug. 26.

1909-42: 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, 24-28, 30, 31, Sept. 1, 2, 5, 1931.

Maximum stage known, 24.7 feet, site and datum then in use, 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 the station at Oxbow. Large diurnal fluctuation caused by power plant on Clearwater River above Lewiston, Idaho.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

10.0	16,100	17.0	53,400
11.0	19,800	21.0	84,500
13.0	28,700	25.0	124,000
15.0	40,000	28.0	158,000

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22,200	25,800	30,800	32,400	36,400	24,800	44,600	78,500	121,000	67,400	22,200	19,000
2	22,600	26,200	31,300	28,200	35,800	25,300	53,400	76,100	117,000	66,600	22,200	19,000
3	23,500	26,200	45,200	28,700	35,300	26,200	57,000	70,500	117,000	65,100	21,800	19,000
4	23,500	27,200	60,600	31,300	37,000	26,700	59,100	73,700	117,000	62,600	21,400	19,000
5	28,700	29,700	60,600	29,700	45,200	26,700	64,400	76,900	121,000	60,600	21,000	18,300
6	29,200	29,700	57,000	28,700	48,600	26,700	74,500	72,900	118,000	58,400	21,000	18,300
7	28,200	31,300	51,400	27,700	43,900	26,700	80,900	71,300	118,000	55,600	21,000	17,900
8	28,700	29,700	47,200	27,700	42,000	26,700	81,800	72,100	126,000	52,000	20,600	17,900
9	29,700	28,700	43,900	29,200	40,700	28,200	81,800	74,500	125,000	49,200	20,200	17,900
10	28,700	28,200	41,300	29,200	40,000	37,600	86,300	83,600	130,000	45,900	19,800	17,900
11	28,200	28,200	40,700	31,300	40,000	44,600	93,500	92,600	127,000	45,900	19,800	19,000
12	28,200	27,700	38,800	33,000	38,200	47,800	106,000	87,200	116,000	43,300	19,400	20,200
13	27,700	27,700	37,600	31,800	35,300	50,600	118,000	86,300	105,000	40,000	18,700	19,400
14	27,700	29,700	36,400	30,200	33,500	50,000	125,000	80,900	97,100	37,600	18,300	19,400
15	27,200	38,800	36,400	27,700	31,300	46,500	134,000	82,700	93,500	35,800	18,300	19,000
16	26,700	52,000	39,400	26,700	30,800	42,600	125,000	86,300	103,000	34,700	18,300	19,000
17	26,700	57,000	46,500	26,200	29,700	39,400	118,000	83,600	98,000	34,700	18,300	19,000
18	26,700	52,000	47,800	26,200	27,200	37,600	115,000	80,900	90,800	34,100	17,900	19,000
19	26,700	46,500	50,600	26,200	24,800	36,400	108,000	80,100	89,900	32,400	17,900	19,400
20	26,700	42,600	60,600	25,300	24,800	34,700	104,000	78,500	85,400	30,800	17,600	19,000
21	26,700	38,800	68,900	24,400	25,300	33,500	109,000	80,100	80,100	29,700	17,600	19,800
22	26,700	37,000	65,600	23,500	25,800	33,500	118,000	88,100	75,300	29,200	17,200	19,800
23	26,700	35,300	59,100	23,100	25,800	34,100	128,000	110,000	72,100	27,200	17,200	19,000
24	26,700	32,400	54,800	24,800	25,800	34,100	117,000	131,000	70,500	26,200	17,600	19,000
25	26,200	31,800	50,600	25,800	25,800	33,500	106,000	144,000	69,700	25,300	17,600	19,000
26	25,300	31,800	45,900	27,200	26,200	34,100	99,000	155,000	72,900	25,600	16,800	19,000
27	25,300	31,600	39,400	29,700	25,800	33,000	91,700	158,000	75,300	22,600	17,600	18,300
28	25,300	30,800	35,300	33,500	25,300	32,400	90,800	150,000	72,900	23,500	17,600	18,700
29	25,800	30,800	35,300	37,000	-	33,000	89,900	140,000	73,700	23,100	18,300	18,300
30	27,200	30,800	36,400	39,400	-	34,700	85,400	131,000	69,700	22,600	19,000	18,300
31	26,200	-	36,400	36,200	-	38,600	-	125,000	-	22,600	19,400	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	625,600	29,700	22,200	26,630	1,638,000
November	1,016,200	57,000	25,800	33,870	2,016,000
December	1,432,000	66,900	30,800	46,190	2,840,000
Calendar year 1941	14,239,700	102,000	16,800	39,010	28,240,000
January	904,000	39,400	23,100	29,160	1,793,000
February	926,300	48,600	24,800	33,080	1,837,000
March	1,080,500	50,600	24,600	34,850	2,143,000
April	2,865,100	134,000	44,600	95,500	5,683,000
May	3,001,400	158,000	70,500	96,820	5,853,000
June	2,947,900	130,000	69,700	98,260	5,847,000
July	1,230,700	67,400	22,600	39,700	2,441,000
August	591,600	22,200	16,800	19,080	1,173,000
September	565,800	20,200	17,900	18,860	1,122,000
Water year 1941-42	17,387,100	158,000	16,800	47,640	34,490,000

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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., 1¼ miles south of Smoot and 1½ miles upstream from Willow Creek.

Drainage area.- 59.4 square miles.

Records available.- June 1932 to September 1942 (no winter records 1933-35, 1936-37).

Extremes.- Maximum discharge during year, 168 second-feet June 8 (gage height, 2.62 feet); minimum daily, 3.6 second-feet Jan. 5, Feb. 15-18.
1932-42: Maximum discharge, 430 second-feet May 15, 1936 (gage height, 3.15 feet), 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 excellent except those for periods of ice effect or no gage-height record, which are fair. A few diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.1	7.7	7.7	4.4	3.8	3.9	7.0	49	128	41	19	12
2	8.6	8.6	*8.1	4.2	3.9	3.9	7.7	50	128	40	19	11
3	7.7	8.2	8.4	4.0	4.0	3.9	8.2	48	134	40	18	10
4	7.7	11	8.6	3.8	4.1	3.9	9.5	51	142	40	17	11
5	9.6	9.1	7.6	3.6	4.2	3.8	11	51	147	38	17	11
6	9.1	8.6	5.8	3.7	4.2	3.8	15	51	150	36	17	10
7	9.1	*8.2	5.7	3.8	4.2	3.8	17	52	154	34	16	10
8	9.6	7.2	5.8	4.2	4.1	3.8	20	58	162	33	15	9.2
9	9.1	7.7	6.0	4.4	4.1	3.8	25	64	154	31	14	8.6
10	8.6	7.7	6.2	4.4	4.0	3.8	30	70	142	30	14	8.6
11	8.6	7.7	6.4	4.3	4.0	3.8	39	72	123	30	15	9.2
12	8.6	7.7	6.5	4.1	3.9	3.8	*49	73	107	29	15	12
13	11	7.7	6.8	4.0	*3.9	*3.9	60	74	92	28	14	11
14	9.6	7.7	6.8	4.0	3.8	4.0	64	70	88	26	14	9.8
15	9.1	7.7	6.6	3.9	3.6	4.0	58	71	95	26	14	9.2
16	8.6	7.2	6.6	4.0	3.6	3.9	51	79	92	25	14	9.2
17	8.6	8.6	6.4	4.1	3.6	3.8	55	76	82	25	14	9.2
18	7.2	8.6	6.2	4.2	3.6	3.8	55	77	79	24	14	8.6
19	6.9	b8.3	6.2	4.0	3.7	3.9	49	89	79	23	14	8.6
20	6.9	7.9	6.2	3.9	3.8	4.0	56	89	74	21	14	8.6
21	6.9	7.3	6.1	3.7	3.8	4.1	67	96	70	20	14	8.6
22	6.9	6.4	6.0	3.7	3.8	4.2	78	112	64	20	12	8.0
23	6.9	6.2	5.8	4.0	3.7	4.2	74	129	60	20	12	8.0
24	7.2	6.4	5.7	4.1	3.7	4.3	68	146	58	20	13	8.0
25	10	6.7	5.6	4.3	3.7	4.5	62	146	54	20	14	8.0
26	11	7.0	5.0	4.4	3.8	4.7	58	160	56	20	13	6.8
27	9.6	7.2	4.4	4.5	3.9	4.9	54	162	54	20	12	6.8
28	8.6	7.3	4.3	4.5	3.9	5.2	55	158	50	20	12	6.8
29	8.6	7.3	4.3	4.3	-	5.6	53	152	46	20	12	6.8
30	8.2	7.4	4.4	4.0	-	6.0	51	138	42	20	12	6.8
31	7.7	-	4.5	3.8	-	6.6	-	132	-	20	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	264.9	11	6.9	8.55	525
November	232.3	11	6.2	7.74	461
December	190.7	8.6	4.3	6.15	378
Calendar year 1941	9,629.3	165	3.3	26.4	19,090
January	126.3	4.5	3.6	4.07	251
February	108.4	4.2	3.6	3.87	215
March	131.6	6.6	3.8	4.25	261
April	1,306.4	78	7.0	43.5	2,590
May	2,845	162	48	91.8	5,640
June	2,906	162	42	96.9	5,760
July	840	41	20	27.1	1,670
August	446	19	12	14.4	885
September	271.4	12	6.8	9.05	538
Water year 1941-42	9,669.0	162	3.6	26.5	19,170

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice. No gage-height record Nov. 20 to Apr. 11 (stage-discharge relation affected by ice during most of period); discharge computed on basis of four discharge measurements and weather records.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942. July 1917 to September 1918 at site 4 miles upstream; records not equivalent.

Extremes.- Maximum discharge during year, 1,700 second-feet Apr. 13 (gage height, 3.43 feet); minimum daily, 330 second-feet Feb. 18.
1934-42: 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 periods of ice effect or shifting-control, which are good. Diversions above station for irrigation.

Rating table, water year 1941-42, except period of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Dec. 26)

1.5	320	1.9	505	3.0	1,300
1.6	355	2.1	630	3.2	1,470
1.7	400	2.6	980	3.4	1,670

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	605	527	463	b440	420	341	364	1,060	1,360	658	565	505
2	631	527	472	b430	410	344	364	1,070	1,340	665	553	511
3	612	539	*494	b420	410	355	382	1,040	1,320	651	559	511
4	587	569	529	b420	405	368	478	1,060	1,280	630	565	505
5	581	557	505	b410	410	364	553	1,090	1,270	630	578	511
6	587	533	472	b400	410	355	591	1,050	1,240	630	564	517
7	587	521	472	b390	410	348	651	1,040	1,210	630	553	517
8	593	521	450	b380	396	348	763	1,060	1,220	624	553	505
9	587	515	440	b370	396	348	868	1,130	1,210	610	529	505
10	581	509	435	368	391	352	1,060	1,210	1,200	598	529	500
11	581	509	466	396	396	344	1,280	1,210	1,140	604	535	505
12	575	509	466	430	396	348	1,520	1,210	1,080	598	547	547
13	612	503	461	420	*391	348	1,620	1,200	1,020	598	535	565
14	631	503	456	410	382	*355	1,640	1,200	988	598	529	559
15	605	503	461	415	b360	360	1,550	1,180	1,040	598	541	553
16	593	497	461	445	b375	360	1,410	1,260	1,050	604	541	553
17	587	509	461	396	373	355	1,390	1,310	966	617	541	547
18	581	527	461	396	330	355	1,410	1,250	889	637	541	547
19	581	515	461	420	341	352	1,360	1,260	854	630	541	547
20	593	503	450	420	400	352	1,350	1,300	826	617	535	541
21	587	480	456	b420	420	*352	1,420	1,330	812	624	529	535
22	587	503	456	b420	364	348	1,500	1,410	796	598	523	529
23	587	480	450	b420	348	352	1,500	1,480	763	598	517	523
24	599	491	456	415	334	360	1,370	1,550	686	604	517	523
25	612	480	445	410	338	360	1,270	1,580	651	598	523	523
26	638	485	435	415	341	360	1,200	1,610	644	584	523	523
27	581	480	b430	430	341	360	1,140	1,610	679	578	511	523
28	533	480	b420	430	341	360	1,100	1,600	700	572	500	529
29	539	485	b420	430	-	355	1,070	1,530	714	572	494	523
30	533	485	b430	410	-	360	1,050	1,470	686	584	494	517
31	527	-	b440	415	-	355	-	1,410	-	572	505	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	18,213	638	527	588	36,120
November	15,245	569	480	508	30,240
December	14,194	529	420	458	28,150
Calendar year 1941	210,351	1,100	295	576	417,200
January	12,791	445	368	413	25,370
February	10,649	420	330	380	21,120
March	10,974	368	341	354	21,770
April	33,224	1,640	364	1,107	65,900
May	39,770	1,610	1,040	1,283	78,880
June	29,636	1,360	644	988	58,780
July	18,911	665	572	610	37,510
August	16,590	584	494	535	32,910
September	15,799	565	500	527	31,340
Water year 1941-42	235,996	1,640	330	647	468,100

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Cottonwood Creek near Smoot, Wyo.

Location.- Water-stage recorder, lat. 42°37', long. 110°53', in sec. 4, T. 30 N., R. 118 W., 1¼ miles downstream from Porcupine Creek and 1½ miles southeast of Smoot.

Drainage area.- 26.3 square miles.

Records available.- May 1933 to September 1942.

Extremes.- Maximum discharge during year, 200 second-feet June 8 (gage height, 2.20 feet); minimum daily, 11 second-feet Feb. 27 to Mar. 16, Mar. 25 to Apr. 2.
1933-42: 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 good above 60 second-feet and fair below. One small diversion above station. Flow regulated by Cottonwood Lake.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	18	16	14	13	11	11	34	68	90	51	28
2	19	18	*16	14	13	11	11	33	72	90	49	27
3	26	17	16	14	13	11	12	31	80	90	48	27
4	24	18	16	14	14	11	13	32	96	85	48	26
5	24	17	16	14	15	11	14	31	106	80	47	26
6	24	18	16	13	15	11	15	31	122	80	47	26
7	23	19	16	13	14	11	16	32	159	76	46	26
8	22	22	16	13	14	11	18	32	179	74	45	25
9	22	22	16	13	14	11	19	33	188	73	47	25
10	21	22	16	14	14	11	20	34	167	70	47	25
11	21	21	15	14	14	11	22	36	153	68	46	25
12	21	21	15	14	14	11	*23	37	137	67	45	25
13	23	21	15	14	14	11	a25	37	130	67	42	24
14	22	21	15	14	*14	*11	a28	37	127	66	41	24
15	22	20	15	13	14	11	a31	37	124	66	40	23
16	22	19	15	13	13	11	a32	38	117	64	38	23
17	21	19	15	13	12	12	a32	37	117	62	37	23
18	21	19	15	13	12	12	a31	36	117	61	33	23
19	19	18	15	13	12	12	30	37	115	61	32	22
20	19	18	15	13	12	12	a29	38	110	60	31	22
21	19	18	15	14	12	12	a30	41	106	58	30	22
22	19	16	15	14	13	12	a34	47	103	54	30	22
23	19	18	15	14	13	12	a38	57	103	52	30	22
24	19	16	15	14	13	12	a36	70	106	51	29	22
25	19	16	15	14	13	11	a34	78	106	51	29	22
26	19	16	15	14	13	11	34	99	108	52	29	22
27	19	16	15	14	11	11	a35	99	103	56	28	22
28	19	16	15	14	11	11	a35	103	99	68	29	22
29	19	16	15	14	-	11	a35	120	89	54	29	22
30	19	15	15	14	-	11	35	99	87	53	29	22
31	19	-	15	14	-	11	-	70	-	52	28	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	645	26	19	20.8	1,280
November	551	22	15	18.4	1,090
December	475	16	15	15.3	942
Calendar year 1941	13,628.2	169	9.8	37.3	27,030
January	424	14	13	13.7	841
February	369	15	11	13.2	732
March	349	12	11	11.3	692
April	778	38	11	25.9	1,540
May	1,576	120	31	50.8	3,130
June	3,494	188	68	116	6,930
July	2,051	90	51	66.2	4,070
August	1,180	51	25	38.1	2,340
September	715	28	22	23.8	1,420
Water year 1941-42	12,607	188	11	34.5	25,010

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for Strawberry Creek near Bedford.
Note.- No gage-height record Dec. 3 to Apr. 11 (stage-discharge relation affected by ice during most of period); discharge computed on basis of four discharge measurements and weather records.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Strawberry Creek near Bedford, Wyo.

Location.- Water-stage recorder, lat. 42°57', long. 110°54', in sec. 27, T. 34 N., R. 118 W., at mouth of canyon, 1½ miles east of Bedford.

Drainage area.- 21.3 square miles.

Records available.- June 1932 to September 1942.

Extremes.- Maximum discharge during year, 258 second-feet June 8 (gage height, 3.48 feet); minimum daily, 29 second-feet Mar. 10 to Apr. 3.
1932-42: Maximum discharge observed, 675 second-feet June 25, 1932 (gage height, 3.00 feet, site and datum then in use), from rating curve extended above 300 second-feet; minimum not determined.

Remarks.- Records good except those for period May 21 to June 18, which are fair. One small diversion above station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	45	42	37	35	31	29	55	98	100	74	60
2	49	46	42	36	35	30	29	55	106	100	71	60
3	49	46	42	36	35	30	29	55	121	100	71	60
4	49	46	42	35	35	30	30	56	150	99	70	59
5	49	45	41	34	35	30	35	55	154	96	71	59
6	48	44	40	34	35	30	40	54	159	96	71	59
7	48	45	40	34	35	30	42	51	188	95	70	59
8	48	44	40	34	35	30	45	51	234	98	70	59
9	46	44	40	35	35	30	47	55	228	95	70	59
10	45	44	40	35	35	29	50	60	200	95	70	58
11	46	44	39	35	36	29	52	64	177	91	70	58
12	48	44	39	35	36	29	54	68	170	89	70	58
13	46	44	39	36	35	29	60	68	157	87	70	58
14	46	43	39	35	35	29	64	66	159	87	69	58
15	45	43	39	35	35	29	66	64	166	89	67	58
16	45	43	39	35	34	29	66	66	168	88	67	58
17	44	43	39	35	34	29	64	64	147	88	66	56
18	45	43	39	35	33	29	63	64	150	89	65	56
19	45	45	39	35	32	29	60	66	148	87	65	56
20	45	44	39	35	32	29	58	66	144	86	65	56
21	45	45	39	35	32	29	58	70	134	84	65	55
22	45	44	38	35	32	29	63	80	133	84	64	55
23	45	45	38	35	32	29	76	96	134	84	62	56
24	45	45	38	34	32	29	75	120	136	83	62	55
25	45	45	38	34	32	29	72	155	133	83	64	54
26	45	44	38	35	32	29	68	202	130	82	62	53
27	45	44	37	35	32	29	63	184	120	82	61	53
28	45	44	37	35	31	29	62	164	109	79	61	52
29	45	44	37	35	-	29	58	136	105	78	60	53
30	45	44	37	35	-	29	56	114	102	75	60	53
31	45	-	37	35	-	29	-	102	-	75	60	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,431	50	44	46.2	2,840
November	1,329	46	43	44.3	2,640
December	1,213	42	37	39.1	2,410
Calendar year 1941	21,468	221	26	58.8	42,610
January	1,084	37	34	35.0	2,150
February	947	36	31	33.8	1,880
March	909	31	29	29.3	1,800
April	1,634	76	29	54.5	3,240
May	2,626	202	51	84.7	5,210
June	4,460	234	98	149	8,850
July	2,744	100	75	88.5	5,440
August	2,063	74	60	66.5	4,090
September	1,703	60	52	56.8	3,380
Water year 1941-42	22,143	234	29	60.7	43,930

Note.- No gage-height record Dec. 4 to Apr. 11, May 21-25; discharge computed on basis of four discharge measurements, weather records, and records for Cottonwood Creek near Smoot.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; eastern war time thereafter. 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.

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

Records available.- September 1922 to September 1942. 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.

Extremes.- Maximum discharge during year, 319 second-feet July 23 (gage height, 3.01 feet); minimum, 3 second-feet Sept. 23-30 (leakage through reservoir gates).
1920-42: 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.46), gates of which remained closed Oct. 1 to July 6 and Sept. 23-30; flow during these periods was leakage through reservoir gates. P

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

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										a12	270	a277
2										a12	272	274
3										12	272	83
4										a12	270	a75
5										a12	269	a68
6										a12	267	60
7										21	265	60
8										a21	263	61
9										a21	263	61
10										a21	261	62
11										a21	260	62
12										a22	269	61
13										a22	294	57
14										a22	292	30
15	a4	a4	a5	a5	a6	a7	a11	a10	a11	a22	292	9
16										a22	292	9
17										101	292	9
18										73	294	9
19										70	292	10
20										69	292	a10
21										70	294	a10
22										70	292	a10
23										154	290	a6
24										278	288	a3
25										278	287	a3
26										278	285	a3
27										278	283	a3
28										276	281	a3
29					-					272	287	a3
30					-					272	a284	a3
31		-			-		-		-	272	a281	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	124	-	-	4	246
November	120	-	-	4	238
December	155	-	-	5	307
Calendar year 1941	10,686	225	4	29.3	21,190
January	155	-	-	5	307
February	168	-	-	6	333
March	217	-	-	7	430
April	330	-	-	11	655
May	310	-	-	10	615
June	330	-	-	11	655
July	3,098	278	12	99.9	6,140
August	8,693	294	260	280	17,240
September	1,394	277	3	46.5	2,760
Water year 1941-42	15,094	294	3	41.3	29,930

a No gage-height record; discharge computed on basis of discharge measurements and field estimates of flow on Oct. 9, Apr. 22, May 20, June 6, July 3, 7, Sept. 23, records of gate operation, and interpolation.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Island Park Reservoir near Island Park, Idaho

Location.- Electric tape gage, lat. 44°25', long. 111°24', in gate house 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 1942.

Extremes.- Maximum contents observed during year, 137,230 acre-feet May 29 (elevation 6,303.25 feet); minimum observed, 39,140 acre-feet Oct. 3, 4 (elevation, 6,285.55 feet). 1938-42: Maximum contents observed, that of May 29, 1942; 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. 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39,260	39,705	50,730	73,645	93,740	106,125	122,410	134,640	136,825	133,590	104,315	69,130
2	39,260	39,675	51,385	74,190	94,390	106,405	122,945	134,720	136,260	133,590	102,255	68,565
3	39,140	39,645	52,445	74,795	95,040	106,685	123,475	134,475	136,260	133,510	100,150	68,105
4	39,140	39,945	53,650	75,465	95,695	107,035	123,935	134,720	136,175	133,430	98,340	67,595
5	39,495	39,975	54,470	76,020	96,485	107,385	124,550	134,720	136,340	133,350	96,420	66,740
6	39,535	39,945	55,255	76,650	97,145	108,020	125,165	134,315	136,580	133,270	94,325	65,800
7	39,555	39,885	56,015	77,200	97,875	108,520	125,865	134,235	136,500	133,270	92,515	64,915
8	39,555	39,825	56,690	78,000	98,475	109,230	126,330	134,155	136,745	133,110	90,540	64,140
9	39,555	39,765	57,420	78,745	98,945	109,655	126,795	134,235	137,070	132,950	88,640	62,950
10	39,555	39,765	58,120	79,325	99,280	110,085	127,345	135,125	137,070	132,950	87,160	62,055
11	39,535	39,705	58,740	79,845	99,745	110,655	127,345	135,530	136,905	132,710	85,445	61,175
12	39,535	39,675	59,495	80,430	100,085	111,375	127,345	135,770	136,260	132,310	84,175	60,170
13	39,465	39,645	60,170	81,015	100,420	111,950	127,345	135,690	135,935	131,830	82,850	60,535
14	39,435	39,705	60,810	81,725	100,690	112,530	127,421	135,365	136,015	130,720	81,605	60,590
15	39,410	39,645	61,685	82,375	101,030	113,330	127,965	135,365	135,690	129,695	81,015	60,535
16	39,380	40,375	62,430	82,971	101,370	113,840	128,830	135,610	135,770	128,360	80,255	60,590
17	39,380	41,325	63,185	83,630	101,780	114,500	129,775	135,530	135,610	127,265	79,500	60,445
18	39,380	42,075	63,900	84,235	102,050	115,010	130,720	135,365	135,450	125,865	78,690	60,265
19	39,380	42,750	64,725	84,840	102,390	115,670	131,435	135,125	134,880	124,780	77,885	60,170
20	39,380	43,465	65,355	85,445	102,800	116,040	132,310	134,960	134,800	123,475	76,975	60,125
21	39,435	44,130	66,095	85,990	103,145	116,555	133,190	134,960	134,555	122,490	75,910	60,170
22	39,435	44,800	66,790	86,665	103,625	117,220	134,720	134,960	134,235	121,425	74,910	60,215
23	39,435	45,490	67,390	87,225	104,110	117,740	135,690	135,285	134,075	120,065	74,520	60,310
24	39,555	46,145	68,205	87,845	104,385	118,265	135,935	135,770	133,990	119,235	73,590	60,355
25	39,675	46,845	68,820	88,465	104,870	118,660	136,015	136,175	133,910	117,000	72,450	60,310
26	39,735	47,455	69,545	89,280	105,080	119,385	135,935	136,905	133,750	115,300	72,450	60,215
27	39,705	48,145	70,065	90,035	105,495	119,835	135,530	136,990	133,910	113,550	71,860	60,310
28	39,735	48,840	70,690	90,985	105,775	120,365	135,450	137,070	133,830	112,025	71,115	60,445
29	39,885	49,435	71,435	91,810	-	120,970	134,960	137,230	134,075	110,230	70,480	60,490
30	39,765	50,040	72,235	92,515	-	121,350	134,880	137,150	133,910	108,235	70,220	60,625
31	39,735	-	73,100	93,030	-	121,955	-	136,990	-	106,335	70,220	-

Monthly elevation and contents, water year October 1941 to September 1942

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	6,285.58	39,230	-
Oct. 31	6,285.75	39,735	+505
Nov. 30	6,288.80	50,040	+10,305
Dec. 31	6,293.84	73,100	+23,060
Calendar year 1941	-	-	+23,290
Jan. 31	6,297.19	93,030	+19,930
Feb. 28	6,299.09	105,775	+12,745
Mar. 31	6,301.31	121,955	+16,180
Apr. 30	6,302.96	134,880	+12,925
May 31	6,303.22	136,990	+2,110
June 30	6,302.84	133,910	-3,080
July 31	6,299.17	106,335	-27,575
Aug. 31	6,293.93	70,220	-36,115
Sept.30	6,291.34	60,625	-9,595
Water year 1941-42	-	-	+21,395

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Henrys Fork near Island Park, Idaho

Location.- Water-stage recorder, lat. 44°25', long. 111°24', in SW¼ 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 1942.

Extremes.- Maximum discharge during year, 1,730 second-feet May 25; maximum gage height, 4.93 feet July 30 to Aug. 4; minimum discharge observed, 4 second-feet Nov. 16-22 (gage height, 0.74 foot).

1933-42: Maximum discharge, 1,940 second-feet July 17, 1940 (gage height, 5.22 feet); minimum, 1 second-foot Nov. 16 to Dec. 7, 1938.

Remarks.- Records good. Flow regulated by Henrys Lake (see p. 46) and Island Park Reservoir (see preceding page).

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

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	412	398	5	7	8	131	11	750	1,070	579	1,690	965
2	408	398	5	7	8	131	11	775	1,010	574	1,690	965
3	408	398	5	7	8	131	11	755	981	560	1,690	960
4	408	403	5	7	8	131	11	760	981	560	1,690	954
5	412	412	5	7	8	63	11	740	1,020	564	1,680	949
6	412	426	5	7	8	10	11	705	1,030	574	1,680	954
7	416	426	6	7	8	10	11	690	1,040	569	1,680	949
8	416	426	6	7	68	10	11	715	1,100	560	1,590	944
9	416	412	6	7	131	10	11	780	1,160	550	1,520	939
10	412	398	6	7	131	10	215	846	1,160	536	1,520	939
11	412	403	6	7	131	10	349	897	1,060	622	1,400	944
12	412	398	6	7	131	11	349	944	992	651	1,320	675
13	412	394	6	7	131	11	354	902	944	882	1,320	448
14	408	394	6	7	131	11	403	871	902	1,050	1,020	476
15	398	136	6	7	131	11	204	861	892	1,040	1,060	508
16	398	4	6	7	131	11	91	866	913	1,050	1,080	499
17	390	4	6	7	131	11	150	882	856	1,060	1,080	499
18	380	4	6	7	131	11	235	856	835	1,060	1,080	499
19	376	4	6	7	131	11	322	820	785	1,060	1,130	490
20	362	4	6	8	131	11	430	795	740	1,050	1,180	471
21	358	4	6	8	131	11	564	785	705	1,050	1,140	453
22	354	4	6	8	131	11	785	800	661	1,150	1,040	439
23	344	5	6	8	131	11	944	861	646	1,260	1,040	439
24	340	5	6	8	131	11	954	934	627	1,400	1,040	439
25	349	5	6	8	131	11	960	1,080	627	1,400	1,020	439
26	372	5	6	8	131	11	960	1,090	607	1,440	965	416
27	380	5	6	8	131	11	902	1,160	603	1,540	965	398
28	380	5	6	8	131	11	866	1,160	622	1,540	965	412
29	394	5	7	8	-	11	820	1,200	632	1,590	965	421
30	403	5	7	8	-	11	775	1,190	607	1,690	965	421
31	398	-	7	8	-	11	-	1,140	-	1,690	965	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	12,140	416	340	392	24,080
November	5,890	426	4	196	11,680
December	183	7	5	5.9	363
Calendar year 1941	143,703	1,550	4	394	285,000
January	229	8	7	7.4	454
February	2,744	131	8	98.0	5,440
March	867	131	10	28.0	1,720
April	11,731	960	11	391	23,270
May	27,610	1,200	690	891	54,760
June	25,808	1,160	603	860	51,190
July	30,901	1,690	536	932	61,290
August	39,170	1,690	965	1,264	77,690
September	19,304	965	398	643	38,290
Water year 1941-42	176,577	1,690	4	484	350,200

Note.- Discharge computed from staff-gage readings Nov. 16 to Feb. 7, Mar. 6 to Apr. 9.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Henrys 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 1942.

Extremes.- Maximum discharge during year, 2,030 second-feet July 31 to Aug. 4; maximum gage height, 5.84 feet July 31; minimum discharge, 228 second-feet Feb. 17 (gage height, 3.03 feet).

1910-15, 1918-42: 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 no gage-height record, which are fair. Flow regulated by Henrys Lake (see p. 46) and Island Park Reservoir (see p. 38) Some water diverted above station for irrigation of meadows on headwaters.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	815	778	a390	a270	374	512	a362	1,240	1,590	1,040	2,030	1,280
2	809	784	a400	a290	378	516	a362	1,260	1,530	1,000	2,030	1,280
3	803	778	a500	a360	386	516	a362	1,250	1,480	984	2,030	1,280
4	834	809	a480	h550	386	507	362	1,270	1,470	984	2,030	1,290
5	860	790	a440	a360	382	498	382	1,260	1,480	963	2,020	1,290
6	834	790	a400	a400	382	378	370	1,200	1,500	970	2,010	1,300
7	821	790	403	a420	382	331	374	1,180	1,500	963	2,010	1,300
8	821	784	415	a450	370	394	382	1,220	1,550	943	1,990	1,300
9	821	784	399	a420	458	370	399	1,310	1,570	936	1,870	1,290
10	815	778	394	a440	462	370	450	1,410	1,600	922	1,860	1,280
11	815	761	411	428	516	378	797	1,460	1,570	916	1,810	1,290
12	809	778	407	411	498	390	809	1,480	1,480	1,010	1,670	1,300
13	803	766	394	394	471	394	847	1,460	1,430	1,060	1,640	876
14	797	755	390	382	476	366	906	1,390	1,390	1,380	1,520	830
15	790	755	403	374	494	350	969	1,430	1,380	1,410	1,360	869
16	784	445	407	374	489	374	618	1,470	1,410	1,390	1,380	869
17	784	a420	382	390	a330	358	749	1,450	1,360	1,410	1,390	856
18	778	a420	350	386	a350	366	913	1,430	1,310	1,440	1,380	856
19	772	a390	390	374	a430	350	1,060	1,380	1,290	1,430	1,380	856
20	778	a300	407	354	a550	346	1,190	1,340	1,230	1,430	1,470	830
21	755	a320	390	354	a570	366	1,360	1,360	1,170	1,420	1,470	830
22	755	a330	350	362	544	366	1,500	1,380	1,130	1,440	1,380	810
23	749	338	350	378	507	374	1,550	1,460	1,120	1,580	1,350	804
24	732	366	386	386	530	366	1,500	1,520	1,100	1,700	1,350	810
25	732	342	362	386	512	358	1,480	1,570	1,080	1,740	1,360	810
26	749	335	286	378	525	346	1,480	1,650	1,090	1,760	1,300	804
27	761	338	316	378	498	370	1,410	1,630	1,090	1,870	1,260	772
28	778	354	390	390	502	362	1,360	1,650	1,100	1,900	1,260	766
29	778	346	415	386	-	a362	1,330	1,630	1,110	1,900	1,260	778
30	778	362	399	378	-	a362	1,280	1,660	1,080	2,010	1,260	785
31	778	-	350	374	-	a362	-	1,650	-	2,030	1,270	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	24,488	860	732	790	48,570
November	17,086	809	300	570	33,890
December	12,156	500	286	392	24,110
Calendar year 1941	281,739	1,860	286	772	558,800
January	11,777	450	270	380	23,360
February	12,752	570	330	455	25,290
March	12,058	516	331	389	23,920
April	26,913	1,550	362	897	53,380
May	44,050	1,660	1,180	1,421	87,370
June	40,190	1,600	1,080	1,340	79,720
July	41,931	2,030	916	1,353	83,170
August	49,400	2,030	1,260	1,594	97,980
September	30,291	1,300	766	1,010	60,090
Water year 1941-42	323,092	2,030	270	885	640,800

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

h Discharge computed from staff-gage reading.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge during year, 3,050 second-feet May 26 (gage height, 7.08 feet); minimum, 485 second-feet Jan. 2 (gage height, 5.48 feet).
1902-9, 1920-42: 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. 46) and Island Park Reservoir (see p. 38). 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,060	1,000	646	494	636	760	636	1,750	2,300	1,390	2,440	1,650
2	1,060	1,010	665	519	627	760	636	1,750	2,180	1,380	2,470	1,630
3	1,040	1,040	503	618	618	792	636	1,840	2,120	1,380	2,420	1,630
4	1,050	1,120	749	562	646	770	696	1,830	2,120	1,330	2,420	1,630
5	1,160	1,050	665	570	676	707	738	1,860	2,080	1,330	2,420	1,630
6	1,120	1,050	627	636	618	696	696	1,830	2,120	1,330	2,380	1,630
7	1,080	1,040	656	656	656	562	760	1,830	2,100	1,330	2,420	1,660
8	1,080	1,000	636	656	665	656	781	1,840	2,180	1,320	2,420	1,650
9	1,060	1,030	646	636	627	589	825	2,100	2,180	1,280	2,220	1,630
10	1,050	976	618	676	718	656	836	2,240	2,200	1,260	2,240	1,630
11	1,040	976	646	656	738	618	1,280	2,300	2,120	1,260	2,240	1,630
12	1,050	976	665	665	738	656	1,300	2,440	2,000	1,340	2,060	1,720
13	1,050	964	646	646	749	656	1,400	2,260	1,900	1,390	1,980	1,270
14	1,040	988	608	618	676	686	1,480	2,080	1,860	1,790	1,940	1,130
15	1,010	1,010	696	589	749	636	1,470	2,240	1,830	1,790	1,600	1,170
16	1,030	696	665	608	749	589	1,060	2,400	1,940	1,810	1,750	1,230
17	1,030	665	665	656	536	627	1,270	2,280	1,860	1,770	1,730	1,170
18	1,030	676	665	618	570	618	1,610	2,240	1,730	1,810	1,720	1,170
19	1,000	636	618	636	676	627	1,580	2,100	1,730	1,810	1,750	1,200
20	1,010	536	707	618	792	598	1,830	2,100	1,630	1,830	1,840	1,160
21	988	598	665	608	869	598	2,080	2,180	1,600	1,810	1,860	1,160
22	976	528	656	570	825	676	2,300	2,280	1,520	1,810	1,750	1,090
23	940	589	562	646	686	618	2,240	2,400	1,520	1,940	1,680	1,090
24	964	598	636	656	749	618	2,180	2,510	1,520	2,120	1,730	1,100
25	976	580	636	656	718	618	2,060	2,510	1,440	2,140	1,730	1,100
26	976	589	519	656	760	618	2,020	2,570	1,520	2,180	1,730	1,090
27	1,000	580	528	636	738	618	1,940	2,550	1,520	2,280	1,610	1,060
28	1,040	589	627	656	728	618	1,900	2,570	1,460	2,320	1,610	1,040
29	1,050	618	676	646	-	618	1,900	2,490	1,550	2,320	1,650	1,040
30	1,040	608	665	646	-	618	1,770	2,470	1,470	2,400	1,650	1,050
31	1,000	-	570	646	-	618	-	2,420	-	2,490	1,660	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	32,000	1,160	940	1,032	63,470
November	24,316	1,120	528	811	48,230
December	20,032	803	519	648	39,730
Calendar year 1941	405,825	2,280	519	1,112	804,900
January	19,355	676	494	624	38,390
February	19,533	869	536	698	38,740
March	20,095	792	562	648	39,860
April	41,910	2,300	636	1,397	83,130
May	68,260	2,570	1,750	2,202	135,400
June	55,290	2,300	1,440	1,843	109,700
July	53,740	2,490	1,260	1,766	106,600
August	61,120	2,470	1,610	1,972	121,200
September	40,040	1,720	1,040	1,335	79,420
Water year 1941-42	455,691	2,570	494	1,248	903,900

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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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 for each irrigation season from 1919 to 1942. Discharge of canals computed from staff-gage readings, or interpolated, and combined to show total diverted flow. Records good for July 17 to Sept. 30, when all staff gages were read daily, and fair for May 1 to July 16, when some gages were read daily and some biweekly.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								837	1,030	945	1,140	794
2								839	1,150	975	1,120	733
3								842	1,150	970	1,130	735
4								845	1,160	956	1,130	715
5								858	1,180	941	1,120	531
6								875	1,200	928	1,120	528
7								890	1,250	917	1,100	521
8								967	1,250	909	1,100	521
9								977	1,260	904	1,070	524
10								987	1,250	863	1,070	510
11								998	1,130	797	1,080	499
12								934	1,110	810	1,040	510
13								1,000	929	825	1,020	320
14								991	767	1,010	1,020	314
15								848	1,000	1,010	991	298
16								981	1,010	1,020	1,020	296
17								970	996	1,040	1,010	296
18								974	1,010	1,040	997	310
19								934	1,020	1,050	996	310
20								978	1,060	1,080	1,010	310
21								1,030	1,080	1,100	1,000	311
22								1,060	1,080	1,090	998	326
23								1,080	1,110	1,150	977	394
24								1,100	1,090	1,200	989	410
25								1,100	1,040	1,090	963	410
26								1,150	973	1,110	882	404
27								1,160	955	1,130	828	397
28								1,170	930	1,110	855	393
29								1,190	909	1,130	859	388
30								1,010	891	1,120	838	388
31								1,020	-	1,100	833	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	30,615	1,190	837	988	60,720
June	31,970	1,260	767	1,066	63,410
July	31,340	1,200	797	1,011	62,160
August	31,306	1,140	828	1,010	62,100
September	13,396	794	296	447	26,570
The period	-	-	-	-	275,000

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942 (irrigation seasons only).

Extremes.- Maximum discharge recorded during year, 4,140 second-feet June 10 (gage height, 5.04 feet); minimum recorded, 650 second-feet July 11, 12 (gage height, 3.02 feet).
1919-42: Maximum discharge recorded, 9,030 second-feet May 8, 1925 (gage height, 6.70 feet); minimum daily recorded, 413 second-feet July 22, 1931 (gage height, 2.78 feet).

Remarks.- Records excellent except those for periods of no gage-height record, which are good. Diversions above station for irrigation. Flow regulated by power plant 17 miles upstream and by Henrys Lake (see p. 46), Island Park Reservoir (see p. 38), and Grassy Lake (see p. 46).

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								2,000	2,580	1,220	1,430	1,040
2								1,860	2,270	1,240	1,420	1,050
3								1,960	2,270	1,250	1,400	1,050
4								2,080	2,400	1,150	1,380	1,080
5								1,960	2,380	1,150	1,400	1,160
6								1,940	2,520	1,280	1,370	1,240
7								1,880	2,540	1,210	1,380	1,260
8								1,940	2,890	1,130	1,430	1,260
9								2,750	3,300	994	1,290	1,260
10								3,060	3,880	816	1,290	1,280
11								2,940	3,230	730	1,250	1,300
12								2,820	2,520	693	1,130	1,490
13								2,650	2,380	712	1,080	1,480
14								2,650	2,250	919	1,120	1,180
15								2,700	2,190	962	846	1,040
16								a2,900	2,960	1,030	897	1,110
17								a2,550	2,610	972	887	1,070
18								a2,380	2,120	962	866	1,070
19								h2,270	2,100	897	897	1,100
20								a2,500	1,940	897	951	1,060
21							h3,380	a2,900	1,700	856	983	1,020
22								h3,230	1,520	806	940	983
23								a3,500	1,460	919	856	951
24								a3,800	1,610	1,110	887	962
25								a3,550	1,900	1,040	897	972
26								a3,600	2,170	h1,070	994	962
27								a3,800	1,940	1,280	951	919
28								a3,500	1,520	1,280	951	887
29								3,080	1,510	1,300	972	887
30								3,130	1,380	1,420	983	866
31								2,940	-	1,480	1,010	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	84,820	3,800	1,860	2,736	168,200
June	68,040	3,880	1,380	2,268	135,000
July	32,775	1,480	693	1,057	65,010
August	34,138	1,430	846	1,101	67,710
September	32,989	1,490	866	1,100	65,430
The period	-	-	-	-	501,400

a No gage-height record; discharge computed on basis of records for Henrys Fork near Rexburg and Ashton, for Fall River near Chester, and for canal diversions between stations.
h Computed from staff-gage readings.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942. Discharge of canals computed from staff-gage readings, or interpolated, and combined to show total diverted flow. Records good for July 17 to Sept. 30, when all staff gages were read daily, and fair for May 1 to July 16, when some gages were read daily and some biweekly.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								444	986	849	791	565
2								635	1,090	877	793	545
3								654	1,120	867	796	522
4								641	1,180	858	709	527
5								643	1,180	863	711	526
6								649	1,200	870	742	536
7								694	1,200	871	750	567
8								714	1,220	834	738	571
9								722	1,250	653	705	569
10								783	1,080	703	703	573
11								789	1,020	663	674	572
12								792	1,040	643	657	513
13								746	1,070	624	686	329
14								730	1,100	856	696	326
15								746	1,050	900	664	341
16								762	896	601	668	341
17								757	898	548	699	357
18								741	871	592	676	357
19								760	822	753	662	363
20								761	762	742	679	352
21								814	834	786	684	352
22								827	892	770	667	345
23								850	906	778	642	332
24								859	896	875	641	319
25								954	918	844	627	305
26								958	742	822	641	305
27								808	681	777	632	303
28								787	702	804	612	303
29								1,020	765	764	614	299
30								996	791	784	554	299
31								958	-	815	547	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	23,994	1,020	444	774	47,590
June	29,162	1,250	681	972	57,840
July	23,986	900	548	774	47,580
August	21,080	796	547	680	41,810
September	12,514	571	299	417	24,820
The period	-	-	-	-	219,600

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge during year, 4,580 second-feet June 11 (gage height, 7.80 feet); minimum, 625 second-feet July 24 (gage height, 2.77 feet).
1909-42: Maximum discharge, 9,490 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, which are fair. Flow regulated by operation of power plant at Ashton and by Henrys Lake (see p. 46), Island Park Reservoir (see p. 38), and Grassy Lake (see p. 46). Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,370	1,540	1,160	884	1,380	1,200	1,230	2,050	3,080	1,460	1,040	862
2	1,390	1,540	1,220	770	1,340	1,250	1,250	1,910	2,500	1,310	1,060	879
3	1,440	1,540	1,380	808	1,340	1,300	1,280	1,960	2,100	1,260	1,070	906
4	1,440	1,780	1,750	945	1,240	1,310	1,310	2,030	2,040	1,250	1,070	940
5	1,560	2,000	a1,740	940	1,200	1,330	1,430	2,030	2,230	1,240	1,070	956
6	1,660	2,010	h1,630	923	1,260	1,250	1,510	1,960	2,340	1,310	1,070	1,020
7	1,610	1,920	a1,400	1,060	1,200	1,190	1,440	1,960	2,500	1,410	1,070	1,050
8	1,590	1,840	a1,390	1,170	1,240	1,140	1,440	1,900	2,730	1,400	1,080	1,050
9	1,600	1,760	a1,390	1,270	1,230	1,180	1,410	2,100	3,200	1,310	1,100	1,060
10	1,580	1,740	*1,390	1,330	1,190	1,140	1,470	2,490	3,930	1,170	1,080	1,070
11	1,560	1,680	1,420	1,350	1,250	1,160	1,550	2,830	4,520	1,010	1,070	1,070
12	1,560	1,660	1,440	1,290	1,260	1,230	1,940	2,970	4,130	884	1,060	1,160
13	1,560	1,620	1,410	1,290	1,250	1,250	2,020	2,880	3,570	818	1,000	1,400
14	1,560	1,600	1,380	1,240	1,160	1,280	2,200	2,620	3,060	780	967	1,290
15	1,550	1,560	1,400	1,160	1,030	1,260	2,340	2,500	2,640	786	928	1,260
16	1,560	1,460	1,420	*1,130	978	*1,200	2,300	2,700	3,170	770	818	1,190
17	1,570	1,210	1,410	1,130	765	1,190	1,940	2,850	3,630	928	791	1,200
18	1,560	1,140	1,410	1,230	813	1,230	2,090	2,700	3,110	879	760	1,220
19	1,550	1,050	1,400	1,210	775	1,220	2,430	2,520	2,590	846	740	1,250
20	1,530	978	1,370	1,180	1,070	1,200	2,580	2,320	2,460	780	730	1,280
21	1,520	912	1,400	1,140	1,310	1,160	2,880	2,410	2,130	720	740	1,260
22	1,500	1,000	1,390	1,110	1,410	1,200	3,330	2,670	1,890	665	755	1,240
23	1,490	950	1,340	1,110	1,380	1,260	3,720	3,100	1,560	640	745	1,160
24	1,460	1,050	1,290	1,240	1,260	1,220	3,630	3,570	1,430	640	740	1,160
25	1,440	1,070	1,330	1,320	1,230	1,220	3,260	f3,940	1,630	695	750	1,150
26	1,520	1,080	1,230	1,350	1,220	1,200	2,980	f3,920	1,960	750	796	1,140
27	1,550	1,080	1,140	1,400	*1,220	1,190	2,740	f4,120	2,380	808	802	1,140
28	1,580	1,140	1,150	1,420	1,200	1,190	2,520	f4,340	2,220	868	770	1,100
29	1,600	1,160	1,300	1,470	-	1,190	2,310	4,280	1,990	934	760	1,070
30	1,580	1,180	1,350	1,450	-	1,200	2,110	3,860	1,800	967	796	1,060
31	1,580	-	1,300	1,400	-	1,210	-	3,570	-	1,000	835	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	47,620	1,660	1,370	1,536	94,450
November	42,250	2,010	912	1,408	83,800
December	42,730	1,750	1,140	1,378	84,750
Calendar year 1941	503,329	3,300	715	1,379	998,300
January	36,740	1,470	770	1,185	72,870
February	33,201	1,410	765	1,186	65,850
March	37,750	1,330	1,140	1,218	74,880
April	64,640	3,720	1,230	2,155	128,200
May	87,060	4,340	1,900	2,808	172,700
June	78,520	4,520	1,430	2,617	155,700
July	30,288	1,460	640	977	60,080
August	28,063	1,100	730	905	55,660
September	33,593	1,400	862	1,120	66,630
Water year 1941-42	562,455	4,520	640	1,541	1,116,000

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station near Ashton, Fall River near Squirrel, and Teton River near St. Anthony.
f Fragmentary gage-height record; discharge computed from partly estimated gage heights.
h Computed from staff gage readings.
Note.- Stage-discharge relation affected by ice Dec. 28 to Mar. 14.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Smaller reservoirs in Henrys Fork Basin

Henrys Lake.- Staff gage, lat. 44°36', long. 111°21', at dam on Henrys Fork in SW¼ sec. 26, T. 15 N., R. 43 E., 4 miles south of 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 1942 (fragmentary). Maximum contents observed during year, 66,862 acre-feet July 16, 17 (gage height, 13.00 feet); minimum, 38,980 acre-feet Oct. 1 (interpolated). Maximum contents observed during period 1923-42, 75,192 acre-feet July 8-10, 1928 (gage height, 14.34 feet); 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). Flood waters 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 gate house at dam on Grassy Creek approximately in sec. 7, T. 46 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 1942 (fragmentary). Maximum contents observed during year, 15,291 acre-feet June 10 (elevation, 7,210.35 feet); minimum observed, 8,192 acre-feet Oct. 1 (elevation, 7,184.95 feet). Maximum contents observed during period 1939-42, that of June 10, 1942; 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 1941 to September 1942

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.....	-	a38,900	-	7,184.85	8,167	-
Oct. 31.....	-	a40,440	+1,540	7,188.2	9,004	+837
Nov. 30.....	-	a41,930	+1,490	7,190.9	9,699	+695
Dec. 31.....	-	a44,620	+2,690	7,194.6	10,683	+984
Calendar year 1941..	-	-	+3,120	-	-	+9,238
Jan. 31.....	-	a46,350	+1,730	7,196.95	11,328	+645
Feb. 28.....	-	a47,410	+1,060	7,198.95	11,888	+560
Mar. 31.....	-	a48,880	+1,450	7,200.4	12,303	+415
Apr. 30.....	-	a52,650	+3,790	7,203.25	13,130	+827
May 31.....	-	a57,480	+4,830	7,210.0	15,182	+2,052
June 30.....	-	a64,740	+7,260	7,210.2	15,244	+62
July 31.....	12.24	62,244	-2,496	7,206.9	14,225	-1,019
Aug. 31.....	9.36	45,302	-16,942	7,195.65	10,967	-3,258
Sept.30.....	9.10	43,811	-1,491	7,195.45	10,913	-64
Water year 1941-42..	-	-	+4,911	-	-	+2,746

a Interpolated.

Diversions from Fall River above gaging station near Squirrel, Idaho

Above Squirrel gaging station three canals divert water from Fall River for irrigation. Records available for part of each irrigation season from 1919 to 1942. Records of discharge of canals computed from daily readings of staff gages and combined to show total diverted flow. Records good.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	43	175	184	70
2								0	45	176	184	69
3								0	45	177	184	67
4								0	46	130	184	67
5								0	57	180	181	57
6								0	57	182	174	58
7								0	57	187	176	57
8								0	68	187	168	56
9								0	73	187	166	57
10								0	90	187	164	56
11								0	107	185	161	53
12								0	118	175	157	54
13								0	124	178	156	46
14								0	133	179	137	44
15								0	142	179	125	44
16								0	146	180	132	37
17								0	151	180	132	35
18								0	155	180	132	38
19								0	155	180	132	37
20								0	155	180	130	37
21								0	155	183	123	35
22								0	155	184	122	34
23								0	163	184	116	34
24								22	163	184	118	34
25								22	163	184	116	34
26								22	163	184	109	34
27								32	166	185	88	34
28								38	166	178	87	34
29								38	166	186	87	34
30								38	169	185	87	33
31								40	-	185	87	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	252	40	0	8.1	500
June	3,596	169	43	120	7,130
July	5,586	187	130	180	11,080
August	4,299	184	87	139	8,530
September	1,379	70	33	46.0	2,740
The period	-	-	-	-	29,980

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942. August 1902 to December 1903 at Wilson's sawmill, 3 miles upstream.

Average discharge.- 29 years (1904-8, 1917-42), 735 second-feet (unadjusted).

Extremes.- Maximum discharge observed during year, 2,950 second-feet June 9 (gage height, 3.24 feet); minimum observed, 200 second-feet Jan. 1, Mar. 19 (gage height, 0.80 foot). 1904-9, 1918-42: 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, which are fair. Gage read once daily. Flow since October 1939 regulated by Grassy Lake (see p. 46).

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	398	404	410	200	347	347	372	697	1,390	1,350	445	424
2	398	404	410	294	365	347	372	697	1,530	1,400	445	424
3	410	404	644	294	365	347	372	697	1,610	1,510	430	455
4	417	636	505	294	365	*345	372	715	1,860	1,540	430	424
5	460	529	430	294	365	347	398	662	1,860	1,350	417	430
6	445	482	384	294	365	347	404	697	2,070	1,740	460	430
7	452	424	384	294	365	353	417	871	2,270	1,460	460	424
8	452	410	391	305	365	359	475	982	2,430	1,090	460	424
9	445	410	398	305	365	365	561	1,340	2,950	840	475	430
10	424	410	398	311	365	365	594	1,160	2,780	724	468	430
11	410	410	398	311	353	365	594	1,290	2,200	706	468	438
12	410	410	398	311	353	365	628	970	2,050	594	468	452
13	417	410	398	311	353	365	715	994	2,020	577	475	537
14	417	404	398	311	353	365	810	1,020	2,020	529	475	475
15	417	424	398	311	335	353	751	1,190	2,490	545	468	460
16	417	438	398	311	317	365	662	1,190	2,620	577	452	460
17	417	424	398	311	294	365	780	1,070	1,980	529	438	460
18	417	424	398	311	294	365	926	970	2,040	537	430	468
19	410	410	424	311	300	200	994	926	2,070	505	438	452
20	410	385	410	*298	317	294	1,070	1,350	1,960	505	430	438
21	410	365	410	300	323	294	1,360	1,400	1,600	468	430	445
22	410	365	398	311	323	294	1,580	1,700	1,510	468	424	445
23	410	365	391	341	323	294	1,310	2,040	2,140	498	438	438
24	410	365	365	365	323	353	1,050	2,140	2,140	498	445	438
25	404	365	365	365	323	353	1,050	1,930	2,200	490	430	438
26	404	365	359	365	323	*354	893	2,170	2,430	482	475	438
27	404	365	353	365	323	341	810	2,200	1,580	475	430	430
28	404	365	353	365	323	341	810	1,980	1,350	482	417	430
29	398	391	353	341	-	341	751	1,650	1,260	468	417	430
30	391	410	353	341	-	341	715	1,760	1,240	460	424	424
31	391	-	353	335	-	365	-	1,540	-	452	417	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	12,879	460	391	415	25,550
November	12,373	636	365	412	24,540
December	12,425	644	353	401	24,640
Calendar year 1941	209,740	2,490	266	575	416,000
January	9,776	365	200	315	19,390
February	9,485	365	294	339	18,810
March	10,595	365	200	342	21,010
April	22,596	1,580	372	753	44,820
May	39,998	2,200	662	1,290	79,330
June	59,650	2,950	1,240	1,988	118,300
July	23,849	1,740	452	769	47,300
August	13,779	475	417	444	27,330
September	13,274	537	424	442	26,330
Water year 1941-42	240,679	2,950	200	659	477,400

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 19-29, Dec. 4-18, Dec. 20 to Mar. 14.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 nine canals divert water from Fall River for irrigation. Records available for part of each irrigation season from 1919 to 1942. Discharge of canals computed from staff-gage readings, or interpolated, and combined to show total diverted flow. Records good for July 1 to Sept. 30, when all staff gages were read daily, and fair for May 1 to June 30, when some gages were read daily and some biweekly.

Discharge, in second-feet, 1942

Day	May	June	July	Aug.	Sept.	Day	May	June	July	Aug.	Sept.
1	5	554	713	479	359	16	114	854	432	420	374
2	5	625	695	475	354	17	114	730	432	416	369
3	5	656	696	460	350	18	138	763	438	408	370
4	5	679	711	489	333	19	139	766	435	405	370
5	5	775	721	456	382	20	132	766	438	403	369
6	5	802	730	459	373	21	144	766	436	403	368
7	5	808	719	470	374	22	169	779	443	399	375
8	15	824	699	443	371	23	218	810	487	390	393
9	30	840	669	439	347	24	346	841	498	388	399
10	114	809	607	438	347	25	370	835	481	392	398
11	30	819	584	433	195	26	387	775	476	401	396
12	115	835	582	435	209	27	407	732	473	389	395
13	115	810	590	432	188	28	414	706	468	380	388
14	115	804	418	437	373	29	413	682	468	362	383
15	107	817	430	432	379	30	460	678	491	360	383
						31	510	-	481	360	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	5,151	510	5	166	10,220
June	22,940	854	554	765	45,500
July	16,981	730	418	548	33,680
August	13,053	489	360	421	25,890
September	10,664	399	188	355	21,150
The period	-	-	-	-	136,400

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 1942 (irrigation seasons only).
Extremes.- Maximum discharge during period May to September, 2,820 second-feet June 10 (gage height, 4.49 feet); minimum, 29 second-feet Aug. 5 (gage height, 1.07 feet).
1920-42: Maximum discharge, 6,380 second-feet June 27, 1927 (gage height, 6.60 feet); minimum, 9 second-feet Aug. 7, 1923; minimum gage height, 0.99 foot July 12, 1941.
Remarks.- Records excellent except those for periods of no gage-height record, which are fair. Flow since October 1939 regulated by Grassy Lake (see p. 46). Station is below all diversions for irrigation from Fall River.

Discharge, in second-feet, 1942

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	-	798	1,170	685	47	126	16	-	1,480	a1,800	164	91	158
2	-	852	1,120	772	45	126	17	-	1,180	a1,600	134	87	158
3	-	852	1,240	816	42	123	18	-	1,020	1,390	118	95	161
4	-	807	1,480	748	38	131	19	-	970	1,420	109	91	158
5	-	780	1,490	798	37	136	20	-	1,220	1,320	91	91	164
6	-	816	1,500	816	40	106	21	e1,610	1,460	1,110	79	100	167
7	-	879	1,660	685	65	97	22	-	1,890	951	57	97	164
8	-	1,080	1,900	583	81	106	23	-	2,170	a1,200	50	100	164
9	-	1,530	2,330	460	91	128	24	-	2,360	a1,300	58	100	164
10	-	1,730	2,700	297	91	134	25	-	2,060	a1,500	55	106	164
11	-	1,550	2,080	219	95	183	26	-	2,050	1,660	55	136	164
12	-	1,380	1,560	167	95	215	27	-	2,220	1,270	57	113	164
13	-	a1,250	a1,300	113	100	426	28	-	2,060	834	57	100	164
14	-	a1,300	a1,250	104	109	275	29	-	1,630	764	52	109	164
15	-	a1,350	a1,500	139	102	161	30	-	1,580	632	52	121	164
							31	-	1,370	-	48	121	-

	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	43,674	2,360	780	1,409	86,630
June	43,031	2,700	632	1,434	85,350
July	8,638	816	48	279	17,130
August	2,736	136	37	88.3	5,430
September	4,915	426	97	164	9,750
The period	102,994	2,700	37	674	204,300

a No gage-height record; discharge computed on basis of records for Fall River near Squirrel and Henrys Fork near Ashton and St. Anthony and records of diversions.
e Result of discharge measurement.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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., 1¾ miles downstream from highway bridge and 6 miles northwest of Tetonia.

Drainage area.- 460 square miles.

Records available.- October 1929, March 1930 to September 1932, May to September 1934, July to September 1935, May to September 1940, July 1941 to September 1942. Additional records collected by Water District 36, State of Idaho, October, November 1932, July to September 1936, July to September 1937.

Extremes.- Maximum discharge during year, 1,880 second-feet June 9 (gage height, 2.90 feet); minimum observed, 166 second-feet Mar. 19.
1929-42: Maximum discharge observed, that of June 9, 1942; minimum observed, 100 second-feet Sept. 21, 1934 (gage height, 0.47 foot).

Remarks.- Records excellent except those for periods of ice effect or no gage-height record, which are fair. Flow regulated by diversions from tributaries above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	324	283	250	190	220	200	h220	364	700	516	431	314
2	349	279	250	180	220	200	h234	414	636	516	425	310
3	334	283	350	180	220	*200	h283	466	686	548	425	301
4	329	339	800	180	220	200	h370	437	880	581	419	301
5	334	408	360	180	220	200	a400	522	1,090	629	419	310
6	339	314	290	180	200	200	a400	548	1,100	693	414	301
7	344	283	240	180	200	190	a410	408	1,150	723	408	305
8	329	266	245	180	210	190	a460	370	1,450	723	408	305
9	310	262	250	180	200	200	a510	364	1,820	678	402	296
10	301	258	250	180	190	200	a620	386	1,820	608	397	296
11	292	258	260	190	180	200	a630	431	1,550	568	392	296
12	288	258	275	220	180	200	629	460	1,250	535	392	329
13	288	262	275	210	180	200	522	460	1,060	510	386	397
14	283	262	275	200	180	190	454	448	930	497	386	349
15	283	266	275	190	180	190	414	466	963	510	380	324
16	283	254	280	190	180	h214	370	528	1,060	574	375	310
17	283	266	*293	200	180	a200	349	601	847	554	370	301
18	283	283	a285	215	180	a185	414	535	738	561	359	310
19	283	270	h283	*214	180	h166	375	478	730	522	359	310
20	283	264	300	210	180	*176	344	443	678	516	359	305
21	283	258	300	210	190	a179	339	443	615	510	359	301
22	283	*256	280	210	200	a182	359	460	541	497	354	296
23	279	225	245	220	200	a185	408	503	535	478	354	296
24	274	215	225	230	200	h188	402	930	608	484	349	292
25	274	215	200	240	200	a185	370	1,010	678	472	359	288
26	288	220	h194	250	200	a182	344	1,090	678	472	354	283
27	288	225	190	250	200	a179	344	1,330	678	460	344	279
28	292	230	200	250	200	a177	349	1,260	629	454	319	274
29	324	240	240	230	-	a177	364	1,060	595	454	324	270
30	296	240	250	210	-	h177	375	921	535	454	339	266
31	279	-	240	200	-	h194	-	800	-	448	329	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,302	349	274	300	18,450
November	7,942	408	215	265	15,750
December	8,650	800	190	279	17,160
Calendar year	-	-	-	-	-
January	6,349	250	180	205	12,590
February	5,490	220	160	196	10,890
March	5,906	214	166	191	11,710
April	12,062	630	220	402	23,920
May	18,936	1,330	364	611	37,560
June	27,230	1,820	535	908	54,010
July	16,745	723	448	540	33,210
August	11,690	431	319	377	23,190
September	9,115	397	266	304	18,080
Water year 1941-42	139,417	1,820	166	382	276,500

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station near St. Anthony or interpolated.
h Computed from reading of auxilliary staff gage 2 miles above station.
Note.- Stage-discharge relation affected by ice Nov. 19-21, Nov. 23 to Dec. 16, Dec. 20-25, Dec. 27 to Mar. 15.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Extremes.- Maximum discharge during year, 3,550 second-feet June 10 (gage height, 6.22 feet); minimum, 296 second-feet Mar. 20 (gage height, 1.84 feet).
1903-09, 1920-42: Maximum discharge, 7,820 second-feet June 5, 1909 (gage height, 6.90 feet, site and datum then in use); minimum, 88 second-feet Mar. 12, 1906 (gage height, 1.00 foot, site and datum then in use).

Remarks.- Records excellent except those for periods of ice effect, which are fair. Flow affected by diversions from streams in Teton River Basin 20 miles upstream, and by flow diverted from Henrys Fork through Cross Cut Canal into Teton River (7,356 acre-feet diverted into river during 1942).

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	563	504	452	361	412	370	386	768	1,750	1,150	822	593
2	588	499	448	355	412	370	417	768	1,720	1,240	804	563
3	593	499	578	349	412	*370	452	834	1,970	1,240	804	548
4	583	518	1,270	349	406	370	553	792	2,360	1,270	810	543
5	593	640	651	351	412	374	756	834	2,570	1,320	786	543
6	593	583	499	353	399	374	762	929	2,610	1,430	768	538
7	588	533	443	361	399	353	798	840	2,770	1,470	768	538
8	583	514	448	361	403	353	883	828	3,250	1,440	762	533
9	563	489	457	361	395	374	949	989	3,520	1,360	744	523
10	548	494	457	361	374	382	1,150	1,460	3,540	1,240	744	514
11	533	484	461	386	357	378	1,180	1,590	3,110	1,160	739	504
12	528	471	471	434	403	382	1,150	1,420	2,530	1,120	716	543
13	523	*480	475	425	370	386	1,070	1,130	2,200	1,040	705	609
14	523	489	475	386	370	386	1,060	1,090	1,930	1,000	705	598
15	523	484	466	374	370	357	1,010	1,020	1,960	995	700	553
16	518	494	471	399	370	357	883	1,080	2,230	1,060	700	533
17	514	494	504	421	341	378	810	1,160	1,920	1,030	700	523
18	514	514	*494	425	341	378	852	1,100	1,680	1,000	689	523
19	514	489	499	*421	349	353	929	989	1,650	956	678	523
20	509	417	509	395	361	341	903	969	1,550	916	667	523
21	509	395	509	395	365	357	1,020	1,140	1,400	890	667	523
22	504	391	494	395	370	357	1,260	1,600	1,300	870	662	518
23	509	391	439	430	370	357	1,360	2,130	1,310	834	656	509
24	504	391	425	448	370	361	1,220	2,720	1,450	834	651	509
25	504	391	403	452	370	361	1,050	2,820	1,560	864	662	504
26	504	395	391	471	370	*357	916	3,080	1,560	646	687	504
27	523	408	378	471	370	361	852	3,330	1,460	858	630	499
28	518	421	399	471	370	361	810	3,030	1,320	858	593	494
29	543	434	443	452	-	357	810	2,440	1,230	840	598	480
30	538	426	457	421	-	361	786	2,140	1,150	840	609	480
31	499	-	430	412	-	370	-	1,870	-	834	609	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	16,649	593	499	537	33,020
November	14,132	640	391	471	28,030
December	15,296	1,270	378	493	30,340
Calendar year 1941	257,633	2,260	304	706	511,400
January	12,446	471	349	401	24,690
February	10,613	412	341	379	21,050
March	11,346	386	341	366	22,500
April	27,037	1,360	386	901	53,630
May	46,890	3,330	768	1,513	93,010
June	60,560	3,540	1,150	2,019	120,100
July	32,805	1,470	834	1,058	65,070
August	21,815	822	593	704	43,270
September	15,888	609	480	530	31,510
Water year 1941-42	285,477	3,540	341	782	566,200

* Winter discharge measurement made on this day.
Note.- Stage-discharge relation affected by ice Nov. 19-28, Dec. 5-12, Dec. 24 to Feb. 3, Feb. 14 to Mar. 5.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942. Discharge of canals computed from staff-gage readings, or interpolated, and combined to show total diverted flow. Records good for July 17 to Sept. 30, when all staff gages were read daily, and fair for May 1 to July 16, when some gages were read daily and some biweekly.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								344	1,030	994	843	610
2								344	1,030	1,040	821	586
3								352	1,100	1,080	858	577
4								360	1,190	1,110	837	577
5								337	1,270	1,140	790	555
6								348	1,310	1,180	790	538
7								347	1,350	1,140	835	534
8								344	1,270	1,110	808	520
9								344	1,230	1,060	774	506
10								348	1,240	1,010	769	501
11								352	1,210	952	753	458
12								364	1,210	916	696	502
13								368	1,150	890	724	580
14								372	1,180	900	721	625
15								379	1,150	922	734	540
16								390	1,120	951	712	514
17								414	1,120	1,000	704	478
18								424	1,080	827	681	490
19								431	1,110	907	642	433
20								473	1,140	730	646	367
21								565	1,110	885	661	361
22								622	1,120	858	637	356
23								687	1,110	835	652	354
24								806	1,140	836	632	333
25								918	1,220	848	659	325
26								842	1,270	863	685	307
27								910	1,190	829	622	304
28								838	1,110	861	588	301
29								854	1,070	856	602	300
30								864	1,010	865	603	294
31								968	-	863	608	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	16,309	968	337	526	32,350
June	34,840	1,350	1,010	1,161	69,100
July	29,258	1,180	730	944	58,030
August	22,087	858	588	712	43,810
September	13,726	625	294	458	27,220
The period	-	-	-	-	230,500

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge during year, 498 second-feet Apr. 16 (gage height, 5.28 feet); minimum, 1 second-foot June 9-10; minimum gage height 1.07 feet June 10.
1913-1942: Maximum discharge, 868 second-feet May 21, 1921; no flow on many days.

Remarks.- Records good except those for period of ice effect, 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	205	240	102	100	70	173	207	101	150	2	3
2	100	214	255	102	100	75	205	209	68	69	2	3
3	103	240	300	102	100	75	295	218	41	31	4	3
4	129	293	240	102	100	80	350	233	14	16	4	3
5	147	336	200	102	100	80	417	312	5	9	4	3
6	261	346	160	102	100	85	465	309	a4	6	4	3
7	301	331	164	102	100	85	350	309	a3	5	5	3
8	293	295	167	102	100	90	288	304	2	5	5	3
9	294	235	170	102	100	90	264	345	1	6	3	3
10	300	222	177	102	85	95	275	342	1	5	3	2
11	305	222	183	102	85	95	282	265	3	4	4	2
12	288	227	188	102	85	95	319	233	39	5	14	3
13	265	235	196	*102	85	95	366	264	35	5	17	36
14	244	239	220	102	85	95	391	323	34	4	24	24
15	230	250	270	102	85	95	481	326	22	4	21	14
16	197	257	290	100	85	95	476	371	14	4	18	22
17	189	270	297	100	75	*95	473	392	22	5	17	44
18	193	270	304	100	75	95	407	380	23	5	4	96
19	187	270	*307	100	75	95	401	374	33	6	3	154
20	189	270	300	75	75	95	404	348	35	5	3	146
21	190	270	280	75	75	95	398	315	49	5	3	180
22	190	270	260	75	75	100	368	247	51	5	3	103
23	194	168	220	80	75	100	354	207	30	5	3	70
24	193	133	160	90	75	114	363	186	17	6	2	53
25	189	121	140	100	*65	128	327	168	10	6	2	28
26	184	*121	120	100	65	127	276	125	17	3	4	26
27	185	121	102	100	65	127	269	106	45	2	5	23
28	189	123	102	100	65	127	243	90	186	3	3	17
29	200	155	102	100	-	127	205	80	213	3	3	14
30	207	220	102	100	-	126	216	76	194	3	2	10
31	201	-	102	100	-	150	-	89	-	2	2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,407	305	70	207	12,710
November	6,929	346	121	231	13,740
December	6,318	307	102	204	12,530
Calendar year 1941	46,143	346	0	126	91,520
January	3,025	102	75	97.6	6,000
February	2,355	100	65	84.1	4,670
March	3,096	150	70	99.9	6,140
April	10,101	481	173	337	20,040
May	7,753	392	76	250	15,380
June	1,312	213	1	43.7	2,600
July	392	150	2	12.6	778
August	193	24	2	6.2	383
September	1,094	180	2	36.5	2,170
Water year 1941-42	48,975	481	1	134	97,140

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
Note.- Stage-discharge relation affected by ice Nov. 19 to Mar. 29.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Mud Lake near Terreton, 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, 2¼ miles northeast of Terreton, 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 1942.

Extremes.- Maximum daily contents during year, 35,800 acre-feet May 20, 21 (gage height, 7.25 feet); minimum daily, 2,000 acre-feet Oct. 16 (gage height, -0.86 foot).

1921-42: Maximum contents observed, 61,660 acre-feet May 5, 1923 (gage height, 9.20 feet); practically no storage 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 818. Water for irrigation is diverted from lake and tributaries by pumping and gravity. Camas Creek diversion canal reported in operation Oct. 1-31 and July 20 to Sept. 30. Area of lake is varied from time to time by changes in dikes. High winds occasionally disturb the 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 record furnished by watermaster for Mud Lake and staff-gage record by Owsley Canal Co.

Contents, in acre-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,500	2,560	6,860	a12,400	17,800	h22,000	25,800	33,200	31,700	14,900	6,990	3,910
2	2,530	2,660	6,990	h12,700	17,900	a22,100	26,000	33,600	31,300	14,500	6,830	3,860
3	a2,490	2,690	7,210	a12,800	18,100	a22,200	26,200	33,800	31,000	14,200	6,640	3,820
4	a2,450	2,960	7,420	a12,900	18,200	a22,400	26,400	33,900	30,500	13,900	6,490	3,740
5	a2,420	3,110	7,590	a13,000	18,400	a22,500	26,600	34,100	30,100	13,500	6,330	3,700
6	a2,380	3,230	7,740	a13,200	16,500	a22,600	26,800	34,200	29,700	13,100	6,230	3,630
7	a2,340	3,360	7,890	a13,300	18,700	a22,800	27,100	34,300	29,200	12,800	6,080	3,570
8	a2,300	3,460	8,050	h13,400	18,800	a22,900	27,300	34,500	28,700	12,400	5,980	3,460
9	a2,260	3,590	8,230	h13,400	18,900	h23,000	27,400	34,600	28,000	12,000	5,820	3,460
10	a2,230	3,720	8,390	h13,400	19,100	a23,000	27,500	34,400	27,200	11,600	5,650	3,540
11	a2,190	3,860	8,620	h13,800	a19,300	h23,200	27,700	34,700	26,700	10,900	5,480	3,570
12	a2,150	3,990	8,790	h13,800	h19,500	a23,300	27,800	34,900	26,000	10,800	5,390	3,590
13	a2,110	4,170	8,950	h14,200	h19,600	a23,500	27,900	35,000	25,400	10,600	5,320	3,780
14	a2,080	3,670	9,120	h14,200	a19,700	a23,600	27,900	34,800	24,600	10,200	5,190	3,740
15	a2,040	3,970	9,290	h14,700	h19,800	a23,800	28,100	34,800	24,100	9,950	5,050	3,590
16	2,000	4,430	9,420	h14,700	20,100	a23,900	28,300	35,100	23,400	9,560	4,940	3,550
17	2,060	4,710	9,600	h15,100	20,100	a24,100	28,700	35,400	22,800	9,320	4,810	3,630
18	2,080	4,880	9,770	h15,100	20,100	24,200	29,000	35,500	22,000	9,220	4,750	3,670
19	2,080	5,080	9,980	h15,100	a20,400	24,200	29,200	35,600	21,300	9,020	4,770	3,650
20	2,140	5,120	10,200	h15,600	a20,600	24,300	29,500	35,800	20,700	8,790	4,660	3,720
21	2,150	5,250	10,300	h15,600	h20,900	24,400	29,800	35,800	20,000	8,520	4,600	3,700
22	2,140	5,440	10,400	h15,600	h21,200	24,600	30,000	35,600	19,400	8,490	4,620	3,720
23	2,150	5,580	10,600	a16,000	h21,300	24,700	30,600	35,300	18,600	8,360	4,520	3,700
24	2,140	5,750	10,800	h16,400	h21,400	24,800	30,600	34,800	17,800	8,330	4,370	3,800
25	2,140	5,920	11,000	16,700	h21,400	25,000	30,900	34,300	17,200	6,230	4,370	3,670
26	2,160	6,080	11,200	16,800	a21,600	25,100	31,500	33,800	16,800	8,080	4,290	3,610
27	2,210	6,230	11,400	17,000	h21,700	25,100	31,800	33,200	16,500	7,920	4,110	3,570
28	2,220	6,410	11,600	17,300	h22,000	25,300	32,200	33,000	16,100	7,710	4,130	3,570
29	2,460	6,300	11,800	17,400	-	25,400	32,700	32,600	15,700	7,420	4,110	3,520
30	2,270	6,720	12,000	17,500	-	25,500	33,000	32,200	15,300	7,360	4,010	3,540
31	2,350	-	-	17,600	-	25,700	-	32,000	-	7,100	3,990	-

a No gage-height record; contents interpolated.
h Computed from supplemental staff-gage readings excepting contents for Jan. 2, Feb. 28, and Mar. 11, which were computed from staff-gage readings at recorder site.

Monthly gage height and contents, water year October 1941 to September 1942

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	-0.51	2,540	-
Oct. 31	-0.63	2,350	-190
Nov. 30	+1.50	6,720	+4,370
Dec. 31	3.06	12,000	+5,280
Calendar year 1941	-	-	0
Jan. 31	4.32	17,600	+5,600
Feb. 28	5.19	22,000	+4,400
Mar. 31	5.82	25,700	+3,700
Apr. 30	6.89	33,000	+7,300
May 31	6.75	32,000	-1,000
June 30	3.84	15,300	-16,700
July 31	1.64	7,100	-8,200
Aug. 31	.31	3,990	-3,110
Sept.30	.07	3,540	-450
Water year 1941-42	-	-	+1,000

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 of Kilgore, and 18½ miles northeast of Dubois.

Drainage area.- 210 square miles.

Records available.- May 1937 to September 1942 (no winter records).

Extremes.- Maximum discharge recorded during year, 418 second-feet probably on May 27 (gage height, 3.45 feet); minimum recorded, 8 second-feet Sept. 11.
1937-42: 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 employee of Water District No. 66.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	26					-	150	281	66	22	11
2	24	26					-	161	215	61	24	10
3	24	26					-	161	188	54	24	10
4	26	28					-	171	188	51	26	10
5	34	30					-	226	236	45	20	9
6	32	28					-	188	265	40	19	9
7	28	26					-	145	252	41	19	9
8	a26	32					-	143	273	38	18	10
9	a24	26					-	159	292	36	16	10
10	a23	26					-	143	286	33	16	10
11	a23	26					-	178	281	30	15	9
12	a22	24					-	223	233	28	14	10
13	a22	26					-	192	202	30	14	9
14	a22						-	159	180	30	12	14
15	22	a40					-	152	154	30	12	14
16	a22						-	180	154	32	10	13
17	22						-	159	156	31	9	14
18	22						-	147	129	30	a10	14
19	20	*b32					-	129	112	28	a10	14
20	22	b31					-	108	97	28	a10	14
21	22	31					-	106	89	28	a10	14
22	22	34					-	a120	85	28	a10	14
23	22	34					-	a150	71	26	h9	14
24	24	34					h403	a200	64	26	h10	14
25	24	37					323	a300	61	24	a10	14
26	24	40					286	a350	61	24	9	14
27	24	44					218	a400	89	22	10	14
28	24	45					185	a350	106	24	10	14
29	28	45					202	a300	110	22	10	14
30	26	42					171	a320	87	22	10	14
31	24	-					-	342	-	22	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	744	34	20	24.0	1,480
November	999	-	-	33.3	1,980
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 24-30	1,788	403	171	255	3,550
May	6,223	400	106	201	12,340
June	4,997	292	61	167	9,910
July	1,030	66	22	33.2	2,040
August	428	26	9	13.8	849
September	363	14	9	12.1	720
Water year	-	-	-	-	-

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of recorded range in stage, weather records, and records for station at Camas.
b Stage-discharge relation affected by ice.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 E½SE¼ 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 1942.

Average discharge.- 16 years (1926-42), 17.2 second-feet.

Extremes.- Maximum discharge during year, 528 second-feet Apr. 23 (gage height, 4.86 feet); no flow at times.
1925-42: Maximum discharge, 900 second-feet probably May 3, 1938 (gage height, 3.98 feet, datum then in use, from flood mark), from rating curve extended above 400 second-feet; no flow June 1-7, 1926, and many periods during 1930-42.

Remarks.- Records good except those prior to Apr. 13, which are poor. Diversions above station for irrigation and stock water.

Cooperation.- Gage-height record and one discharge measurement furnished by watermaster for Mud Lake.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	2	4					129	186	37		
2	0	2	5					120	148	25		
3	0	2	10					123	112	19		
4		2	11					123	97	15		
5	a2	2						129	104	a12		
6		3					10	150	123	10		
7		3						129	129	8		
8	2	3						109	126	8		
9	1	2						103	131	8		
10	4	1						108	136	7		
11	3	0				(†)		106	138	7		
12	3	1						123	136	7		
13	2	1					103	133	118	6		
14	1	2					159	131	102	5		
15	1	3		2	1	2	153	117	93	2		
16	0	3	3				184	114	79	1		
17	0	6					229	126	78	1		
18	0	7					289	118	76	1		
19	0	*6					299	110	63	0		
20	0	0					330	100	55	0		
21	0	0					382	86	48	0		
22	0	0					415	78	38	0		
23	0						459	73	33	0		
24	0						309	78	25	0		
25	0			(†)			259	114	19	0		
26	0	a2					227	153	17	0		
27	1						197	182	22	0		
28	1						161	213	38	0		
29	1				-		146	189	46	0		
30	1	6			-		146	166	49	0		
31	2	-			-		-	171	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	31	4	0	1.0	61
November	71	7	0	2.4	141
December	111	-	-	3.6	220
Calendar year 1941	6,157	186	0	16.9	12,210
January	62	-	-	2.0	123
February	28	-	-	1.0	56
March	62	-	-	2.0	123
April	4,567	459	-	152	9,060
May	3,904	213	73	126	7,740
June	2,565	186	17	85.5	5,090
July	179	37	0	5.8	355
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1941-42	11,580	459	0	31.7	22,970

* Winter discharge measurement made on this day.
† Field estimate of discharge made on this day.
a No gage-height record; discharge computed on basis of weather records and records for other stations, or interpolated.
Note.- Stage-discharge relation affected by ice Dec. 5 to Apr. 12 (no gage-height record except occasional staff-gage readings); discharge computed on basis of discharge measurements, field estimates, weather records, observer's notes, and records for other stations.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Extremes.- Maximum discharge observed during year, 408 second-feet Apr. 13, from rating curve extended above 140 second-feet; maximum gage height observed, about 5.7 feet (ice jam) Mar. 31; minimum discharge observed, 0.5 second-foot (field estimate) Jan. 26.

1940-42: Maximum discharge observed, that of Apr. 13, 1942; maximum gage height observed, that of Mar. 31, 1942; minimum discharge observed, that of Jan. 26, 1942.

Remarks.- Records good. Gage read twice daily. Several ranch diversions above station.

Cooperation.- One discharge measurement furnished by watermaster for Mud Lake.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	14						72	112	29	4	3
2	7.5	14						62	92	27	5	3
3	7.5	14						61	87	25	5	2
4	8.4	14					b16	61	77	23	3	2
5	13	14						92	77	22	3	3
6	14	14						62	82	26	3	3
7	14	14					22	58	72	26	3	3
8	13	19					28	55	82	23	3	3
9	13	14					62	55	67	21	3	3
10	13	12					210	58	62	20	3	2
11	12	13					267	61	60	20	3	3
12	11	13					360	58	51	19	4	4
13	11	14					328	72	54	17	3	4
14	11	14					262	77	51	14	3	6
15	11	14					183	102	53	14	3	5
16	11	14					146	102	51	14	3	5
17	10	14					107	97	51	14	3	5
18	11	-				†12.8	77	92	40	11	2	6
19	10	†11					82	87	41	10	2	5
20	11	-					77	92	40	11	2	5
21	10	-					72	61	38	10	2	5
22	10	-					77	72	36	7	2	5
23	10	-					72	72	33	8	2	4
24	12	-					72	77	32	7	2	5
25	12	-					77	82	29	6	2	5
26	12			†0.5			72	92	55	6	4	4
27	13	-					67	102	67	6	4	4
28	13	-					72	97	57	6	3	4
29	14	-					72	87	44	6	3	4
30	14	-					67	134	35	6	4	4
31	14	-					-	170	-	6	4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	353.9	14	7.5	11.4	702
November 1-19	239	19	12	14.1	474
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	3,061	360	-	102	6,070
May	2,522	170	55	81.4	5,000
June	1,728	112	29	57.6	3,430
July	460	29	6	14.8	912
August	95	5	2	3.06	188
September	120	6	2	4.00	238
Water year	-	-	-	-	-

† Discharge measurement or field estimate.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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Beaver Creek at Dubois, Idaho

Location.- Water-stage recorder, lat. 44°11', long. 112°14', in NW¼ 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 1942.

Average discharge.- 15 years (1921-24, 1928-29, 1931-42), 13.4 second-feet.

Extremes.- Maximum discharge during year, 340 second-feet Apr. 12 (gage height, 2.85 feet); no flow during long periods.
1921-42: Maximum discharge, 858 second-feet Apr. 7, 1930; maximum gage height, about 6.5 feet Mar. 16, 1926; no flow during long periods.

Remarks.- Records good except those for periods of ice effect, which are poor.

Cooperation.- Gage-height record and one discharge measurement furnished by watermaster for Mud Lake.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0	22	35	106	15		
2						0	33	34	81	11		
3						0	43	35	71	8.8		
4						b1	38	37	71	7.3		
5							36	53	79	5.3		
6							56	44	81	6.4		
7						b2	116	33	76	8.8		
8							136	28	77	7.6		
9							116	28	76	5.7		
10							134	34	83	4.0		
11						*b4.6	175	49	76	3.5		
12							260	60	68	2.8		
13							269	59	59	1.5		
14							230	66	52	.6		
15						b2	160	62	48	0		
16							101	66	56	0		
17							76	73	47	0		
18						*b.5	68	62	39	0		
19							55	53	35	0		
20							48	43	32	0		
21						b.5	46	38	29	0		
22							49	41	25	0		
23							57	52	20	0		
24							63	69	18	0		
25						5.3	60	84	15	0		
26						4.3	53	93	20	0		
27						3.6	47	106	43	0		
28						5.3	42	105	41	0		
29						12	52	92	33	0		
30						16	46	112	21	0		
31						23	-	136	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1941	2,819.5	146	0	7.72	5,590
January	0	0	0	0	0
February	0	0	0	0	0
March	102.3	23	0	3.30	203
April	2,687	269	22	89.6	5,330
May	1,882	136	28	60.7	3,730
June	1,578	106	15	52.6	3,130
July	88.3	15	0	2.85	175
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1941-42	6,337.6	269	0	17.4	12,570

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Extremes.- Maximum discharge observed during year, 147 second-feet Apr. 13 (gage height, 3.26 feet); no flow on most days.

1921-42: 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 and 1940.

Remarks.- Records good. Gage read twice daily. Flow affected by irrigation diversions above Dubois, about 14 miles above gage, and by heavy channel losses below Dubois.

Cooperation.- One discharge measurement furnished by watermaster for Mud Lake.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	0	32			
2							0	0	17			
3							0	0	11			
4							0	0	12			
5							0	0	16			
6							0	0	18			
7							0	0	19			
8							0	0	18			
9							25	0	19			
10							38	0	12			
11							71	0	14			
12							114	0	9			
13							147	0	7			
14							83	0	4			
15							109	0	2			
16							60	0	2			
17							33	0	2			
18							24	0	0			
19							16	0	0			
20							6	0	0			
21							3	0	0			
22							e1	0	0			
23							0	0	0			
24							e2	0	0			
25							5	0	0			
26							6	0	0			
27							2	0	0			
28							2	14	0			
29							0	10	0			
30							0	13	0			
31							-	23	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1941	203	48	0	.6	402
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	747	147	0	24.9	1,480
May	60	23	0	1.94	119
June	214	32	0	7.13	424
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1941-42	1,021	147	0	2.80	2,020

e Gage reading not representative of average for day; discharge computed on basis of reading and estimated duration of flow.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Medicine Lodge Creek near Argora, Idaho

Location.- Water-stage recorder, lat. 44°19', long. 112°34', in sec. 34, T. 12 N., R. 33 E., at Albano Ranch, 2½ miles southeast of Argora.

Drainage area.- About 160 square miles.

Records available.- November 1938 to September 1942.

Extremes.- Maximum discharge during year, 140 second-feet Apr. 14 (gage height, 1.55 feet), from rating curve extended above 80 second-feet; minimum discharge not determined (occurred during period of ice effect).

1938-42: Maximum discharge observed, 166 second-feet Mar. 22, 1939 (gage height, 1.80 feet), from rating curve extended above 50 second-feet; minimum recorded, 9 second-feet Dec. 14, 1940 (gage height, 0.53 foot).

Remarks.- Records fair except those for periods of ice effect, which are poor. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	35	37			37	40	40	71	68	66	47
2	45	35	37			39	47	40	a68	a71	a64	46
3	45	34	42			38	52	39	66	74	62	46
4	a46	34	37			36	48	40	66	74	62	44
5	46	33	35			36	a50	41	69	74	62	44
6	44	33	37	b12	b35	35	a52	41	68	72	60	45
7	44	32	34			b34	55	40	69	69	62	45
8	44	32	36			a34	50	41	69	68	62	45
9	42	33	33			a34	54	43	69	68	58	41
10	42	33	34			34	61	44	71	68	60	41
11	42	33	34			34	79	47	71	68	60	43
12	42	33	34			*34	68	49	71	68	58	45
13	42	34	32			33	68	51	71	66	57	46
14	42	36	a32			32	104	50	71	66	54	45
15	40	38	32			32	68	52	72	a67	54	44
16	38	38	32			b31	62	54	69	a68	52	44
17	37	38	32			b30	60	54	66	68	52	43
18	37	37	32			b30	58	46	66	79	52	44
19	37	b20	32			*b30	49	49	66	84	52	43
20	37	*b20	32			30	46	49	66	84	54	40
21	38	b20	32	b35	b20	31	49	49	64	80	52	40
22	38	b20	b25			31	50	51	62	77	52	39
23	36	b20	b28			31	49	64	60	77	51	39
24	34	b20	b28			31	44	71	60	76	50	39
25	34	b20	b20			b31	43	66	60	76	50	39
26	35	b20	b15			b30	43	68	66	77	50	37
27	35	b22	b15	(*)		b30	44	77	68	77	46	37
28	35	b25	b15			30	45	68	63	77	47	37
29	36	b30	b16		-	31	45	69	66	74	49	36
30	36	37	b15		-	32	44	79	63	72	49	35
31	35	-	b15		-	35	-	74	-	68	50	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,228	46	34	39.6	2,440
November	895	38	20	29.8	1,780
December	910	42	15	29.4	1,800
Calendar year 1941	13,916	68	18	38.1	27,600
January	855	-	-	27.6	1,700
February	710	-	-	25.4	1,410
March	1,016	39	30	32.8	2,020
April	1,627	104	40	54.2	3,230
May	1,646	79	39	53.1	3,260
June	2,012	72	60	67.1	3,990
July	2,255	84	66	72.7	4,470
August	1,709	66	46	55.1	3,390
September	1,259	47	36	42.0	2,500
Water year 1941-42	16,122	104	-	44.2	31,990

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated.

b Stage-discharge relation affected by ice (no gage-height record except occasional staff-gage readings Dec. 27 to Jan. 26, Feb. 8, 9).

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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°17', long. 112°30', in sec. 7, T. 11 N., R. 34 E., 4 miles upstream from Middle Creek, 6½ miles southwest of Argora, and 17 miles northwest of Dubois.

Records available.- October 1940 to September 1942.

Extremes.- Maximum discharge during year, 125 second-feet Apr. 12 (gage height, 3.19 feet); minimum, 11 second-feet Jan. 4-9.

1940-42: Maximum discharge, 129 second-feet July 14, 1941 (gage height, 3.23 feet), from rating curve extended above 70 second-feet; minimum, 9 second-feet Dec. 12, 1940 (gage height, 1.17 feet).

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

Rating tables, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Nov. 29 to Dec. 21, Sept. 12-16)

Oct. 1 to Dec. 21		Dec. 22 to Sept. 30			
1.7	29	1.1	10	2.0	46
2.0	44	1.4	21	2.4	66
2.3	60	1.7	32	2.8	94

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	39	42	15	43	39	52	41	64	63	63	49
2	47	39	42	13	43	50	59	41	62	70	61	48
3	47	39	50	12	43	52	64	41	61	68	60	48
4	48	39	45	12	42	45	68	44	60	68	59	47
5	50	39	40	11	42	44	63	44	63	68	58	46
6	48	39	44	11	42	42	62	43	63	70	58	46
7	48	38	36	11	42	40	66	41	64	71	59	45
8	48	38	44	11	42	41	65	42	64	68	60	46
9	47	39	39	12	41	41	63	44	65	68	59	45
10	47	39	42	14	30	41	72	46	66	66	59	45
11	47	38	42	20	32	41	85	46	65	65	57	46
12	46	39	41	25	31	41	82	48	65	65	57	46
13	46	40	39	28	29	40	74	47	65	64	56	46
14	46	42	41	32	23	40	89	46	65	65	56	46
15	46	42	42	34	23	39	68	47	66	67	55	45
16	46	42	42	38	23	38	63	48	64	68	55	44
17	46	42	42	44	18	37	62	48	63	67	54	44
18	45	41	41	46	15	39	58	45	63	76	54	45
19	45	32	42	46	15	38	50	44	63	77	54	43
20	45	*b22	41	40	15	36	50	43	63	77	54	42
21	44	b21	40	37	15	39	46	44	63	74	53	42
22	44	b20	26	36	16	39	48	45	62	74	53	41
23	44	20	32	43	19	39	48	50	62	72	52	41
24	42	20	32	53	21	39	45	55	60	70	52	41
25	42	21	22	48	23	38	46	56	61	69	52	41
26	41	22	16	46	27	36	46	59	64	68	52	41
27	40	23	16	*45	30	38	45	67	64	68	52	41
28	40	33	16	46	34	39	46	62	64	69	52	40
29	42	42	17	45	-	40	46	65	62	68	52	40
30	40	42	18	39	-	43	44	72	60	66	50	40
31	38	-	16	44	-	47	-	68	-	64	50	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,392	50	38	44.9	2,760
November	1,032	42	20	34.4	2,050
December	1,088	50	16	35.1	2,160
Calendar year 1941	15,173	69	15	41.6	30,080
January	957	53	11	30.9	1,900
February	819	43	15	29.2	1,620
March	1,261	52	36	40.7	2,500
April	1,775	89	44	59.2	3,520
May	1,532	72	41	49.4	3,040
June	1,896	66	60	63.2	3,760
July	2,133	77	63	68.8	4,230
August	1,718	63	50	55.4	3,410
September	1,321	49	40	44.0	2,620
Water year 1941-42	16,924	89	11	46.4	33,570

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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. Former gage (1921-23) at site 100 feet downstream at different datum.

Drainage area.- 270 square miles.

Records available.- April 1921 to December 1923, October 1940 to September 1942.

Extremes.- Maximum discharge during year, 129 second-feet Apr. 12; maximum gage height recorded, 4.69 feet (ice jam) Nov. 30; minimum discharge observed, 19 second-fest Nov. 20.

1921-23, 1940-42: Maximum discharge recorded, 196 second-feet June 1, 1921 (gage height, 2.8 feet, site and datum then in use); minimum observed, 8 second-feet Dec. 14, 1940 (discharge measurement).

Remarks.- Records good except those for period of ice effect, which are poor. Many small diversions above and below station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	49	51			b60	66	74	105	84	77	57
2	50	50	52			b60	73	74	102	91	74	55
3	49	50	63			b65	83	72	102	90	74	54
4	49	50	56			b55	92	75	103	90	75	54
5	50	49	51	b20	b50	b50	88	79	105	98	73	54
6	48	49	55			b50	82	79	105	99	73	53
7	46	48	49			b50	87	77	104	99	74	53
8	46	48	53			b50	85	78	105	96	75	53
9	46	50	51			49	79	80	105	92	72	53
10	44	a50	58		46	50	88	84	107	89	69	53
11	44	a50	a58			51	97	87	106	86	67	53
12	42	a50	a58			*51	104	88	105	86	67	56
13	41	a50	a50			a51	98	88	103	85	67	58
14	60	a51	52			a51	105	85	102	84	66	56
15	60	a51	52			h51	93	85	102	86	66	55
16	60	b51	51			a50	82	87	101	86	64	53
17	60	b51	50			a50	80	86	94	84	64	53
18	59	b51	50			a50	78	84	89	92	63	55
19	59	b40	52			50	71	80	88	85	62	54
20	59	*b30	52	b50	b30	48	72	77	87	96	62	52
21	57		52			54	70	77	85	93	62	51
22	55					48	79	78	85	93	62	50
23	54					50	82	86	84	92	60	50
24	52					50	78	96	85	89	60	50
25	50	b25				46	78	102	83	83	62	48
26	50					44	79	106	90	83	63	49
27	50		b25			48	78	111	89	84	59	48
28	50			(*)		50	78	106	91	84	59	48
29	50				-	51	80	104	87	82	60	47
30	48				-	56	76	110	81	79	59	47
31	48	-			-	64	-	109	-	78	57	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,586	60	41	51.2	3,150
November	1,218	51	-	40.6	2,420
December	1,366	63	-	44.1	2,710
Calendar year 1941	19,247	98	-	52.7	38,170
January	1,250	-	-	40.3	2,480
February	1,036	-	-	37.0	2,050
March	1,603	65	44	51.7	3,180
April	2,481	105	66	82.7	4,920
May	2,704	111	72	87.2	5,360
June	2,880	107	81	96.0	5,710
July	2,748	99	78	88.6	5,450
August	2,047	77	57	66.0	4,060
September	1,572	58	47	52.4	3,120
Water year 1941-42	22,491	111	-	61.6	44,610

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station at Ellis Ranch near Argora, or interpolated.
b Stage-discharge relation affected by ice.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 Berenice, and 7 miles northwest of Howe.

Records available.- April 1921 to September 1942, except during winters.

Extremes.- Maximum discharge during year, 146 second-feet June 10; maximum gage height observed, 3.68 feet Jan. 24 (affected by ice); minimum discharge recorded, 15 second-feet Nov. 24.

1921-42: 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.- Gage-height record furnished by watermaster for Little Lost River.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	58					55	86	133	113	54	54
2	48	57					74	88	131	113	53	52
3	50	54					84	90	124	111	53	50
4	52	55				a25	102	87	130	110	52	49
5	57	54					105	90	131	110	51	50
6	58	54					86	79	132	108	50	52
7	57	51				*b26	95	87	135	105	47	51
8	57	47				26	f86	68	139	106	46	51
9	56	56				26	f82	70	140	102	45	50
10	56	54				28	f86	h76	143	94	46	51
11	57	53				28	a95	h85	144	88	47	53
12	56	53				29	a100	h86	144	87	49	54
13	56	54				30	109	h87	144	84	50	55
14	55	57				29	100	h78	143	82	52	54
15	54	57				*29	96	h76	143	79	51	53
16	53	59				30	82	h77	142	77	50	52
17	53	60				31	77	h82	140	74	50	54
18	58	59				32	78	h82	139	h75	49	58
19	59	42				31	74	h75	140	74	46	58
20	57	36				32	75	h70	140	73	46	58
21	56	b30				33	87	h68	139	72	46	56
22	55	b30				34	103	84	132	68	46	55
23	55	b25				35	h113	105	128	69	44	53
24	56	*b25				34	h104	118	130	65	44	53
25	56					33	h100	123	131	63	46	53
26	55					34	h102	127	133	61	49	54
27	54	b20				34	h97	132	136	60	49	53
28	55					35	h102	133	131	60	51	53
29	56					36	94	132	119	58	52	53
30	54					37	91	136	110	55	54	52
31	52	-				41	-	135	-	55	52	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,703	59	48	54.9	3,380
November	1,300	60	-	43.3	2,580
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	943	41	-	30.4	1,870
April	2,724	113	55	90.8	5,400
May	2,892	136	67	93.3	5,740
June	4,046	144	110	135	8,030
July	2,551	113	55	82.3	5,060
August	1,520	54	44	49.0	3,010
September	1,594	58	49	53.1	3,160
Water year	-	-	-	-	-

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated or computed on basis of discharge measurement of Mar. 7 and weather records.

b Stage-discharge relation affected by ice.

f Computed on basis of partly estimated gage-height record.

h Computed from staff-gage readings.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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

Location.- Staff gage and Cippoletti weir, lat. 43°53', long. 113°05', in NW¼NW¼ 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 1942 (prior to 1939, irrigation seasons only).

Extremes.- Maximum discharge during year, 54 second-feet June 13-16 (gage height, 2.66 feet); no flow during long periods.
1924-42: Maximum discharge observed, 87 second-feet May 24, 25, 1928; no flow during long periods each year.

Remarks.- Records good except those for Apr. 14-19 and 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 the Blaine County Investment Co.

Cooperation.- Gage-height record furnished by watermaster for Little Lost River.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	34					0	34	49	35	2.5	0.2
2		34						27	47	35	2.5	
3		32						22	46	33	2.5	
4		31						20	30	33	1.4	
5	5.3	31						20	51	33	.4	
6	14	29						13	51	33		
7	14	29						4	51	33		
8	14	28							53	31		
9	14	32							37	23		
10	15	31							3.8	19		
11	13	31					5.5		20	17		
12	14	23					20		51	17		
13	14	24					27		54	16		
14	14	30					25		54	16		
15	14	25					25		54	16		
16	14	3.6					25	1	34	4.6		
17	14	1.8					25		53	4.6		
18	16	.3					25		38	4.6		
19	18	.3					25		3.8	4.9		
20	17	.3					20		37	4.6	.2	
21	17	.3					48		53	4.6		
22	17	.3					35		45	4.6		
23	17	.3					4.6	6.7	45	4.6		
24	18	.3					4.1	28	46	3.0		
25	17	.3					3.8	28	38	3.0		
26	14	.3					38	26	26	3.0		
27	14	.2					40	43	50	3.0		
28	24	.2					40	43	49	3.0		
29	24	.1					36	48	43	2.8		
30	26	.1					36	48	34	2.5		
31	31	-					-	49	-	2.5		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	443.3	31	0	14.3	879
November	452.7	34	.1	15.1	898
December	0	0	0	0	0
Calendar year 1941	2,960.4	53	0	8.13	5,890
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	508.0	48	0	16.9	1,010
May	474.7	49	-	15.3	942
June	1,286.6	54	3.8	42.9	2,550
July	449.9	35	2.5	14.5	892
August	15.1	2.5	.2	.49	30
September	6.0	-	-	.20	12
Water year 1941-42	3,636.3	54	0	9.96	7,210

Note.- Discharge Nov. 17-30, May 7-22, Aug. 4 to Sept. 30 computed on basis of field estimates of Nov. 24, Aug. 28, Sept. 29, and known gate changes; Apr. 14-19 computed on basis of discharge measurement of Apr. 16 and information furnished by watermaster.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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, and May 1920 to September 1942, except during winters.

Extremes.- Maximum discharge during year, 2,070 second-feet June 8 (gage height, 4.10 feet); minimum daily, 80 second-feet Nov. 23, but may have been less during winter.
1904-14, 1920-42: Maximum discharge, 3,500 second-feet June 12, 1921 (gage height, 5.94 foot), 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 no gage-height record, which are fair. No regulation. Several small diversions above station. Hammerly ditch (capacity about 20 second-feet) diverts water a quarter of a mile below station.

Cooperation.- Gage-height record furnished by watermaster for Big Lost River.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

0.9	90	2.5	725
1.2	156	2.9	1,010
1.5	246	3.3	1,350
1.8	357	3.7	1,710
2.1	492	4.1	2,070

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	132	123					a100	281	692	1,050	281	132
2	132	121					106	270	706	1,170	274	127
3	130	119					137	253	868	1,220	256	119
4	135	121					192	260	1,080	1,300	250	117
5	140	119					164	246	1,260	1,350	236	112
6	137	116					167	250	1,440	1,350	233	112
7	135	104					243	264	1,800	1,220	226	110
8	128	112					296	288	1,980	1,170	216	108
9	123	110					386	345	1,980	1,020	207	108
10	128	104					539	404	1,660	935	198	108
11	126	104					706	374	1,400	912	198	110
12	126	108					732	365	1,220	784	195	110
13	126	100					686	349	1,170	712	186	110
14	123	112					764	326	1,170	666	178	108
15	123	166					444	330	1,350	738	170	104
16	126	155					382	334	1,260	718	164	104
17	123	145					374	326	1,070	666	161	104
18	121	135					330	316	1,130	594	172	112
19	123	121					326	307	1,080	523	159	110
20	135	a110					426	322	972	492	156	110
21	142	a100					606	435	853	468	156	108
22	137	a90					712	751	860	458	151	106
23	132	a80					534	1,350	1,000	458	146	100
24	130	a85					440	1,440	1,130	449	146	98
25	135	a85					426	1,480	1,170	399	149	96
26	135	†87					370	a1,400	1,090	374	151	96
27	130	a85					326	1,300	890	361	142	96
28	132	a85					326	1,130	790	330	146	94
29	132	a85					303	935	770	322	146	94
30	121	a85					281	839	988	318	146	92
31	116	-					-	751	-	292	137	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,014	142	116	129	7,960
November	3,272	166	80	109	6,490
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	11,844	784	100	395	23,490
May	18,023	1,480	246	581	35,750
June	34,829	1,980	692	1,161	69,080
July	22,819	1,350	292	736	45,260
August	5,732	281	137	185	11,370
September	3,215	132	92	107	6,380
Water year	-	-	-	-	-

† Result of discharge measurement.
a No gage-height record; discharge interpolated or computed on basis of discharge measurement of Nov. 26, weather records, and records for stations on nearby streams.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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

Location.- Water-stage recorder, 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 1942.

Average discharge.- 23 years, 52.2 second-feet.

Extremes.- Maximum discharge during year, 952 second-feet June 9 (gage height, 4.67 feet); minimum daily, 5 second-feet Mar. 18-23; minimum gage height, 0.19 foot Feb. 25.
1919-42: Maximum discharge, 1,320 second-feet June 7, 1938 (gage height, 5.02 feet); no flow during long periods in 1920, 1923-38, 1940.

Remarks.- Records good except those for period 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.- Gage-height record furnished by watermaster for Big Lost River.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 15 to May 23, Aug. 11 to Sept. 30)

0.2	5	1.4	70	2.8	318
.5	14	1.7	104	3.2	424
.8	27	2.0	148	3.6	540
1.1	46	2.4	224	4.0	660

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	11	10	9	8	7	8	74	277	480	102	15
2	21	11	10	10	8	6	7	66	258	510	92	14
3	21	11	11	10	8	6	7	59	272	540	81	13
4	22	11	11	9	9	6	7	57	347	570	74	13
5	21	11	10	9	9	6	7	55	466	600	68	12
6	21	11	10	9	9	6	7	49	555	630	64	11
7	21	10	10	9	9	6	7	47	675	615	59	11
8	21	10	10	9	9	6	7	49	828	585	55	10
9	20	10	10	9	9	6	7	53	952	540	51	10
10	20	10	10	9	9	6	7	61	880	495	47	10
11	20	10	10	9	9	6	27	70	765	466	45	9
12	20	11	9	9	9	6	70	79	690	438	42	10
13	20	11	9	9	9	6	156	a85	645	396	39	10
14	20	10	10	9	8	6	215	a64	645	344	37	10
15	19	10	10	9	8	6	178	a82	675	328	35	9
16	19	10	10	9	8	6	148	80	690	347	32	9
17	17	11	10	9	7	6	148	79	630	336	31	10
18	11	11	10	9	7	5	153	77	615	311	29	9
19	11	10	10	9	7	5	148	76	615	282	27	9
20	12	10	10	9	7	5	150	73	570	246	26	9
21	11	a10	10	9	7	5	171	74	525	226	23	9
22	11	10	10	9	7	5	200	92	480	220	22	9
23	11	10	10	9	7	5	192	209	466	222	21	9
24	10	10	10	9	7	6	159	334	510	206	21	9
25	11	10	10	8	7	6	142	396	555	198	20	8
26	11	10	11	8	7	6	131	585	570	177	17	8
27	11	10	10	8	7	6	115	630	510	162	17	8
28	11	10	9	8	7	6	107	525	452	143	18	8
29	11	10	9	8	-	6	94	438	410	128	19	8
30	11	10	9	8	-	7	82	383	438	124	16	8
31	11	-	9	8	-	8	-	323	-	111	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	498	22	10	16.1	988
November	310	11	10	10.3	615
December	307	11	9	9.9	609
Calendar year 1941	23,609	532	1	64.7	46,830
January	274	10	8	8.8	543
February	222	9	7	7.9	440
March	184	8	5	5.9	365
April	2,857	215	7	95.2	5,670
May	5,344	630	47	172	10,600
June	16,966	952	258	566	33,650
July	10,976	630	111	354	21,770
August	1,246	102	16	40.2	2,470
September	297	15	8	9.9	589
Water year 1941-42	39,481	952	5	108	78,310

a No gage-height record; discharge computed on basis of records for nearby stations.
Note.- Stage-discharge relation affected by backwater from Mackay Reservoir Apr. 15 to May 23.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Average discharge.- 23 years, 56.3 second-feet.

Extremes.- Maximum discharge during year, 345 second-feet May 27 (gage height, 3.61 feet); minimum daily, 39 second-feet Mar. 9-12, 25-29, Apr. 9; minimum gage height, 1.97 feet Mar. 8-13, 25-29, Apr. 9, 10.

1919-42: 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. 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.- Gage-height record furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	58	51	47	43	41	43	66	164	164	69	55
2	59	58	51	46	43	41	43	68	152	178	68	55
3	59	58	56	46	42	41	42	68	158	190	66	55
4	62	56	54	46	42	40	42	68	190	204	65	55
5	62	56	52	48	42	40	43	66	218	218	63	55
6	61	55	51	47	41	40	42	65	239	233	63	55
7	61	55	51	45	42	40	41	63	269	229	62	55
8	58	55	51	45	41	40	40	63	312	212	62	55
9	58	55	51	45	41	39	39	63	332	194	61	55
10	56	55	a51	45	41	39	45	65	323	174	61	55
11	56	55	a50	45	41	39	76	69	a290	160	59	55
12	56	56	a50	45	41	39	98	70	248	146	58	55
13	55	56	50	42	40	a40	117	72	220	131	56	54
14	54	56	50	42	40	40	137	72	218	121	58	54
15	54	56	48	41	40	40	126	72	229	121	58	55
16	54	56	51	41	41	40	105	72	235	131	56	55
17	56	56	a51	41	42	40	98	72	208	128	56	56
18	58	56	a51	41	41	40	92	72	196	122	56	56
19	58	54	a51	41	41	40	84	69	196	115	56	56
20	58	54	51	41	42	40	82	65	182	108	58	56
21	58	52	51	41	42	40	100	65	162	98	59	56
22	58	52	50	41	42	40	112	74	150	94	58	56
23	56	52	50	a42	42	40	110	114	154	90	58	58
24	56	51	50	43	42	40	105	182	176	86	58	58
25	56	51	a50	43	42	39	100	222	190	84	58	56
26	56	51	a49	43	41	39	87	258	198	80	58	56
27	56	51	48	42	41	39	81	330	178	76	56	55
28	56	51	48	42	41	39	75	271	162	75	55	56
29	56	51	48	a42	-	39	74	235	146	72	56	55
30	56	51	48	a43	-	40	69	216	146	69	56	56
31	a57	-	47	43	-	41	-	186	-	69	56	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,776	62	54	57.3	3,520
November	1,629	58	51	54.3	3,230
December	1,561	56	47	50.4	3,100
Calendar year 1941	25,549	290	32	70.0	50,670
January	1,345	48	41	43.4	2,670
February	1,160	43	40	41.4	2,300
March	1,235	41	39	39.8	2,450
April	2,348	137	39	78.3	4,660
May	3,543	330	63	114	7,030
June	6,241	332	146	208	12,380
July	4,172	233	69	135	8,280
August	1,839	69	56	59.3	3,650
September	1,666	58	54	55.5	3,300
Water year 1941-42	28,515	332	39	78.1	56,570

a No gage-height record; discharge interpolated.

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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	190	188	173	171	167	164	170	262	632	824	264	156
2	190	188	174	172	168	163	169	254	586	881	252	155
3	187	188	188	173	166	163	168	247	616	938	240	154
4	196	185	179	171	170	161	178	245	752	996	230	157
5	197	184	174	174	168	161	167	238	917	1,050	221	160
6	204	181	173	173	167	160	166	229	1,050	1,100	217	161
7	203	178	173	171	168	160	166	222	1,220	1,080	210	164
8	200	178	173	171	167	160	168	224	1,450	1,020	203	166
9	197	179	174	171	169	156	169	228	1,610	938	198	169
10	195	178	174	170	169	156	184	238	1,520	856	195	174
11	195	178	173	172	169	156	246	251	1,330	801	193	175
12	196	181	172	172	169	157	336	261	1,180	745	186	177
13	193	181	173	169	169	158	450	265	1,090	675	181	176
14	190	180	174	169	167	158	544	260	1,080	604	180	177
15	189	180	173	170	168	158	471	253	1,140	596	179	176
16	188	180	177	169	169	158	400	248	1,160	632	172	175
17	188	184	176	169	168	158	392	254	1,050	611	171	178
18	180	183	176	169	164	155	385	253	1,010	572	169	178
19	180	177	176	169	165	155	366	246	1,010	528	166	179
20	181	177	177	171	167	155	367	233	939	477	169	178
21	184	175	177	170	168	155	418	231	862	442	168	177
22	185	175	176	171	168	156	470	263	795	428	166	179
23	183	174	176	170	168	155	454	459	784	424	165	183
24	184	173	176	169	169	156	408	706	866	400	165	180
25	187	173	176	166	169	153	380	843	947	389	164	177
26	187	174	176	166	167	153	354	1,160	977	361	161	175
27	187	174	177	165	165	153	328	1,280	885	339	157	171
28	187	176	175	165	164	155	313	1,080	793	317	159	168
29	187	173	175	165	-	157	296	928	716	298	162	166
30	183	173	177	166	-	159	274	837	747	288	159	167
31	184	-	176	167	-	168	-	721	-	274	158	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,877	204	180	190	11,660
November	5,368	188	173	179	10,650
December	5,439	188	172	175	10,790
Calendar year 1941	92,297	1,100	105	253	183,100
January	5,256	174	165	170	10,430
February	4,692	170	164	168	9,310
March	4,891	168	153	158	9,700
April	9,357	544	166	312	18,560
May	13,416	1,280	222	433	26,610
June	29,714	1,610	586	990	58,940
July	19,884	1,100	274	641	39,440
August	5,780	264	157	186	11,460
September	5,128	183	154	171	10,170
Water year 1941-42	114,802	1,610	153	315	227,700

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Extremes.- Maximum contents observed during year, 39,300 acre-feet May 27 (gage height, 62.70 feet); minimum observed, 13,990 acre-feet Aug. 29 (gage height, 37.70 feet).
1919-42: Maximum contents observed, 41,270 acre-feet May 30, 1938 (gage height, 64.20 feet); no available storage during periods in 1919, 1920, 1924, 1928, 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 is 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 the reservoir and station below reservoir, near Mackay. Figures given herein represent usable contents, computed for midnight on basis of once-daily readings of staff gage.

Cooperation.- Gage-height record and capacity table furnished by watermaster for Big Lost River.

Contents, in acre-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24,130	27,890	32,440	36,000	35,600	34,900	35,110	38,020	37,140	37,640	27,810	14,280
2	24,500	28,000	32,660	36,100	35,600	34,900	35,180	37,900	36,760	37,680	27,250	14,350
3	24,700	28,170	32,790	36,000	35,500	34,900	35,250	37,810	36,620	37,830	26,720	14,520
4	24,780	28,390	32,950	36,000	35,500	34,800	35,350	37,770	36,630	38,060	26,120	14,660
5	24,900	28,580	33,120	36,000	35,500	34,800	35,440	37,870	36,830	38,320	25,480	14,720
6	25,040	28,690	33,240	36,000	35,500	34,700	35,500	37,470	37,460	38,570	24,720	14,740
7	25,260	28,890	33,330	36,000	35,500	34,600	35,560	37,530	38,200	38,700	24,060	14,750
8	25,580	29,080	33,420	36,000	35,500	34,540	35,610	37,720	38,660	38,580	23,400	14,760
9	25,790	29,150	33,500	36,000	35,500	34,540	35,670	37,900	38,910	38,350	22,720	14,760
10	25,880	29,290	33,590	36,000	35,500	34,540	35,830	38,090	38,800	38,140	21,910	14,800
11	26,050	29,450	33,780	36,000	35,500	34,540	36,040	38,320	38,480	37,770	21,230	14,850
12	26,220	29,630	33,900	35,900	35,500	34,540	36,430	38,570	38,230	37,380	20,190	14,950
13	26,380	29,820	34,040	35,900	35,500	34,540	37,120	38,740	37,950	36,920	19,430	15,020
14	26,640	29,950	34,160	35,900	35,400	34,490	37,910	38,690	38,020	36,400	18,790	15,100
15	26,900	30,090	34,270	35,900	35,400	34,370	38,490	38,610	38,250	36,000	18,090	15,200
16	26,990	30,200	34,390	35,900	35,400	34,320	38,740	38,560	38,380	35,810	17,530	15,360
17	27,050	30,260	34,550	35,900	35,400	34,360	39,030	38,490	38,370	35,680	17,090	15,500
18	27,000	30,470	34,780	35,800	35,400	34,390	39,180	38,470	38,210	35,490	16,570	15,700
19	26,960	30,660	34,940	35,800	35,400	34,430	39,160	38,440	38,190	35,250	16,130	15,820
20	26,960	30,810	35,030	35,800	35,300	34,470	39,150	38,430	38,210	35,000	15,730	15,890
21	26,970	30,940	35,130	35,800	35,300	34,490	39,140	38,340	38,130	34,680	15,500	15,940
22	26,950	31,050	35,240	35,800	35,300	34,540	39,160	38,320	38,090	34,320	14,550	15,960
23	26,950	31,170	35,360	35,800	35,200	34,600	39,160	38,510	38,130	34,030	15,120	15,990
24	26,960	31,360	35,470	35,800	35,100	34,660	39,100	38,850	38,320	33,530	14,950	16,020
25	26,970	31,530	35,590	35,700	35,100	34,710	38,980	39,020	38,490	32,940	14,740	16,060
26	27,040	31,670	35,620	35,700	35,100	34,740	38,880	39,120	38,530	32,150	14,490	16,110
27	27,160	31,800	35,800	35,700	35,000	34,770	38,690	39,230	38,440	31,320	14,240	16,430
28	27,310	31,910	35,940	35,700	35,000	34,790	38,530	38,980	38,240	30,500	14,050	16,670
29	27,440	32,050	35,990	35,700	-	34,800	38,440	38,470	37,990	29,810	14,000	16,740
30	27,550	32,190	36,000	35,600	-	34,860	38,240	37,960	37,720	29,160	14,040	16,620
31	27,730	-	36,010	35,600	-	34,990	-	37,630	-	28,470	14,160	-

Note.- No gage-height record Jan. 1 to Mar. 7, Sept. 14, 15, 17, 18; contents computed on basis of inflow and outflow records.

Monthly gage height and contents, water year October 1941 to September 1942

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	49.10	23,790	-
Oct. 31	52.92	27,730	+3,940
Nov. 30	56.90	32,190	+4,460
Dec. 31	60.09	36,010	+3,820
Calendar year 1941	-	-	+13,540
Jan. 31	-	35,600	-410
Feb. 28	-	35,000	-600
Mar. 31	59.25	34,990	-10
Apr. 30	61.87	38,240	+3,250
May 31	61.31	37,630	-610
June 30	61.46	37,720	+90
July 31	53.60	28,470	-9,250
Aug. 31	37.93	14,160	-14,310
Sept. 30	41.09	16,620	+2,460
Water year 1941-42	-	-	-7,170

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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, January 1919 to September 1942. April 1913 to March 1915 at site 1 mile downstream.

Average discharge.- 26 years (1904-5, 1912-14, 1919-42), 257 second-feet.

Extremes.- Maximum discharge during year, 1,590 second-feet June 10 (gage height, 4.39 feet); minimum, 98 second-feet Oct. 2-4 (gage height, 1.62 feet).
1903-6, 1912-15, 1919-42: Maximum discharge, 2,990 second-feet June 10, 1921 (gage height, 5.79 feet); minimum, 18 second-feet Nov. 1, 1934; minimum gage height, 1.23 feet Nov. 5-8, 1926.

Remarks.- Records good. Sharp ditch is only diversion between station and reservoir; many above reservoir. Flow regulated by Mackay Reservoir (see preceding page).

Cooperation.- Gage-height record furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	109	109	115	190	194	201	156	347	835	835	630	133
2	98	109	115	190	194	201	156	351	805	835	570	133
3	98	109	121	194	194	201	156	320	775	835	545	136
4	98	109	121	194	190	197	156	281	715	835	545	152
5	101	109	118	194	190	197	156	276	715	835	560	152
6	109	112	118	194	190	197	156	417	775	865	565	156
7	127	112	121	194	190	197	156	130	835	1,020	555	159
8	124	109	121	194	190	194	156	127	1,250	1,020	555	162
9	104	112	124	194	190	194	156	127	1,520	1,020	580	162
10	104	112	124	194	190	194	156	127	1,560	958	608	179
11	104	112	124	194	190	194	156	133	1,560	895	630	176
12	104	112	124	194	190	194	156	146	1,380	895	624	139
13	104	112	124	194	190	194	156	a150	1,150	895	602	139
14	112	115	124	194	190	194	159	a190	1,060	835	586	136
15	121	115	124	194	190	194	162	a239	990	775	496	124
16	139	115	127	194	190	179	212	239	990	715	476	124
17	169	118	127	194	190	149	276	239	1,020	668	452	130
18	197	118	127	194	194	149	333	239	990	636	447	146
19	216	118	127	194	194	149	370	239	958	619	427	179
20	220	118	127	194	190	149	356	228	865	602	389	156
21	220	118	127	194	190	149	370	239	835	570	347	146
22	220	118	127	194	212	149	461	307	775	565	293	139
23	208	115	127	194	231	149	505	329	715	560	276	136
24	201	115	130	194	220	149	471	560	715	597	272	136
25	190	115	130	190	201	149	456	775	775	674	289	136
26	179	115	130	190	201	149	427	925	865	715	307	130
27	176	115	130	190	201	149	403	1,250	865	775	307	127
28	152	115	130	194	201	149	384	1,220	865	745	307	152
29	149	115	152	194	-	149	370	1,120	835	641	224	190
30	149	115	183	194	-	149	351	1,060	835	630	152	190
31	149	-	186	194	-	149	-	925	-	630	149	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,551	220	98	147	9,030
November	3,411	118	109	114	6,770
December	4,005	186	115	129	7,940
Calendar year 1941	90,340	958	98	248	179,200
January	5,994	194	190	193	11,890
February	5,477	231	190	196	10,860
March	5,357	201	149	173	10,630
April	8,094	505	156	270	16,050
May	13,255	1,250	127	428	26,290
June	28,828	1,560	715	961	57,180
July	23,695	1,020	560	764	47,000
August	13,765	630	149	444	27,300
September	4,455	190	124	148	8,840
Water year 1941-42	120,887	1,560	98	331	239,800

a No gage-height record; discharge computed on basis of information furnished by watermaster.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Warm Spring Creek (east channel) near Mackay, Idaho

Location.- Water-stage recorder, lat. 43°58', long. 113°45', in NE¼ sec. 5, T. 7 N., R. 23 E., 700 feet upstream from confluence with west channel of Warm Spring Creek, and 7½ miles northwest of Mackay.

Records available.- May 1919 to September 1942.

Average discharge.- 23 years, 27.9 second-feet.

Extremes.- Maximum discharge during year, 129 second-feet May 27 (gage height, 2.92 feet); minimum daily, 16 second-feet Mar. 18-30, Aug. 19, 27; minimum gage height, 1.57 feet Aug. 27.

1919-42: Maximum discharge, 225 second-feet June 15, 1922; minimum, 9 second-feet May 8, 9, 13, 14, 1919, May 18-21, 1920.

Remarks.- Records good. Practically all natural flow diverted during irrigation season. Flow 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.- Gage-height record furnished by watermaster for Big Lost River.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

1.5	13	2.4	79
1.8	29	2.7	107
2.1	53	3.0	137

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	24	21	20	19	20	a17	22	58	56	19	17
2	24	24	21	20	20	20	a17	21	52	62	18	17
3	23	24	22	20	19	20	a17	21	56	67	19	17
4	24	24	a22	20	20	19	19	21	69	74	18	17
5	24	23	a21	20	20	19	18	21	78	78	18	18
6	26	23	21	20	20	19	18	20	88	84	18	18
7	26	22	21	20	20	19	18	20	99	81	17	19
8	26	22	21	20	20	19	18	20	114	74	17	19
9	25	22	21	20	20	17	19	19	121	67	17	20
10	25	22	21	19	20	17	20	20	116	60	17	21
11	25	22	21	19	20	17	24	20	a100	55	17	21
12	25	22	21	19	20	17	35	21	82	49	17	21
13	24	22	20	19	20	17	40	20	77	42	17	21
14	24	22	20	19	20	17	48	20	76	36	17	21
15	24	22	20	19	20	17	39	19	81	39	17	21
16	a24	22	20	19	20	17	31	19	82	42	17	21
17	a24	22	20	19	20	17	30	20	69	39	17	22
18	24	22	20	19	20	16	28	20	66	36	17	22
19	24	22	20	19	20	16	25	19	65	35	16	22
20	24	22	20	20	20	16	26	18	59	31	17	22
21	24	22	20	20	20	16	30	18	51	28	17	22
22	24	22	20	21	20	16	35	20	46	26	17	22
23	24	21	20	20	20	16	35	35	47	25	17	22
24	24	21	19	20	20	16	32	62	60	24	17	a22
25	24	21	19	19	20	16	30	77	67	23	17	a22
26	24	21	19	19	20	16	28	105	69	22	17	21
27	24	21	19	19	20	16	26	121	63	22	16	21
28	24	21	19	19	20	16	25	100	55	21	17	21
29	24	21	19	19	-	a16	24	88	46	21	17	20
30	24	21	20	19	-	a16	22	81	47	20	17	20
31	24	-	20	19	-	a17	-	68	-	20	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	753	26	23	24.3	1,490
November	662	24	21	22.1	1,310
December	628	22	19	20.3	1,250
Calendar year 1941	9,254	96	12	25.4	18,360
January	604	21	19	19.5	1,200
February	558	20	19	19.9	1,110
March	533	20	16	17.2	1,060
April	794	48	17	26.5	1,570
May	1,176	121	18	37.9	2,330
June	2,159	121	46	72.0	4,280
July	1,359	84	20	43.8	2,700
August	533	19	16	17.2	1,060
September	610	22	17	20.3	1,210
Water year 1941-42	10,369	121	16	28.4	20,570

a No gage-height record; discharge interpolated.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 of Warm Spring Creek and 7½ miles northwest of Mackay.

Records available.- May 1919 to September 1942.

Average discharge.- 23 years, 90.9 second-feet.

Extremes.- Maximum discharge during year, 207 second-feet May 27 (gage height, 2.35 feet); minimum, 66 second-feet Aug. 16; minimum gage height, 1.27 feet May 21.
1919-42: 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.- Gage-height record furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	87	95	91	95	97	96	a102	100	133	124	74	69
2	86	95	92	a96	97	96	a102	99	124	131	74	69
3	84	95	99	97	97	96	a102	99	130	141	74	69
4	88	94	92	96	99	96	110	99	146	148	73	72
5	90	94	91	97	97	a96	99	96	155	153	72	75
6	96	92	91	97	97	a95	99	95	166	158	72	77
7	95	91	91	97	97	95	100	92	179	153	72	79
8	95	91	91	97	97	95	103	92	196	149	69	82
9	94	92	92	a97	99	94	104	90	202	137	69	84
10	94	91	92	97	99	94	112	92	196	127	70	88
11	94	91	92	99	99	94	119	92	179	120	72	90
12	95	92	92	99	99	95	133	91	162	112	69	91
13	94	92	94	99	100	a95	137	88	149	106	69	91
14	92	92	94	99	99	95	144	84	146	103	68	92
15	92	92	95	101	100	95	128	80	153	108	69	91
16	91	92	96	100	100	a95	116	77	153	112	67	90
17	91	95	95	100	99	a95	116	83	141	108	67	90
18	87	94	95	100	96	a94	112	84	135	103	67	91
19	87	91	95	100	a97	a94	109	82	134	96	67	92
20	87	91	96	101	a98	a94	109	77	128	92	68	91
21	91	91	96	100	99	94	117	74	124	90	69	90
22	92	91	96	100	99	94	123	77	119	88	69	92
23	92	91	96	99	99	94	117	101	117	87	69	94
24	94	91	97	97	100	94	112	128	a120	84	69	91
25	96	91	97	96	100	92	108	148	a135	84	69	91
26	96	92	97	96	99	92	108	185	a140	82	69	90
27	96	92	100	96	a97	92	106	202	134	79	68	86
28	96	94	99	96	96	94	106	179	124	78	69	83
29	94	91	99	96	-	96	104	167	114	77	70	82
30	92	91	100	96	-	96	101	157	116	75	70	83
31	92	-	100	97	-	102	-	144	-	74	69	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,850	96	84	91.9	5,650
November	2,767	95	91	92.2	5,490
December	2,943	100	91	94.9	5,840
Calendar year 1941	33,882	179	59	92.8	67,200
January	3,033	101	95	97.8	6,020
February	2,752	100	96	98.3	5,460
March	2,939	102	92	94.8	5,830
April	3,368	144	99	112	6,660
May	3,354	202	74	108	6,650
June	4,350	202	114	145	8,630
July	3,376	158	74	109	6,700
August	2,162	74	67	69.7	4,290
September	2,555	94	69	85.2	5,070
Water year 1941-42	36,439	202	67	99.8	72,290

a No gage-height record; discharge interpolated or computed on basis of records for nearby stations.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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.- June 1912 to October 1914, March 1919 to September 1942.

Extremes.- Maximum discharge observed during year, 35 second-feet June 25 (gage height, 1.28 feet); minimum observed, 0.2 second-feet Apr. 17 (field estimate).
1912-14, 1919-42: Maximum discharge observed, 42 second-feet June 23, 1921; no flow at times.

Remarks.- Records good except those below 5 second-feet, which are fair. 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 237 acre-feet during the year (44 in October, 47 in November, 27 in May, 16 in June, 61 in July, 36 in August, and 6 in September).

Cooperation.- Gage-height record furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.6	5.4	6.0					4.3	17	32	13	4.3
2	5.6	5.0	6.0					4.3	18	32	12	6.0
3	5.6	5.2	6.0					4.5	20	32	11	8.5
4	5.6	5.4	6.0			a0.4		4.5	20	32	11	9.2
5	5.6	5.6	5.8					4.5	20	32	11	11
6	5.4	5.8	5.8					4.8	20	32	17	12
7	5.4	5.8	h6.0					6.5	h20	33	23	12
8	5.2	5.8	a1.6			†.4		6.8	24	33	22	12
9	5.0	5.8					a0.2	6.5	31	34	21	12
10	5.0	5.8						6.5	27	33	22	11
11	5.0	6.0						4.2	22	33	20	7.2
12	5.0	6.0						1.0	21	34	19	7.0
13	5.0	6.3		a0.8				.8	21	33	20	7.2
14	5.0	6.3						.6	21	33	19	7.2
15	4.8	6.3						1.3	21	32	18	7.0
16	4.8	6.3			a0.6			7.2	21	31	20	7.0
17	4.8	5.8					†.2	9.8	22	31	21	7.0
18	5.0	5.8					a.2	9.8	27	31	21	7.2
19	5.0	5.6					a3.0	12	28	31	20	7.5
20	5.0	5.6	a1.6			a.4	a4.8	19	29	30	20	6.8
21	5.0	5.4					4.8	14	31	30	19	6.8
22	5.0	5.4					4.8	11	31	30	18	6.5
23	5.0	5.4					4.8	11	h31	29	18	6.5
24	5.0	5.4					4.5	11	h31	30	16	6.5
25	5.0	5.6		†.8			4.5	12	h35	30	11	6.0
26	5.0	6.3					4.5	14	h31	30	4.5	4.5
27	5.0	5.8					4.5	17	32	28	3.9	4.3
28	5.0	5.8		a.8			4.5	17	32	23	3.9	4.3
29	5.2	5.8			-		4.3	17	32	23	3.7	4.5
30	5.4	6.0			-		4.3	17	32	21	3.7	4.5
31	5.6	-	a1.2		-		-	17	-	17	3.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	159.0	5.6	4.8	5.15	317
November	172.5	6.3	5.0	5.75	342
December	79.6	6.0	-	2.57	158
Calendar year 1941	2,617.0	25	0	7.17	5,190
January	24.8	-	-	.8	49
February	16.8	-	-	.6	33
March	12.4	-	-	.4	25
April	56.9	4.8	-	1.90	113
May	276.3	19	.6	8.91	548
June	768	35	17	25.6	1,520
July	935	34	17	30.2	1,850
August	466.2	23	3.5	15.0	925
September	223.5	12	4.3	7.45	443
Water year 1941-42	3,191.6	35	-	8.74	6,320

† Result of discharge measurement or field estimate.
a No gage-height record; discharge computed on basis of discharge measurements or field estimates of Jan. 25, Mar. 8, and Apr. 17, and data furnished by watermaster.
h Computed from staff-gage readings.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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Portneuf River at Topaz, Idaho

Location.- Staff gage, lat. 42°38', 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 southeast of McCammon.

Records available.- January 1913 to September 1915, July 1919 to September 1942.

Average discharge.- 23 years (1913-14, 1919-22, 1923-42), 189 second-feet.

Extremes.- Maximum discharge observed during year, 444 second-feet Apr. 5 (gage height, 2.90 feet); minimum observed, 89 second-feet Jan. 21 (gage height, 0.92 foot).
1913-15, 1919-42: 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	102	a117	126	121	122	117	224	196	216	226	174	166
2	106	117	126	121	121	119	228	192	212	230	174	157
3	109	121	130	121	121	117	258	186	186	226	176	153
4	108	122	145	121	124	117	365	186	190	222	178	149
5	109	126	149	121	126	119	444	190	194	220	178	145
6	109	126	130	121	128	124	396	194	182	220	176	138
7	111	126	128	122	130	124	294	164	178	216	178	134
8	113	126	128	122	126	117	230	192	176	214	180	134
9	117	126	128	121	126	128	249	192	174	204	180	134
10	117	124	126	119	126	140	a249	204	170	204	178	134
11	117	122	130	119	126	155	249	206	172	194	176	130
12	111	124	128	119	119	a156	230	218	168	194	188	126
13	109	126	126	116	117	157	228	218	159	200	180	119
14	109	130	130	111	113	153	240	212	198	188	190	108
15	111	132	132	90	121	138	230	208	210	184	188	104
16	116	132	128	108	124	138	228	212	208	188	164	100
17	116	132	140	119	124	138	212	212	210	190	180	100
18	116	134	136	119	117	138	204	210	212	190	176	100
19	116	130	128	116	128	138	204	210	206	190	180	100
20	116	121	132	113	121	130	224	204	208	190	172	100
21	116	122	132	89	121	134	240	210	212	192	172	97
22	116	122	130	97	121	142	240	240	212	190	172	97
23	116	121	130	122	116	147	240	240	220	190	168	97
24	113	121	130	119	116	149	222	249	224	188	168	97
25	111	121	128	121	116	142	218	240	228	184	180	a97
26	115	121	119	126	117	142	216	240	224	184	170	97
27	115	122	119	124	117	142	216	249	224	a184	170	97
28	116	122	119	132	117	145	212	249	224	184	168	97
29	119	124	122	134	-	149	200	230	226	180	168	97
30	117	126	128	134	-	159	196	224	226	174	168	97
31	117	-	124	121	-	188	-	220	-	174	168	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,500	119	102	113	6,940
November	3,736	134	117	125	7,410
December	4,007	149	119	129	7,950
Calendar year 1941	51,655	249	85	142	102,400
January	3,657	134	89	118	7,250
February	3,398	130	113	121	6,740
March	4,302	188	117	139	8,530
April	7,386	444	196	246	14,650
May	6,617	249	184	213	13,120
June	6,049	228	159	202	12,000
July	6,114	230	174	197	12,130
August	5,458	190	168	176	10,830
September	3,501	166	97	117	6,940
Water year 1941-42	57,725	444	89	158	114,500

a No gage-height record; discharge interpolated.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942. May 1897 to October 1899 at site 1 mile upstream.

Average discharge.- 29 years (1912-16, 1917-42), 247 second-feet.

Extremes.- 1940-41: Maximum discharge during water year, 584 second-feet (revised) Mar. 4 (gage height, 5.70 feet); minimum recorded, 48 second-feet July 16; minimum gage height recorded, 2.58 feet June 28.

1941-42: Maximum discharge during water year, 726 second-feet Apr. 15 (gage height, 6.06 feet); minimum, 5 second-feet July 31, from rating curve extended below 40 second-feet.

1897-99, 1911-42: Maximum discharge, more than 2,000 second-feet sometime during period May 13 to June 14, 1917; minimum, that of July 31, 1942.

Remarks.- Records good except those for November 1940 to January 1941 and those for periods of ice effect during water year 1941-42, which are fair. Many diversions above station for irrigation. Flow regulated by storage reservoir near Chesterfield.

Revisions.- Revised figures of discharge for the water year 1940-41, superseding those published in Water-Supply Paper 933, are given herein.

Discharge, in second-feet, 1940-42
1940-41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	112	106	218	218	191	378	369	369	133	80	78	108
2	115	104	210		218	438	378	378	132	71	77	106
3	112	100	205	b175	210	478	378	378	122	71	80	104
4	115	97	202		218	562	369	388	111	72	79	100
5	111	101	202		191	520	378	388	126	69	75	108
6	104	98	204		207	456	369	369	122	69	75	112
7	102	98	204		197	416	360	360	130	66	71	115
8	101	96	202		*199	398	340	340	145	69	83	118
9	104	97	202		208	388	331	331	151	63	102	116
10	102	97	199	b200	205	369	360	313	154	58	100	106
11	102	100	189		234	340	388	322	126	57	106	108
12	102	112			295	313	388	340	138	58	104	109
13	104	108	(*)		340	295	388	360	130	58	109	100
14	101	126			350	277	408	360	125	60	109	102
15	93	133		207	360	266	416	360	134	60	104	108
16	96	172	b175	210	331	268	408	331	133	53	102	109
17	97	196		218	277	277	408	286	123	71	116	105
18	97	200		194	268	313	408	252	125	71	130	100
19	96	204	210	192	277	350	406	243	111	76	111	96
20	95	202	199	191	295	369	388	218	108	75	106	92
21	95	200	207	194	331	378	378	166	105	82	104	88
22	93	199	210	194	340	360	376	162	97	80	100	91
23	93	194	199	199	360	360	378	144	87	79	108	101
24	91	189	218	199	376	369	388	132	83	79	105	106
25	89	186	260	*199	408	350	398	133	a76	79	104	118
26	98	192	243	205	418	340	408	142	a70	89	104	116
27	109	192	234	202	418	350	418	164	a64	92	108	113
28	119	192	252	196	398	340	396	162	h57	89	106	108
29	109	197	243	189	-	360	378	154	60	80	109	105
30	105	207	234	191	-	369	369	144	71	75	113	105
31	105	-	226	192	-	369	-	136	-	75	112	-

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
h Computed from staff-gage readings.

Discharge, in second-feet, of Portneuf River at Pocatello, Idaho, 1940-42--Continued

1941-42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	108	156	210	183	295	b250	378	418	304	133	41	60
2	111	163	226	207	277	b250	408	398	286	119	43	62
3	111	180	268		286	252	428	378	260	104	43	60
4	112	192	304		277	252	489	369	243	104	35	62
5	111	189	313		286	260	594	398	252	111	30	62
6	112	180	277		286	260	638	408	243	100	56	62
7	118	174	260		*295	260	660	398	210	88	55	59
8	126	168	252		304	260	638	378	210	86	58	58
9	130	164	243		295	268	616	378	199	82	59	58
10	127	*164	243		286	*277	594	408	210	74	63	55
11	130	175	243		277	331	616	428	197	73	72	57
12	127	188	*243		277	369	638	448	183	68	83	92
13	122	186	252	b250	268	398	660	448	157	67	60	112
14	118	186	252		260	418	704	448	158	63	52	115
15	119	204	260		252	418	704	418	162	67	42	113
16	119	218	268		268	418	704	438	166	60	60	108
17	118	234	286		252	378	660	438	158	60	54	111
18	118	*243	295		200	350	638	428	138	60	66	109
19	127	243	286			331	616	428	126	62	50	120
20	132	234	277			322	616	408	129	53	41	116
21	132	218	277			313	638	408	127	48	47	116
22	132	218	277			313	682	438	125	42	46	113
23	144	b210	268		b250	340	682	468	122	34	58	112
24	142	b200	260	*b265		360	660	478	115	48	50	109
25	144	205	260	b280		369	616	489	106	52	48	111
26	152	207	252	b300		340	573	478	119	49	55	111
27	156	210	234	b300		322	531	458	134	41	56	115
28	156	210	252	313		322	500	418	136	43	57	113
29	158	210	243	322	-	331	478	378	119	59	58	108
30	164	210	268	313	-	340	448	340	133	52	60	102
31	157	-	260	295	-	360	-	322	-	34	60	-

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.

Monthly discharge, in second-feet, 1940-42

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1940	3,167	119	89	102	6,280
November	4,497	207	97	150	8,920
December	6,397	260	-	206	12,690
Calendar year 1940	58,966	449	25	162	117,000
January 1941	6,090	218	-	196	12,080
February	8,122	418	191	290	16,110
March	11,422	562	268	368	22,660
April	11,533	418	331	384	22,880
May	8,345	388	132	269	16,550
June	3,349	154	57	112	6,640
July	2,228	92	53	71.9	4,420
August	3,090	130	71	99.7	6,130
September	3,173	118	88	106	6,290
Water year 1940-41	71,413	562	53	196	141,600
October 1941	4,033	164	108	130	8,000
November	5,939	243	156	198	11,780
December	8,109	313	210	262	16,080
Calendar year 1941	75,433	562	53	207	149,600
January 1942	8,028	322	-	259	15,920
February	7,441	304	-	266	14,760
March	10,032	418	250	324	19,900
April	17,807	704	378	594	35,320
May	12,936	489	322	417	25,660
June	5,227	304	106	174	10,370
July	2,136	133	34	68.9	4,240
August	1,658	83	30	53.5	3,290
September	2,761	120	55	92.0	5,480
Water year 1941-42	86,107	704	30	236	170,800

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942. October 1911 to August 1914 at site 1¼ miles upstream.

Extremes.- Maximum discharge observed during year, 24 second-feet May 24-26 (gage height, 1.08 feet); minimum observed, 6.4 second-feet Oct. 12.
1911-14, 1937-42: 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 trans-mountain canal to Devil Creek in Bear River Basin.

Cooperation.- Gage-height record furnished by Western States Utility Co., in connection with a Federal Power Commission project.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	6.9	7.1	6.9	6.9	6.7	7.5	11	18	12	9.3	8.4
2	6.5	6.9	7.1	6.9	6.9	6.7	7.9	11	18	11	9.3	8.4
3	6.5	7.3	7.1	7.1	6.9	6.7	7.9	11	17	11	9.3	8.4
4	6.5	7.3	7.1	7.1	6.9	6.7	9.0	11	17	11	9.0	8.4
5	6.7	7.1	7.1	6.9	6.9	6.7	9.3	11	17	11	9.0	8.4
6	6.7	6.9	6.9	7.1	6.9	6.7	9.6	11	18	11	9.0	8.4
7	6.7	6.9	7.3	6.9	6.9	6.7	9.9	12	17	11	9.0	8.4
8	6.5	6.9	7.3	6.9	6.9	6.7	9.9	12	16	11	9.0	8.4
9	6.5	7.1	7.5	6.9	6.9	6.7	10	12	16	11	9.0	8.2
10	6.5	7.1	7.1	6.9	6.9	6.7	11	12	16	11	9.0	8.2
11	6.5	7.1	7.1	6.9	6.7	6.7	12	13	15	11	8.7	8.2
12	6.4	7.1	7.1	6.9	6.7	6.7	13	13	15	11	8.7	9.3
13	6.5	7.1	7.1	6.9	6.7	6.9	13	13	14	11	8.7	8.2
14	6.5	6.9	7.1	6.9	6.7	6.9	13	13	14	11	8.7	8.2
15	6.5	6.9	6.9	6.9	6.7	6.9	12	13	13	11	8.7	8.2
16	6.5	6.7	6.9	6.9	6.7	6.9	13	13	13	11	8.7	8.2
17	6.5	6.9	6.9	6.9	6.7	6.7	13	14	13	11	8.7	8.2
18	6.7	6.9	6.9	6.9	6.9	6.7	13	15	13	10	8.7	8.2
19	6.7	6.9	6.9	6.9	7.1	6.7	13	16	13	11	8.7	8.2
20	6.7	6.9	6.9	6.9	7.1	6.7	13	16	13	11	8.7	8.2
21	6.7	6.7	6.9	6.9	6.9	7.1	14	18	13	10	8.7	8.2
22	6.7	6.9	6.9	6.9	6.7	6.7	14	21	13	9.9	8.7	8.2
23	6.7	6.9	6.9	6.9	6.7	6.9	14	21	12	9.9	8.7	8.2
24	6.7	6.9	6.9	6.9	6.7	7.1	13	23	12	9.9	8.7	8.2
25	6.7	6.9	6.9	6.9	6.7	6.9	13	23	12	9.6	8.7	8.2
26	6.7	7.1	6.9	6.9	6.7	7.1	13	24	13	9.6	8.7	8.2
27	6.7	7.1	6.9	6.9	6.7	7.1	12	20	13	9.6	8.7	8.2
28	6.7	7.1	6.9	7.1	6.7	7.1	11	20	12	9.3	8.4	8.2
29	6.7	6.9	6.9	6.9	-	7.3	11	19	12	9.3	8.4	8.2
30	6.9	7.1	6.9	6.9	-	7.3	11	19	12	9.3	8.4	8.2
31	6.9	-	6.9	6.9	-	7.3	-	18	-	9.3	8.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	205.2	6.9	6.4	6.62	407
November	209.4	7.3	6.7	6.98	415
December	217.3	7.5	6.9	7.01	431
Calendar year 1941	2,894.2	26	5.2	7.93	5,740
January	214.7	7.1	6.9	6.93	426
February	190.8	7.1	6.7	6.81	378
March	212.7	7.3	6.7	6.86	422
April	346.0	14	7.5	11.5	686
May	479	24	11	15.5	950
June	430	18	12	14.3	853
July	325.7	12	9.3	10.5	646
August	272.4	9.3	8.4	8.79	540
September	248.7	8.4	8.2	8.29	493
Water year 1941-42	3,351.9	24	6.4	9.18	6,650

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

North Side Minidoka Canal near Minidoka, Idaho

Location.- Water-stage recorder, lat. 41°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 Minikoka.

Records available.- May 1909 to September 1942.

Extremes.- Maximum discharge during year, 1,720 second-feet July 8-16; maximum gage height, 9.91 feet July 9-12, 15; no flow during winter.
1909-42: Maximum discharge, that of July 8-16, 1942; maximum gage height, that of July 9-12, 15, 1942; 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	421						0	822	1,290	1,340	1,660	1,210
2	425						0	871	1,290	1,520	1,630	1,210
3	444						0	875	1,290	1,610	1,630	1,210
4	471						0	937	1,290	1,610	1,630	1,210
5	461						0	978	1,330	1,610	1,630	1,210
6	441						0	978	1,450	1,610	1,610	1,210
7	441						0	981	1,550	1,650	1,550	1,210
8	439						0	1,040	1,600	1,710	1,520	1,210
9	444						0	1,160	1,610	1,720	1,510	1,210
10	461						0	1,230	1,610	1,720	1,500	1,110
11	540						0	1,240	1,610	1,720	1,500	1,040
12	556						0	1,060	1,610	1,720	1,500	1,000
13	578						0	837	1,620	1,720	1,500	941
14	664						0	835	1,620	1,720	1,500	868
15	710						0	835	1,620	1,720	1,500	764
16	704						0	835	1,620	1,720	1,500	718
17	640						0	835	1,620	1,680	1,510	718
18	578						85	835	1,610	1,670	1,580	718
19	512						139	835	1,620	1,680	1,610	720
20	473						235	835	1,610	1,680	1,610	720
21	266						401	958	1,610	1,670	1,610	720
22	0						432	1,130	1,590	1,670	1,610	720
23	0						435	1,240	1,540	1,670	1,620	722
24	0						434	1,290	1,530	1,670	1,620	722
25	0						498	1,290	1,530	1,680	1,560	724
26	0						540	1,290	1,410	1,680	1,500	724
27	0						582	1,290	1,290	1,680	1,440	722
28	0						632	1,290	1,260	1,680	1,360	746
29	0						650	1,290	1,250	1,680	1,330	799
30	0						718	1,300	1,250	1,680	1,330	822
31	0						-	1,300	-	1,680	1,260	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,669	710	0	344	21,160
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1941	212,117	1,610	0	581	420,700
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	5,781	718	0	193	11,470
May	32,520	1,300	822	1,049	64,500
June	44,730	1,620	1,250	1,491	88,720
July	51,570	1,720	1,340	1,664	102,300
August	47,420	1,660	1,260	1,530	94,060
September	27,628	1,210	718	921	54,800
Water year 1941-42	220,318	1,720	0	604	437,000

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge during year, 1,340 second-feet June 9; maximum gage height, 6.00 feet Aug. 8; no flow during winter.

1909-42: 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 and four discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	293						0	319	741	1,030	1,280	1,130
2	290						0	320	886	1,210	1,280	1,140
3	319						0	319	1,030	1,290	1,230	1,160
4	361						0	280	1,160	1,280	1,240	1,150
5	353						0	253	1,220	1,260	1,240	1,150
6	320						0	288	1,220	1,310	1,240	1,140
7	306						0	342	1,260	1,310	1,260	1,150
8	283						0	405	1,320	1,310	1,270	1,140
9	328						0	407	1,340	1,310	1,260	1,100
10	387						0	480	1,320	1,310	1,250	1,020
11	409						0	574	1,320	1,300	1,240	964
12	399						0	419	1,320	1,300	1,240	863
13	340						0	273	1,280	1,300	1,240	755
14	403						0	239	1,260	1,300	1,240	771
15	474						0	281	1,270	1,300	1,240	755
16	240						0	117	1,240	1,300	1,240	720
17	0						0	0	1,200	1,290	1,260	699
18	0						0	0	1,160	1,290	1,270	610
19	0						0	0	1,140	1,290	1,250	564
20	0						0	130	1,090	1,280	1,240	535
21	0						0	315	1,070	1,290	1,260	498
22	0						0	326	1,060	1,290	1,260	450
23	0						0	430	1,060	1,290	1,230	414
24	0						0	445	1,060	1,290	1,230	463
25	0						179	492	1,100	1,300	1,240	508
26	0						315	517	1,080	1,290	1,230	478
27	0						310	598	916	1,270	1,210	430
28	0						306	694	732	1,280	1,210	426
29	0						313	738	707	1,290	1,180	492
30	0						315	741	787	1,290	1,180	540
31	0						-	744	-	1,260	1,150	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,505	474	0	178	10,920
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1941	159,093	1,300	0	436	315,540
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	1,738	315	0	57.9	3,450
May	11,466	744	0	371	22,780
June	33,399	1,340	707	1,113	66,250
July	39,730	1,310	1,030	1,282	78,800
August	38,390	1,280	1,150	1,238	76,150
September	23,215	1,160	414	774	46,050
Water year 1941-42	153,463	1,340	0	420	304,400

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 19 years (1911-14, 1928-42), 39.2 second-feet.

Extremes.- Maximum discharge during year, 401 second-feet May 27 (gage height, 4.31 feet); minimum, 3.8 second-feet Sept. 8 (gage height, 1.42 feet).
1911-16, 1919-42: Maximum discharge, 744 second-feet Mar. 18, 1939, from rating curve extended above 400 second-feet by logarithmic plotting; maximum gage height, 5.6 feet Feb. 21, 1927 (ice effect); 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 periods of ice effect or no gage-height record, which are fair. Diversions above station for irrigation. Flow of artesian well, completed in 1935, enters below. Practically entire flow passing station is stored in Oakley Reservoir.

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

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	20	27				200	164	242	44	10	6.3
2	13	22	28				152	161	221	42	9.6	5.1
3	13	27	29				118	148	207	40	8.8	4.7
4	13	29	30				130	144	205	38	8.5	4.2
5	14	28	27			27	148	147	212	36	8.2	4.2
6	14	26					140	142	191	35	8.0	4.2
7	14	25					129	135	174	31	7.7	4.5
8	14	28					128	130	167	30	7.4	4.2
9	14	26	24		(*)	*42	135	136	164	30	7.1	4.0
10	15	*25				47	147	153	158	25	7.1	4.2
11	14	25				72	158	175	144	19	6.8	4.5
12	15	25	27			158	172	205	140	17	7.1	4.9
13	14	25	*27			184	194	238	132	15	7.4	5.3
14	15	23	27			a135	207	258	122	15	7.1	5.6
15	15	23	27			a100	229	279	113	13	6.8	5.3
16	15	23	28	23	24	a70	246	292	109	11	6.6	5.3
17	15	25	29			57	246	294	104	11	6.6	5.3
18	15	27	30			57	242	283	97	11	6.8	5.8
19	16	27	30			55	242	279	92	12	7.1	6.3
20	16	25	30			50	227	277	87	18	6.0	6.6
21	17	23	30			50	214	272	79	29	5.8	6.8
22	19		27			78	214	277	65	26	5.6	7.1
23	19					134	227	303	60	23	5.3	7.4
24	19					a165	258	340	56	20	5.1	7.1
25	19	22				a110	272	364	46	19	5.1	7.1
26	19		24			a80	250	388	47	a16	5.1	7.1
27	19					a60	223	388	55	13	5.3	7.1
28	19	25				75	203	364	58	12	5.3	6.8
29	20	25			-	115	194	340	53	12	5.3	7.1
30	20	28			-	170	177	296	46	12	5.3	7.4
31	20	-			-	193	-	268	-	11	5.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	497	20	13	16.0	986
November	737	29	-	24.6	1,460
December	813	30	-	26.2	1,610
Calendar year 1941	10,580.5	95	7.0	29.0	21,000
January	713	-	-	23	1,410
February	672	-	-	24	1,330
March	2,473	193	-	79.8	4,910
April	5,822	272	118	194	11,550
May	7,640	388	130	246	15,150
June	3,646	242	46	122	7,230
July	686	44	11	22.1	1,360
August	209.1	10	5.1	6.76	415
September	170.5	7.4	4.0	5.68	338
Water year 1941-42	24,078.6	388	4.0	66.0	47,750

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of partly estimated gage heights and records for nearby stations and Oakley Reservoir.
Note.- Stage-discharge relation affected by ice Nov. 22-27, Dec. 6-11, Dec. 23 to Mar. 8 (no gage-height record Dec. 27 to Feb. 8, Feb. 10 to Mar. 8; discharge computed on basis of one discharge measurement, weather records, and records for nearby stations and Oakley Reservoir).
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum contents observed, 40,000 acre-feet June 8 (gage height, 100.3 feet); minimum observed, 872 acre-feet Oct. 4 (gage height, 15.12 feet).

1912-42: 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 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	-	-	-	7,970	-	15,000	-	38,200	-	-	15,200
2	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	6,240	-	9,940	-	-	-	-	22,800	-
4	872	-	-	-	-	-	-	-	-	-	-	-
5	-	-	4,420	-	8,340	-	-	27,800	-	35,500	-	-
6	-	-	-	-	-	-	16,500	-	-	-	-	-
7	-	2,630	-	-	-	-	16,700	-	-	-	-	13,700
8	-	-	-	6,520	8,550	-	-	-	40,000	-	-	-
9	-	-	-	-	-	10,400	17,100	-	-	-	-	-
10	-	2,820	-	-	8,700	-	-	-	-	-	21,900	-
11	-	-	-	-	-	-	-	29,400	-	-	-	-
12	1,180	-	4,880	-	8,880	-	-	-	-	-	-	-
13	-	-	4,950	-	-	-	18,600	-	39,500	33,000	-	-
14	-	3,080	-	6,760	-	-	-	29,900	-	-	-	12,000
15	-	-	-	-	9,060	-	-	-	39,400	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-
17	1,390	-	-	-	-	-	-	-	-	-	19,500	-
18	-	-	-	-	9,250	-	21,200	32,100	-	30,700	-	-
19	-	-	5,390	-	-	12,300	21,600	-	-	29,800	-	-
20	-	-	-	-	-	-	-	-	-	-	18,700	-
21	-	3,520	-	-	-	-	-	33,200	-	-	-	-
22	-	-	-	-	-	-	22,600	-	38,100	-	-	10,700
23	-	-	-	7,220	-	-	-	-	-	-	-	-
24	1,760	-	-	-	-	13,100	22,900	-	-	-	17,600	-
25	-	-	-	-	-	-	-	34,900	-	-	-	-
26	-	-	5,810	-	9,570	13,500	-	-	-	26,100	-	-
27	-	-	-	-	-	-	25,200	35,800	-	-	-	-
28	-	3,900	-	-	9,890	-	-	36,500	-	-	-	9,120
29	-	-	-	-	-	-	-	-	36,800	-	-	-
30	-	4,050	-	-	-	-	26,400	-	36,500	-	-	8,480
31	2,140	-	6,070	7,890	-	14,600	-	37,900	-	-	15,600	-

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 1942.

Average discharge.- 18 years (1911-12, 1913-14, 1926-42), 13.1 second-feet.

Extremes.- Maximum discharge during year, 58 second-feet Mar. 10 (gage height, 5.36 feet); minimum, 3.6 second-feet Nov. 23 (gage height, 4.65 feet).
1911-16, 1919-42: Maximum discharge recorded, 700 second-feet Aug. 17, 1941 (gage height, 6.99 feet), from rating curve extended above 50 second-feet (a higher flow may have occurred during cloud burst about midnight Aug. 15, 1931); minimum not determined, probably occurred during winter.

Remarks.- Records good. 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.- Gage-height record furnished by Oakley Canal Co.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Mar. 26 to June 13)

4.7	5.0	5.1	28
4.8	8.5	5.2	38
4.9	14	5.3	50
5.0	20		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.3	11	10	7.1			15	21	31	15	9.3	8.5
2	9.3	12	10	5.6			15	19	29	15	9.3	8.2
3	9.3	11	11				16	19	30	15	8.9	7.8
4	9.3	11	11				20	19	31	14	8.9	8.2
5	9.8	11	11			all	19	19	29	14	8.9	8.2
6	9.8	11	10				17	19	29	14	8.9	8.2
7	9.3	10	11				17	18	29	13	8.9	8.2
8	9.8	10	10				a19	19	29	13	8.5	8.2
9	9.3	9.8	10			19	a20	20	29	12	8.5	8.2
10	9.3	9.8	11			21	a21	23	28	12	8.2	8.5
11	9.3	9.8	10			17	a22	25	28	12	8.5	8.9
12	9.3	10	10			15	a23	26	25	12	8.9	9.3
13	9.8	10	9.8			14	25	25	26	12	8.5	8.9
14	9.3	10	9.8			12	28	25	25	11	8.9	8.5
15	9.3	9.8	9.8		a10	12	26	26	26	12	8.9	8.5
16	9.3	11	10	a10		12	24	30	25	12	8.5	8.5
17	9.3	11	10			11	26	27	23	11	8.2	8.2
18	9.3	11	11			11	25	27	22	11	8.2	8.5
19	9.3	10	11			11	22	29	21	11	8.2	8.5
20	9.8	10	11			11	22	29	21	10	8.2	8.5
21	10	9.3	10			11	25	29	21	9.8	8.2	8.2
22	9.8	9.3	10			11	27	31	19	9.8	8.2	8.2
23	9.8	7.5	10			12	27	36	19	9.3	8.2	8.2
24	9.8	10	11			12	26	39	18	9.8	8.5	8.2
25	10	9.8	10			11	25	38	18	9.3	8.5	7.8
26	9.8	9.8	8.2			11	25	40	20	9.3	8.5	7.8
27	9.8	10	7.5			11	23	39	20	9.3	8.5	7.8
28	11	10	11			11	22	38	18	9.3	8.9	8.5
29	11	10	11		-	12	21	37	16	9.3	8.9	8.9
30	11	11	10		-	13	20	35	16	8.9	8.9	8.9
31	10	-	10		-	15	-	32	-	9.3	8.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	300.5	11	9.3	9.69	596
November	305.9	12	7.5	10.2	607
December	316.1	11	7.5	10.2	627
Calendar year 1941	3,785.0	42	6.4	10.4	7,510
January	302.7	-	-	9.76	600
February	280	-	-	10	555
March	384	21	-	12.4	762
April	663	28	15	22.1	1,320
May	859	40	18	27.7	1,700
June	721	31	16	24.0	1,430
July	354.4	15	8.9	11.4	703
August	267.1	9.3	8.2	8.62	530
September	251.0	9.3	7.8	8.37	498
Water year 1941-42	5,004.7	40	-	13.7	9,930

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

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge during year, 63 second-feet on many days; no flow at times. 1919-42: 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 10 discharge measurements furnished by North Side Canal Co.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0					0	44	63	62	62	63
2		0					0	49	63	62	62	63
3		0					0	49	63	62	62	63
4		0					0	57	63	62	62	63
5		0					0	57	63	62	63	63
6		0					0	57	63	62	63	63
7		0					0	57	63	61	63	63
8		0					0	57	63	56	63	63
9		0					0	57	63	62	63	63
10		3					0	57	63	62	62	63
11		15					0	57	63	62	62	63
12		12					0	57	63	62	62	63
13		0					0	57	62	62	62	63
14		0					0	57	62	62	62	63
15		0					0	57	62	59	62	63
16		0					0	57	62	62	62	63
17		0					0	60	62	62	62	63
18		0					0	60	62	62	62	61
19		0					0	60	62	62	62	61
20		0					0	60	61	62	62	63
21		0					0	60	61	62	62	63
22		0					0	60	61	62	62	63
23		0					0	61	62	62	62	54
24		0					0	61	62	62	62	45
25		0					0	61	62	62	62	45
26		0					0	63	62	62	62	45
27		0					0	63	51	62	62	45
28		0					17	63	63	62	62	0
29		0					22	63	63	62	62	0
30		0					32	63	63	62	62	0
31		-					-	63	-	62	62	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	30	15	0	1.0	60
December	0	0	0	0	0
Calendar year 1941	9,331	63	0	25.6	18,520
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	71	32	0	2.4	141
May	1,804	63	44	58.2	3,580
June	1,861	63	51	62.0	3,690
July	1,912	62	56	61.7	3,790
August	1,927	63	62	62.2	3,820
September	1,616	63	0	53.9	3,200
Water year 1941-42	9,221	63	0	25.3	18,280

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Milner low-lift canal near Milner, Idaho

Location.- Water-stage recorder, lat. 42°31', long. 114°01', in sec. 32, T. 10 S., R. 21 E., 600 feet downstream from head of canal and 1½ miles south of Milner.

Records available.- June 1921 to September 1942.

Extremes.- Maximum discharge during year, 170 second-feet Aug. 8; maximum gage height, 3.46 feet Sept. 11; no flow on many days.
1921-42: Maximum discharge, 174 second-feet July 7, 1936 (gage height, 3.67 feet); 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5						0	128	121	148	168	165
2	0						0	126	122	151	169	165
3	0						0	124	121	163	169	165
4	0						0	143	121	163	169	165
5	0						0	150	120	161	169	165
6	0						0	150	120	165	169	163
7	0						0	150	124	165	169	165
8	0						0	150	128	165	170	165
9	0						0	150	133	158	168	165
10	0						0	150	145	160	168	165
11	0						0	150	145	160	167	165
12	0						0	57	145	163	167	158
13	0						0	0	145	163	169	150
14	0						0	20	145	163	168	150
15	0						0	57	145	163	156	150
16	0						0	104	146	164	166	150
17	0						0	90	146	166	165	150
18	0						0	100	145	167	165	132
19	0						0	107	167	167	165	125
20	0						0	108	167	167	165	126
21	0						0	116	158	167	165	116
22	0						20	124	146	167	164	110
23	0						37	124	146	167	164	116
24	0						50	124	146	167	163	87
25	0						50	136	146	167	163	76
26	0						50	151	146	157	164	76
27	0						77	152	140	167	165	75
28	0						100	151	127	167	165	75
29	0						112	135	127	167	165	75
30	0						124	123	137	167	165	70
31	0						-	123	-	167	165	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5	5	0	0.2	10
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1941	22,500	171	0	61.6	44,620
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	620	124	0	20.7	1,230
May	3,703	152	0	119	7,340
June	4,170	167	120	139	8,270
July	5,069	167	148	164	10,050
August	5,159	170	163	166	10,230
September	3,980	165	70	133	7,890
Water year 1941-42	22,706	170	0	62.2	45,020

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Gooding Canal at Milner, Idaho

Location.- Water-stage recorder on Milner-Gooding canal in SW¼ sec. 7 and differential recorder on control gates of North Side Canal Co. diversions in secs. 18 and 19, 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 1942.

Extremes.- Maximum daily discharge during year, 2,580 second-feet July 31, Aug. 1, 2; no flow on many days.
1939-42: Maximum daily discharge, that of July 31, Aug. 1, 2, 1942; 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. and American Falls Reservoir District No. 2.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	800	0					0	1,860	2,190	2,170	2,580	2,350
2	570	0					0	1,870	2,210	2,190	2,580	2,330
3	0	0					0	1,880	2,190	2,190	2,570	2,310
4	0	0					0	1,880	2,180	2,300	2,550	2,310
5	0	0					0	1,880	2,180	2,370	2,530	2,310
6	0	0					0	1,880	2,200	2,380	2,530	2,310
7	170	0					90	1,980	2,200	2,380	2,520	2,320
8	710	0					128	2,120	2,220	2,420	2,430	2,310
9	700	0					85	2,130	2,230	2,500	2,370	2,300
10	680	0					354	2,140	2,180	2,500	2,360	2,300
11	680	0					603	2,150	2,120	2,490	2,350	2,310
12	680	0					667	2,150	2,130	2,490	2,330	2,190
13	690	0					780	2,150	2,130	2,520	2,320	2,120
14	690	330					820	2,150	2,130	2,520	2,310	2,100
15	690	550					820	2,150	2,150	2,520	2,300	2,060
16	690	520					830	2,150	2,210	2,510	2,300	2,030
17	690	590					810	2,150	2,210	2,490	2,310	2,010
18	680	650					810	2,150	2,190	2,500	2,300	2,000
19	670	650					1,150	2,150	2,180	2,500	2,290	1,970
20	680	640					1,410	2,150	2,180	2,500	2,290	1,970
21	680	190					1,520	2,150	2,190	2,510	2,300	1,900
22	670	0					1,660	2,150	2,190	2,510	2,340	1,860
23	670	0					1,640	2,190	2,200	2,510	2,360	1,860
24	680	0					1,640	2,300	2,200	2,510	2,360	1,860
25	680	0					1,640	2,280	2,200	2,510	2,360	1,840
26	680	0					1,640	2,280	2,200	2,520	2,350	1,830
27	680	0					1,650	2,280	2,180	2,550	2,330	1,820
28	660	0					1,640	2,250	2,190	2,550	2,340	1,810
29	650	0					1,670	2,210	2,190	2,560	2,330	1,180
30	290	0					1,720	2,210	2,180	2,570	2,350	520
31	-	-					-	2,200	-	2,580	2,340	-

Month	Second-feet-days	Discharge in second-feet			Total run-off in acre-feet	Distribution (acre-feet)	
		Maximum	Minimum	Mean		To Milner-Gooding project	To North Side Canal Co. project
October	16,810	800	0	542	33,340	0	33,340
November	4,120	650	0	137	8,170	8,170	0
December	0	0	0	0	0	0	0
Calendar year 1941	342,820	2,380	0	939	679,960	422,600	257,360
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	25,777	1,720	0	859	51,130	18,470	32,660
May	65,620	2,300	1,860	2,117	130,160	77,000	53,160
June	65,530	2,230	2,120	2,184	129,980	77,870	52,110
July	76,320	2,580	2,170	2,462	151,380	95,700	55,680
August	73,880	2,580	2,290	2,383	146,540	89,850	58,690
September	60,390	2,350	520	2,013	119,780	67,240	52,540
Water year 1941-42	388,447	2,580	0	1,064	770,480	434,300	336,180

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge during year, 2,710 second-feet Aug. 5 (gage height, 8.12 feet); no flow on several days.

1909-42: 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 good prior to Apr. 1 and excellent thereafter. 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 the North Side Canal Co. system.

Cooperation.- Gage-height record and 16 discharge measurements furnished by North Side Canal Co.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	550	547	481	427	442	556	1,680	2,170	2,260	2,610	2,590
2	0	550	543	481	430	442	559	1,600	2,160	2,350	2,620	2,520
3	0	550	534	484	424	439	547	1,700	2,150	2,360	2,620	2,510
4	0	543	537	497	430	448	537	1,740	2,210	2,390	2,630	2,520
5	0	547	540	487	424	445	537	1,770	2,200	2,410	2,650	2,520
6	0	547	537	472	424	448	528	1,750	2,190	2,440	2,680	2,500
7	0	543	543	469	424	454	422	1,760	2,180	2,510	2,650	2,470
8	0	559	534	472	418	457	17	1,880	2,180	2,590	2,650	2,450
9	0	582	528	472	415	466	3	1,900	2,230	2,630	2,660	2,430
10	0	614	525	466	421	484	0	1,900	2,230	2,630	2,620	2,380
11	0	611	525	460	424	500	0	1,930	2,280	2,630	2,610	2,340
12	0	608	518	460	427	512	0	1,910	2,330	2,640	2,600	2,270
13	0	601	522	457	433	518	0	1,900	2,350	2,620	2,640	2,220
14	0	604	512	466	457	506	21	1,920	2,360	2,620	2,610	2,170
15	0	601	506	481	472	506	112	1,920	2,340	2,610	2,580	2,090
16	0	601	503	481	472	500	218	1,920	2,370	2,600	2,550	1,930
17	0	582	506	472	457	503	437	1,960	2,200	2,590	2,540	1,830
18	0	566	503	468	466	497	540	1,990	2,200	2,580	2,540	1,700
19	0	566	512	454	475	500	591	2,040	2,200	2,580	2,550	1,630
20	0	569	503	439	484	500	752	2,100	2,200	2,580	2,590	1,580
21	0	579	500	460	478	518	864	2,130	2,210	2,560	2,600	1,530
22	0	566	506	515	472	521	986	2,140	2,210	2,560	2,610	1,490
23	0	559	503	534	475	540	1,140	2,170	2,210	2,590	2,610	1,290
24	0	547	500	515	454	518	1,250	2,200	2,240	2,640	2,610	1,010
25	0	537	494	454	442	528	1,240	2,180	2,240	2,690	2,600	900
26	0	543	487	421	439	559	1,240	2,220	2,250	2,650	2,610	760
27	0	540	484	418	448	572	1,370	2,220	2,220	2,620	2,620	500
28	0	543	484	442	445	559	1,570	2,220	2,210	2,610	2,650	343
29	0	543	484	445	-	550	1,630	2,200	2,210	2,600	2,620	397
30	376	540	484	436	-	547	1,710	2,170	2,230	2,600	2,610	289
31	547	-	484	436	-	553	-	2,170	-	2,590	2,610	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	923	547	0	29.7	1,830
November	16,991	614	537	566	33,700
December	15,888	547	484	513	31,510
Calendar year 1941	420,738	2,640	0	1,153	834,500
January	14,493	534	418	468	28,750
February	12,457	484	415	445	24,710
March	15,532	572	439	501	30,810
April	19,377	1,710	0	646	38,430
May	61,290	2,220	1,600	1,977	121,600
June	66,990	2,370	2,160	2,233	132,900
July	79,330	2,690	2,260	2,559	157,300
August	80,950	2,680	2,540	2,611	160,600
September	53,159	2,590	289	1,772	105,400
Water year 1941-42	437,380	2,690	0	1,198	867,500

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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.

Records available.- May 1909 to September 1942.

Extremes.- Maximum discharge during year, 3,600 second-feet July 25 (gage height, 10.23 feet); minimum, 25 second-feet Apr. 1-4 (observer's field estimate).
1909-42: 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 December and February, which are good, and those for January and for periods of 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,210	472	616	546	550	559	280	2,720	2,670	3,030	3,570	3,360
2	1,210	780	616	554	541	550	a25	2,820	2,680	3,130	3,550	3,340
3	1,110	822	619	559	538	559	a25	2,760	2,680	3,230	3,550	3,310
4	1,060	828	622	565	501	553	234	2,770	2,710	3,260	3,530	3,250
5	1,060	706	616	571	464	553	568	2,760	2,720	3,260	3,530	3,220
6	1,070	400	619	553	467	571	568	2,730	2,740	3,320	3,540	3,220
7	1,060	541	616	553	481	562	580	2,780	2,840	3,400	3,530	3,220
8	1,070	652	616	542	481	550	700	2,840	2,970	3,480	3,520	3,180
9	1,010	646	616	558	473	550	809	2,850	2,990	3,500	3,520	3,150
10	975	649	616	565	484	550	889	2,890	3,010	3,460	3,520	3,140
11	996	691	616	560	478	547	982	2,930	3,060	3,470	3,530	3,020
12	1,010	716	616	565	473	541	1,100	2,920	3,110	3,470	3,500	2,840
13	1,010	713	616	566	492	523	1,160	2,890	3,160	3,450	3,540	2,770
14	1,030	710	616	563	529	526	1,240	2,900	3,130	3,460	3,530	2,660
15	1,040	713	616	558	535	526	1,340	2,890	3,110	3,480	3,520	2,530
16	1,050	716	619	573	538	529	1,430	2,900	3,130	3,480	3,500	2,440
17	1,050	729	616	593	529	526	1,500	2,830	3,100	3,460	3,510	2,330
18	1,050	713	616	600	529	526	1,500	2,840	3,050	3,480	3,490	2,250
19	1,050	668	613	581	536	523	1,550	2,880	3,040	3,480	3,500	2,180
20	992	619	613	546	555	523	1,640	2,900	3,030	3,480	3,520	2,150
21	869	589	616	516	556	523	1,810	2,920	3,030	3,480	3,520	2,010
22	796	571	613	594	555	520	2,140	2,970	3,020	3,500	3,520	1,830
23	806	568	619	590	549	526	2,200	2,990	3,020	3,530	3,530	1,790
24	806	571	625	588	550	520	2,210	2,980	3,010	3,560	3,530	1,730
25	761	574	619	536	551	515	2,290	2,940	2,990	3,590	3,540	1,700
26	700	568	619	517	554	506	2,350	2,930	3,010	3,590	3,520	1,710
27	243	601	518	549	557	498	2,460	2,930	3,010	3,580	3,500	1,690
28	a35	622	530	537	554	501	2,590	2,890	3,010	3,570	3,510	1,690
29	a35	613	575	532	-	484	2,660	2,770	3,040	3,550	3,480	1,700
30	a35	616	590	540	-	470	2,660	2,650	3,030	3,560	3,480	1,710
31	a35	-	592	544	-	490	-	2,630	-	3,580	3,460	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	26,244	1,210	35	847	52,050
November	19,377	828	400	646	38,430
December	18,845	622	518	608	37,380
Calendar year 1941	631,304	3,590	35	1,730	1,252,000
January	17,314	600	516	559	34,340
February	14,600	557	464	522	28,960
March	16,400	571	470	529	32,530
April	41,490	2,660	25	1,383	82,290
May	88,400	2,990	2,630	2,852	175,300
June	89,100	3,160	2,670	2,970	176,700
July	106,870	3,590	3,030	3,447	212,000
August	109,090	3,570	3,460	3,519	216,400
September	75,120	3,360	1,690	2,504	149,000
Water year 1941-42	622,850	3,590	25	1,706	1,235,000

a No gage-height record; discharge estimated by observer.
Note.- Stage-discharge relation affected by ice Dec. 27 to Jan. 31, Feb. 17-20, 22-28.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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. 16 E., at highway bridge, 3 miles upstream from mouth and 4 miles northwest of town of Twin Falls.

Records available.- March 1922 to September 1942.

Average discharge.- 20 years, 210 second-feet.

Extremes.- Maximum discharge during year, 491 second-feet Jan. 28 (gage height, 3.23 feet); minimum, 113 second-feet Apr. 3 (gage height, 1.87 feet).

1922-42: Maximum discharge, about 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 gage.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	259	177	185	279	246	164	132	205	301	207	218	251
2	256	216	187	288	223	158	117	214	282	200	223	251
3	251	223	192	327	238	155	113	214	273	200	226	265
4	256	212	185	310	243	164	137	236	270	196	228	259
5	259	202	181	307	207	168	128	202	265	195	226	262
6	251	198	177	304	212	170	153	205	246	194	226	265
7	254	181	175	304	181	170	158	200	246	202	226	268
8	254		177	321	170	170	164	194	251	202	221	259
9	251		181	341	162	170	177	196	238	200	218	259
10	248		179	314	155	168	181	198	230	200	221	259
11	254	a181	173	298	150	166	198	218	230	194	218	254
12	256		173	279	148	168	209	248	236	194	216	256
13	254		171	279	146	173	226	259	230	196	216	262
14	254		164	248	146	171	240	233	236	196	221	268
15	251	181	164	256	148	168	262	251	254	205	218	279
16	254	181	162	270	150	164	262	285	251	196	218	273
17	254	183	158	262	173	162	259	295	254	194	236	270
18	254	196	160	233	268	164	248	298	251	196	223	262
19	256	187	160	218	304	160	246	298	243	202	221	256
20	256	181	160	221	273	155	240	292	238	205	221	270
21	259	183	160	226	248	153	236	292	243	205	226	270
22	251	191	157	233	221	152	246	292	243	202	223	262
23	243	177	158	236	230	150	270	304		198	226	265
24	238	177	153	226	223	150	285	352		198	228	265
25	236	177	150	250	207	142	270	374		200	230	256
26	230	179	148	262	216	140	256	386	a230	205	233	254
27	230	183	177	324	196	142	251	394		212	233	256
28	223	190	295	398	181	143	238	378		216	238	259
29	198	187	295	279	-	143	214	367	218	218	238	265
30	190	185	276	240	-	142	192	345	214	218	240	262
31	181	-	251	248	-	137	-	317	-	216	243	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,561	259	181	244	15,000
November	5,604	223	-	187	11,120
December	5,684	295	148	183	11,270
Calendar year 1941	69,403	348	92	190	137,700
January	8,561	398	218	276	16,980
February	5,655	304	146	202	11,220
March	4,904	173	137	158	9,730
April	6,308	285	113	210	12,510
May	8,542	394	194	276	16,940
June	7,323	301	-	244	14,520
July	6,263	218	194	202	12,420
August	6,999	243	216	226	13,880
September	7,853	273	251	262	15,580
Water year 1941-42	81,257	398	113	223	161,200

a No gage-height record; discharge interpolated.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Salmon Falls Creek near San Jacinto, Nev.

Location.- Water-stage recorder, lat. 41°57', long. 114°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 1942.

Average discharge.- 28 years (1910-16, 1919-20, 1921-42), 121 second-feet.

Extremes.- Maximum discharge during year, 1,370 second-feet Apr. 15 (gage height, 7.91 feet); minimum, 14 second-feet Sept. 28 (gage height, 2.35 feet).
1909-16, 1918-42: Maximum discharge, 1,760 second-feet Mar. 18, 1939 (gage height, 9.23 feet); minimum, 5.3 second-feet Aug. 17, 1940 (gage height, 2.16 feet).

Remarks.- Records good except those for periods of no gage-height record, which are fair. Many diversions above station for irrigation. Salmon Dam of Salmon River Canal Co., Ltd., 15 miles below station, forms a reservoir having a capacity of about 180,000 acre-feet.

Cooperation.- Gage-height record furnished by Salmon River Canal Co., Ltd.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	60	66	54	72		345	562	760	a187	36	22
2	29	66	66	51	72		403	522	688	a173	26	22
3	28	66	67	57	77	a80	429	482	646	a159	27	22
4	30	67	70	54	77		495	442	674	a145	29	22
5	38	66	70		78		618	429	618	a132	29	21
6	39	63	69		76	93	760	403	604	a118	28	20
7	41	62	67		80	86	861	378	590	a104	31	20
8	42	62	67		80	101	803	365	590	a90	29	19
9	42	61	66		80	158	788	368	618	76	28	18
10	42	60	63		72	174	832	403	646	78	26	18
11	41	60	65		80	154	920	455	646	74	29	18
12	41	60	66		77	219	980	562	618	69	37	18
13	41	60	65		71	318	1,100	632	576	65	50	18
14	42	58	66	a55	57	272	1,190	660	522	64	29	17
15	43	58	66		54	210	1,340	660	482	63	27	17
16	44	60	67			156	1,280	702	455	60	29	16
17	45	63	67			130	1,190	745	416	59	19	16
18	45	65	69			121	1,160	716	385	58	19	17
19	45	66	69			109	a1,090	688	362	53	19	18
20	51	62	69			104	a1,020	660	342	54	19	19
21	52	53	70		a65	102	a960	632	322	53	18	21
22	51	54	69			107	890	632	313	50	18	21
23	52	51	66	62		121	950	674	289	48	18	21
24	52	66	65	61		195	1,010	774	262	46	19	22
25	52	60	52	63		223	950	980	244	44	21	22
26	52	60	48	67		172	861	1,130	237	44	21	21
27	53	60	55	74		139	774	1,160	249	42	21	18
28	55	66	63	84		130	702	1,160	237	42	21	16
29	56	63	63	81	-	139	646	1,070	221	36	21	16
30	56	65	65	67	-	186	604	980	201	33	22	16
31	57	-	62	75	-	274	-	861	-	35	22	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,386	57	28	44.7	2,750
November	1,833	67	51	61.1	3,640
December	2,018	70	48	65.1	4,000
Calendar year 1941	31,227	308	14	85.6	61,940
January	1,840	84	-	59.4	3,650
February	1,950	80	-	69.6	3,870
March	4,591	274	-	148	9,110
April	25,951	1,340	345	865	51,470
May	20,887	1,160	365	674	41,430
June	13,813	760	201	460	27,400
July	2,354	187	33	75.9	4,670
August	788	50	18	25.4	1,560
September	572	22	16	19.1	1,130
Water year 1941-42	77,983	1,340	16	214	154,700

a No gage-height record; discharge computed on basis of weather records and records for nearby stations.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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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 1942.

Extremes.- Maximum contents observed during year, 94,820 acre-feet June 11-16 (gage height, 50.40 feet); minimum observed, 4,322 acre-feet Oct. 1-11 (gage height, 3.35 feet).
1922-42: 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., Ltd.

Contents, in acre-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,322	4,660	7,068	9,822	12,420	15,150	22,780	68,000	90,000	88,000	56,000	31,530
2	4,322	4,795	7,140	9,895	12,570	15,450	23,200	68,920	90,750	87,250	55,200	31,360
3	4,322	4,930	7,212	9,968	12,640	15,450	23,960	69,850	91,500	86,500	54,500	31,360
4	4,322	4,998	7,358	10,040	12,710	15,600	24,820	70,770	92,270	85,770	53,400	31,360
5	4,322	5,132	7,502	10,110	12,930	15,680	25,580	71,460	92,780	85,050	52,400	31,360
6	4,322	5,200	7,648	10,110	13,080	15,820	26,600	72,150	93,290	84,330	51,400	31,360
7	4,322	5,268	7,720	10,180	13,290	15,900	27,620	72,150	93,540	83,370	50,600	30,510
8	4,322	5,335	7,792	10,260	13,440	16,050	28,980	72,380	93,800	82,410	49,600	29,490
9	4,322	5,470	7,865	10,330	13,580	16,200	30,340	72,610	94,310	81,450	48,600	28,640
10	4,322	5,538	7,938	10,400	13,660	16,350	31,880	72,610	94,310	80,010	47,800	27,790
11	4,322	5,605	8,010	10,480	13,730	16,650	33,550	72,610	94,820	79,050	46,800	26,940
12	4,390	5,672	8,155	10,550	13,800	16,950	35,030	72,610	94,820	77,900	45,800	26,260
13	4,390	5,740	8,228	10,690	13,950	17,400	36,700	73,070	94,820	76,750	44,600	25,920
14	4,458	5,808	8,300	10,840	14,100	17,920	38,540	73,300	94,820	75,600	43,600	25,920
15	4,458	5,875	8,372	10,910	14,180	18,300	40,760	73,990	94,820	74,450	42,620	25,920
16	4,525	5,942	8,445	10,980	14,320	18,700	43,000	74,450	94,820	73,300	41,500	25,920
17	4,525	6,010	8,590	11,060	14,320	19,100	45,600	74,910	94,310	72,150	40,400	25,920
18	4,592	6,078	8,735	11,130	14,400	19,420	48,000	75,370	94,060	71,230	39,470	25,920
19	4,660	6,145	8,808	11,200	14,400	19,580	50,000	76,060	93,800	70,080	38,360	25,750
20	4,728	6,212	8,880	11,200	14,480	19,740	52,000	76,750	93,290	69,160	37,250	25,750
21	4,862	6,280	8,952	11,270	14,550	19,900	54,000	77,210	92,780	68,000	36,320	25,580
22	4,930	6,348	9,098	11,270	14,550	20,060	55,200	77,670	92,520	66,900	35,400	25,580
23	4,998	6,415	9,170	11,340	14,850	20,220	56,800	78,130	92,270	66,040	34,290	25,580
24	5,065	6,482	9,242	11,420	14,850	20,380	58,400	78,590	91,760	64,960	33,180	25,580
25	5,132	6,550	9,315	11,490	14,850	20,620	60,240	79,050	91,250	63,880	32,070	25,580
26	5,200	6,550	9,315	11,560	14,920	20,940	61,960	80,250	90,750	62,820	31,700	25,580
27	5,200	6,622	9,388	11,780	14,920	21,260	63,460	82,170	90,000	61,530	31,700	25,580
28	5,200	6,695	9,460	11,920	15,000	21,500	64,740	84,330	89,500	60,460	31,700	25,580
29	5,268	6,840	9,532	12,140	-	21,840	66,040	86,010	89,000	59,380	31,700	25,580
30	4,862	6,918	9,605	12,220	-	22,010	67,110	87,750	88,750	58,300	31,700	25,580
31	4,525	-	9,605	12,350	-	22,180	-	89,000	-	57,230	31,530	-

Monthly gage height and contents, water year October 1941 to September 1942

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	3.30	4,255	-
Oct. 31	3.50	4,525	+270
Nov. 30	5.25	6,918	+2,393
Dec. 31	7.10	9,605	+2,687
Calendar year 1941	-	-	+6,025
Jan. 31	9.00	12,350	+2,745
Feb. 28	10.80	15,000	+2,650
Mar. 31	15.40	22,180	+7,180
Apr. 30	38.80	67,110	+44,930
May 31	48.10	89,000	+21,890
June 30	48.00	88,750	-250
July 31	34.20	57,230	-31,520
Aug. 31	20.90	31,530	-25,700
Sept. 30	17.40	25,580	-5,950
Water year 1941-42	-	-	+21,325

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Extremes.- Maximum discharge during year, 583 second-feet July 10-12, 26; maximum gage height, 7.44 feet July 26; no flow during long periods.
1937-42: Maximum discharge, that of July 10-12, 26, 1942; maximum gage height, that of July 26, 1942; no flow during long periods in each year.

Remarks.- Records good. 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., Ltd.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0							0	240	400	451	0
2	0							0	236	400	420	0
3	0							0	240	400	430	0
4	0							0	249	410	451	0
5	0							101	267	430	440	0
6	0							276	285	484	451	286
7	0							240	303	539	451	390
8	0							240	330	550	451	410
9	0							240	370	572	462	410
10	0							258	400	583	484	410
11	0							312	430	583	484	400
12	0							330	440	572	495	288
13	0							350	451	561	495	0
14	0							340	451	561	495	0
15	0							321	462	561	495	0
16	0							330	462	550	495	0
17	0							330	462	528	495	0
18	0							312	451	517	506	0
19	0							294	440	506	506	0
20	0							294	430	506	506	0
21	0							285	410	517	506	0
22	0							285	410	517	517	0
23	0							285	390	528	517	0
24	0							285	390	528	517	0
25	0							285	410	539	336	0
26	0							161	400	561	0	0
27	0							0	390	572	0	0
28	172							0	390	561	0	0
29	192							153	390	550	0	0
30	75							192	390	495	0	0
31	0							216	-	473	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	439	192	0	14.2	871
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1941	18,016	539	0	49.4	35,730
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	6,715	350	0	217	13,320
June	11,369	462	236	379	22,550
July	16,054	583	400	518	31,840
August	11,856	517	0	382	23,520
September	2,594	410	0	86.5	5,150
Water year 1941-42	49,027	583	0	134	97,250

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SW¼ 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 1942.

Average discharge.- 27 years, 280 second-feet.

Extremes.- Maximum discharge during year, 2,520 second-feet June 8 (gage height, 5.82 feet); minimum, 1 second-foot Feb. 11, 13 (gage height, 0.66 foot).

1915-42: Maximum discharge, 4,480 second-feet June 7, 1938; maximum gage height, 8.66 feet June 12, 1921; practically no flow Sept. 15-23, Nov. 20, 22, 23, 1931, Oct. 25, 1937.

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.- Gage-height record collected in cooperation with and one discharge measurement furnished by watermaster for Big Wood and Little Wood Rivers.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1-14, Mar. 31 to Apr. 22, July 20 to Sept. 30)

0.7	2	2.2	187	4.0	1,040
1.0	8	2.6	306	4.5	1,400
1.4	36	3.0	470	5.0	1,800
1.8	100	3.5	725	5.7	2,410

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	6	30	6	4	4	20	580	1,080	1,080	185	15
2	11	6	61	4	3	4	69	540	1,040	1,180	182	12
3	11	6	253	4	4	4	77	497	1,110	1,250	168	9
4	14	12	241	a4	3	4	106	502	1,250	1,320	161	9
5	23	11	182	4	3	4	124	479	1,440	1,320	161	9
6	23	12	112	3	4	3	145	456	1,680	1,280	124	9
7	22	9	76	3	3	3	180	461	2,130	1,220	71	49
8	20	9	62	a3	3	3	235	510	2,410	1,140	61	92
9	20	10	64	a3	3	4	324	590	2,410	1,010	59	6
10	20	8	72	a4	2	4	506	698	2,130	910	55	6
11	17	7	36	a4	2	3	659	676	1,880	845	53	6
12	14	6	8	a4	2	4	815	642	1,600	725	53	5
13	6	5	8	4	3	4	975	600	1,440	670	44	5
14	6	6	19	4	2	4	1,080	565	1,360	605	35	5
15	5	72	20	3	3	3	942	585	1,400	632	28	5
16	5	159	18	4	4	4	845	580	1,440	595	26	4
17	5	150	15	5	4	4	845	555	1,250	540	23	4
18	5	137	16	4	38	4	785	540	1,250	497	24	4
19	4	81	14	3	55	3	815	525	1,220	452	19	35
20	8	16	19	2	6	3	942	550	1,110	408	17	5
21	7	22	23	3	7	3	1,250	755	975	359	16	5
22	6	20	8	3	5	4	1,480	1,220	942	343	17	4
23	4	8	8	3	4	4	1,250	1,880	1,010	328	16	4
24	4	9	7	4	4	4	1,040	1,840	1,140	306	16	4
25	4	20	7	5	3	4	942	1,840	1,180	250	16	4
26	4	24	5	4	3	4	815	2,220	1,110	213	33	35
27	5	20	4	5	3	4	725	2,000	975	205	15	5
28	6	20	5	4	3	6	703	1,640	845	203	16	5
29	6	20	8	4	-	6	648	1,400	815	197	18	5
30	6	17	9	3	-	8	590	1,280	975	192	20	5
31	5	-	7	4	-	11	-	1,180	-	185	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	304	23	4	9.8	603
November	908	159	5	30.3	1,800
December	1,417	253	4	45.7	2,810
Calendar year 1941	89,221	1,680	1	244	177,000
January	117	6	2	3.8	232
February	183	55	2	6.5	363
March	131	11	3	4.2	260
April	19,932	1,480	20	664	39,530
May	28,386	2,220	456	916	56,300
June	40,597	2,410	815	1,353	80,520
July	20,460	1,320	185	660	40,580
August	1,748	185	15	56.4	3,470
September	370	92	4	12.3	734
Water year 1941-42	114,553	2,410	2	314	227,200

a No gage-height record; discharge interpolated.

Combined discharge, in second-feet, of Big Wood River and Big Wood Slough at Hailey, Idaho, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	198	200	180	171	173	155	201	738	1,250	1,310	383	203
2	201	199	215	169	166	155	231	704	1,220	1,430	370	196
3	199	199	429	169	170	155	270	655	1,320	1,450	354	190
4	202	211	357	169	172	154	310	650	1,480	1,530	337	187
5	213	210	272	184	167	154	333	626	1,670	1,520	333	184
6	210	208	226	183	173	153	354	618	1,880	1,480	326	183
7	208	201	213	182	166	142	387	642	2,330	1,400	310	175
8	204	197	198	181	160	150	434	702	2,620	1,320	300	185
9	201	198	198	180	165	158	522	800	2,610	1,180	290	182
10	200	195	206	180	146	158	704	921	2,310	1,060	286	188
11	197	193	184	179	146	159	864	883	2,050	1,020	284	188
12	195	192	170	178	155	158	1,010	843	1,790	899	284	189
13	196	192	177	178	151	161	1,170	794	1,620	853	275	186
14	194	200	193	177	153	157	1,290	749	1,550	797	274	179
15	192	268	198	175	149	147	1,130	763	1,590	844	259	174
16	187	277	198	175	155	151	1,040	755	1,620	808	249	170
17	187	260	196	175	154	155	1,060	730	1,440	763	246	173
18	187	249	202	173	158	168	990	720	1,450	699	247	182
19	184	214	200	171	155	154	1,020	723	1,400	645	234	177
20	207	169	206	169	156	147	1,160	751	1,280	602	222	192
21	209	173	211	169	167	153	1,460	955	1,130	569	220	197
22	204	170	166	167	158	161	1,710	1,340	1,130	541	215	191
23	194	148	170	177	157	166	1,460	1,950	1,230	520	210	190
24	194	149	183	178	157	162	1,240	1,990	1,350	490	210	192
25	196	163	171	185	155	158	1,140	2,030	1,370	446	210	192
26	196	165	165	178	155	152	993	2,430	1,290	418	210	193
27	195	163	140	179	154	151	895	2,180	1,140	404	205	193
28	210	164	127	179	154	162	865	1,820	1,030	401	208	187
29	210	167	183	174	-	169	805	1,580	1,010	395	212	185
30	207	168	184	150	-	176	741	1,440	1,210	386	219	186
31	201	-	182	162	-	186	-	1,330	-	377	214	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,178	213	184	199	12,250
November	5,862	277	148	195	11,630
December	6,290	429	127	203	12,480
Calendar year 1941	154,583	1,890	104	424	306,600
January	5,416	185	150	175	10,740
February	4,437	173	146	158	8,800
March	4,887	186	142	158	9,690
April	25,789	1,710	201	860	51,150
May	33,807	2,430	613	1,091	67,060
June	46,370	2,620	1,010	1,546	91,970
July	26,557	1,530	377	857	52,680
August	8,196	383	205	264	16,260
September	5,590	203	170	186	11,090
Water year 1941-42	179,379	2,620	127	491	355,800

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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., 1¾ 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 1942 (no winter records except 1941).

Extremes.- Maximum discharge during year, 1,820 second-feet June 9 (gage height, 3.69 feet); minimum recorded, 54 second-feet Sept. 16 (gage height, 1.40 feet).
1911-42: 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. Many diversions above station for irrigation.

Cooperation.- Gage-height record and six discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	81	107	96				154	660	975	697	110	76
2	81	107	113				189	661	903	750	113	69
3	76	107	221			a85	216	574	939	786	121	62
4	76	110	340				276	583	966	840	118	60
5	79	115	271				346	542	1,040	876	113	60
6	81	113	216			86	328	517	1,150	903	104	58
7	81	110	202			86	287	517	1,370	849	96	58
8	81	107	181			88	281	558	1,700	768	91	58
9	79	107	170			91	328	608	1,760	634	83	58
10	79	104	174			91	434	687	1,700	534	79	58
11	79	104	166			91	617	714	1,640	501	76	60
12	83	104	158			91	741	696	1,280	449	81	60
13	86	104	162			96	894	669	1,060	379	79	60
14	88	110	170			96	1,010	626	966	359	76	58
15	91	115	174			86	966	626	1,000	399	76	58
16	91	124	174			81	894	617	1,040	399	76	56
17	88	144	185			81	894	600	912	365	79	58
18	88	134	189			81	857	566	849	334	79	62
19	88	131	185			83	849	550	822	292	81	62
20	99	138	185			83	930	550	741	221	81	a62
21	113	134	185			81	1,140	643	669	177	76	a62
22	113	134	170			83	1,310	858	583	161	81	a62
23	107	134	147			88	1,260	1,280	626	144	91	a62
24	104	131	154			91	1,110	1,460	714	134	88	h62
25	107	131	147			91	984	1,460	750	144	86	a62
26	107	99	138			88	894	1,700	723	128	86	a62
27	104	91				88	831	1,700	634	115	81	a62
28	110	91				99	786	1,510	574	118	79	a62
29	116	93	a135			104	741	1,320	509	113	79	a62
30	110	96				113	687	1,200	583	101	81	a62
31	107	-				124	-	1,140	-	104	81	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,872	115	76	92.6	5,700
November	3,429	144	91	114	6,800
December	5,348	340	96	173	10,610
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	2,786	124	81	89.9	5,530
April	21,244	1,310	154	708	42,140
May	26,382	1,700	517	851	52,330
June	29,178	1,760	509	973	57,870
July	12,754	903	101	411	25,300
August	2,721	121	76	87.8	5,400
September	1,833	76	56	61.1	3,640
Water year	-	-	-	-	-

a No gage-height record; discharge interpolated or computed on basis of records for nearby stations.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Magic Reservoir near Richfield, Idaho

Location.- Staff gage at dam on Big Wood River, lat. 43°15', long. 114°22', in NE¼SE¼ sec. 18, T. 2 S., R. 18 E., 18 miles northwest of Richfield. Datum of gage is referred to 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 1942.

Extremes.- Maximum contents during year, 193,100 acre-feet May 24, June 8-10 (gage height, 4,935.4 feet); minimum, 111,100 acre-feet Oct. 1 (gage height, 4,909.7 feet).
1909-42: Maximum contents, those of May 24, June 8-10, 1942; 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 4,821.4 feet (2.9 feet above bottom of outlet pipe) and 4,935.0 feet (top of flashboards, 5 feet above crest of spillway). Dead storage unknown. Water is used for irrigation of lands in Carey Act project of Big Wood Canal Co. Figures given herein represent usable contents. Contents computed from morning gage reading.

Cooperation.- Gage-height record and capacity table furnished by watermaster for Big Wood and Little Wood Rivers.

Contents, in acre-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	111,100	117,600	121,700	134,200	139,800	145,300	136,200	191,500	191,500	189,500	169,400	137,700
2	111,400	117,900	121,900	134,500	140,100	145,600	137,100	191,500	191,500	189,500	168,000	136,800
3	111,400	118,200	122,500	134,500	140,100	145,600	138,300	191,500	191,500	189,900	166,900	136,200
4	111,600	118,400	123,300	134,800	140,400	145,900	139,500	191,500	191,500	190,300	165,500	135,700
5	111,900	118,400	123,800	135,100	140,700	145,900	141,600	191,500	191,900	190,300	164,400	134,800
6	112,100	118,700	124,400	135,100	141,000	146,200	145,000	191,500	192,300	190,700	163,400	134,200
7	112,100	119,000	124,900	135,400	141,000	146,600	149,700	191,500	192,700	191,500	162,400	133,600
8	112,400	119,200	125,500	135,400	141,300	146,600	155,300	191,500	193,100	191,500	161,000	132,800
9	112,600	119,500	125,800	135,700	141,600	146,900	162,000	191,500	193,100	191,500	160,000	131,900
10	112,900	119,800	126,000	136,000	141,900	147,200	168,700	191,500	193,100	191,500	158,600	131,400
11	112,900	120,000	126,600	136,000	142,200	147,500	174,400	191,500	192,300	191,100	157,600	130,500
12	113,200	120,300	126,900	136,200	142,500	147,800	184,100	191,900	191,900	189,900	156,300	129,700
13	113,200	120,300	127,400	136,500	142,500	148,100	188,000	191,900	191,500	189,500	154,900	128,800
14	113,400	120,600	127,700	136,500	142,800	148,500	190,700	191,900	191,500	188,800	154,000	128,300
15	113,400	120,900	128,300	136,800	143,100	148,500	191,500	191,900	191,500	188,400	153,000	127,400
16	113,700	121,100	128,500	137,100	143,100	148,800	191,500	191,500	191,900	187,600	152,000	126,300
17	113,900	121,400	129,100	137,100	143,500	148,100	191,100	191,500	191,900	186,800	151,000	125,500
18	114,200	121,700	129,700	137,400	143,500	147,200	190,700	191,500	191,900	186,100	149,700	124,700
19	114,200	121,900	129,900	137,400	143,500	146,200	191,500	191,500	191,900	185,300	148,800	123,800
20	114,500	122,200	130,500	137,400	143,800	145,300	191,900	191,100	191,500	184,100	147,800	123,000
21	114,700	121,900	130,800	137,400	143,800	144,100	191,900	191,100	191,500	183,000	146,900	122,200
22	115,000	121,400	131,400	137,700	144,100	143,500	192,300	191,500	191,100	181,900	145,900	121,400
23	115,300	120,900	131,600	137,700	144,400	142,500	192,300	192,300	190,700	180,700	145,000	120,600
24	115,500	120,300	132,200	138,000	144,700	141,600	192,300	193,100	190,300	179,600	144,100	120,000
25	115,800	120,300	132,500	138,000	144,700	140,700	191,900	192,700	190,700	178,100	143,100	119,200
26	116,000	120,600	132,800	138,600	145,000	139,800	191,500	192,700	190,700	177,000	142,500	118,400
27	116,000	120,900	133,300	138,600	145,000	138,900	191,500	192,700	190,700	175,900	141,600	117,900
28	116,300	121,100	133,300	138,900	145,300	138,000	191,500	192,300	190,300	174,400	140,700	117,100
29	116,800	121,400	133,300	139,200	-	137,400	191,500	191,900	189,900	173,000	139,800	116,300
30	117,100	121,400	133,600	139,200	-	136,500	191,500	191,500	189,500	171,500	138,900	115,800
31	117,400	-	134,200	139,500	-	135,400	-	191,500	-	170,400	138,300	-

Monthly gage height and contents, water year October 1941 to September 1942

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	109.7	111,100	-
Oct. 31	112.1	117,400	+6,300
Nov. 30	113.6	121,400	+4,000
Dec. 31	118.2	134,200	+12,800
Calendar year 1941	-	-	+38,640
Jan. 31	120.0	139,500	+5,300
Feb. 28	121.9	145,300	+5,800
Mar. 31	118.6	135,400	-9,900
Apr. 30	135.0	191,500	+56,100
May 31	135.0	191,500	0
June 30	134.5	189,500	-2,000
July 31	129.4	170,400	-19,100
Aug. 31	119.6	138,300	-32,100
Sept.30	111.5	115,800	-22,500
Water year 1941-42	-	-	+4,700

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 30 years (1912-42), 384 second-feet.

Extremes.- Maximum discharge during year, 2,680 second-feet Apr. 15 (gage height, 7.47 feet); minimum, 12 second-feet Nov. 25 to Dec. 17, Jan. 2-5, 18, 19, 23; minimum gage height, 1.45 feet Feb. 22.

1911-42: Maximum discharge, 5,610 second-feet Apr. 21, 1938 (gage height, 11.55 feet); no flow Feb. 3, 1915.

Remarks.- Records good. Many ranch diversions in upper drainage area. Flow regulated by Magic Reservoir (see preceding page).

Cooperation.- Gage-height record and five discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	13	12	13	14	15	16	1,140	1,470	733	760	470
2	13	13	12	12	14	15	16	1,170	1,280	733	766	460
3	13	13	12	12	14	15	16	1,110	1,080	728	760	450
4	13	13	12	12	14	15	16	1,140	1,060	728	744	450
5	14	13	12	12	14	14	16	1,110	1,140	728	733	450
6	14	13	12	15	14	15	16	1,030	1,280	733	728	450
7	14	14	12	13	14	14	16	992	1,560	772	700	450
8	14	14	12	13	14	14	16	1,010	2,010	816	684	450
9	14	14	12	13	14	15	17	1,020	2,190	799	684	455
10	14	14	12	13	14	16	19	1,060	2,250	777	684	480
11	14	14	12	13	14	15	542	1,030	2,070	794	656	490
12	14	13	12	13	14	15	1,530	1,060	1,800	777	645	495
13	14	13	12	13	14	15	2,190	1,080	1,420	733	640	500
14	14	13	12	13	14	15	2,430	1,080	1,110	706	612	480
15	13	13	12	13	14	15	2,620	1,060	1,080	716	596	470
16	13	14	12	13	14	294	2,490	1,030	1,080	728	601	470
17	13	13	12	13	14	645	2,070	1,030	1,110	755	584	485
18	13	14	13	12	14	640	1,500	1,010	1,140	799	579	490
19	13	14	13	12	14	640	1,440	970	1,010	816	579	490
20	13	97	13	13	14	640	1,560	876	936	816	579	490
21	13	426	13	13	14	640	1,660	722	909	788	568	490
22	13	435	13	13	14	640	1,770	716	865	772	562	480
23	13	426	13	12	14	634	1,800	1,470	865	794	568	470
24	13	172	13	13	15	634	1,770	1,890	821	804	574	470
25	13	12	13	13	15	634	1,690	2,070	804	804	552	465
26	13	12	13	14	15	634	1,360	2,190	799	804	540	465
27	13	12	13	14	15	634	1,250	2,190	799	799	530	470
28	13	12	13	14	15	628	1,220	2,130	772	799	510	475
29	13	12	13	14	-	628	1,140	1,950	738	788	510	480
30	13	12	13	14	-	623	1,110	1,620	733	760	510	195
31	13	-	13	14	-	240	-	1,560	-	744	485	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	413	14	13	13.3	819
November	1,883	435	12	62.8	3,730
December	386	13	12	12.5	766
Calendar year 1941	105,458	1,110	10	289	209,200
January	402	14	12	13.0	797
February	397	15	14	14.2	787
March	9,650	645	15	311	19,140
April	33,196	2,620	16	1,107	65,840
May	39,516	2,190	716	1,275	78,380
June	36,181	2,250	733	1,206	71,760
July	23,843	816	706	769	47,290
August	19,223	766	485	620	38,130
September	13,885	500	195	463	27,540
Water year 1941-42	176,975	2,620	12	490	355,000

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Big Wood River at Gooding, Idaho

Location.- Water-stage recorder, lat. 42°57', long. 114°43', in NE¼NE¼ 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 1942, except for winters.

Extremes.- Maximum discharge during year, 2,040 second-feet Apr. 15 (gage height, 6.05 feet); no flow for long periods.
1921-42: Maximum discharge recorded, 3,900 second-feet Apr. 23, 1938 (gage height, 8.48 feet), from rating curve extended above 3,200 second-feet; no flow for long periods in each year.

Remarks.- Records good. Many diversions above and below station for irrigation. Flow regulated by Magic Reservoir (see p. 95) and affected by deliveries from Milner-Gooding canal which diverts from Snake River.

Cooperation.- Gage-height record and six discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-					-	169	618	775	56	78	61
2	h8					-	52	708	662	54	76	62
3	-					-	47	708	491	47	78	61
4	-					-	51	708	327	42	83	57
5	-					-	60	708	301	36	85	54
6	-					-	51	662	353	49	85	52
7	-					-	52	515	463	53	83	51
8	-					-	70	439	775	58	78	52
9	-					-	61	447	1,050	62	73	54
10	-					-	53	431	1,240	73	61	54
11	-					-	39	459	1,180	74	58	54
12	0					-	34	463	1,020	80	58	64
13	-					-	1,370	475	730	85	54	64
14	-					-	1,830	451	467	94	60	48
15	-					-	1,970	435	208	92	49	49
16	-					-	1,970	431	177	98	51	49
17	-					-	1,830	423	211	87	48	49
18	-					41	1,550	423	217	78	45	53
19	-					256	1,020	392	223	70	41	62
20	-					266	970	338	164	72	41	64
21	-					269	1,020	243	108	78	42	66
22	-					273	1,160	136	98	73	43	64
23	-					280	1,360	74	87	67	43	49
24	-					280	1,330	340	76	62	51	42
25	-					269	1,240	995	66	67	53	39
26	-					256	1,020	1,130	64	72	56	36
27	-					239	895	1,210	61	73	53	35
28	-					236	798	1,210	64	74	54	34
29	-					249	752	1,180	72	81	60	37
30	-					266	640	f1,000	70	80	64	32
31	-					290	-	f800	-	73	64	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 18-31	3,470	290	41	248	6,880
April	23,464	1,970	34	782	46,540
May	18,552	1,210	74	598	36,800
June	11,300	1,240	61	393	23,400
July	2,160	98	36	69.7	4,280
August	1,868	85	41	60.3	3,710
September	1,546	66	32	51.6	3,070
Water year	-	-	-	-	-

f Fragmentary gage-height record; discharge computed from partly estimated gage heights.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Big Wood River near Gooding, Idaho

Location.- Water-stage recorder, lat. 42°54', long. 114°48', in sec. 21, T. 6 S., R. 14 E., at Hudson Ranch, 2 miles downstream from bridge on Bliss-Gooding highway, 3½ 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 1942 (no winter records 1922-37, fragmentary 1942).

Extremes.- Maximum discharge during year, 1,890 sedond-feet Apr. 16 (gage height, 7.04 feet); minimum recorded, 0.1 second-foot Oct. 10 (gage height, 0.22 foot).
1916-42: Maximum discharge, 3,810 second-feet Apr. 23, 1938, from rating curve extended above 3,200 second-feet; maximum gage height, 9.00 feet Mar. 17, 1922; probably no flow at times in each year.

Remarks.- Records good. Diversions above and below station for irrigation. Flow regulated by Magic Reservoir (see p. 95) and affected by deliveries from canals diverting from Snake River at Milner.

Cooperation.- Gage-height record for April to September and five discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers; gage-height record October to March furnished by North Side Canal Co., Ltd.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82	48	116		90	-	387	649	851	56	36	65
2	63	52	118		86	-	283	762	762	36	36	63
3	47	58	120		88	-	258	814	619	22	37	66
4	32	54	119		149	47	293	814	445	18	40	46
5	29	56	119		166	44	323	851	376	14	42	43
6	27	52	91		166	56	279	779	398	23	39	37
7	30	54	88		193	50	240	649	445	26	41	40
8	31	56	109		144	58	236	535	664	36	41	48
9	12	58	135		99	64	200	535	1,020	39	43	65
10	1	60	125		84	95	120	522	1,200	52	36	64
11	2	61	125		77	241	68	562	1,200	46	43	70
12	61	62	119		-	241	52	576	1,020	40	43	81
13	77	58	120		-	184	1,010	604	762	40	35	93
14	83	56	118		-	155	1,620	576	535	43	45	78
15	91	56	116		-	110	1,770	548	304	41	40	100
16	82	56	122		-	93	1,810	548	166	52	36	100
17	66	56	135		-	75	1,770	535	225	41	33	92
18	52	56	130		-	88	1,430	535	251	30	34	91
19	52	79	164		-	216	1,070	495	236	26	23	100
20	50	195	220	†40	-	293	977	422	225	34	22	119
21	50	240	179		-	303	1,000	323	155	36	22	125
22	50	225	128		-	323	1,150	205	139	40	25	116
23	50	154	110		-	323	1,340	109	119	34	26	93
24	50	143	106		-	334	1,370	205	113	26	30	56
25	49	234	76		-	323	1,280	954	91	26	36	61
26	48	231	-		-	334	1,120	1,120	88	31	39	54
27	47	155	-		-	323	954	1,230	83	36	36	54
28	45	135	-		-	323	851	1,280	87	39	34	48
29	41	110	-		-	303	796	1,260	87	40	42	54
30	41	118	-		-	365	696	1,150	77	40	58	52
31	44	-	-		-	422	-	890	-	35	64	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,505	91	1	48.5	2,990
November	3,028	240	48	101	6,010
December 1-25	3,108	220	76	124	6,160
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February 1-11	1,342	193	77	122	2,660
March 4-31	5,786	422	44	207	11,480
April	24,753	1,810	52	825	49,100
May	21,037	1,280	109	679	41,730
June	12,743	1,200	77	425	25,280
July	1,098	56	14	35.4	2,180
August	1,157	64	22	37.3	2,290
September	2,174	125	37	72.5	4,310
Water year	-	-	-	-	-

† Discharge measurement.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Warm Springs Creek at Guyer Hot Springs near Ketchum, Idaho

Location.- Water-stage recorder, lat. 43°41', long. 114°25', in NE¼ sec. 15, T. 4 N., R. 17 E., at Guyer Hot Springs, 2 1/8 miles upstream from mouth and 2.2 miles west of Ketchum. Prior to Mar. 8, 1942, staff gage at same site and datum.

Drainage area.- 96 square miles.

Records available.- November 1940 to September 1942. 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, 516 second-feet May 25 (gage height, 2.89 feet); minimum recorded, 17 second-feet Mar. 20 (gage height, 0.88 foot).
1940-42: Maximum discharge, that of May 25, 1942; minimum recorded, that of Mar. 20, 1942.

Remarks.- Records good except those Oct. 1 to Mar. 7, Apr. 21-29, which are fair. Diversions above and below station for irrigation. Gage read once daily prior to Mar. 8.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a36	a37	34	a31	a35	a33	45	124	240	143	52	35
2	a36	36	a50	a31	a34	a33	50	114	240	141	52	34
3	a37	a40	a70	31	a33	33	60	110	258	137	50	34
4	38	44	a60	a32	33	a33	68	108	284	135	49	33
5	a38	a42	a50	a34	a35	a33	66	106	311	128	49	34
6	a38	a41	45	a35	a37	33	69	108	336	122	48	35
7	a38	a39	a43	37	39	35	74	120	388	116	47	34
8	38	a38	a41	40	a37	32	91	141	420	110	47	34
9	a37	36	39	a39	a36	33	108	174	412	104	45	34
10	a36	36	a39	38	a34	33	155	195	368	98	44	35
11	a36	a36	39	a37	33	33	182	174	322	95	43	35
12	35	36	39	a36		33	217	162	284	89	43	35
13	a35	a40	a39	a36		33	240	150	261	86	41	35
14	a34	a45	a39	35		33	258	141	249	84	42	34
15	34	a50	a39	a36		31	203	143	258	86	41	33
16	a36	54	39	a36		31	184	139	246	79	40	33
17	a37	a50	a38	37		32	187	137	225	75	40	34
18	a38	a46	a38	a33		35	172	132	217	72	41	35
19	a40	a42	a38	a30		31	182	139	208	70	38	35
20	42	a38	37	26		30	228	167	192	69	38	35
21	a40	34	a32	a29	d35	32	a250	222	179	66	37	34
22	38	a34	26	32		33	a300	328	169	64	37	33
23	a39	a34	a27	a32		34	a250	428	169	63	36	33
24	a39	a33	a28	33		34	a225	416	169	62	36	32
25	40	a33	a30	a33		33	a200	472	172	60	37	32
26	37	33	31	a34		31	h182	448	164	58	37	32
27	a38	a33	a31	a34		31	a167	400	157	57	36	32
28	40	a33	a31	34		34	a153	342	146	56	37	32
29	38	33	a31	a34	-	35	a138	300	139	56	35	32
30	a38	a34	a31	a35	-	37	124	280	141	54	37	32
31	38	-	31	35	-	41	-	255	-	53	36	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,164	42	34	37.5	2,310
November	1,160	54	33	38.7	2,300
December	1,185	70	26	38.2	2,350
Calendar year 1941	26,662	382	20	73.0	52,890
January	1,055	40	26	34.0	2,090
February	947	-	-	33.8	1,880
March	1,028	41	30	33.2	2,040
April	4,828	300	45	161	9,580
May	6,675	472	106	215	13,240
June	7,324	420	139	244	14,530
July	2,688	143	53	86.7	5,330
August	1,291	52	35	41.6	2,560
September	1,010	35	32	33.7	2,000
Water year 1941-42	30,355	472	-	83.2	60,210

a Mo gage-height record; discharge interpolated or computed on basis of records for nearby stations.
d Doubtful gage-height record; discharge interpolated.
h Computed from staff-gage readings.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Big Wood Slough at Hailey, Idaho

Location.- Water-stage recorder, lat. 43°31', 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 1942.

Average discharge.- 27 years, 116 second-feet.

Extremes.- Maximum discharge during year, 280 second-feet May 26 (gage height, 3.47 feet); minimum, 11 second-feet May 23 (gage height, 1.33 feet).

1915-42: Maximum discharge observed, 419 second-feet June 6, 1921, from rating curve extended above 280 second-feet; maximum gage height, 5.55 feet (elevation of 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, equals the total flow of river at this point.

Cooperation.- Gage-height record collected in cooperation with and one discharge measurement furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	190	194	150	a165	169	h151	181	158	169	231	198	188
2	190	193	154		163	a151	162	164	182	247	188	184
3	188	193	176		166	a151	193	158	215	196	186	181
4	188	199	116		169	a150	204	148	231	209	176	178
5	190	199	90	h180	164	a150	209	147	231	205	172	175
6	187	196	114	a180	169	150	209	157	199	201	202	174
7	186	192	137	a179	163	139	207	181	199	184	239	126
8	184	188	136	a178	157	147	199	192	205	180	239	93
9	181	188	134	a177	162	154	198	210	201	168	231	176
10	180	187	134	a176	144	154	198	223	176	151	231	182
11	180	186	148	a175	144	156	205	207	170	172	231	182
12	181	186	162	a174	153	154	193	201	190	174	231	184
13	190	187	169	h174	148	157	199	194	176	a183	231	181
14	188	194	174	a173	151	153	207	184	166	192	239	174
15	187	196	178	a172	146	144	192	178	194	212	231	169
16	182	118	180	a171	151	147	190	175	180	213	223	166
17	182	110	181	a170	a150	151	210	175	186	223	223	169
18	182	112	186	a169	a120	164	205	160	201	202	223	178
19	180	133	186	a168	a100	151	204	198	182	193	215	142
20	199	153	187	a167	a150	144	215	201	175	194	205	187
21	202	151	188	166	a150	150	215	204	157	210	204	192
22	198	150	158	164	h153	157	231	124	184	198	198	187
23	190	140	162	174	a153	162	205	66	223	192	194	186
24	190	140	176	174	a153	158	198	151	210	184	194	188
25	192	143	164	180	a152	154	194	187	193	196	194	188
26	192	141	a150	174	a152	148	178	212	182	205	177	158
27	190	143	a136	174	a151	147	170	164	169	199	190	188
28	204	144	h122	175	a151	156	162	181	190	198	192	182
29	204	147	a175	170	-	163	157	181	193	198	194	181
30	201	151		147	-	168	151	163	231	194	199	181
31	196	-		158	-	175	-	151	-	192	198	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,874	204	180	189	11,650
November	4,954	199	110	165	9,830
December	4,873	188	90	157	9,670
Calendar year 1941	65,359	239	90	179	129,500
January	5,299	180	147	171	10,510
February	4,254	169	100	152	8,440
March	4,756	175	139	153	9,430
April	5,841	231	151	195	11,590
May	5,435	223	66	175	10,780
June	5,780	231	157	193	11,460
July	6,096	247	151	197	12,090
August	6,448	239	172	208	12,790
September	5,220	192	93	174	10,350
Water year 1941-42	64,830	247	66	178	128,600

a No gage-height record; discharge computed on basis of weather records and records for nearby stations.
h Computed from staff gage readings.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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, 2¼ miles upstream from backwater of Magic Reservoir, and 4 miles southeast of Blaine.

Drainage area.- 618 square miles.

Records available.- May 1912 to September 1942, except for winters. Discharge measurements only for 1922.

Extremes.- Maximum discharge during year, 4,400 second-feet sometime between Mar. 23 and Apr. 14 (gage height, 11.14 feet); minimum recorded, 2.4 second-feet (gage height, 1.00 foot).

1912-42: Maximum discharge recorded, 8,690 second-feet about Apr. 18, 1938 (gage height, 15.48 feet, from floodmark), from rating curve extended above 6,000 second-feet; minimum recorded, 1.5 second-feet Aug. 29, 1940.

Remarks.- Records good. Many small diversions above station; no appreciable regulation.

Cooperation.- Gage-height record and two discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.9					-	-	474	304	28	3.8	3.3
2	6.6					-	-	474	275	28	3.4	3.1
3	-					-	-	460	252	25	3.4	3.3
4	-					-	-	460	243	24	3.4	3.1
5	-					-	-	474	236	23	3.3	3.0
6	-					-	-	530	230	22	3.0	3.0
7	-					-	-	530	221	20	3.0	3.1
8	-					-	-	432	230	19	2.8	3.0
9	-					-	-	418	a226	18	2.8	3.1
10	-					-	-	405	a223	16	2.8	3.1
11	-					-	-	365	h219	14	2.8	3.0
12	-					-	-	336	a204	14	2.8	3.0
13	-					-	-	336	a188	15	2.8	3.0
14	-					-	1,820	334	a172	14	2.8	3.1
15	-					-	1,620	336	a156	14	2.8	2.8
16	-					-	1,240	329	a140	14	2.8	2.8
17	-					†54	1,100	311	125	13	2.8	3.0
18	-					-	895	284	112	10	2.8	3.0
19	-					-	948	263	97	9.2	3.0	3.1
20	-					-	790	254	85	9.0	3.1	3.0
21	-					-	678	247	76	8.2	3.1	3.1
22	-					-	603	250	64	8.4	3.1	2.8
23	-					†54	603	279	54	8.4	3.3	2.8
24	-					-	560	306	49	7.1	3.3	2.8
25	†9.7					-	488	318	43	6.0	3.3	2.8
26	-					-	432	331	40	5.3	3.1	2.7
27	-					-	405	331	38	4.9	3.3	2.7
28	-	†11				-	405	334	37	4.8	3.3	2.8
29	-					-	405	321	34	4.8	3.4	2.7
30	-					-	460	326	30	4.6	3.3	2.8
31	-	-				-	-	326	-	4.1	3.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December	-				
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 14-30	13,452	1,820	405	791	26,680
May	11,174	530	247	360	22,160
June	4,403	304	30	147	8,730
July	415.8	28	4.1	13.4	825
August	96.0	3.8	2.8	3.10	190
September	88.9	3.3	2.7	2.96	176
The period	-	-	-	-	58,760

† Result of discharge measurement.
a No gage-height record; discharge interpolated.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942 (prior to 1937, irrigation seasons only).

Extremes.- Maximum discharge during year, 226 second-feet June 18; maximum gage height, 2.71 feet Sept. 16; no flow for long periods.
1925-42: 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. 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 gage.

Cooperation.- Gage-height record and 10 discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0					0	156	203	162	156	134
2		0					0	156	199	164	153	134
3		0					0	154	h198	176	154	134
4		0					0	154	h199	182	156	138
5		0					0	153	h201	162	157	139
6		0					0	151	a208	179	159	139
7		0					0	150	a214	179	161	139
8		0					0	150	h214	192	159	138
9		0					0	153	a209	189	161	136
10		0					0	153	210	187	162	138
11		0					0	153	206	179	156	138
12		0					0	153	201	181	144	144
13		0					0	153	191	179	144	150
14		0					0	153	182	176	144	151
15		0					0	153	205	181	139	151
16		0					0	153	223	191	140	157
17		0					91	151	223	192	138	153
18		0					145	150	223	192	139	150
19		0					140	150	217	187	140	151
20		0					153	157	214	189	139	151
21		121					161	169	214	186	136	145
22		133					161	186	210	176	133	139
23		138					157	199	196	176	138	142
24		79					156	215	184	177	146	144
25		0					154	212	164	176	148	144
26		0					148	210	164	172	148	140
27		0					146	210	162	174	150	144
28		0					146	210	167	176	142	148
29		0					150	208	161	172	140	146
30		0					154	203	162	165	138	106
31		-					-	205	-	157	138	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	471	138	0	15.7	934
December	0	0	0	0	0
Calendar year 1941	25,574	212	0	70.1	50,730
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	2,062	161	0	68.7	4,090
May	5,283	215	150	170	10,480
June	5,924	223	161	197	11,750
July	5,546	192	157	179	11,000
August	4,558	162	133	147	9,040
September	4,263	157	106	142	8,460
Water year 1941-42	28,107	223	0	77.0	55,750

a No gage-height record; discharge interpolated.
h Computed from staff-gage readings.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942 (1929-36, irrigation seasons only).

Extremes.- Maximum discharge during year, 204 second-feet June 19 (gage height, 1.28 feet); no flow for long periods.
1925-42: 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. 18 E., where its 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.- Gage-height record and four discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	0					0	127	182	145	145	118
2	0	0					0	127	177	145	143	118
3	0	0					0	125	174	150	143	116
4	0	0					0	125	177	180	140	118
5	0	0					0	125	177	160	140	118
6	0	0					0	125	180	157	140	121
7	0	0					0	121	185	157	140	121
8	0	0					0	123	188	164	136	121
9	0	0					0	125	182	164	136	116
10	0	0					0	129	185	164	136	118
11	0	0					0	129	182	160	134	121
12	0	0					0	129	180	160	125	121
13	0	0					0	129	172	157	125	127
14	0	0					0	129	164	154	125	129
15	0	0					0	129	172	157	121	129
16	0	0					0	129	199	167	121	134
17	0	0					29	129	199	170	121	134
18	0	0					118	129	201	172	118	131
19	0	0					118	129	199	167	123	131
20	0	0					123	138	193	157	123	131
21	0	43					131	150	190	170	118	129
22	0	106					134	160	188	160	116	125
23	0	114					h129	172	174	157	116	123
24	0	94					h127	188	170	162	125	123
25	0	0					h127	190	150	164	127	123
26	0	0					123	185	152	162	127	123
27	0	0					121	188	152	152	127	123
28	0	0					118	188	152	162	125	129
29	0	0					121	188	147	162	123	129
30	0	0					125	185	145	157	123	127
31	0	-					-	182	-	150	123	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	18	18	0	0.6	36
November	357	114	0	11.9	708
December	0	0	0	0	0
Calendar year 1941	21,620	190	0	59.2	42,880
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	1,644	134	0	54.8	3,260
May	4,527	190	121	146	8,980
June	5,288	201	145	176	10,490
July	4,985	172	145	160	9,850
August	3,985	145	116	129	7,900
September	3,729	134	116	124	7,400
Water year 1941-42	24,513	201	0	67.2	48,620

h Computed from staff-gage readings.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942 (prior to 1937, irrigation seasons only).

Extremes.- Maximum discharge during year, 267 second-feet Apr. 23 (gage height, 2.27 feet); no flow for long periods.
1928-42: Maximum discharge, 447 second-feet Apr. 24, 1938 (gage height, 2.90 feet), from rating curve extended above 400 second-feet; usually no flow during nonirrigation seasons.

Remarks.- Records good. Spillway diverts from North Gooding Canal and discharges into Thorn Creek in sec. 6, T. 5 S., R. 16 E. It is used to minimize losses from natural channel of Big Wood River.

Cooperation.- Gage-height record and nine discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0					0	133	166	124	174	135
2		0					0	176	138	124	174	135
3		0					0	185	124	109	181	129
4		0					0	187	115	105	185	124
5		0					0	191	116	111	178	120
6		0					0	176	124	124	176	118
7		0					0	150	124	133	172	118
8		0					0	148	125	135	166	122
9		0					0	162	127	140	154	122
10		0					0	162	122	148	142	122
11		0					0	172	109	148	138	124
12		0					0	183	103	148	137	129
13		0					0	187	106	160	137	122
14		0					0	164	105	164	138	105
15		0					0	164	95	164	129	106
16		0					f115	162	106	164	127	105
17		h22					183	164	122	154	122	105
18		h46					164	168	118	146	120	111
19		h111					127	166	116	146	115	118
20		h140					120	156	129	154	109	115
21		h98					122	131	127	162	111	115
22		0					181	116	127	160	109	105
23		0					254	113	125	156	113	90
24		0					213	118	124	156	124	84
25		0					193	144	124	160	124	80
26		0					191	144	124	166	125	76
27		0					183	154	124	168	122	74
28		0					172	162	133	172	127	77
29		0					156	181	138	178	135	76
30		0					140	174	133	172	133	63
31		-					-	164	-	172	133	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	417	140	0	13.9	827
December	0	0	0	0	0
Calendar year	21,523	200	0	59.0	42,700
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	2,514	254	0	83.8	4,990
May	4,957	191	113	160	9,830
June	3,659	166	95	122	7,260
July	4,623	178	105	149	9,170
August	4,330	186	109	140	8,590
September	3,225	135	63	108	6,400
Water year 1941-42	23,725	254	0	65.0	47,070

f Fragmentary gage-height record; discharge computed on basis of information furnished by watermaster for Big Wood River.
h Computed from staff-gage readings.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SW¼NW¼ 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.

Drainage area.- 267 square miles.

Records available.- February 1920 to September 1926 (published as Little Wood River near Carey), March 1941 to September 1942 (irrigation seasons only except 1921-24, 1926).

Extremes.- Maximum discharge during year, 1,420 second-feet Apr. 10 (gage height, 4.31 feet), from rating curve extended above 600 second-feet by logarithmic plotting; minimum, 33 second-feet Sept. 23 (gage height, 0.77 foot).
1920-26, 1941-42: Maximum discharge recorded, that of Apr. 10, 1942; minimum, 14 second-feet Aug. 29, 30, 1926.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Flow regulated by Campbell Reservoir (capacity 2,700 acre-feet) on unnamed tributary. Diversions for irrigation from Muldoon Creek, a tributary above station.

Cooperation.- Gage-height record furnished by Little Wood Irrigation District.

Rating tables, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 6-10)

Oct. 1 to Dec. 21		Apr. 6 to Sept. 30			
1.0	45	0.7	27	2.6	474
1.3	81	1.0	58	3.0	640
1.6	132	1.4	121	3.5	900
1.9	197	1.8	210	4.0	1,210
2.2	276	2.2	326		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59	62	61					310	447	286	81	42
2	46	62	87					323	447	304	72	41
3	55	63	255				a300	286	470	317	70	39
4	53	68	142					304	514	323	66	38
5	59	66	109					310	555	320	63	36
6	57	65	a100				379	289	576	320	59	37
7	57	62					451	280	640	289	58	36
8	57	61					576	301	662	277	57	35
9	59	60					762	336	662	250	54	37
10	60	60					1,020	365	576	226	53	39
11	60	60	a80				1,140	347	502	220	51	39
12	59	60					1,110	340	451	192	52	40
13	54	60					990	320	420	177	47	39
14	51	62					845	304	408	169	47	37
15	50	89					618	307	451	173	47	37
16	49	86					534	323	435	166	45	37
17	48	81					474	330	379	158	46	38
18	47	74	70				416	314	383	144	47	40
19	48	66	70				390	307	361	130	44	40
20	61	49	73				416	310	330	125	44	40
21	66	51	73				486	350	301	123	42	39
22	61	59					576	454	295	123	42	38
23	59	a50					482	597	310	119	42	37
24	60	a55					405	618	340	113	41	38
25	62	a60					375	597	344	106	42	38
26	61	61	a60				350	685	314	100	42	37
27	61	59					323	597	280	97	43	37
28	68	59					330	534	253	95	44	36
29	65	59					320	474	242	88	44	36
30	62	60					295	498	286	88	44	39
31	61	-					-	466	-	84	44	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,775	68	46	57.3	3,520
November	1,889	89	49	63.0	3,750
December	2,520	255	-	81.3	5,000
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	15,563	1,140	-	519	30,870
May	12,176	685	280	393	24,150
June	12,634	662	242	421	25,060
July	5,702	323	84	184	11,310
August	1,573	81	41	50.7	3,120
September	1,137	42	35	37.9	2,260
Water year	-	-	-	-	-

a No gage-height record; discharge computed on basis of weather records and records for stations on Big Wood River and Big Wood Slough near Hailey.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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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 1942.

Average discharge.- 14 years (1926-27, 1929-42), 122 second-feet.

Extremes.- Maximum discharge during year, 778 second-feet Apr. 12 (gage height, 5.08 feet); minimum, 10 second-feet Feb. 10 (gage height, 1.95 feet).

1904-5, 1926-42: 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, 4 second-feet Feb. 17, 1941 (gage height, 1.63 feet).

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 3 miles above station began Feb. 12, 1941.

Cooperation.- Gage-height record during irrigation season furnished by watermaster for Upper Little Wood River.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	68	68	60				116	390	464	268	233	51
2	63	61	66				140	394	450	230	220	48
3	61	62	129			a100	155	350	446	286	203	43
4	56	66	157				186	331	464	297	186	44
5	55	58	159				207	331	494	303	172	72
6	56	58	131			*100	203	325	524	309	168	70
7	58	58	112			114	210	316	561	297	175	69
8	60	65	b65		b15	144	286	316	619	291	182	68
9	47	54	b70			148	527	319	619	274	182	65
10	46	59	b70			101	619	319	600	246	186	63
11	62	72	b70			101	698	322	538	206	188	62
12	69	49	b60			101	718	325	490	210	166	61
13	65	50	42			101	658	325	450	203	161	60
14	56	55	12			101	638	325	425	188	155	57
15	51	91	12	b15		110	619	328	404	179	150	56
16	49	110	15		b40	86	600	331	414	191	144	54
17	48	81	20		b100	68	561	334	400	184	138	52
18	49	84	21		b100	76	535	288	373	184	121	52
19	47	72	21			78	524	271	357	222	101	51
20	54	54	19			82	520	268	331	225	98	50
21	62	55	16			80	538	265	309	225	94	48
22	68	56	b16	(*)	b100	80	542	268	286	297	93	47
23	43	45	b17			80	538	164	291	328	90	47
24	49	53	18			82	535	294	309	325	78	46
25	82	60	18			82	531	341	328	322	76	43
26	69	*60	b18			82	527	468	328	316	75	43
27	48	55	b15			84	524	600	309	309	73	42
28	56	60	b17			84	524	561	288	306	73	41
29	65	57	b18		-	86	461	509	268	274	70	41
30	69	58	b18		-	88	397	501	263	246	54	41
31	70	-	b18		-	96	-	494	-	240	51	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,801	82	43	58.1	3,570
November	1,886	110	45	62.9	3,740
December	1,520	159	12	49.0	3,010
Calendar year 1941	42,620	439	8	117	84,520
January	465	-	-	15.0	922
February	1,465	-	-	52.3	2,910
March	2,935	144	68	94.7	5,820
April	13,837	718	116	461	27,450
May	10,973	600	164	354	21,760
June	12,402	619	263	413	24,600
July	8,031	328	179	259	15,930
August	4,156	233	51	134	8,240
September	1,587	72	41	52.9	3,150
Water year 1941-42	61,058	718	-	167	121,100

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records of operation of Little Wood Reservoir.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 Burn's Slough and heading of Dietrich Canal and 1 mile east of railroad station at Richfield.

Records available.- January 1911 to September 1942 (irrigation seasons only).

Extremes.- Maximum discharge recorded, 366 second-feet Apr. 14-16 (gage height, 2.52 feet); minimum recorded, 43 second-feet June 19; minimum gage height recorded, 1.10 feet June 19, 20.

1911-42: Maximum discharge recorded, 868 second-feet May 3, 1938 (gage height, 3.97 feet), from rating curve extended above 800 second-feet; minimum recorded, 7.6 second-feet June 24, 25, 1920 (gage height, 0.52 foot).

Remarks.- Records good. Small ranch diversions above gage.

Cooperation.- Gage-height record and nine discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	133	148	146				h185	264	167	97	106	118
2	133	148					188	258	144	92	106	120
3	133	146					195	258	134	87	101	120
4	134	146					200	249	142	84	97	120
5	136	146					210	238	142	84	92	120
6	136	146					224	238	138	84	89	122
7	136	146					235	229	156	86	h93	122
8	138	146					235	216	160	86	93	125
9	140	146					235	205	162	86	92	125
10	140	144					261	198	160	93	92	125
11	140	144					288	h198	146	97	90	124
12	140	144					322	202	125	98	97	124
13	140	144					356	195	103	101	100	124
14	142	144					363	195	72	103	103	122
15	144	144					363	200	66	105	103	122
16	144	146					363	205	58	h95	101	122
17	142	148					356	208	53	h98	103	124
18	140	148					347	213	49	h98	100	125
19	a141	*152					325	192	45	97	98	125
20	142	152					322	169	44	98	95	125
21	144	b150					310	158	48	98	98	125
22	148	b148					303	146	50	97	101	125
23	148	b146					h325	129	54	97	101	125
24	148	b144					322	124	54	95	105	127
25	148	b142					319	105	53	95	105	127
26	146	140					310	112	55	98	106	127
27	146	140					306	163	65	103	110	127
28	146	144					310	213	86	106	112	127
29	146	*146					310	185	97	108	h112	125
30	148	146					285	162	97	108	113	124
31	146	-					-	h162	-	106	115	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,388	148	133	142	8,700
November	4,374	152	140	146	8,680
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	8,673	363	185	289	17,200
May	5,989	264	105	193	11,880
June	2,925	167	44	97.5	5,800
July	2,980	108	84	96.1	5,910
August	3,129	115	90	101	6,210
September	3,713	127	118	124	7,360
Water year	-	-	-	-	-

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 Shoshone-Richfield highway bridge in Shoshone.

Records available.- April 1922 to September 1942 (irrigation seasons only).

Extremes.- Maximum discharge recorded during year, 521 second-feet May 29 (gage height, 3.12 feet); minimum recorded, 6.2 second-feet Sept. 30 (gage height, 0.42 foot).
1922-42: Maximum discharge recorded, 664 second-feet June 18, 1922; maximum gage height recorded, 3.85 feet July 4, 1938; 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.

Cooperation.- Gage-height record and 10 discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	94						150	359	466	369	400	380
2	53						173	386	455	356	399	376
3	40						173	388	450	351	403	371
4	38						165	394	440	347	401	369
5	36						173	397	438	359	399	366
6	h34						177	383	434	366	395	368
7	-						188	374	434	368	399	366
8	-						188	399	437	369	404	373
9	-						180	440	438	374	389	372
10	-						188	435	429	387	383	371
11	-						209	450	395	388	383	374
12	-						230	462	364	389	382	377
13	h64						243	464	368	397	381	360
14	-						174	482	365	393	378	356
15	-						137	481	358	391	374	355
16	-						137	478	380	393	372	345
17	-						140	481	385	389	372	329
18	-						154	490	378	391	371	331
19	-						158	487	378	397	368	342
20	-						150	470	383	400	366	338
21	-						240	443	382	406	366	338
22	-						f310	422	385	401	368	324
23	-						374	420	387	397	372	311
24	-						365	434	385	394	373	308
25	-						360	467	383	397	374	301
26	-						364	467	383	400	374	286
27	-						365	483	380	400	h372	279
28	-						366	497	382	404	h372	283
29	-						364	512	389	405	380	283
30	-						354	490	386	404	378	116
31	-					143	-	472	-	405	378	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-6	295	94	34	49.2	585
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	6,949	374	137	232	13,780
May	13,807	512	359	445	27,390
June	12,017	466	358	401	23,840
July	11,987	406	347	387	23,780
August	11,826	404	366	381	23,460
September	10,049	380	116	335	19,930
Water year	-	-	-	-	-

f Fragmentary gage-height record; discharge computed on basis of information furnished by watermaster.
h Computed from staff-gage readings.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942 (1922-35, irrigation seasons only).

Extremes.- Maximum discharge during year, 251 second-feet Apr. 5; maximum gage height, 3.97 feet Jan. 8, ice jam; minimum discharge, 80 second-feet June 24 (gage height, 1.08 feet).

1920-42: Maximum discharge, 312 second-feet Apr. 3, 1923; maximum gage height, that of Jan. 8, 1942; 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 at times around station by slough on right bank from which there is some diversion for irrigation.

Cooperation.- Gage-height record collected in cooperation with watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	154	165	165	163	159	142	205	159	121	125	164	156
2	153	165	170	133	158	141	226	159	117	118	156	166
3	153	156	183		157	142	236	154	117	116	152	164
4	154	166	212		157	142	239	150	116	123	148	161
5	155	168	214		159	145	249	159	105	126	145	161
6	157	168	190		157	*144	246	151	101	128	147	163
7	161	166	178		158	143	241	151	90	131	149	163
8	152	164	174		155	144	218	140	93	135	148	165
9	151	164	172		154	144	196	134	90	136	145	167
10	160	153	169	b150	153	146	183	130	94	139	149	170
11	160	164	166		153	151	176	131	92	143	154	171
12	161	163	164		153	151	159	123	90	147	163	174
13	161	154	152		151	154	152	125	89	151	167	176
14	160	165	162		154	154	158	124	90	156	167	172
15	159	166	164		157	151	153	124	87	154	169	171
15	157	169	166		151	150	150	128	85	152	155	168
17	155	173	169			151	149	132	84	156	159	170
18	155	176	173	160		151	152	121	83	155	155	170
19	155	177	174	156		151	154	116	83	157	151	172
20	160	173	172	b150	b145	152	151	119	83	153	153	173
21	168	171	171	b150		151	151	117	88	149	150	175
22	175	169	170	153		152	151	115	88	149	149	172
23	173	167	167	*150	148	154	149	115	85	150	151	159
24	168	167	168	149	144	159	150	117	82	150	153	167
25	164	167	164	154	142	161	145	119	87	151	153	169
26	162	*165	169	152	142	160	149	118	94	153	157	166
27	162	165	165	157	142	159	149	116	118	153	159	165
28	164	165	b165	161	141	160	155	116	136	155	154	165
29	168	164	b165	152	-	164	159	115	142	157	152	166
30	159	163	b165	161	-	172	157	118	136	159	156	168
31	156	-	155	159	-	185	-	122	-	161	161	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,993	175	153	151	9,900
November	5,009	177	163	167	9,940
December	5,333	214	162	172	10,580
Calendar year 1941	51,242	214	84	140	101,600
January	4,720	163	133	152	9,360
February	4,215	159	-	151	8,360
March	4,726	185	141	152	9,370
April	5,328	249	145	178	10,570
May	4,029	161	115	130	7,990
June	2,967	142	82	98.2	5,880
July	4,488	161	115	145	8,900
August	4,801	169	145	155	9,520
September	5,045	176	161	168	10,010
Water year 1941-42	55,654	249	82	152	110,400

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.

Note.- Flow in bypass channel, which carries water around gage, was measured as 27.4 second-feet Oct. 25; 14.9 second-feet Nov. 26; 6.40 second-feet Jan. 23; 3.39 second-feet Mar. 6; 6.32 second-feet Sept. 7; no flow was reported May 1, June 3, 23, July 3, Aug. 7.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SW¼ sec. 27, T. 6 S., R. 13 E., 430 feet upstream from mouth of inverted syphon 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 3½ miles north of Hagerman.

Records available.- March 1930 to September 1942 (irrigation seasons only except 1939).

Extremes.- Maximum discharge during year, 334 second-feet July 7, 8 (gage height, 3.76 feet); minimum observed, 3 second-feet Jan. 26, Mar. 5 (discharge measurements).
1930-42: Maximum discharge observed, that of July 7, 8, 1942; practically no flow for long periods during most years.

Remarks.- Records good. 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	241					-	106	283	310	253	317	315
2	241					-	111	284	310	70	318	317
3	241					-	111	283	313	317	318	313
4	241					-	110	279	306	327	318	312
5	241					†3	108	279	306	327	318	312
6	241					-	112	278	306	327	318	312
7	243					-	111	281	313	330	320	312
8	172					-	111	283	313	330	318	312
9	-					-	140	281	310	320	320	312
10	-					-	171	281	308	317	320	312
11	-					-	172	279	312	318	320	310
12	-					-	188	278	313	317	320	303
13	-					-	202	283	313	317	320	300
14	-					-	233	290	317	317	320	290
15	-					-	247	290	268	317	320	279
16	-					-	252	291	a6	317	320	271
17	-		†4			-	246	293	6	317	320	263
18	-					-	254	293	242	317	320	263
19	-					-	255	296	315	317	320	263
20	-					-	249	296	313	317	320	263
21	-					-	262	296	313	317	320	252
22	-					-	267	298	313	317	322	263
23	-					-	267	306	315	317	322	257
24	-					-	271	313	313	317	322	226
25	-					-	273	308	313	317	322	228
26	-			†3		25	276	310	317	317	322	233
27	-					106	278	312	320	317	322	233
28	-					106	283	306	322	317	317	235
29	-					106	281	310	313	317	315	235
30	-					104	281	310	300	317	315	235
31	-					104	-	308	-	318	315	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-8	1,861	243	172	233	3,690
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 28-31	551	106	25	91.8	1,090
April	6,228	283	106	208	12,350
May	9,078	313	278	295	18,010
June	8,639	322	6	288	17,140
July	9,577	330	70	309	19,000
August	9,899	322	315	319	19,630
September	6,331	317	226	278	16,520
Water year	-	-	-	-	-

† Result of discharge measurement.
a No gage-height record; discharge computed on basis of discharge measurement of June 17 and reported change of gate opening.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Clover Creek near Bliss, Idaho

Location.- Staff gage, lat. 42°59', long. 115°01', in SW¼ sec. 15, T. 5 S., R. 12 E., just upstream from flow line of Saunders Reservoir, 3½ miles upstream from Hog Creek, and 5 miles northwest of Bliss.

Records available.- April 1938 to September 1942.

Extremes.- Maximum discharge observed during year, 860 second-feet Jan. 27 (gage height, 5.36 feet); practically no flow July 11 to Aug. 3.
1938-42: Maximum discharge observed, 1,320 second-feet Feb. 28, 1940 (gage height, 6.20 feet); no flow for many days during summers of 1938-40, 1942.

Remarks.- Records fair. Gage read twice daily. Many diversions above and below station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.5	3.3	3.7		154	13	220		e6	0.5	0	0.8
2	2.3	3.4	4.1		68	13	259		e6	.3	0	.7
3	2.4	3.4	4.1		70	14	302		e6	.3	0	1.0
4	2.7	3.4	4.4		69	*15	314		e6	.3	.2	1.3
5	2.7	3.4	4.4		69	14	302		4.4	.3	.2	.9
6	2.7	3.4	4.4		72	17	302		2.3	.2	.1	1.0
7	2.8	3.3	4.4		73	22	280		1.9	.2	.3	1.4
8	2.8	3.4	4.6		73	31	239		1.4	.2	.2	1.7
9	2.5	3.4	4.8		63	49	220		3.3	.3	.2	1.8
10	2.6	3.3	5.3		43	106	194		4.8	.1	.3	1.9
11	2.9	3.4	5.8	b10	39	133	162		3.9	0	.2	2.1
12	2.7	3.4	6.2		*33	140	115	c10	3.7	0	.4	2.8
13	2.7	3.4	6.8		e27	177	94		4.1	0	.5	2.3
14	2.6	3.4	7.0		26	133	81		4.1	0	.5	2.4
15	3.0	3.4	7.0		b22	100	69		3.9	0	.6	2.7
16	2.9	4.6	8.0		b19	100	60		4.1	0	.5	3.2
17	3.0	4.6	*50		b16	94	51		4.2	0	.6	2.8
18	2.9	4.4	126		b15	87	47		3.9	0	.6	2.7
19	2.8	4.8	239	(*)	b16	77	41		3.2	0	.6	2.7
20	3.0	4.8	270		b16	63	36		3.0	0	.5	2.9
21	3.4	5.1	185		b17	60	29		3.2	0	.5	2.5
22	3.4	5.1	39		18	147	26		2.9	0	.5	2.4
23	3.4	5.0	27	154	20	162	25		2.9	0	.5	2.7
24	3.4	5.1	20	169	20	147	21		2.7	0	.5	2.8
25	3.4	4.8	15	211	16	86	19		2.4	0	.5	2.7
26	3.4	4.4	14	*220	14	51	17	c7	2.1	0	.6	3.0
27	3.4	4.1	14	640	13	106	c16	e7	1.9	0	.5	3.0
28	3.4	3.7	14	640	12	100	e15	c6	1.5	0	.5	2.8
29	3.4	3.7	13	259	-	106	c14	c6	1.2	0	.5	3.0
30	3.4	3.7	12	94	-	147	c13	c6	.7	0	.5	3.2
31	3.3	-	10	133	-	177	-	c6	-	0	.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	92.2	3.4	2.3	2.97	183
November	118.6	5.1	3.3	3.96	236
December	1,133.0	270	3.7	36.5	2,250
Calendar year 1941	5,566.6	270	.1	15.3	11,040
January	2,740	640	-	88.4	5,430
February	1,113	154	12	39.8	2,210
March	2,707	177	13	87.3	5,370
April	3,581	314	13	119	7,100
May	288	-	6	9.3	571
June	101.7	6	.7	3.39	202
July	2.7	.5	0	.09	5
August	12.1	.6	0	.39	24
September	67.2	3.2	.7	2.24	133
Water year 1941-42	11,956.7	640	0	32.8	23,710

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
c Backwater from Saunders Reservoir.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Little Canyon Creek near Glenns Ferry, Idaho

Location.- Staff gage, lat. 42°59', long. 115°19', sec. 18, T. 5 S., R. 10 E., at bridge on county road, 2 miles north of Glenns Ferry.

Records available.- December 1938 to September 1942 (October 1940 to September 1941, fragmentary). November 1909 to June 1913 (fragmentary) at site downstream in sec. 30, at Glenns Ferry.

Extremes.- Maximum discharge during year, 126 second-feet Jan. 26 (gage height, 4.25 feet); practically no flow at times during year.
1938-42: Maximum discharge observed, 150 second-feet Feb. 28, 1940 (gage height, 4.36 feet); no flow at times during summers.

Remarks.- Records fair except those for period of ice effect or those below 5 second-feet, which are poor. Gage read once daily. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1	1	b15	38	5	22	27	3	2	1	0
2	0	1	1	b10	40	6	26	26	3	2	1	0
3	0	1	1	b7	34	6	38	24	3	2	1	0
4	0	1	1	b5	32	6	46	24	4	2	1	0
5	0	1	2	b4	27	7	68	23	3	2	1	0
6	0	1	2	b3	22	8	48	16	3	2	1	0
7	0	1	3		27	11	43	13	2	2	1	0
8	0	1	2	b3	22	15	48	9	3	2	1	0
9	0	1	2		16	18	46	13	3	2	1	0
10	0	1	2		10	27	61	14	2	2	1	0
11	0	1	2		8	30	54	14	2	2	1	0
12	0	1	2		8	26	51	12	2	2	1	0
13	0	1	2		6	16	54	10	2	2	1	a0
14	0	1	3		6	18	51	9	2	2	0	0
15	0	0	4	b2	5	18	51	9	a2	2	0	0
16	1	0	5		6	18	46	13	a2	2	0	0
17	0	1	6		5	16	40	11	2	2	0	0
18	0	1	*7		5	15	36	10	2	2	0	0
19	0	1	11	*b2	5	14	34	8	3	2	0	0
20	1	1	13	b2	5	12	32	7	3	2	0	0
21	0	1	13	b3	5	11	36	5	4	1	0	0
22	0	1	12	22	6	10	51	5	4	0	0	0
23	1	1	15	30	7	12	32	5	4	0	0	0
24	1	1	19	30	8	18	32	4	2	0	0	0
25	1	1	19	34	9	15	28	4	2	0	0	0
26	1	1	19	114	9	13	28	6	2	0	0	0
27	1	1	23	*68	7	14	30	4	1	0	0	0
28	1	1	26	72	6	16	26	4	2	1	0	0
29	1	1	32	64	-	18	26	4	2	1	0	0
30	1	1	30	58	-	18	27	4	2	1	0	0
31	1	-	26	48	-	19	-	3	-	1	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	11	1	0	0.4	22
November	28	1	0	.9	56
December	306	32	1	9.9	607
Calendar year	-	-	-	-	-
January	619	114	-	20.0	1,230
February	384	40	6	13.7	762
March	456	19	5	14.7	904
April	1,201	64	22	40.0	2,380
May	339	27	3	10.9	672
June	76	4	1	2.5	151
July	45	2	0	1.5	89
August	13	1	0	.4	26
September	0	0	0	0	0
Water year 1941-42	3,478	114	0	9.5	6,900

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 East Fork and 7½ miles southwest of Bennett post office (Dixie store).

Drainage area.- 21.3 square miles.

Records available.- May 1938 to September 1942.

Extremes.- Maximum discharge during year, about 35 second-feet sometime between Apr. 4-8; practically no flow Sept. 25-30.
1938-42: Maximum discharge, 95 second-feet Mar. 24, 1939 (gage height, 4.71 feet, present datum), from rating curve extended above 60 second-feet; practically no flow, Sept. 16-25, Oct. 14-18, 1939, July 22-27, 1941, Sept. 25-30, 1942.

Remarks.- Records fair except those for periods of doubtful or no gage-height record, which are poor. No regulation or diversion above station; many diversions below station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	d0.5	3.4	7.0	a2.0	21	13	8.6	2.1	0.3	0.1
2	.1	.3	d3.0	a2.5	7.0	h2.0	20	12	8.0	1.8	.3	.1
3	.1	.3	2.8		7.0	a2.0	20	11	8.0	1.5		.1
4	.2	.5	2.0		7.2	2.4		a12	7.5	1.2		.1
5	.2		1.4		7.0	2.8		12	7.0	1.2		.1
							a25				a.2	
6	.2				7.7	2.9		11	6.7	1.0		.1
7	.2				9.5	2.9		10	6.7	1.0		.1
8	.2				8.6	3.3		9.8	6.4	.9		.1
9	.2				8.0	3.9	21	9.2	5.9	.9		.1
10	.2		a1.5		7.2	6.2	22		5.9	.8	a.1	.1
11	.2				7.0	11	21		5.2	.7		.1
12	.2			a2.0	6.2	13	21		5.0	.7		.1
13	.2				5.4	15	21		4.8	.5	h.1	.1
14	.2		1.3		5.0	13	21		4.4	.5		.1
15	.2		1.5		5.2	12	20	a8.0	4.4	.6		.1
16	.2		2.1		4.8	12	18		4.3	.2	a.1	.1
17	.2	d.5	2.5		a4.6	11	18		h4.1			.2
18	.2		2.9		a4.4	11	16		a4.0	a.4		.2
19	.2		4.3		h4.3	10	15		a3.5			.1
20	.2		6.7			9.8	15		h3.4		h.1	.1
21	.2		6.7			10	14	7.7		.6		.1
22	.2		a6.0			11	14	7.5		.6	a.1	a.1
23	.2		a5.5	a2.5		12	14	8.0		.5		a.1
24	.2		5.0	a3.0	a3.0	13	14	8.6		.5		a.1
25	.2		4.3	a4.0		12	a14	8.6	a3.0	.4	.1	h0
26	.2		4.3	5.0		12	14	7.5		.4	.1	0
27	.2		4.1	8.9		12	14	8.0		.4	.1	0
28	.3		3.9	8.6		13	14	9.5		.5	.2	0
29	.3		3.9	8.0		14	14	8.9	2.7	.4	.2	0
30	.3		3.7	7.7	-	16	13	8.9	2.3	.4	.2	0
31	.3	-	3.5	7.5	-	19	-	9.5	-	.3	.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	6.4	0.3	0.1	0.21	0.0099	0.01	13
November	14.3	-	.2	.48	.023	.02	28
December	93.9	6.7	.5	3.03	.142	.16	186
Calendar year 1941	1,001.4	19	0	2.74	.129	1.745	1,990
January	101.1	8.9	-	3.26	.153	.18	201
February	150.1	9.5	-	5.36	.252	.26	298
March	292.2	19	2.0	9.43	.443	.51	580
April	554	-	13	18.5	.869	.97	1,100
May	280.7	13	-	9.05	.425	.49	557
June	142.8	8.6	2.3	4.76	.223	.25	283
July	22.2	2.1	-	.72	.034	.04	44
August	4.4	-	-	.14	.0066	.008	8.7
September	2.6	.2	0	.09	.0042	.005	5.2
Water year 1941-42	1,664.7	-	0	4.56	.214	2.90	3,300

a No gage-height record; discharge interpolated or computed on basis of weather records and records for Little Canyon Creek near Glenns Ferry and Clover Creek near Bliss.
d Doubtful gage-height record; discharge computed on basis of weather records and records for nearby streams.
h Computed from staff-gage readings.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 (gage moved Jan. 31, 1941) 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 1942.

Extremes.- Maximum discharge during year, 91 second-feet July 10 (gage height, 1.33 feet); minimum recorded, 1 second-foot Oct. 1-31.
1924-29, 1931-42: Maximum discharge, 226 second-feet Feb. 21, 1927 (gage height, 2.18 feet, then in use), from rating curve extended above 120 second-feet; no flow at times each year.

Remarks.- Records good. 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.- Gage-height record furnished by Mountain Home Irrigation District.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1	a2	-		23	7	34	24	h47	54	56	40
2	1	a2	-		26	7	39	23	h45	61	46	46
3	1	a2	-		24	8	42	23	h45	65	41	47
4	1	a2	-		52	8	46	23	h45	66	41	46
5	1	a2	-		38	8	48	a22	41	66	43	40
6	1	2	-		49	9	48	a21	40	75	43	38
7	1	2	-		46	9	48	20	48	83	43	48
8	1	2	-		38	10	47	21	h62	89	53	48
9		2	-		34	10	46	21	a70	90	59	47
10		2	-		31	16	46	23	h77	79	63	42
11		2	-		28	28	43	21	h85	75	58	38
12		2	-		25	34	42	a25	h88	67	48	41
13		2	-		24	37	40	a35	a88	62	45	31
14		2	-		23	36	59	h44	h88	61	45	24
15		2	-		21	33	36	h56	a88	61	45	21
16		2	-		20	33	33	a60	h88	60	44	18
17		3	-		20	32	31	h61	h84	69	45	11
18		2	-		-	32	28	h44	h77	75	56	6
19	a1	2	3		-	30	26	h55	h70	73	59	4
20			4		-	28	24	h75	a47	67	61	3
21			7		-	27	23	h77	h43	66	62	
22			7	†4	-	26	23	h80	h43	66	61	
23			7			25	23	a83	42	65	60	
24			8		-	26	22	h85	42	64	58	
25		a3	-		-	26	22	h85	43	63	53	
26			-		-	26	21	h61	43	53	56	a2
27			-		-	26	21	h40	43	50	56	
28			-		-	26	22	h38	43	50	56	
29			-		-	26	23	a40	43	48	51	
30	h1		-		-	28	23	a43	43	48	44	
31	a1	-	-		-	31	-	h46	-	49	46	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	31	1	1	1.0	61
November	72	3	2	2.4	143
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	522	52	20	30.7	1,040
March	708	37	7	22.8	1,400
April	1,009	48	21	33.6	2,000
May	1,375	85	20	44.4	2,730
June	1,751	88	40	58.4	3,470
July	2,020	90	48	65.2	4,010
August	1,597	63	41	51.5	3,170
September	659	48	-	22.0	1,310
Water year	-	-	-	-	-

† Result of discharge measurement.
a No gage-height record; discharge interpolated or computed on basis of recorded range in stage and records for Mountain Home cooperative canal.
h Computed from staff-gage readings.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge during year, 93 second-feet July 9 (gage height, 1.49 feet); no flow at times.

1924-29, 1931-42: 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.

Remarks.- Records good during irrigation season; others poor. No diversions between station and head of canal. Flow regulated by gates at head of canal and by Long Tom and Little Camas Reservoirs. Canal diverts from Mountain Home feeder canal. Water is used for irrigation of about 5,000 acres in Mountain Home Irrigation District.

Cooperation.- Gage-height record furnished by Mountain Home Irrigation District.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0				0	0	9	19	52	54	41
2		1				0	0	8	22	60	45	46
3		2				0	0	6	17	64	39	47
4		2				0	0	3	16	65	39	46
5		2				0	0	1	23	65	41	40
6		2				0	0	1	34	75	42	38
7		1				0	0	1	43	84	43	47
8		1				0	0	1	57	91	52	48
9		1				0	0	1	61	92	a58	47
10		1				0	0	3	77	78	63	41
11		1				0	0	8	83	74	57	37
12		1				0	0	13	88	65	47	39
13		1				0	0	14	88	60	46	30
14		0				0	0	33	86	59	46	24
15		0				0	0	46	86	59	45	14
16		0				0	0	47	86	59	44	6
17		0				0	0	43	84	67	45	4
18		0				0	0	39	77	77	56	1
19		0				1	0	48	67	74	60	0
20		0				1	0	69	44	65	61	0
21		0				1	0	75	40	64	62	0
22		0				1	0	77	41	65	63	0
23		0				1	0	80	40	65	60	0
24		0				0	0	82	39	62	57	0
25		0				0	0	74	40	62	53	0
26		0				0	0	58	42	53	54	0
27		0				0	2	39	42	50	55	0
28		0				0	9	32	42	48	56	0
29		0				0	7	24	42	47	51	0
30		0				0	8	14	42	45	a44	0
31		-				0	-	14	-	47	46	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	16	2	0	0.5	32
December	0	0	0	0	0
Calendar year 1941	5,181	e7	0	14.2	10,280
January	0	0	0	0	0
February	0	0	0	0	0
March	5	1	0	.2	10
April	26	9	0	.9	52
May	963	82	1	31.1	1,910
June	1,568	88	16	52.3	5,110
July	1,993	92	45	64.3	3,950
August	1,584	63	39	51.1	3,140
September	596	48	0	19.9	1,180
Water year 1941-42	6,751	92	0	18.5	13,380

a No gage-height record; discharge computed on basis of record for Mountain Home feeder canal.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge during year, 290 second-feet Apr. 4 (gage height, 3.24 feet); no flow during most of year.
1938-42: Maximum discharge recorded, 500 second-feet Mar. 20, 1939 (gage height, 4.30 feet); no flow during long periods of each year.

Remarks.- Records fair. No regulation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							16	12	2.6	0.6		
2							42	12	2.4	.4		
3							105	11	2.6	0		
4							160	11	2.6	0		
5							189	9.6	2.6	0		
6							141	7.8	2.3	0		
7							141	6.6	2.2	0		
8							110	5.4	1.8	0		
9							82	5.0	1.5	0		
10							60	4.8	1.5	0		
11							49	5.4	1.6	0		
12							39	4.8	1.6	0		
13							31	4.4	1.6	0		
14							25	2.8	1.4	0		
15							21	2.4	1.2	0		
16							20	2.6	.6	0		
17							18	2.6	.4	0		
18							16	2.9	d.4	0		
19							15	2.6	d.3	0		
20							14	2.2	.3	0		
21							13	1.7	.2	0		
22							11	1.2	.2	0		
23							9.0	1.6	.2	0		
24							7.8	1.9	.2	0		
25							7.4	1.6	.3	0		
26							7.8	a2.0	.5	0		
27							8.2	a2.0	.6	0		
28							9.6	a4.0	.6	0		
29							12	4.0	.4	0		
30							12	3.6	.7	0		
31							-	3.0	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1941	418.2	61	0	1.15	830
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	1,391.8	189	7.4	46.4	2,760
May	144.6	12	1.2	4.66	287
June	35.4	2.6	.2	1.18	70
July	1.0	.6	0	.03	2.0
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1941-42	1,572.7	189	0	4.31	3,120

a No gage-height record; discharge computed on basis of weather records and trend of preceding and following record.
d Doubtful gage-height record; discharge interpolated.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Jacks Creek near Bruneau, Idaho

Location.- Water-stage recorder, lat. 42°47', long. 115°59', in sec. 27, T. 7 S., R. 4 E., 550 feet upstream from confluence with Wickahoney Creek and 11 miles southwest of Bruneau.

Records available.- November 1938 to September 1942.

Extremes.- Maximum discharge during year, 148 second-feet Mar. 31 (gage height, 3.56 feet), from rating curve extended above 50 second-feet on basis of slope-area determination at gage height 7.2 feet; no flow during most of year.

1938-42: Maximum discharge, 692 second-feet (revised) June 13, 1941 (gage height, 6.30 feet from floodmark), from rating curve extended above 50 second-feet on basis of slope-area determination at gage height 7.2 feet in 1943; no flow during most of period.

Remarks.- Records good except those below 2 second-feet and above 50 second-feet, which are fair. No regulation; ranch diversions above station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0	46	1.4	0.1			
2						0	33	1.2	0			
3						0	28	1.1	0			
4						0	63	1.7	.3			
5						0	56	1.2	.1			
6						0	48	.7	0			
7						0	45	.5	0			
8						0	25	.4	0			
9						0	13	.4	0			
10						0	8.3	.6	.2			
11						0	5.0	.9	0			
12						1.8	3.6	.9	0			
13						3.0	3.4	.6	0			
14						2.0	3.2	.4	0			
15						1.4	2.5	.4	0			
16						.9	2.1	.3	0			
17						.7	2.1	.3	0			
18						.5	2.0	.2	0			
19						.4	1.6	0	0			
20						.1	1.4	0	0			
21						0	1.1	0	0			
22						.1	1.6	0	0			
23						2.7	2.0	.1	0			
24						11	1.8	.1	0			
25						9.5	1.6	0	0			
26						4.4	1.8	a0	0			
27						2.5	1.8	a0	0			
28						5.4	1.7	a.5	0			
29						25	2.5	.6	0			
30						51	1.7	.4	0			
31						56	-	.2	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1941	242.6	26	0	.66	482
January	0	0	0	0	0
February	0	0	0	0	0
March	178.4	56	0	5.75	354
April	410.0	63	1.1	13.7	813
May	15.1	1.7	0	.49	30
June	.7	.3	0	.02	1.4
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1941-42	604.2	63	0	1.65	1,200

a No gage-height record; discharge computed on basis of recorded range in stage and weather records.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 6,109.18 feet above mean sea level (levels by U. S. Indian Irrigation Service).

Drainage area.- 209 square miles.

Records available.- March 1938 to September 1942.

Extremes.- Maximum contents observed during year, 34,460 acre-feet Apr. 18 (gage height, 80.95 feet); minimum observed, 11,800 acre-feet Oct. 27.
1938-42: Maximum contents observed, that of Apr. 18, 1942; no contents at times during each year 1938-41.

Remarks.- Reservoir is formed by concrete arch dam; storage began Mar. 18, 1938. Capacity, 32,890 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 the Duck Valley project.

Cooperation.- Gage-height record and base data for capacity rating furnished by the U. S. Indian Irrigation Service.

Contents, in acre-feet, water year October 1941 to September 1942

Date	Contents	Date	Contents	Date	Contents
Oct. 27	11,800	May 10	33,250	Aug. 1	27,690
Nov. 26	12,180	17	33,680	8	25,980
Dec. 26	12,770	24	33,470	15	24,570
Jan. 21	13,080	June 20	32,690	22	23,090
Feb. 22	14,410	25	32,600	29	21,540
Mar. 26	15,330	July 3	32,470	Sept. 5	20,170
Apr. 10	23,540	8	32,670	12	18,810
17	34,100	11	31,880	19	17,730
18	34,460	16	31,390	26	16,520
25	33,940	25	29,320		

Note.- Reservoir gates were closed Oct. 1 to July 8, and reservoir was full and spilling Apr. 15 to July 8.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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 NW¼NW¼ 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 1942.

Average discharge.- 13 years (1917-21, 1922-25, 1936-42) 38.1 second-feet.

Extremes (regulated).- Maximum daily discharge during year, 323 second-feet June 24; practically no flow Oct. 1 to Apr. 13 when reservoir gates were closed.
1916-25, 1936-42: 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 Apr. 14-17, which are fair. Small diversions above station for irrigation. Flow regulated by Wild Horse Reservoir (see preceding page).

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

1.0	2	2.0	33	3.0	122
1.2	4	2.2	46	3.3	164
1.4	8	2.4	61	3.6	213
1.6	14	2.6	79	4.0	288
1.8	22	2.8	99	4.5	393

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	169	125	8	99	93
2							0	161	116	7	99	93
3							0	149	114	6	99	93
4							0	143	111	6	99	93
5							0	136	107	5	99	88
6							0	127	98	3	99	80
7							0	120	87	2	99	80
8							0	112	84	23	99	80
9							0	103	77	41	99	80
10							0	101	71	41	99	79
11							0	111	61	41	98	79
12							0	127	58	41	98	79
13							0	136	54	41	98	79
14							1	141	50	41	98	79
15							47	142	45	40	98	78
16							156	177	42	65	97	78
17							268	177	38	99	97	78
18							323	165	34	99	97	78
19							310	150	29	99	97	78
20							g294	141	26	98	97	77
21							g282	136	22	98	97	77
22							a260	131	20	97	96	77
23							244	135	18	97	96	77
24							213	145	15	97	96	77
25							206	142	13	98	95	77
26							190	164	12	99	95	74
27							185	185	11	99	95	66
28							162	169	11	99	95	66
29							175	150	10	99	94	66
30							172	136	10	99	94	66
31							-	135	-	99	94	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0.0	0
November	0	0	0	0.0	0
December	0	0	0	0.0	0
Calendar year 1941	4,120	109	0	11.3	8,170
January	0	0	0	0.0	0
February	0	0	0	0.0	0
March	0	0	0	0.0	0
April	3,508	323	0	117	6,960
May	4,417	185	101	142	8,760
June	1,569	125	10	52.3	3,110
July	1,887	99	2	60.9	3,740
August	3,012	99	94	97.2	5,970
September	2,365	93	66	78.8	4,690
Water year 1941-42	16,758	323	0	45.9	33,230

g Computed from graph based on gage readings.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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 SE¼ 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 1942.

Average discharge.- 16 years (1926-42), 88.0 second-feet.

Extremes.- Maximum discharge during year, 690 second-fest (regulated) Apr. 14 (gage height, 4.93 feet); minimum daily, 8 second-feet (regulated) Nov. 20.
1913, 1927-42: 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 poor. Diversions above station for irrigation. Flow regulated by Wild Horse Reservoir (see p. 118).

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jnly	Aug.	Sept.
1	11	14	12				188	369	359	56	102	100
2	12	20	12				217	339	341	51	104	100
3	12	20	15	12			273	309	373	47	104	100
4	12	20	19		20		365	299	371	43	100	98
5	14	21	18			20	335	299	351	42	98	98
6	14	20	17				323	295	337	35	98	86
7	14	18	16				315	289	321	31	98	85
8	13	17	15				385	295	307	28	98	85
9	13	17	14				458	311	285	61	98	86
10	12	16	13			25	490	333	259	62	98	86
11	12	16	12			40	534	341	239	59	98	86
12	12	14	12			50	566	365	223	59	98	88
13	12	15	12		15	50	580	363	217	54	98	88
14	12	14	12			45	646	361	194	52	98	88
15	12	14	12	15		36	496	389	178	55	98	86
16	12	14	14			32	519	480	169	52	98	88
17	12	13	14			31	635	458	161	98	98	92
18	12	12	16			30	672	438	150	107	98	92
19	12	11	15			29	661	421	135	107	98	92
20	14	8	15			25	661	416	126	109	a98	88
21	16	10				25	674	431	119	105	a97	88
22	15	11				29	679	463	112	105	95	88
23	14	12				32	619	509	104	105	95	86
24	13	*12			20	32	551	530	95	105	95	86
25	15		12			26	503	522	90	105	95	86
26	15					24	458	561	92	104	95	86
27	15	12		20		24	414	589	92	102	97	78
28	15					31	404	532	86	104	97	76
29	15				-	47	377	469	76	104	97	75
30	14				-	88	367	421	64	104	98	73
31	13	-			-	139	-	391	-	104	98	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	409	16	11	13.2	811
November	431	21	8	14.4	855
December	416	19	-	13.4	825
Calendar year 1941	23,762	362	8	65.1	47,140
January	462	-	-	14.9	916
February	495	-	-	17.7	982
March	1,070	139	-	34.5	2,120
April	14,365	679	168	479	28,490
May	12,588	589	289	406	24,970
June	6,026	373	64	201	11,950
July	2,355	109	28	76.0	4,670
August	3,037	104	95	98.0	6,020
September	2,634	100	73	87.8	5,220
Water year 1941-42	44,288	679	8	121	87,830

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station at Owyhee.
Note.- Stage-discharge relation affected by ice Nov. 17 to Mar. 22.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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, one mile upstream from the China diversion dam, and 2½ miles southeast of Owyhee.

Drainage area.- 458 square miles.

Records available.- March 1939 to September 1942.

Extremes (regulated).- Maximum discharge during year, 934 second-feet May 11 (gage height, 7.62 feet); minimum daily, 12 second-feet Nov. 20.
1939-42: Maximum discharge, 1,430 second-feet Mar. 25, 1939 (gage height, 6.76 feet, datum then in use), from rating curve extended above 240 second-feet; minimum daily, 2 second-feet Sept. 15-18, 1940.

Remarks.- Records good except those for periods of ice effect, which are poor. Diversions above station for irrigation. Flow regulated by Wild Horse Reservoir (see p. 118).

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	22	18			32	279	488	530	89	109	104
2	16	28	18			32	323	446	504	83	110	104
3	16	28	26			32	386	412	571	78	111	104
4	17	26	27	18	30	33	551	394	564	72	110	101
5	18	27	26			32	485	405	510	70	105	101
6	18	26	26			32	454	418	482	66	106	94
7	18	24	24			35	416	420	465	61	105	90
8	18	23	22			33	479	439	437	56	105	89
9	18	22	21			33	602	458	400	68	104	89
10	17	22	20			43	607	516	368	80	104	90
11	17	22	19			67	676	514	337	79	104	90
12	17	22	18			79	757	528	314	77	107	91
13	17	21	18		25	79	814	526	288	73	106	91
14	16	20	18			68	906	517	265	72	106	92
15	16	20	18	25		60	799	553	248	72	105	91
16	16	21	20			51	734	667	228	70	105	90
17	16	22	18			47	825	650	211	94	106	93
18	17	21	20			53	865	627	200	116	105	94
19	16	20	20			42	862	618	186	117	105	94
20	20	12	21			38	869	632	172	117	104	92
21	22	14				38	888	677	160	115	104	91
22	22	15				46	894	734	149	114	104	91
23	20	16				50	835	762	141	113	103	91
24	20	16			32	50	770	799	131	111	102	91
25	22	18				43	679	784	126	111	102	91
26	22	18	18			39	609	797	132	110	102	91
27	22	18				39	557	814	130	110	102	87
28	23	19		30		48	535	766	122	110	104	84
29	23	17			-	67	512	689	109	110	104	83
30	22	18			-	111	490	623	96	108	104	81
31	20	-			-	199	-	571	-	108	104	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	560	23	16	18.7	1,150
November	620	28	12	20.7	1,230
December	616	27	-	19.9	1,220
Calendar year 1941	32,505	547	12	89.1	64,480
January	768	-	-	24.8	1,520
February	793	-	-	28.3	1,570
March	1,651	199	32	53.3	3,270
April	19,458	906	279	649	38,590
May	18,264	814	394	589	36,230
June	8,576	571	96	286	17,010
July	2,832	117	58	91.4	5,620
August	3,257	111	102	105	6,460
September	2,765	104	81	92.2	5,480
Water year 1941-42	60,180	906	12	165	119,400

Note.- Stage-discharge relation affected by ice Nov. 20-22, Dec. 4-12, Dec. 21 to Mar. 2.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

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Owyhee River above Owyhee Reservoir, Oreg.

Location.- Water-stage recorder, lat. 43°13', long. 117°30', in SE¼ sec. 18, T. 27 S., R. 43 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 1942 in reports of Geological Survey. April 1929 to September 1936 in reports of Oregon State engineer.

Average discharge.- 13 years, 782 second-feet.

Extremes.- Maximum discharge during year, 15,200 second-feet Apr. 5 (gage height, 12.36 feet); minimum recorded, 182 second-feet Jan. 21 (gage height, 3.85 feet).

1929-42: 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 (gage height, 3.57 feet).

Remarks.- Records good except those for periods of ice effect, 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 furnished by Bureau of Reclamation.

Rating tables, water year 1941-42, except period of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 5

4.0	222	5.2	720	8.0	3,390
4.2	282	5.6	970	9.0	5,180
4.4	350	6.0	1,260	10.0	7,550
4.6	426	6.5	1,680	11.0	10,600
4.9	560	7.0	2,150	12.0	13,900

Apr. 6 to Sept. 30

8.0	3,360
9.0	4,960
10.0	7,090
11.0	9,800

Note.- Same as preceding table below 8.0 feet.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	208	292	257	b200	687	399	6,250	2,430	3,920	520	219	200
2	208	322	260	b205	756	399	8,170	2,520	3,610	515	217	195
3	208	318	266	b210	944	418	9,090	2,640	3,420	484	211	195
4	214	376	266	b210	1,210	438	10,600	2,600	3,420	446	211	195
5	214	361	276	b210	1,170	479	13,600	2,470	2,990	414	208	195
6	219	361	279	b220	1,170	590	10,200	2,630	2,900	387	208	198
7	219	372	282	239	1,280	756	10,800	2,660	2,780	399	219	200
8	222	380	285	282	1,170	692	10,500	2,370	2,520	387	217	200
9	222	365	312	285	1,160	853	9,620	2,140	2,340	343	214	198
10	222	343	318	292	1,040	1,200	9,140	2,040	2,180	318	214	206
11	225	322	305	295	866	2,380	8,500	2,100	2,020	302	211	203
12	228	308	292	285	780	2,920	7,640	2,150	1,840	289	206	206
13	228	298	279	279	665	3,510	7,040	2,120	1,670	282	208	208
14	228	292	276	273	575	3,100	6,550	2,080	1,520	270	208	208
15	228	282	295	282	510	2,400	6,130	2,090	1,390	263	211	208
16	231	276	285	289	479	1,780	5,890	2,140	1,250	263	208	208
17	234	273	279	292	501	1,450	5,420	2,130	1,160	270	206	203
18	234	276	285	285	450	1,280	5,000	2,420	1,080	266	203	206
19	234	279	305	282	406	1,200	4,600	2,560	970	266	200	206
20	234	276	298	282	383	1,170	4,230	2,440	886	266	192	208
21	236	273	322	276	383	1,080	3,970	2,180	810	260	195	211
22	239	279	368	b275	399	1,080	3,680	2,060	744	257	195	208
23	242	276	450	b285	446	1,280	3,510	1,980	687	245	195	206
24	245	270	479	b290	422	1,440	3,400	2,120	638	242	192	206
25	270	248	430	302	426	1,610	3,290	2,280	605	239	192	203
26	276	234	387	302	418	1,570	3,060	2,470	560	231	195	203
27	273	254	343	340	399	1,320	2,860	2,860	525	225	200	263
28	273	245	285	446	395	1,100	2,650	3,020	506	222	206	222
29	282	248	239	626	-	1,050	2,520	4,100	488	222	203	214
30	289	257	236	510	-	1,560	2,450	4,240	497	214	203	211
31	295	-	285	575	-	3,520	-	4,230	-	217	203	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,380	295	208	238	14,640
November	8,956	380	234	299	17,760
December	9,524	479	236	307	18,890
Calendar year 1941	305,127	7,280	198	836	605,200
January	9,414	626	200	304	18,670
February	19,490	1,280	383	696	38,660
March	44,024	3,520	399	1,420	87,320
April	190,360	13,600	2,450	6,345	377,600
May	78,270	4,240	1,980	2,525	155,200
June	49,926	3,920	488	1,664	99,030
July	9,524	520	214	307	18,890
August	6,370	219	192	205	12,630
September	6,193	263	195	206	12,280
Water year 1941-42	439,431	13,600	192	1,204	871,600

b Stage-discharge relation affected by ice.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter (clock time not changed).

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 1942.

Extremes.- Maximum contents observed during year, 1,121,800 acre-feet Apr. 17 to May 10, May 12 to June 16 (elevation, 2,670.00 feet); minimum observed, 857,700 acre-feet Sept. 30 (elevation, 2,647.07 feet).

1932-42: 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), and 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 1941 to September 1942

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30	2,649.46	882,700	-
Oct. 31	2,647.80	865,300	-17,400
Nov. 30	2,649.47	882,800	+17,500
Dec. 31	2,651.18	901,000	+18,200
Calendar year 1941	-	-	+58,500
Jan. 31	2,652.72	917,600	+16,600
Feb. 28	2,656.42	958,700	+41,100
Mar. 31	2,662.90	1,034,100	+75,400
Apr. 30	2,670.00	1,121,800	+87,700
May 31	2,670.00	1,121,800	0
June 30	2,668.22	1,099,300	-22,500
July 31	2,660.94	1,010,800	-88,500
Aug. 31	2,652.81	918,600	-92,200
Sept.30	2,647.07	857,700	-60,900
Water year 1941-42	-	-	-25,000

† Hour of reading gage not known.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter (clock time not changed).

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 2,343.67 feet above mean sea level (levels by Bureau of Reclamation).

Drainage area.- 11,160 square miles.

Records available.- February 1929 to September 1942.

Average discharge.- 13 years, 425 second-feet.

Extremes.- Maximum discharge during year, 10,300 second-feet Apr. 8 (gage height, 10.70 feet); minimum recorded, 7.5 second-feet Oct. 28 to Mar. 19 (gates closed at Owyhee Dam).

1929-42: 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. Diversions above station for irrigation. Flow regulated by Owyhee Reservoir (see p.123).

Cooperation.- Water-stage recorder inspected and some discharge measurements furnished by Bureau of Reclamation.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

-0.1	9	1.0	103	3.0	670	6.0	2,900
.0	13	1.3	150	3.5	940	7.0	4,060
.2	21	1.6	207	4.0	1,240	8.0	5,450
.4	36	1.9	278	4.5	1,590	9.0	7,100
.6	55	2.2	359	5.0	1,970	11.0	10,900
.8	78	2.5	458	5.5	2,400		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	145	7.5					496	1,320	4,100	203	189	157
2	145	7.5					496	1,030	3,720	203	189	157
3	145	7.5					496	898	3,030	203	189	157
4	147						3,580	952	2,260	205	187	157
5	130						7,770	1,090	2,120	205	187	157
6	127						8,420	1,770	2,510	205	187	157
7	128						8,610	1,870	2,390	205	187	157
8	133						9,420	1,580	1,560	205	187	157
9	133						9,840	1,520	1,220	205	187	157
10	133					7.5	9,580	1,230	1,170	205	187	157
11	133						8,740	404	1,130	205	187	157
12	133						7,640	241	849	207	185	140
13	133						5,830	211	628	207	185	127
14	62						5,150	387	623	207	185	127
15	9.0						4,720	837	480	207	185	127
16	9.0	7.5					3,570	1,270	258	207	185	127
17	9.0						3,960	1,350	201	207	185	127
18	9.0						4,750	1,280	201	207	185	127
19	9.0					445	3,820	1,300	201	207	185	127
20	9.0					609	3,450	1,290	201	207	185	127
21	46					496	3,730	1,070	201	193	183	127
22	122					496	2,040	1,040	201	187	191	127
23	122					496	1,880	1,200	201	187	195	127
24	78					496	2,500	871	201	187	195	127
25	9.0					496	2,480	864	201	189	195	127
26	7.8					496	1,800	958	201	189	195	127
27	7.8					496	1,020	1,040	201	189	195	127
28	7.5					496	1,470	1,380	201	189	193	127
29	7.5					496	1,500	2,090	203	189	187	127
30	7.5					496	1,220	3,420	203	189	157	127
31	7.5	-				496	-	4,200	-	189	157	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,303.6	147	7.5	74.3	4,570
November	225.0	-	-	7.5	446
December	232.5	-	-	7.5	461
Calendar year 1941	64,109.2	2,510	6.9	176	127,200
January	232.5	-	-	7.5	461
February	210.0	-	-	7.5	417
March	6,645.0	609	-	214	13,180
April	129,978	9,840	496	4,333	257,800
May	39,963	4,200	211	1,289	79,270
June	30,866	4,100	201	1,029	61,220
July	6,189	207	187	200	12,280
August	5,771	195	157	186	11,450
September	4,153	157	127	138	8,240
Water year 1941-42	226,768.6	9,840	-	621	449,800

Note.- No gage-height record Nov. 4 to Mar. 18; discharge assumed constant (gates closed at Owyhee Dam).

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter (clock time not changed).

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 1942.

Average discharge.- 31 years, 1,093 second-feet.

Extremes.- Maximum discharge during year, 6,240 second-feet May 26 (gage height, 6.21 feet); minimum, 280 second-feet Sept. 15; minimum gage height, 2.11 feet Oct. 21.
1911-42: 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 good except those for periods of ice effect, which are fair. No diversions or regulation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	334	351	468	468	559	408	1,040	1,620	2,620	2,340	518	335
2	356	351	538	462	526	426	1,100	1,540	2,540	2,330	497	330
3	340	356	2,260		532	432	1,190	1,440	2,600	2,220	490	320
4	368	587	1,740		538	420	1,350	1,430	2,780	2,110	476	310
5	444	519	1,200		526	438	1,390	1,360	3,140	1,980	476	305
6	414	462	1,010		526	450	1,330	1,350	3,520	1,860	462	300
7	391	426	874		512	438	1,380	1,380	4,590	1,710	448	300
8	385	408	804		500	450	1,530	1,510	5,160	1,570	441	295
9	368	403	762		500	480	1,780	1,710	5,010	1,430	427	295
10	368	391	778		474	532	2,260	1,900	4,280	1,300	414	315
				b400								
11	362	379	668		456	601	2,480	1,830	3,600	1,210	408	315
12	362	385	594		456	638	3,080	1,760	3,100	1,130	402	305
13	351	397	660		397	622	3,430	1,670	2,950	1,040	396	305
14	351	580	668		379	601	3,880	1,610	2,950	987	390	290
15	345	1,440	668		414	573	3,310	1,730	3,220	954	384	290
16	340	1,090	722		493	559	2,740	1,730	3,240	910	378	290
17	340	855	787		426	538	2,630	1,660	2,700	880	366	295
18	334	738	770		334	538	2,370	1,620	2,630	830	360	310
19	340	638	*778	432	374	506	2,260	1,610	2,560	792	355	315
20	362	526	940	414	*b350	486	2,460	1,670	2,370	747	345	310
21	345	519	1,000	426	b360	506	2,940	1,960	2,200	720	345	305
22	340	500	864	b440	b380	526	3,540	2,640	2,160	696	340	300
23	334	432	804	*b460	b400	538	3,100	4,140	2,320	672	335	295
24	334	512	746	b480	414	532	2,660	4,380	2,530	648	330	295
25	334	512	660	b500	414	519	2,400	5,060	2,500	624	340	290
26	340	493	594	538	403	512	2,110	5,800	2,460	608	340	290
27	334	456	526	552	397	526	1,920	4,570	2,130	584	335	290
28	356	456	660	622	408	566	1,810	3,730	1,940	568	355	285
29	366	456	682	601	-	622	1,720	3,220	1,950	553	366	285
30	351	468	645	532	-	738	1,630	2,980	2,060	539	355	285
31	345	-	587	545	-	893	-	2,950	-	525	345	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	11,036	444	334	356	21,890
November	16,086	1,440	351	536	31,910
December	25,457	2,260	468	821	50,490
Calendar year 1941	329,500	4,290	300	903	653,600
January	13,872	622	400	447	27,510
February	12,478	559	334	446	24,750
March	16,614	893	408	536	32,950
April	66,820	3,880	1,040	2,227	132,500
May	73,560	5,800	1,350	2,373	145,900
June	87,810	5,160	1,940	2,927	174,200
July	35,067	2,340	525	1,131	69,550
August	12,219	518	330	394	24,240
September	9,050	335	285	302	17,950
Water year 1941-42	380,069	5,800	285	1,041	753,800

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 E½ 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 1942.

Extremes.- Maximum contents observed during year, 300,000 acre-feet June 16 (elevation, 3,218.7 feet); sluice gates open and natural flow passing through reservoir Oct. 16, 17.

1917-42: Maximum contents observed, 300,900 acre-feet May 4, 5, 1939 (elevation, 3,219.0 feet); no storage during period in each of several years when 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, 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36,890	26,640	61,820	147,400	201,000	234,600	257,900	263,700	297,200	297,500	204,100	79,860
2	34,730	27,490	61,430	148,400	201,900	235,600	262,200	281,300	297,800	297,800	200,300	77,200
3	32,430	28,840	62,860	150,200	203,100	236,700	267,100	279,000	297,900	297,800	196,400	74,400
4	29,960	30,460	70,530	151,800	204,300	238,000	271,600	277,100	298,100	297,200	192,700	71,830
5	27,760	32,950	75,660	153,100	205,500	238,500	275,000	275,600	298,400	296,700	188,500	69,100
6	25,690	34,890	78,740	154,400	206,800	238,800	279,800	274,700	299,000	295,600	184,800	66,370
7	23,840	36,730	82,100	155,600	207,800	239,800	283,700	273,500	299,000	294,100	180,800	63,510
8	22,270	38,350	84,950	157,400	209,200	238,800	286,100	272,600	299,400	292,100	176,800	60,520
9	20,630	39,990	87,500	159,200	210,500	238,500	287,300	272,000	299,700	289,400	173,100	57,360
10	18,700	41,520	90,220	161,300	211,800	238,500	287,900	272,000	299,400	287,000	169,100	54,000
11	16,260	42,960	92,940	163,200	213,000	239,300	288,000	272,900	298,400	284,000	165,300	50,920
12	13,630	44,600	95,180	165,100	214,000	240,800	288,500	273,500	299,000	280,700	161,100	47,900
13	10,870	46,000	97,540	166,500	215,000	241,600	290,000	273,500	299,400	277,100	157,100	45,000
14	8,030	47,600	100,100	168,200	215,500	242,900	291,600	273,500	299,400	273,500	152,700	41,970
15	5,125	50,040	102,500	169,900	216,200	243,400	293,200	273,200	299,400	269,700	148,600	38,840
16	0	54,720	105,400	171,000	217,200	244,200	291,600	273,200	300,000	266,000	144,000	37,950
17	0	58,320	107,900	172,200	218,000	244,500	287,300	273,500	298,600	262,200	139,400	37,780
18	2,745	61,170	111,000	174,600	219,500	244,500	286,600	273,200	298,700	258,200	135,000	37,620
19	4,513	63,770	113,900	176,200	220,800	244,500	284,900	272,900	298,700	254,200	130,600	37,620
20	6,695	65,590	117,200	177,500	222,100	244,500	284,900	272,000	298,400	250,300	126,100	37,620
21	8,900	66,370	120,600	179,000	223,400	244,500	286,100	271,800	298,100	246,400	121,500	37,780
22	11,200	66,630	124,200	180,400	226,000	244,500	287,600	272,300	297,800	242,700	117,200	38,030
23	13,030	66,760	127,200	182,100	227,800	244,200	289,400	276,500	297,800	239,000	112,700	35,930
24	14,640	66,240	129,900	184,200	229,400	244,500	290,400	285,200	298,100	235,400	108,400	32,950
25	16,240	65,590	132,600	186,400	230,400	244,500	291,000	291,000	298,300	231,700	104,000	30,680
26	17,770	64,940	134,800	189,200	231,500	244,500	291,000	296,900	298,400	227,600	99,920	28,230
27	19,380	64,160	136,600	191,300	232,500	244,700	289,700	298,100	298,100	223,900	96,180	25,750
28	20,890	63,120	138,000	193,600	233,800	245,000	288,800	298,600	297,500	219,800	92,460	23,440
29	22,540	62,730	140,200	196,200	-	247,500	287,800	297,800	297,300	216,000	89,100	20,840
30	24,120	62,210	142,800	198,300	-	250,600	286,100	297,800	297,200	212,000	86,000	18,460
31	25,690	-	146,000	199,800	-	254,000	-	297,500	-	208,000	83,000	-

Monthly elevation and contents, water year October 1941 to September 1942

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30.....	3,085.1	39,090	-
Oct. 31.....	3,066.9	25,690	-13,400
Nov. 30.....	3,106.7	62,210	+36,520
Dec. 31.....	3,157.5	146,000	+83,790
Calendar year 1941.....	-	-	+48,970
Jan. 31.....	3,182.2	199,800	+53,800
Feb. 28.....	3,195.7	233,800	+34,000
Mar. 31.....	3,203.2	254,000	+20,200
Apr. 30.....	3,214.2	286,100	+32,100
May 31.....	3,217.9	297,500	+11,400
June 30.....	3,217.8	297,200	-300
July 31.....	3,185.6	208,000	-89,200
Aug. 31.....	3,122.0	83,000	-125,000
Sept.30.....	3,053.5	18,460	-64,540
Water year 1941-42.....	-	-	-20,630

† Elevation at about 8 a.m.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 31 years, 2,188 second-feet.

Extremes.- Maximum discharge during year, 9,400 second-feet May 27 (gage height, 7.48 feet); minimum, 3 second-feet Dec. 8 (gage height, 0.76 foot).
1911-42: Maximum discharge, 17,600 second-feet May 11, 1928 (gage height, 9.55 feet); minimum, 2 second-feet several days in 1935, 1936, 1939, 1941; minimum gage height, 0.62 foot Nov. 21, 22, 1935.

Remarks.- Records good except those below 20 second-feet, which are fair. Flow regulated by Arrowrock Reservoir (see preceding page). No diversions above station.

Cooperation.- Gage-height record furnished by Bureau of Reclamation. Two discharge measurements furnished by watermaster for Boise River.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,720	250	1,080	S	435	328	16	4,660	4,980	3,830	2,900	2,050
2	1,720	211	865	b7	541	328	17	4,550	4,980	4,030	2,900	1,840
3	1,780	8	562	b7	632	333	306	4,130	5,090	3,930	2,820	1,840
4	1,780	7	306	b7	639	472	1,140	3,830	5,310	3,930	2,820	1,910
5	1,780	6	310	b7	639	764	953	3,540	5,760	3,930	2,820	1,840
6	1,650	5	144	b7	646	883	675	3,440	6,710	3,930	2,820	1,910
7	1,530	5	8	b7	541	973	1,720	3,440	7,820	3,930	2,820	1,910
8	1,470	5	6	b7	478	1,060	2,650	3,540	8,860	3,930	2,740	1,980
9	1,530	5	7	b7	478	1,080	3,730	3,730	8,860	3,930	2,740	2,120
10	1,650	5	7	b7	478	1,080	4,760	3,640	8,340	3,830	2,740	2,120
11	1,780	6	7	b7	*478	291	5,420	3,540	6,710	3,830	2,740	2,120
12	1,780	6	7	b6	472	796	5,860	3,640	5,880	3,730	2,740	2,050
13	1,720	6	7	b6	472	820	6,470	3,640	5,650	3,730	2,820	2,120
14	1,650	6	9	b6	472	838	7,070	3,640	5,650	3,730	2,900	2,120
15	1,780	6	10	b6	472	892	7,820	3,640	5,760	3,640	2,900	1,570
16	1,150	6	9	b6	478	1,000	7,570	3,540	6,590	3,640	2,900	676
17	457	6	9	b6	257	1,110	6,710	3,440	5,310	3,640	2,910	639
18	198	6	12	b6	22	1,140	6,110	3,540	4,980	3,540	2,820	611
19	74	100	*11	b6	16	1,140	5,420	3,640	4,980	3,350	2,820	576
20	6	351	10	b6	25	1,140	5,090	3,730	4,760	3,350	2,820	541
21	4	611	10	b6	12	1,140	5,650	3,830	4,440	3,260	2,820	508
22	4	732	9	*b6	12	1,150	6,350	3,830	4,240	3,170	2,820	1,160
23	4	829	9	b6	123	1,150	6,350	3,930	4,240	3,080	2,820	1,840
24	4	1,060	8	b6	284	1,150	5,420	4,660	4,440	3,080	2,740	1,840
25	4	1,230	8	b6	315	1,150	5,090	5,760	4,550	3,080	2,650	1,720
26	4	1,260	7	b6	315	1,090	5,090	8,600	4,550	3,080	2,490	1,780
27	4	1,200	8	b6	324	1,040	4,760	8,340	4,240	2,990	2,420	1,720
28	5	1,150	7	b6	324	521	4,660	7,570	3,830	2,990	2,340	1,720
29	5	1,110	7	b62	-	14	4,340	6,590	3,640	2,990	2,190	1,720
30	5	1,090	8	390	-	19	4,660	6,110	3,640	2,900	2,120	1,410
31	76	-	8	435	-	16	-	5,880	-	2,900	2,120	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	27,324	1,780	4	881	54,200
November	11,278	1,260	5	376	22,370
December	3,475	1,080	6	112	6,890
Calendar year 1941	630,051	8,090	4	1,726	1,250,000
January	1,057	435	6	34.1	2,100
February	10,360	646	12	370	20,550
March	24,908	1,150	14	803	49,400
April	131,897	7,820	16	4,397	261,600
May	139,590	8,600	3,440	4,503	276,900
June	164,790	8,860	3,640	5,493	326,900
July	108,900	4,030	2,900	3,513	216,000
August	84,020	2,910	2,120	2,710	166,700
September	47,961	2,120	508	1,599	95,130
Water year 1941-42	755,560	8,860	4	2,070	1,499,000

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Boise River at Boise, Idaho

Location.- Water-stage recorder, lat. 43°36'00", long. 116°11'30", in NW¼NW¼ sec. 14, T. 3 N., R. 2 E., 700 feet upstream from Broadway Bridge at Boise.

Records available.- February 1940 to September 1942.

Extremes.- Maximum discharge during year, 7,310 second-feet May 27 (gage height, 7.02 feet); minimum, 8 second-feet Dec. 6, 7 (gage height, 1.94 feet).
1940-42: Maximum discharge, that of May 27, 1942; minimum recorded, 8 second-feet Mar. 8-15, Dec. 6, 7, 1941; minimum gage height recorded, 1.93 feet Mar. 8, 12, 14, 1941.

Remarks.- Records good except those for periods of ice effect or doubtful or no gage-height record, which are fair. Flow regulated by Arrowrock Reservoir (see p. 126). New York, Ridenbaugh, and several smaller canals divert between Moore Creek and this station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	463	152	10	119	96	469	618	2,040	4,820	1,250	750	a550
2	392	66	9	66	32	240	733	2,120	4,460	1,400	760	a350
3	361	125	10	94	27	86	678	1,920	4,340	1,370	770	a300
4	375	113	10	99	34	22	813	1,810	4,230	1,400	770	a350
5	336	148	9	76	32	15	939	1,720	4,230	1,370	790	a300
6	336	134	8	71	44	14	152	1,490	4,700	1,350	780	a350
7	358	119	113	76	125	12	773	1,370	5,570	1,360	750	361
8	353	113	110	b90	166	12	1,760	1,410	6,490	1,360	730	406
9	326	107	101	b120	152	12	2,800	1,410	6,490	1,320	722	522
10	294	104	128	b130	141	19	3,950	1,410	5,960	1,190	662	637
11	274	101	113	b140	131	46	4,780	1,340	4,340	1,160	637	629
12	269	99	116	b140	*128	19	5,400	1,370	3,130	1,140	654	637
13	299	96	122	b130	104	18	6,020	1,340	2,710	1,150	645	645
14	299	104	131	b130	91	17	6,260	1,310	2,630	1,130	670	629
15	294	148	158	b125	99	16	6,650	1,300	2,630	1,120	679	645
16	650	193	181	*b125	119	15	6,280	1,250	3,320	1,130	679	682
17	701	169	299	b125	155	16	5,650	1,170	2,630	1,100	679	621
18	336	152	245	b125	122	15	4,660	1,160	2,020	1,040	662	597
19	279	113	284	b120	128	34	3,840	1,180	2,100	963	954	565
20	131	24	*336	b110	122	107	3,200	1,180	1,850	920	654	537
21	99	18	364	b100	166	138	3,300	1,230	1,500	900	670	501
22	83	16	320	b110	177	152	4,180	1,240	1,150	860	a700	488
23	81	13	274	144	166	162	4,300	1,450	1,030	850	a700	476
24	73	13	254	177	398	173	3,300	2,160	1,200	830	a650	367
25	73	12	209	245	482	177	2,610	3,090	1,300	830	a600	239
26	71	11	162	264	457	141	2,520	5,650	1,350	820	a750	234
27	73	10	78	274	482	60	2,280	6,900	1,230	790	a700	230
28	81	10	141	274	463	81	2,040	6,090	1,230	800	a700	d230
29	83	10	193	259	-	386	1,660	5,570	1,210	830	a600	d230
30	81	10	205	138	-	439	1,940	5,320	1,130	770	a600	d200
31	83	-	181	32	-	534	-	5,440	-	740	a600	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	8,027	701	71	259	15,920
November	2,503	193	10	83.4	4,960
December	4,784	364	8	154	9,490
Calendar year 1941	238,563	5,330	8	654	473,200
January	4,228	274	32	136	8,390
February	4,839	482	27	173	9,600
March	3,647	534	12	118	7,230
April	94,106	6,650	152	3,137	186,700
May	73,440	6,900	1,160	2,369	145,700
June	91,010	6,490	1,030	3,034	180,500
July	33,243	1,400	740	1,072	65,940
August	21,367	790	600	689	42,380
September	13,486	662	200	450	26,750
Water year 1941-42	354,682	6,900	8	972	703,600

* Winter discharge measurements made on this day.
a No gage-height record; discharge computed on basis of records for other stations on Boise River and data regarding diversions furnished by watermaster.
b Stage-discharge relation affected by ice.
d Doubtful gage-height record; discharge computed on basis of records for other stations on Boise River.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SE¼ 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 1942.

Average discharge.- 20 years (1920-22, 1924-42), 1,016 second-feet.

Extremes.- Maximum discharge during year, 6,630 second-feet Apr. 16 (gage height, 6.93 feet); minimum, 18 second-feet Aug. 1 (gage height, 0.18 foot).
1920-42: Maximum discharge observed, 14,500 second-feet May 19, 20, 1921; maximum gage height, 9.12 feet May 3, 1938; minimum discharge, 10 second-feet Aug. 18, 1920.

Remarks.- Records good except those for May 20-22, which are poor. Station is below all large diversions for irrigation in Boise Valley; many diversions above. Flow regulated by Arrowrock Reservoir (see p.126).

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	169	620	440	528	666	950	942	1,060	5,150	98	20	38
2	206	714	452	504	708	958	1,030	1,480	4,130	81	21	40
3	256	620	446	518	702	683	1,130	1,400	4,130	82	24	38
4	271	677	440	436	799	542	1,060	1,340	3,970	65	26	35
5	362	637	444	444	926	491	1,580	1,380	3,810	68	27	35
6	383	637	440	436	799	500	1,000	1,090	3,650	44	26	35
7	436	615	436	436	895	482	578	766	4,050	34	25	36
8	478	594	518	452	911	478	1,420	562	4,970	27	31	39
9	473	583	542	482	903	482	2,420	461	5,510	27	29	38
10	469	572	542	538	887	500	3,350	604	5,330	23	27	48
11	428	567	557	578	835	538	4,290	739	4,630	23	26	44
12	380	557	547	578	793	552	4,800	733	2,980	23	24	48
13	341	557	542	562	746	518	5,510	793	2,300	24	20	49
14	351	562	557	542	696	509	5,870	696	1,920	26	20	53
15	338	572	567	528	696	496	6,250	689	1,920	29	20	82
16	308	599	578	523	689	486	6,440	772	2,360	29	22	82
17	648	631	594	504	631	486	5,870	702	2,980	27	22	91
18	583	615	648	491	671	482	4,460	594	1,580	40	24	106
19	355	594	720	518	604	469	3,890	428	1,340	38	23	102
20	540	557	772	478	599	473	2,980	e300	1,220	36	24	158
21	626	482	835	444	615	547	2,420	e200	857	31	22	173
22	528	465	828	440	666	567	2,840	154	500	31	21	137
23	504	452	786	486	637	578	3,280	267	259	29	22	117
24	500	448	759	514	666	578	2,840	1,180	144	28	22	98
25	528	452	696	588	926	583	1,800	2,100	136	25	24	112
26	523	444	643	714	975	578	1,580	3,350	166	22	26	138
27	528	440	578	895	966	552	1,400	5,870	240	25	32	121
28	637	444	538	992	966	491	1,180	5,870	196	28	34	133
29	626	448	588	895	-	567	1,030	5,870	182	23	35	131
30	578	452	643	835	-	772	813	5,510	137	22	38	162
31	620	-	643	759	-	842	-	5,510	-	23	38	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	13,973	648	169	451	27,720
November	16,607	714	440	554	32,940
December	18,321	835	436	591	36,340
Calendar year 1941	184,131	4,160	20	504	365,200
January	17,638	992	436	569	34,980
February	21,573	975	599	770	42,790
March	17,730	950	469	572	35,170
April	84,053	6,440	578	2,802	166,700
May	52,470	5,870	154	1,693	104,100
June	70,749	5,510	137	2,358	140,300
July	1,131	98	22	36.5	2,240
August	795	38	20	25.6	1,580
September	2,519	173	35	84.0	5,000
Water year 1941-42	317,559	6,440	20	870	629,900

e Discharge estimated (no gage-height record May 21).
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1919-42 are available; record of daily diversions after 1915 on file in office of Idaho Commissioner of Reclamation.

Daily gage-height records obtained, frequent discharge measurements made, and records summarized under direction of W. E. Welsh, water master 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 1942

Canal	Diversion
Main canal of Bureau of Reclamation	654,790
Penitentiary	1,560
Ridenbaugh	143,330
Bubb	4,120
Consumers (Cruzen)	6,580
Boise City No. 1	9,220
Settlers	42,710
Thurman Mill	11,520
Farmers Union (includes Boise Valley diversion)	54,240
New Union (Little Union)	3,490
New Dry Creek (Dry Creek)	17,610
Ballantine	3,290
Eagle Island canals (7)	12,610
Middleton Irrigation Association (Middleton Water Co.)	30,030
Middleton Mill ditch	13,740
Phyllis	92,790
Eureka No. 1	8,330
Pioneer (Little Pioneer)	7,050
Canyon County	18,330
Caldwell High Line	17,700
Riverside No. 2	51,720
Farmers Cooperative	79,500
Canyon (Campbell)	5,000
Seibenberg	2,080
Pioneer Dixie	13,450
Eureka No. 2	12,790
Upper Center Point	3,560
Lower Center Point	4,160
Miscellaneous	8,220
Total	1,333,520

Combined monthly discharge of canals diverting from Boise River, Idaho, during irrigation season of 1942

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April	5,207	15	2,916	173,500
May	5,162	2,695	4,465	274,500
June	5,449	2,695	4,687	278,900
July	4,728	3,619	4,293	264,000
August	3,625	2,798	3,382	207,900
September	2,828	1,192	2,263	134,700
The period	-	-	-	1,333,500

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

South Fork of Boise River near Lenox, Idaho

Location.- Water-stage recorder, lat. 43°30', long. 115°41', in sec. 24, T. 2 N., R. 6 E., 1½ 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 1942.

Average discharge.- 31 years, 945 second-feet.

Extremes.- Maximum discharge during year, 4,510 second-feet May 26 (gage height, 7.00 feet); minimum, 222 second-feet Sept. 4.

1911-42: Maximum discharge, 9,200 second-feet May 15, 1917 (gage height, 9.53 feet), from rating curve extended above 6,500 second-feet; minimum, 111 second-feet Aug. 10, 1934; minimum gage height, 1.68 feet Sept. 5-7, 1931.

Remarks.- Records good except those for periods of ice effect, which are fair. Some water stored in Little Camas Reservoir and diverted for irrigation of about 5,000 acres of land in vicinity of Mountain Home.

Rating table, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

2.0	196	4.0	1,145	6.0	3,055
2.4	336	4.4	1,435	6.4	3,590
2.8	498	4.8	1,785	6.9	4,350
3.2	685	5.2	2,170		
3.6	900	5.6	2,590		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	273	325	375	f375	423	b360	930	1,650	2,270	1,520	403	266
2	259	325	431		440	379	1,050	1,600	2,170	1,520	395	259
3	266	325	1,150		440	383	1,140	1,480	2,220	1,400	391	231
4	276	411	1,180		*460	367	1,280	1,480	2,380	1,360	379	225
5	309	464	735		448	367	1,360	1,440	2,590	1,280	363	225
6	317	395	560		436	367	1,360	1,360	2,880	1,180	348	225
7	309	367	524		423	363	1,440	1,400	3,450	1,110	336	225
8	306	348	469		419	359	1,650	1,480	3,880	1,080	328	225
9	298	340	452		407	383	1,930	1,650	3,880	960	321	225
10	294	336	498	b325	395	423	2,380	1,880	3,520	900	321	225
11	294	332	481		363	464	2,700	1,880	3,060	828	313	238
12	294	328	415		371	494	3,060	1,780	2,700	784	306	252
13	309	328	*423		340	507	3,450	1,740	2,480	740	302	252
14	313	352	485		317	494	3,880	1,650	2,380	710	294	245
15	313	560	481		340	469	3,380	1,700	2,380	720	294	242
16	309	602	485		363	469	2,880	1,650	2,540	700	294	238
17	309	507	511		b325	*464	2,760	1,560	2,270	660	276	231
18	309	456	511		b300	473	2,590	1,560	2,120	631	266	235
19	309	411	502	b350	b300	469	2,480	1,520	2,070	607	262	252
20	313	344	511	b375	b300	440	2,590	1,560	1,930	583	255	259
21	328	302	538	b375	b300	452	3,120	1,780	1,780	556	255	269
22	332	332	481	b375	b300	485	3,660	2,320	1,700	533	255	259
23	332	287	436	b375	b310	498	3,380	3,380	1,700	511	255	255
24	321	273	456	b375	b320	516	2,880	3,730	1,780	490	255	252
25	317	348	407	b400	b330	511	2,590	3,730	1,780	473	259	242
26	321	344	399	b425	b330	511	2,270	4,350	1,780	464	262	242
27	325	332	328	b450	b340	529	2,070	3,880	1,650	452	266	238
28	340	325	375	498	b350	551	1,980	3,320	1,520	444	273	242
29	367	344	533	490	-	607	1,830	2,880	1,440	431	276	242
30	348	352	490	415	-	680	1,740	2,640	1,440	419	276	242
31	328	-	431	387	-	912	-	2,480	-	415	276	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off: Inches	Run-off: Acre-feet
October	9,638	367	259	311	0.285	0.33	19,120
November	11,095	602	273	370	.339	.38	22,010
December	16,053	1,180	328	518	.475	.55	31,840
Calendar year 1941	287,066	3,730	252	786	.721	9.79	569,400
January	11,190	498	-	361	.331	.38	22,200
February	10,190	460	300	364	.334	.35	20,210
March	14,646	812	360	472	.433	.50	29,050
April	69,810	3,880	930	2,327	2.13	2.38	138,500
May	66,510	4,350	1,360	2,145	1.97	2.27	131,900
June	69,740	3,880	1,440	2,325	2.13	2.38	138,300
July	24,461	1,520	415	789	.724	.83	48,520
August	9,355	403	255	302	.277	.32	18,560
September	7,248	266	225	242	.222	.25	14,380
Water year 1941-42	319,936	4,350	225	877	.805	10.92	634,600

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
f Computed on basis of partly estimated gage-height record.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Extremes.- Maximum discharge during year, 50 second-feet July 4, 9, 10 (gage height, 1.98 feet); no flow prior to May 6 and after Sept. 1.
1917, 1924-42: 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 of 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	48	49	48	a9
2								0	49	49	49	0
3								0	49	49	48	0
4								0	49	49	49	0
5								0	49	49	49	0
6								a7	49	49	49	0
7								16	49	49	49	0
8								16	49	48	49	0
9								21	49	50	49	0
10								a13	49	50	48	0
11								a8	49	49	49	0
12								16	49	49	49	0
13								19	49	49	49	0
14								20	49	49	49	0
15								21	49	49	48	0
16								23	48	49	49	0
17								23	49	49	48	0
18								28	48	49	49	0
19								28	49	49	49	0
20								33	49	49	48	0
21								33	49	48	46	0
22								39	49	49	46	0
23								39	49	49	45	0
24								39	49	49	44	0
25								39	49	49	42	0
26								44	49	49	42	0
27								44	49	49	41	0
28								48	49	49	41	0
29								48	49	49	41	0
30								48	49	49	38	0
31								48	-	49	32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1941	4,569	55	0	12.5	9,060
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	763	48	0	24.6	1,510
June	1,467	49	48	48.9	2,910
July	1,519	50	48	49.0	3,010
August	1,432	49	32	46.2	2,840
September	9	9	0	.3	18
Water year 1941-42	5,190	50	0	14.2	10,290

a No gage-height record; discharge computed on basis of reported change in gate opening.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 southwest of Arrowrock.

Drainage area.- 426 square miles.

Records available.- October 1914 to November 1915 (discharge measurements only), December 1915 to September 1942.

Average discharge.- 26 years (1916-42), 281 second-feet.

Extremes.- Maximum discharge observed during year, 1,430 second-feet Apr. 13, 14; maximum gage height, 5.7 feet, ice jam, about Jan. 6, (from high-water mark); minimum discharge observed, 25 second-feet Sept. 8, 9 (gage height, 0.08 foot).
1915-42: Maximum discharge observed, 4,550 second-feet Apr. 19, 1936; maximum gage height observed, 6.3 feet Apr. 11, 1916, datum then in use; minimum discharge observed, 7.9 second-feet Aug. 13-15, 17, 18, 1924.

Remarks.- Records fair. Gage read once daily except Apr. 7 to July 7, when it was read twice daily. No large diversions above station.

Cooperation.- Gage-height record furnished by Board of Control for Boise project. Two discharge measurements furnished by watermaster for Boise River.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59	75	89	155	128	136	659	547	718	199	48	29
2	61	77	90		119	136	842	495	659	188	47	28
3	61	77	339		136	155	810	470	630	176	47	28
4	61	104	296		155	136	.675	495	602	166	44	27
5	67	128	146		155	146	940	470	574	155	42	26
6	77	104	112		155	146	940	448	574	146	38	26
7	72	97	128		155	146	940	470	602	136	37	26
8	71	90	112		146	155	940	448	602	128	34	26
9	70	69	112		166	155	1,010	495	574	136	33	25
10	70	86	128		155	246	1,170	602	574	112	30	26
11	70	82	89	b110	*176	312	1,170	574	520	112	29	26
12	70	84	104		176	346	1,340	520	470	104	28	26
13	69	81	112		146	425	1,340	520	448	112	28	27
14	70	90	112		136	365	1,340	520	425	97	28	27
15	70	146	146		b140	346	1,170	574	448	97	27	26
16	67	166	199		b130	346	1,010	574	448	87	27	26
17	67	136	237		b120	329	1,010	520	365	90	27	26
18	67	128	237		b110	329	940	495	365	90	28	29
19	67	112	*296		97	285	842	495	365	86	26	30
20	82	86	404		104	280	842	495	329	84	26	31
21	77	78	425	90	*146	296	875	520	312	76	27	31
22	71	78	329	*82	166	312	940	602	296	75	27	31
23	70	66	296	90	136	312	875	779	280	97	26	30
24	65	76	265	97	128	312	748	810	265	64	26	30
25	66	81	224	112	136	296	718	810	265	58	26	30
26	66	81	188	112	112	296	630	810	280	53	26	30
27	70	78	166	112	119	329	574	779	265	55	26	31
28	75	64	176	146	128	346	574	779	250	54	28	30
29	75	81	250	155	-	384	520	810	224	52	29	30
30	75	89	250	128	-	470	495	810	212	51	29	31
31	75	-	224	119	-	602	-	779	-	50	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	2,153	82	59	69.5	0.163	0.19	4,270
November	2,830	166	66	94.3	.221	.25	5,610
December	6,281	425	89	203	.477	.55	12,460
Calendar year 1941	78,673	838	34	216	.507	6.89	156,000
January	3,488	155	-	113	.265	.30	6,920
February	3,876	176	97	138	.324	.34	7,690
March	8,875	602	136	286	.671	.77	17,600
April	27,079	1,340	495	903	2.12	2.36	53,710
May	18,515	810	448	597	1.40	1.62	36,720
June	12,941	718	212	431	1.01	1.13	25,670
July	3,186	199	50	103	.242	.28	6,320
August	974	48	26	31.4	.074	.09	1,930
September	845	31	25	28.2	.066	.07	1,680
Water year 1941-42	91,043	1,340	25	249	.585	7.95	180,600

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SE¼NE¼ sec. 32, T. 3 N., R. 3 E., 1 mile south of Barber and 1¾ miles downstream from head gates at Boise River diversion dam and power plant.

Records available.- February 1939 to September 1942.

Extremes.- Maximum discharge during year, 2,850 second-feet May 26; maximum gage height, 9.15 feet June 15; no flow for long periods during year.
1939-42: 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. 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 (capacity 177,153 acre-feet). Flow regulated by head gates.

Cooperation.- Gage-height record furnished by Board of Control for Boise project. Fourteen discharge measurements furnished by Board of Control for Boise project, and watermaster for Boise River.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	942	28	1,150		a600	0	0	2,620	1,140	2,060	1,700	1,100
2	1,020	373	1,040		720	188	0	2,470	1,140	2,170	1,690	1,110
3	1,090	0	939		840	447	171	2,300	1,180	2,100	1,660	1,120
4	1,150	0	677		869	553	741	2,020	1,260	2,030	1,620	1,150
5	1,180	0	528		872	846	1,040	1,810	1,530	2,040	1,640	1,130
6	1,100	0	352		807	1,020	1,270	1,790	1,850	2,060	1,630	1,110
7	995	0	0		692	1,090	1,430	h1,940	2,070	2,100	1,620	1,110
8	936	0	0		572	1,200	1,440	h2,000	2,300	2,120	1,620	1,120
9	1,020	0	0		582	1,260	1,440	2,210	2,500	2,140	1,620	1,090
10	1,210	0	0		577	1,320	1,480	2,180	2,630	2,120	1,650	1,070
11	1,350	0	0		579	759	1,560	2,090	2,700	2,080	1,660	1,040
12	1,360	0	0		577	1,160	1,380	2,140	2,740	2,120	1,670	998
13	1,280	0	0		572	1,250	1,380	2,150	2,760	2,120	1,720	1,030
14	1,270	0	0		569	1,240	1,660	2,190	2,770	2,100	1,740	1,050
15	1,330	0	0		569	1,260	1,830	2,260	2,780	2,070	1,740	620
16	532	0	0		577	1,340	2,000	2,220	2,790	2,040	1,750	0
17	0	0	0		336	1,440	2,140	2,190	2,740	2,040	1,760	0
18	0	0	0		0	h1,430	2,290	2,220	2,740	2,010	1,740	0
19	0	0	0		0	1,400	2,360	2,300	2,670	1,980	1,720	0
20	0	172	0		0	1,350	2,440	2,360	2,660	1,960	1,720	0
21	0	618	0		0	1,320	2,500	2,400	2,680	1,940	1,710	0
22	0	795	0		0	1,330	2,580	2,480	2,700	1,910	1,680	192
23	0	834	0		0	1,340	2,600	2,520	2,700	1,890	1,640	890
24	0	1,050	0		0	1,340	2,660	2,540	2,680	1,890	1,630	1,030
25	0	1,260	0		0	1,340	2,660	2,620	2,700	1,870	1,580	1,020
26	0	1,320	0		0	1,330	2,670	2,580	2,720	1,860	1,350	1,040
27	0	1,280	0		0	1,310	2,690	2,260	2,590	1,820	1,310	1,020
28	0	1,220	0		0	892	2,700	1,870	2,200	1,780	1,250	1,020
29	0	1,190	0		-	0	2,680	1,460	1,980	1,780	1,210	1,020
30	0	1,150	0		-	0	2,700	1,290	2,000	1,760	1,120	967
31	0	-	0		-	0	-	1,160	-	1,710	1,090	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	17,765	1,360	0	573	35,240
November	11,290	1,320	0	376	22,390
December	4,686	1,150	0	151	9,290
Calendar year 1941	378,600	2,740	0	1,037	750,900
January	0	0	0	0	0
February	10,917	872	0	390	21,650
March	30,755	1,440	0	992	61,000
April	54,492	2,700	0	1,816	108,100
May	66,640	2,620	1,160	2,150	132,200
June	69,900	2,790	1,140	2,330	138,600
July	61,670	2,170	1,710	1,989	122,300
August	49,240	1,760	1,090	1,588	97,670
September	24,047	1,150	0	802	47,700
Water year 1941-42	401,402	2,790	0	1,100	796,100

a No gage-height record; discharge computed on basis of information furnished by Board of Control for Boise project.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SE¼ 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 NW¼ 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 1942.

Extremes.- Maximum contents observed during year, 178,300 acre-feet May 11 (gage height, 30.12 feet); minimum observed, 30,000 acre-feet Sept. 30.
1917-42: 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	51,780	57,100	80,930	91,100	93,180	113,600	166,400	177,100	177,600	171,000	107,700	53,830
2	50,990	57,330	83,530	91,100	94,620	113,600	165,800	177,400	177,400	168,900	105,900	52,740
3	50,320	57,690	85,680	91,170	96,300	113,400	165,100	177,700	177,100	166,900	104,300	51,780
4	49,870	58,340	87,420	91,240	98,130	113,700	164,600	177,900	176,700	165,200	102,600	50,370
5	49,260	58,760	88,970	91,240	99,530	114,600	165,300	178,000	176,300	162,900	100,700	49,100
6	48,880	58,880	90,240	91,240	101,300	115,800	166,500	177,900	175,900	160,700	98,940	47,780
7	48,540	59,000	91,390	91,240	102,500	117,900	168,100	178,000	175,700	158,400	97,180	46,690
8	48,540	59,240	91,670	91,460	104,000	119,800	170,100	178,000	175,600	156,000	95,200	45,600
9	48,540	59,240	91,600	91,460	105,300	122,400	172,100	177,900	175,500	153,900	93,470	44,230
10	48,650	59,360	91,460	91,460	106,500	124,900	173,900	178,000	175,200	151,400	91,670	43,180
11	49,150	59,600	91,390	91,460	107,800	127,300	175,000	178,300	174,700	149,400	89,820	42,340
12	50,540	59,720	91,310	91,530	108,500	129,000	176,400	178,100	174,400	146,800	87,980	41,420
13	51,720	59,780	91,240	91,530	109,500	131,100	177,400	177,800	174,500	144,800	85,950	40,650
14	53,030	59,960	91,170	91,530	110,500	133,300	177,400	177,800	174,600	142,900	84,080	39,890
15	54,060	60,080	91,100	91,530	111,600	135,600	177,300	178,200	174,700	140,500	82,160	39,140
16	55,050	60,080	91,030	91,530	112,600	137,700	177,000	178,100	175,200	138,300	80,390	38,280
17	56,510	60,140	91,030	91,530	113,700	139,500	176,400	178,100	175,500	136,100	78,500	37,420
18	56,510	60,140	90,960	91,530	114,800	141,900	176,000	178,100	176,300	134,000	76,430	36,680
19	56,510	60,200	90,960	91,600	114,300	144,200	175,500	178,100	176,800	132,000	75,040	35,830
20	56,210	60,380	90,890	91,600	114,300	146,700	175,500	178,100	177,000	130,000	73,140	35,220
21	56,210	60,500	90,960	91,600	114,200	149,200	175,600	177,700	177,200	128,100	71,200	34,630
22	56,160	61,780	90,960	91,600	114,200	151,300	175,100	177,300	177,400	125,800	69,400	34,100
23	56,100	63,380	90,960	91,600	114,200	153,600	174,900	176,400	177,500	124,100	67,870	33,560
24	56,040	64,980	90,960	91,600	114,200	155,800	174,700	175,800	177,400	122,400	66,050	32,960
25	56,160	66,740	91,030	91,820	114,100	158,200	174,300	175,800	176,900	120,500	64,360	32,590
26	56,160	68,890	91,030	91,820	114,000	160,400	174,500	176,100	176,400	118,500	61,960	32,030
27	56,160	71,200	91,030	91,890	114,000	162,600	174,500	176,600	175,800	116,600	60,260	31,470
28	56,390	73,930	91,030	91,890	113,800	164,700	175,200	177,400	175,600	114,900	59,000	31,010
29	56,450	76,370	91,030	92,030	-	166,700	176,000	177,700	174,700	113,200	57,330	30,450
30	56,68[illegible]	78,770	91,030	92,030	-	167,100	176,400	178,000	173,200	111,300	56,160	30,000
31	56,920	-	91,030	92,030	-	167,000	-	178,000	-	109,600	54,930	-

Monthly gage height and contents, water year October 1941 to September 1942

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept.30.....	13.74	52,570	-
Oct. 31.....	14.49	56,920	+4,350
Nov. 30.....	17.95	78,770	+21,850
Dec. 31.....	19.72	91,030	+12,260
Calendar year 1940....	-	-	+860
Jan. 31.....	19.86	92,030	+1,000
Feb. 28.....	22.76	113,800	+21,770
Mar. 31.....	28.95	167,000	+53,200
Apr. 30.....	29.92	176,400	+9,400
May 31.....	30.09	178,000	+1,600
June 30.....	29.60	173,200	-4,800
July 31.....	22.22	109,600	-63,600
Aug. 31.....	14.15	54,930	-54,670
Sept.30.....	(Upper) 9.40 (Lower) 9.20	30,000	-24,930
Water year 1941-42....	-	-	-22,570

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942. April to September 1923, June 1926 to June 1939, at site 7 miles downstream. Records practically equivalent.

Average discharge.- 16 years (1926-42), 145 second-feet.

Extremes.- Maximum discharge during year, 1,880 second-feet Apr. 4 (gage height, 8.26 feet); minimum, 5.7 second-feet Aug. 25-27.

1920-21, 1923, 1926-42: 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 ice effect or no gage-height record, which are poor. Several small diversions above station for irrigation.

Rating tables, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Dec. 31		Feb. 7 to Sept. 30					
3.0	30	2.6	6.5	3.4	93	5.5	610
3.3	66	2.7	11	3.7	145	6.0	790
3.6	114	2.8	17	4.0	207	7.0	1,230
4.0	193	3.0	36	4.5	322	8.0	1,730
		3.2	62	5.0	452		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	68	83		a110	98	1,600	419	320	80	12	8.8
2	23	70	89		a105	98	1,690	410	286	71	12	9.2
3	23	69	116		a105	99	1,520	364	274	66	12	9.2
4	23	72	150		a135	96	1,740	351	260	65	11	9.2
5	24	91	114	a64	a190	101	1,540	344	242	62	9.6	9.2
6	25	86	106		a167	109	1,420	312	231	58	7.8	8.8
7	27	83	104		153	116	1,460	291	218	52	11	9.2
8	32	81	87		136	124	1,490	284	216	47	10	9.6
9	33	81	89		134	149	1,430	293	220	42	9.2	11
10	37	81	83		124	473	1,340	317	209	41	9.2	11
11	40	81	89		123	942	1,280	339	194	35	9.2	12
12	41	81	81		118	1,210	1,420	317	180	32	7.8	13
13	46	81	78		106	879	1,600	293	163	31	7.8	14
14	41	81	89		106	463	1,540	265	151	31	8.3	14
15	40	92	102	a83	111	366	1,500	279	141	31	8.8	13
16	42	111	116		111	336	1,250	298	147	27	7.4	13
17	38	114	136		107	336	1,200	262	139	25	6.5	13
18	38	106	127		107	376	1,130	242	124	22	6.5	15
19	39	94	178		119	366	978	218	119	18	7.0	15
20	42	84	202		114	356	888	214	114	16	6.2	14
21	40	65	142		91	392	818	207	104	16	5.9	15
22	42	56	116		91	483	766	225	98	16	5.9	16
23	45	62	109		106	432	743	279	85	16	5.9	15
24	46	58	89		104	387	754	281	79	14	5.9	14
25	47	61	86		112	303	673	310	88	13	5.9	13
26	49	69	92	a99	119	253	610	354	107	13	5.7	13
27	51	66	b78		116	272	547	344	118	13	6.5	13
28	60	72	62		98	366	564	358	121	13	6.5	13
29	70	72	75		-	550	531	376	104	13	7.4	14
30	69	80	89		-	920	452	329	90	13	7.8	13
31	66	-	b85		-	1,320	-	305	-	13	8.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,261	70	22	40.7	2,500
November	2,368	114	56	78.9	4,700
December	3,240	202	62	105	6,430
Calendar year 1941	102,293.2	2,400	6.6	280	202,900
January	2,559	-	-	82.5	5,080
February	3,318	190	91	118	6,580
March	12,771	1,320	96	412	25,330
April	34,474	1,740	452	1,149	68,380
May	9,480	419	207	306	18,800
June	4,942	320	79	165	9,800
July	1,005	80	13	32.4	1,990
August	251.0	12	5.7	8.10	498
September	370.2	16	8.8	12.3	734
Water year 1941-42	76,039.2	1,740	5.7	208	150,800

Peak discharge.- Dec. 4 (9 a.m.) 160 sec.-ft.; Dec. 19 (6:30 p.m.) 248 sec.-ft.; Dec. 20 (7 a.m.) 240 sec.-ft.; Mar. 12 (2:30 a.m.) 1,570 sec.-ft.

a No gage-height record; discharge computed on basis of weather records and records for Warmsprings Reservoir near Riverside and North Fork of Malheur River above Agency Valley Reservoir, near Beulah.

b Stage-discharge relation affected by ice.

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

Malheur River below Warmsprings 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 Warmsprings 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 1942. 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.- 30 years (1909-16, 1919-42), 166 second-feet.
Extremes.- Maximum discharge observed during year, 1,770 second-feet about Apr. 15 (gage height, 7.35 feet, from floodmark); no flow Dec. 6 to Mar. 17.
1906-7, 1908-17, 1919-42: Maximum discharge observed, 5,490 second-feet Mar. 2, 1910; no flow at times.
Remarks.- Records good. Gage read once daily. Several small diversions above etation for irrigation. Flow completed regulated since November 1919 by Warmsprings Dam.

Rating tables, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 15

2.7	0	3.7	63	5.5	760
2.8	1.0	3.9	102	6.0	1,020
3.0	5.3	4.2	180	6.5	1,300
3.2	13	4.5	290	7.0	1,570
3.4	26	5.0	515		

Apr. 16 to Sept. 30

3.9	102	5.5	795
4.2	192	6.0	1,060
4.5	310	6.5	1,330
5.0	545	7.0	1,600

Note.- Same as preceding table below 3.9 feet.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	194	7	7			0	30	525	76	158	359	395
2	198	7	7			0	30	495	14	161	359	350
3	198	7	7			0	30	470	5.5	192	346	330
4	196	7	7			0	384	465	8.5	250	342	330
5	198	7	7			0	425	445	11	258	342	346
6	180	7	0			0	1,100	445	11	274	470	372
7	162	7	0			0	1,390	221	16	322	535	372
8	140	7	0			0	1,570	60	14	350	535	386
9	132	7	0			0	1,540	89	14	377	535	390
10	120	7	0			0	1,550	128	40	435	520	390
11	111	7	0			0	1,550	278	63	445	510	326
12	100	7	0			0	1,580	310	63	445	535	294
13	94	7	0			0	1,590	335	77	420	545	278
14	94	7	0			0	1,600	605	112	415	555	274
15	94	7	0			0	1,630	605	123	435	565	250
16	81	7	0			0	1,590	605	123	425	565	262
17	74	7	0			0	1,570	384	123	425	565	290
18	74	7	0			4	1,590	594	123	425	565	302
19	74	7	0			4	1,470	805	123	425	565	302
20	74	7	0			8	1,170	755	123	425	565	302
21	33	7	0			8	1,260	775	125	425	580	310
22	8.5	7	0			8.5	1,230	775	146	425	590	318
23	7	7	0			13	520	775	178	425	605	316
24	7	7	0			13	445	755	203	425	610	318
25	7	7	0			14	450	745	219	410	610	306
26	7	7	0			14	480	685	234	400	595	298
27	7	7	0			16	505	595	222	400	590	286
28	7	7	0			16	520	520	200	400	565	274
29	7	7	0			18	555	364	192	400	505	274
30	7	7	0			22	525	128	172	400	495	262
31	7	7	0			30	-	128	-	372	420	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,694.5	198	7	86.9	5,340
November	210	7	7	7.0	417
December	35	7	0	1.13	69
Calendar year 1941	86,486.5	1,500	0	237	171,500
January	0	0	0	0	0
February	0	0	0	0	0
March	188.5	30	0	6.08	374
April	29,879	1,630	30	963	57,280
May	14,884	805	60	480	29,520
June	3,154.0	234	5.5	105	6,260
July	11,544	445	158	372	22,900
August	16,043	610	342	518	31,820
September	9,505	395	250	317	18,850
Water year 1941-42	87,137.0	1,630	0	239	172,800

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

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Malheur River near Hope, Oreg.

Location.- Water-stage recorder, lat. 43°57', long. 117°29', in SW¼ sec. 5, T. 19 S., R. 43 E., half a mile upstream from intake of Vines canal and 6½ miles west of Hope.

Drainage area.- 3,030 square miles.

Records available.- May 1919 to September 1942 (incomplete prior to October 1922).

Average discharge.- 19 years (1922-25, 1926-42), 215 second-feet.

Extremes.- Maximum discharge during year, 5,560 second-feet May 8 (gage height, 7.18 feet), caused by failure of two gates at Agency Valley Reservoir; minimum, 31 second-feet Jan. 1.

1919-42: Maximum discharge, 8,100 second-feet Feb. 5, 1925 (gage height, 8.1 feet), from rating curve extended above 3,000 second-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 good except those for periods of ice effect, which are fair. Vale-Oregon Canal diverts at Namorf; no other large diversions above station, but many small ones. Flow regulated by Warmsprings Reservoir and Agency Valley Reservoir (see following page).

Rating table, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.8	37	1.9	310	4.0	1,960
1.0	57	2.2	450	5.0	3,130
1.2	89	2.5	620	6.0	4,410
1.4	134	3.0	980		
1.6	193	3.5	1,440		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	65	54	37	164	87	1,360	924	360	177	222	187
2	82	64	57	b45	110	87	1,500	876	314	187	211	153
3	65	64	57	52	122	85	1,510	785	324	164	207	129
4	63	65	57	60	256	84	1,490	736	285	197	190	89
5	61	65	57	60	522	85	1,730	729	264	245	177	85
6	61	64	55	60	522	106	2,180	680	237	193	161	89
7	61	63	54	60	378	108	2,310	736	204	215	156	134
8	60	61	54	63	324	164	2,420	3,190	153	225	204	150
9	56	63	53	82	297	161	2,550	2,660	137	252	211	161
10	54	60	52	84	256	400	2,540	1,470	115	241	200	190
11	52	60	53	87	225	1,320	2,480	527	124	360	153	180
12	50	60	50	91	204	1,870	2,390	364	164	310	127	161
13	48	60	52	84	183	1,390	2,330	400	187	302	129	122
14	48	63	53	82	161	828	2,310	368	158	260	158	110
15	46	64	55	78	148	527	2,410	364	183	241	161	115
16	45	61	54	76	137	415	2,300	391	174	272	187	110
17	45	61	54	65	120	328	2,150	501	153	281	187	91
18	44	61	55	68	b110	310	1,930	303	150	272	183	108
19	44	58	61	76	b102	297	1,760	176	158	268	177	156
20	44	57	120	64	b96	289	1,510	297	156	289	174	167
21	44	56	100	b70	b91	306	1,250	256	150	293	167	148
22	45	60	78	b74	b88	549	989	488	150	293	177	148
23	44	76	75	b79	b86	608	828	324	153	276	204	164
24	42	60	78	82	b83	566	972	342	158	252	225	158
25	43	58	73	85	82	516	868	405	193	229	245	167
26	42	53	65	95	82	450	836	364	241	222	248	156
27	41	60	b64	108	80	410	860	319	229	225	268	139
28	56	50	b63	127	89	450	916	289	174	237	293	139
29	63	53	91	137	-	572	972	276	174	237	252	139
30	71	54	61	153	-	764	956	337	177	237	207	142
31	70	-	60	200	-	1,030	-	337	-	237	207	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,668	82	41	53.8	3,310
November	1,819	76	50	60.6	3,610
December	1,965	120	50	63.4	3,900
Calendar year 1941	133,762	2,690	41	366	265,300
January	2,584	200	37	83.4	5,130
February	5,118	522	80	183	10,150
March	15,162	1,870	84	489	30,070
April	50,607	2,550	828	1,687	100,600
May	20,214	3,190	176	652	40,090
June	5,779	360	115	193	11,460
July	7,689	360	164	248	15,250
August	6,068	293	127	196	12,040
September	4,187	190	85	140	8,300
Water year 1941-42	122,960	3,190	37	337	243,900

Peak discharge.- Feb. 6 (7:30 a.m.) 626 sec.-ft.; Mar. 12 (7:00 a.m.) 2,150 sec.-ft.

b Stage-discharge relation affected by ice.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter (clock time not changed).

Reservoirs in Malheur River Basin, Oreg.

Warmsprings 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 1942. Maximum contents observed during year, 196,000 acre-feet Apr. 7 (elevation, 3,407.08 feet); minimum observed, 102,300 acre-feet Sept. 30 (elevation, 3,383.60 feet). Maximum contents observed during period 1920-42, that of Apr. 7, 1942; no storage 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 (revised) between elevations 3,327 (bottom of outlet tunnel) and 3,406 feet (top of 5-foot flashboards). Dead storage, 1,400 acre-feet below 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. Daily gage readings and capacity table furnished by Bureau of Reclamation. Water used to irrigate lands on both sides of river between Namorf and Ontario.

Agency Valley Reservoir.- Pressure gage with mercury column, lat. 43°55', long. 118°09', in SW¼ sec. 15, T. 19 S., R. 37 E., at dam on North Fork of 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 1942. Maximum contents observed during year, 62,390 acre-feet Apr. 29 (elevation, 3,341.30 feet); minimum observed, 22,950 acre-feet Sept. 30 (elevation, 3,315.63 feet). Maximum contents during period 1935-42, 62,770 acre-feet May 3,1941 (elevation, 3,341.50 feet); minimum observed since full capacity was attained on Apr. 9, 1938, 29,410 acre-feet Sept. 18, 1940.

Reservoir is formed by earthfill 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 elevation and contents, water year October 1941 to September 1942

Month	Warmsprings 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	3,392.10	132,200	-	3,322.43	31,450	-
Oct. 31	3,391.31	129,200	-3,000	3,323.30	32,640	+1,190
Nov. 30	3,392.31	133,000	+3,800	3,325.90	36,330	+3,690
Dec. 31	3,393.99	139,500	+6,500	3,329.45	41,680	+5,350
Calendar year 1941	-	-	+33,000	-	-	+1,380
Jan. 31	3,395.22	144,400	+4,900	3,332.00	45,740	+4,060
Feb. 28	3,397.22	152,500	+8,100	3,334.75	50,380	+4,640
Mar. 31	3,403.48	179,700	+27,200	3,338.50	57,120	+6,740
Apr. 30	3,406.22	192,000	+12,300	3,341.25	62,300	+5,180
May 31	3,403.68	180,600	-11,400	3,339.23	58,470	-3,830
June 30	3,404.28	183,300	+2,700	3,332.18	46,040	-12,430
July 31	3,396.51	158,000	-25,300	3,320.00	28,250	-17,790
Aug. 31	3,389.32	122,000	-36,000	3,316.65	24,150	-4,100
Sept.30	3,383.60	102,300	-19,700	3,315.63	22,950	-1,200
Water year 1941-42	-	-	-29,900	-	-	-8,500

† Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

‡ Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter (clock time not changed).

North Fork of 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 northwest of Agency Valley Dam and Beulah.

Records available.- January to September 1914, June 1936 to September 1942.

Extremes.- Maximum discharge during year, 816 second-feet Apr. 13 (gage height, 4.02 feet); minimum, 23 second-feet Nov. 20, Jan. 1 (gage height, 0.48 foot).
1914, 1936-42: Maximum discharge recorded, 975 second-feet Mar. 26, 1940 (gage height, 4.60 feet); minimum, 19 second-feet Aug. 5, 1939.

Remarks.- Records good except those for period of no gage-height record, which are fair, and those for Jan. 1-31, Feb. 19-27, which are poor. A few small diversions above station for irrigation; no regulation.

Rating tables, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 3

0.8	53	1.4	140	2.2	312
1.0	80	1.6	177	2.5	391
1.2	109	1.9	240	3.0	529

Apr. 4 to Sept. 30

0.7	42	1.5	151	2.5	374
.9	65	1.7	197	3.0	512
1.1	91	1.9	228	3.5	660
1.3	120	2.2	296		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	51	60	61	45	70	70	574	303	313	102	49	48
2	53	60	81	53	66	66	551	279	293	99	49	46
3	53	61	142	65	73	67	600	264	291	97	49	46
4	54	76	104	53	120	62	615	257	269	94	48	44
5	57	67	94	51	96	66	532	235	262	90	54	44
6	58	63	88	56	80	70	594	224	260	86	51	44
7	57	61	80	b65	79	65	630	230	257	82	49	43
8	56	61	73	b60	76	73	654	248	255	82	46	43
9	56	61	70	b110	76	63	657	264	250	84	46	44
10	56	61	77	b97	73	144	651	306	226	81	45	52
11	56	60	66	b89	74	254	693	298	211	79	45	50
12	53	58	63	b84	66	236	747	279	197	76	44	48
13	53	58	76	b60	58	183	771	260	185	78	45	45
14	53	66	80	77	63	132	774	250	176	77	45	44
15	51	81	87	74	60	120	693	279	176	75	45	43
16	51	83	91	91	74	124	642	252	176	77	45	43
17	51	73	a98	103	62	118	633	237	158	74	44	43
18	53	67	a100	108	61	127	582	228	149	70	44	43
19	57	65	a145	80	72	122	573	224	148	69	44	43
20	61	41	a110	87	90	120	585	220	140	66	44	43
21	58	57	90	90	b80	147	609	230	132	64	44	43
22	58	46	86	91	b80	156	648	288	126	63	44	45
23	57	51	87	106	b97	156	606	326	122	61	44	44
24	56	53	66	112	96	140	532	340	120	59	43	44
25	56	74	77	104	96	121	477	358	126	58	43	43
26	56	63	63	103	84	112	427	382	135	58	45	43
27	60	60	48	110	67	142	403	326	137	58	49	43
28	76	61	83	114	66	165	367	320	124	57	52	45
29	66	61	100	96	-	252	336	306	114	55	54	45
30	61	61	88	79	-	367	313	308	106	51	50	45
31	58	-	73	80	-	467	-	343	-	51	49	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,752	76	51	56.5	3,480
November	1,072	83	41	62.4	3,710
December	2,647	145	48	85.4	5,250
Calendar year 1941	62,363	759	41	171	123,700
January	2,633	114	45	84.9	5,220
February	2,175	120	58	77.7	4,310
March	4,549	407	62	147	9,020
April	17,489	774	313	583	34,690
May	8,664	382	220	279	17,180
June	5,636	313	106	188	11,180
July	2,275	102	51	73.4	4,510
August	1,448	54	43	46.7	2,870
September	1,339	52	43	44.6	2,660
Water year 1941-42	52,479	774	41	144	104,100

a No gage-height record; discharge computed on basis of weather records and records for Malheur River near Hope and Agency Valley Reservoir at Beulah.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter (clock time not changed).

North Fork of 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.

Drainage area.- 420 square miles.

Records available.- January 1936 to September 1942. 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 during year, 7,000 second-feet (caused by failure of gates at Agency Valley Reservoir dam) May 7 (gage height, 8.4 feet, from floodmark), by computation of flow over dam; minimum observed, 0.1 second-foot Oct. 23-31, possibly extending into November.

1909-12, 1913-14, 1926-42: Maximum discharge, that of May 7, 1942; maximum unregulated discharge, 5,910 second-feet Mar. 20, 1910; minimum prior to construction of dam, 5 second-feet Dec. 28, 1910, Jan. 26, 27, 1911.

Remarks.- Records good except those for periods Oct. 23 to Mar. 19, May 7-10, which are poor. Gage read once daily. Flow regulated by Agency Valley Reservoir (see p.139). Small diversions above station for irrigation; practically entire summer flow is diverted below station and above Juntura.

Rating tables, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Mar. 31 to May 6, May 11-21)

Oct. 1 to May 6

0.8	20	2.0	209	4.0	707
1.0	37	2.5	326	4.5	845
1.3	72	3.0	450		
1.6	125	3.5	576		

May 11 to Sept. 30

1.3	27	2.0	138
1.5	53	2.5	252
1.7	84	3.0	380

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47						712	400	328	328	252	56
2	47						716	400	328	328	252	56
3	47						704	254	328	328	252	56
4	47				3.0		848	266	328	328	252	56
5	47						834	266	328	328	236	56
6	47						712	266	302	328	128	56
7	47				b3.0		710	3,700	290	328	53	56
8	47						715	2,630	290	328	56	56
9	47						760	1,220	312	314	53	56
10	47					4.0	750	240	344	328	53	56
11	47						750	29	377	328	56	56
12	47						750	29	394	328	53	56
13	47						750	28	394	314	53	56
14	47						758	28	394	328	53	56
15	47						677	28	394	328	53	56
16	47	0.5	1.5	2.5			522	28	394	328	53	56
17	47						472	28	394	328	53	56
18	47				3.0		398	26	394	312	53	56
19	47						405	27	394	302	53	56
20	47					166	418	27	394	302	53	56
21	47					166	448	27	394	297	53	56
22	19					166	480	27	394	277	53	56
23	.1					209	400	94	394	262	53	56
24	.1					209	400	92	394	252	53	56
25	.1					209	432	92	394	252	53	56
26	.1					209	400	92	349	242	53	56
27	.1					209	402	92	328	252	53	56
28	.1					209	400	92	328	252	53	56
29	.1				-	209	400	204	328	252	53	56
30	.1				-	338	400	315	328	252	53	56
31	.1	-			-	620	-	315	-	252	53	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,006.9	47	0.1	32.5	2,000
November	15.0	-	-	0.5	30
December	45.5	-	-	1.5	92
Calendar year 1941	69,041.1	940	0.1	189	136.900
January	77.5	-	-	2.5	154
February	84.0	-	-	3.0	167
March	2,995.0	620	-	96.6	5,940
April	17,515	848	398	584	34,740
May	11,362	3,700	27	367	22,540
June	10,732	394	290	358	21,290
July	9,306	328	242	300	18,460
August	2,703	252	53	87.2	5,360
September	1,680	56	56	56.0	3,330
Water year 1941-42	57,522.9	3,700	0.1	158	114,100

b Stage-discharge relation affected by ice.

Note.- No gage-height record Oct. 23 to Mar. 19, May 7-10. Discharge for period when no water was released through control works of reservoir, Oct. 23 to Mar. 19, computed on basis of field estimates of discharge on Oct. 27, Feb. 7, and records for Agency Vally Reservoir at Beulah. Discharge during period when spillway gates were damaged, Mar. 7-10, computed on basis of records for station above reservoir, near Beulah and Agency Valley Reservoir at Beulah.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter (clock time not changed).

South Fork of Payette River at Lowman, Idaho

Location.- Water-stage recorder, lat. 44°05', long. 115°37'30", in SW¼ sec. 27, T. 9 N., R. 7 E., four-fifths of a mile upstream from Rock Creek, one mile downstream from Clear Creek, and half a mile west of Lowman post office. Prior to Dec. 18, 1941, staff gage at site 900 feet upstream at different datum.

Drainage area.- 456 square miles.

Records available.- May 1941 to September 1942.

Extremes.- Maximum discharge during year, 3,320 second-feet May 26 (gage height, 5.82 feet); minimum, 215 second-feet Feb. 18 (gage height, 2.62 feet).

1941-42: Maximum discharge observed, 3,580 second-feet May 26, 1941 (gage height, 4.02 feet, site and datum then in use); minimum, that of Feb. 18, 1942.

Remarks.- Records good. Gage read twice daily prior to Dec. 18. No regulation. Several small diversions for irrigation and placer mining, the return flow from which enters river above station.

Rating tables, water year 1941-42, except period of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to Dec. 17				Dec. 18 to Sept. 30					
0.6	317	2.2	1,225	2.6	208	3.8	965	5.0	2,280
1.0	434	2.6	1,620	3.0	384	4.2	1,370	5.4	2,770
1.4	616	3.0	2,080	3.4	635	4.6	1,810	5.9	3,420
1.8	882	3.4	2,620						

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	358	327	424	337	379	322	552	1,000	1,710	1,810	a570	374
2	361	327	544	379	368	332	572	947	1,700	1,860	a560	363
3	378	400	2,480	418	374	327	614	911	1,780	1,810	a550	358
4	400	628	1,370	368	379	322	665	884	1,940	1,760	a540	353
5	431	544	922	308	374	332	680	850	2,160	1,690	a530	348
6	397	394	882	322	374	332	658	850	2,360	1,640	a520	342
7	384	378	808	412	368	318	688	884	2,800	1,560	a510	342
8	369	369	*663	440	358	342	750	965	3,040	1,470	a500	337
9	363	355	651	476	363	348	841	1,070	3,060	1,370	a490	348
10	363	349	675	452	337	374	1,040	1,200	2,810	1,270	a480	363
11	363	341	a600	429	368	390	1,180	1,130	2,450	1,210	h470	353
12	361	344	553	395	337	390	1,510	1,110	2,180	1,140	a470	342
13	352	355	628	379	313	384	1,600	1,060	2,120	1,070	a465	342
14	347	882	616	358	298	374	1,760	1,030	2,120	1,010	464	337
15	341	1,470	600	363	363	363	1,560	1,080	2,280	994	440	337
16	339	1,000	622	406	358	363	1,360	1,050	2,320	965	434	332
17	336	845	a640	390	267	358	1,320	1,020	2,080	929	423	337
18	336	707	579	363	259	353	1,210	1,010	2,020	884	423	342
19	341	568	593	342	294	342	1,190	1,020	1,940	841	412	337
20	349	b460	672	348	342	322	1,290	1,090	1,820	807	406	332
21	336	b460	665	348	374	342	1,550	1,330	1,720	782	401	332
22	331	b440	607	368	358	342	1,810	1,740	1,680	758	395	322
23	331	b410	579	379	318	342	1,770	2,330	1,760	726	390	322
24	331	400	552	363	322	342	1,470	2,540	1,860	702	384	322
25	336	515	513	379	322	337	1,360	2,930	1,890	680	384	318
26	327	453	440	368	303	327	1,230	3,200	1,910	a660	379	313
27	331	434	363	384	327	342	1,140	2,680	1,740	a640	384	313
28	336	445	500	418	318	363	1,100	2,290	1,600	a620	406	313
29	339	407	513	390	-	390	1,060	2,030	1,590	a610	395	308
30	334	431	482	353	-	446	1,020	1,910	1,660	a600	390	313
31	327	-	482	379	-	513	-	1,800	-	a580	384	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	10,928	431	327	353	0.774	0.89	21,680
November	15,438	1,470	327	515	1.13	1.26	30,620
December	21,218	2,480	363	684	1.50	1.73	42,090
Calendar year	-	-	-	-	-	-	-
January	11,814	476	308	381	.836	.96	23,430
February	9,515	379	259	340	.746	.78	18,870
March	11,074	513	318	357	.783	.90	21,960
April	34,550	1,810	552	1,152	2.53	2.82	68,530
May	44,941	3,200	850	1,450	3.18	3.67	89,140
June	62,100	3,060	1,590	2,070	4.54	5.06	123,200
July	33,448	1,860	580	1,079	2.37	2.73	66,340
August	13,949	570	379	450	.987	1.14	27,670
September	10,095	374	308	336	.737	.82	20,020
Water year 1941-42	279,070	3,200	259	765	1.68	22.76	553,600

* Winter discharge measurement made on this day.

a No gage-height record; discharge based on record for station near Garden Valley and Deadwood River near Lowman.

b Stage-discharge relation affected by ice.

h Computed from staff-gage readings.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

South Fork of 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 southeast of Garden Valley, and 5.9 miles upstream from Middle Fork of Payette River.

Drainage area.- 779 square miles.

Records available.- May 1921 to September 1942.

Average discharge.- 18 years (1924-42), 1,154 second-feet.

Extremes.- Maximum discharge during year, 5,660 second-feet May 26 (gage height, 5.60 feet); minimum, 331 second-feet Feb. 18.

1921-42: 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 excellent except those for periods of ice effect or no gage-height record, which are good. Few diversions above station. Since Nov. 2, 1930, flow has been regulated by Deadwood Reservoir (see p.149). Slight regulation by Grimes Pass power plant.

Rating table, water year 1941-42, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

1.4	320	3.0	1,610	5.0	4,540
1.7	490	3.4	2,100	5.4	5,280
2.0	690	3.8	2,630	5.8	6,050
2.3	925	4.2	3,200		
2.6	1,195	4.6	3,840		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	797	698	548	b480	536	454	821	1,970	3,120	2,360	h1,060	1,100
2	813	548	681	b540	516	466	853	1,850	3,050	2,420	h1,010	877
3	829	562	2,700	b580	529	466	925	1,790	3,120	2,420	h968	1,150
4	1,050	869	a1,800	b520	548	448	1,000	1,730	3,350	2,300	h976	1,390
5	1,100	705	a1,300	b430	555	466	1,040	1,670	3,590	2,230	1,020	1,340
6	1,060	542	a1,200	b460	542	466	1,010	1,610	3,840	2,160	1,010	1,340
7	976	503	a1,100	b550	536	448	1,060	1,670	4,450	2,040	925	1,340
8	942	472	a950	b600	516	472	1,150	1,790	4,900	1,910	869	1,290
9	1,060	472	*b850	b640	522	478	1,290	1,970	4,900	1,790	853	1,290
10	1,060	466	b880	b600	490	536	1,610	2,230	4,720	1,670	861	1,340
11	1,060	454	781	b570	516	568	1,850	2,160	4,270	1,610	917	1,340
12	1,060	454	720	b540	484	581	2,300	2,100	3,760	1,500	934	1,290
13	1,050	472	789	b520	460	581	2,560	2,040	3,590	1,440	950	1,080
14	1,040	818	781	b500	442	562	2,840	1,970	3,430	1,340	805	1,090
15	1,040	1,790	797	*b510	472	542	2,560	2,100	3,590	1,290	797	1,100
16	1,030	1,290	837	568	*529	536	2,230	2,100	3,590	1,290	821	1,030
17	1,000	1,030	877	b540	442	529	2,160	1,970	3,200	1,240	821	1,200
18	600	885	*837	b510	380	529	1,970	1,910	3,050	1,200	917	837
19	448	b720	853	b480	448	496	1,910	1,910	2,980	1,150	1,000	853
20	773	b600	1,000	b480	548	484	2,100	2,040	2,770	1,100	1,100	1,150
21	942	b600	1,030	b480	536	510	2,560	2,300	2,560	1,070	1,390	993
22	669	b570	917	b520	542	529	3,120	2,910	2,490	1,100	1,390	968
23	574	516	869	b530	484	522	2,980	4,010	2,490	1,150	1,390	1,200
24	568	594	821	529	478	516	2,770	4,540	2,630	1,090	1,390	1,200
25	588	627	742	555	472	503	2,630	4,900	2,630	a1,100	1,390	885
26	641	588	641	529	472	490	2,420	5,660	2,700	h1,100	1,440	683
27	655	548	b550	522	466	503	2,230	4,900	2,420	h1,090	1,440	837
28	669	548	698	594	460	536	2,160	4,360	2,300	h1,080	1,500	893
29	720	542	765	555	-	568	2,040	3,840	2,160	h1,070	1,440	893
30	705	555	735	503	-	648	1,970	3,590	2,230	h1,150	1,440	581
31	712	-	662	529	-	742	-	3,350	-	h1,100	1,080	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	26,231	1,100	448	846	52,030
November	20,038	1,790	454	668	39,740
December	28,711	2,700	548	926	56,950
Calendar year 1941	405,533	4,270	300	1,111	804,400
January	16,464	640	430	531	32,660
February	13,921	555	380	497	27,610
March	16,175	742	448	522	32,080
April	58,119	3,120	821	1,937	115,300
May	82,940	5,660	1,610	2,675	164,500
June	97,880	4,900	2,160	3,263	194,100
July	46,560	2,420	1,070	1,502	92,350
August	33,904	1,500	797	1,094	67,250
September	32,560	1,390	581	1,085	64,580
Water year 1941-42	473,503	5,660	380	1,297	939,200

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for station near Banks, stations on Deadwood River, and weather records.

b Stage-discharge relation affected by ice.

h Computed from staff-gage readings.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

South Fork of 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 of Payette River and 1½ miles northeast of Banks. Datum of gage is 2,812.00 feet above mean sea level.

Drainage area.- 1,200 square miles.

Records available.- August 1921 to September 1942.

Average discharge.- 21 years, 1,548 second-feet.

Extremes.- Maximum discharge during year, 7,920 second-feet probably May 26 (gage height, 7.87 feet, from high-water mark in gage well); minimum, 485 second-feet Feb. 19 (gage height, 0.50 foot).

1921-42: 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 good except those for period of no 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. 149). Slight regulation by Grimes Pass power plant.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

0.5	485	1.7	1,170	3.2	2,305	5.0	4,070	7.0	6,660
.8	640	2.0	1,370	3.6	2,665	5.5	4,660	7.5	7,360
1.1	805	2.4	1,655	4.0	3,035	6.0	5,300	8.0	8,060
1.4	985	2.8	1,970	4.5	3,530	6.5	5,960		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	925	865	750	b700	865	a720	1,510	2,840	4,540	2,840	1,200	1,170
2	955	728	865	a750	835	a730	1,620	2,760	4,300	2,940	1,170	985
3	955	734	3,300	a800	835	a740	1,730	2,580	4,300	2,840	1,140	1,340
4	1,170	1,140	2,580	a750	895	a720	1,850	2,480	4,780	2,760	1,140	1,440
5	1,340	985	1,810	a600	925	a740	1,890	2,400	4,910	2,660	1,170	1,400
6	1,240	778	1,540	a650	925	a760	1,890	2,400	5,300	2,580	1,170	1,440
7	1,170	717	1,400	a780	895	a720	1,970	2,400	5,960	2,400	1,080	1,440
8	1,020	690	1,240	a850	865	a750	2,140	2,580	6,520	2,300	1,020	1,400
9	1,200	651	1,170	a900	865	a780	2,400	2,840	6,660	2,140	985	1,300
10	1,200	*651	1,200	a850	805	a860	2,940	3,230	6,380	2,050	985	1,480
11	1,200	634	1,040	a800	835	a950	3,330	3,040	5,560	1,930	1,040	1,440
12	1,200	634	985	a750	805	h985	4,070	2,940	4,910	1,850	1,040	1,400
13	1,200	646	1,020	a750	734	a980	4,420	2,840	4,660	1,730	1,100	1,170
14	1,170	925	1,080	a750	695	a960	4,780	2,760	4,540	1,660	925	1,170
15	1,170	2,220	1,100	*a750	734	a930	4,420	3,040	4,540	1,580	925	1,170
16	1,170	1,730	1,240	778	805	a920	3,850	3,040	4,660	1,540	955	1,140
17	1,170	1,370	1,340	835	690	a900	3,850	2,840	4,180	1,510	925	1,240
18	835	1,170	1,270	778	555	a900	3,530	2,760	3,960	1,440	1,020	955
19	607	1,040	1,340	722	590	a860	3,330	2,760	3,850	1,400	1,100	955
20	895	895	1,690	690	695	835	3,530	2,840	3,630	1,340	1,170	1,200
21	1,100	865	1,730	695	a850	865	4,070	3,230	3,430	1,300	1,480	1,140
22	865	805	1,480	722	a650	895	4,910	3,960	3,230	1,340	1,510	1,040
23	734	673	1,370	805	a770	895	a4,600	a5,500	3,230	1,370	1,510	1,200
24	722	778	1,270	805	a770	895	a4,200	a6,500	3,330	1,300	1,510	1,240
25	739	865	1,100	665	a750	865	3,850	a7,000	3,330	1,300	1,480	1,010
26	805	805	985	835	a750	865	3,530	a7,500	3,430	1,270	1,580	778
27	805	739	744	835	h750	865	3,230	a7,000	3,130	1,270	1,580	895
28	835	750	955	955	a730	925	3,130	a6,500	2,840	1,270	1,620	985
29	895	744	1,140	925	-	985	2,940	a5,500	2,760	1,270	1,620	985
30	865	750	1,080	835	-	1,100	2,840	a5,000	2,760	1,300	1,580	717
31	865	-	985	835	-	1,300	-	4,780	-	1,270	1,240	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	31,022	1,340	607	1,001	61,530
November	26,977	2,220	634	899	53,510
December	40,799	3,300	744	1,316	80,920
Calendar year 1941	555,852	5,560	445	1,523	1,102,000
January	24,345	955	600	785	48,290
February	22,068	925	555	788	43,770
March	27,195	1,300	720	877	53,940
April	96,350	4,910	1,510	3,212	191,100
May	117,840	7,500	2,400	3,801	233,700
June	129,610	6,660	2,760	4,320	257,100
July	55,750	2,940	1,270	1,798	110,600
August	37,970	1,620	925	1,225	75,310
September	35,225	1,480	717	1,174	69,870
Water year 1941-42	645,151	7,500	555	1,768	1,280,000

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for station near Garden Valley and other nearby stations.

b Stage-discharge relation affected by ice.

h Computed from staff-gage readings.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Payette River near Horseshoe Bend, Idaho

Location.- Water-stage recorder, lat. 43°56', long. 116°11'30", in SW¼SW¼ 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 2,623.5 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 1942. February 1906 to November 1912 at site 2 miles upstream.

Average discharge.- 31 years (1907-15, 1919-42), 2,960 second-feet.

Extremes.- Maximum discharge during year, 14,400 second-feet May 27 (gage height, 7.63 feet); minimum, 770 second-feet (regulated) Sept. 30 (gage height, 1.00 foot).
1906-16, 1919-42: 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 Dec. 22 to Feb. 22, which are good. Flow regulated by Deadwood Reservoir (see p. 149), Payette Lake (see p. 152), and Lake Fork Reservoir (see p. 157). Several diversions from tributaries above station for irrigation.

Rating table, water year 1941-42, except period of ice effect (gage height, in feet, and discharge, in second-feet)

1.1	850	2.7	2,750	4.3	5,710	6.0	9,740
1.5	1,230	3.1	3,400	4.7	6,580	6.5	11,110
1.9	1,670	3.5	4,120	5.1	7,600	7.0	12,560
2.3	2,170	3.9	4,890	5.5	8,470	7.5	14,110

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,190	1,400	1,380	b1,500	1,780	1,290	2,600	4,990	10,300	4,790	1,680	1,530
2	1,250	1,260	1,430	a1,400	1,720	1,300	2,990	4,790	9,480	4,690	1,660	1,420
3	1,250	1,250	4,320	a1,500	1,730	1,320	3,400	4,500	9,220	4,600	1,630	1,750
4	1,480	1,790	4,790	b1,400	1,850	1,280	3,660	4,400	9,220	4,500	1,610	1,680
5	1,730	1,780	3,320	a1,250	1,790	1,320	3,840	4,310	9,220	4,310	1,630	1,790
6	1,650	1,460	2,520	b1,300	1,770	1,300	4,120	4,220	9,740	4,020	1,790	1,750
7	1,570	1,320	2,520	a1,400	1,730	1,270	4,690	4,310	10,300	3,750	1,780	1,770
8	1,400	1,260	2,450	a1,500	1,670	1,300	5,090	4,500	10,800	3,480	1,690	1,770
9	1,570	1,200	a2,200	a1,500	1,710	1,360	5,710	4,890	11,400	3,230	1,660	1,630
10	1,550	1,200	*2,040	a1,500	1,600	1,530	6,360	5,710	11,400	2,910	1,680	1,790
11	1,540	1,190	2,040	a1,500	1,620	1,690	7,040	6,140	10,600	2,680	1,730	1,790
12	1,530	1,220	1,910	a1,400	1,530	1,790	7,500	6,360	9,740	2,600	1,710	1,790
13	1,510	1,240	1,980	a1,400	1,460	1,850	8,470	6,140	9,220	2,520	1,780	1,540
14	1,480	1,510	2,040	a1,400	1,360	1,790	9,220	5,620	8,720	2,360	1,630	1,520
15	1,470	3,070	2,100	a1,400	1,420	1,730	9,220	6,140	8,470	2,170	1,590	1,530
16	1,470	2,990	2,520	b1,450	1,470	1,730	8,220	6,140	8,470	2,170	1,570	1,520
17	1,460	2,600	3,150	*b1,450	*b1,250	1,670	7,980	5,920	7,980	2,100	1,450	1,540
18	1,190	2,310	2,990	b1,450	b1,050	1,670	7,740	5,600	7,270	2,040	1,520	1,310
19	904	2,100	2,910	1,440	a1,050	1,610	7,270	5,500	6,810	1,960	1,570	1,260
20	1,150	1,850	4,220	1,380	a1,250	1,550	7,270	5,500	6,360	1,850	1,620	1,480
21	1,470	1,710	4,790	a1,300	1,440	1,540	7,500	5,920	5,820	1,790	1,910	1,500
22	1,290	1,590	a4,000	a1,300	1,450	1,600	8,470	6,810	5,500	1,790	1,910	1,250
23	1,080	1;340	a3,500	a1,400	1,310	1,600	8,470	9,220	5,400	1,850	1,910	1,560
24	1,050	1,310	a3,000	a1,500	1,310	1,570	7,980	11,400	5,290	1,850	1,850	1,560
25	1,060	1,510	a2,500	1,690	1,330	1,520	7,500	12,900	5,400	1,850	1,850	1,410
26	1,120	1,670	a2,100	1,660	1,260	1,480	6,810	14,100	5,500	1,790	1,910	1,040
27	1,140	1,600	a1,750	1,680	1,280	1,540	5,920	14,100	5,190	1,790	1,910	1,100
28	1,190	1,540	1,850	1,910	1,300	1,590	5,400	13,500	5,090	1,780	1,910	1,240
29	1,320	1,510	2,040	1,910	-	1,710	5,190	13,200	4,890	1,750	1,980	1,240
30	1,330	1,420	b2,200	1,850	-	1,910	4,990	12,600	4,890	1,780	1,980	1,080
31	1,340	-	b2,000	1,850	-	2,240	-	11,400	-	1,750	1,680	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	41,734	1,730	904	1,346	82,780
November	49,200	3,070	1,190	1,640	97,590
December	82,560	4,790	1,380	2,663	163,800
Calendar year 1941	1,033,998	10,300	714	2,833	2,051,000
January	46,570	1,910	1,250	1,502	92,370
February	41,510	1,850	1,060	1,482	82,330
March	48,650	2,240	1,270	1,569	96,500
April	190,620	9,220	2,600	6,354	378,100
May	231,030	14,100	4,220	7,453	458,200
June	237,690	11,400	4,890	7,923	471,500
July	82,540	4,790	1,750	2,663	163,700
August	53,780	1,980	1,450	1,735	106,700
September	45,140	1,790	1,040	1,505	89,530
Water year 1941-42	1,151,024	14,100	904	3,153	2,283,000

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for North Fork of Payette River near Smiths Ferry, South Fork of Payette River near Banks, and Porter Creek near Gardena, and weather records.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 17 years, 2,733 second-feet.

Extremes.- Maximum discharge during year, 15,300 second-feet May 26 (gage height, 10.34 feet); minimum, 536 second-feet (regulated) Sept. 21 (gage height, 2.35 feet).
1925-42: Maximum discharge, 22,800 second-feet May 1, 1938 (gage height, 12.90 feet); minimum, 2 second-feet (estimated) Jan. 13, 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. 149), Payette Lake (see p. 152), and Lake Fork Reservoir (see p. 157).

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	750	1,220	1,670	2,480	2,480	1,550	3,250	4,830	10,800	4,170	970	992
2	760	1,430	1,650	e1,960	2,550	1,560	3,620	4,830	9,860	3,930	981	1,020
3	760	1,320	4,410	e1,960	2,690	1,590	3,930	4,410	9,210	3,850	970	1,050
4	860	1,430	5,340	e1,900	3,180	1,550	4,490	4,330	9,210	3,700	959	1,010
5	970	2,100	3,930	e1,350	3,180	1,560	4,580	4,170	9,420	3,550	926	1,000
6	1,420	1,780	2,900	e1,320	2,830	1,610	4,660	4,090	9,860	3,110	926	1,000
7	1,210	1,650	2,760	e1,310	2,900	1,590	5,170	4,170	10,500	2,970	904	1,000
8	1,190	1,470	2,550	e1,620	2,550	1,590	5,700	4,250	11,200	2,620	937	992
9	1,290	860	2,420	e1,960	2,480	1,620	6,240	4,580	11,200	2,360	970	961
10	1,220	1,400	2,290	e2,160	2,360	2,030	6,810	5,520	11,000	1,960	970	970
11	1,210	1,420	2,290	1,900	2,220	2,360	7,380	6,060	10,300	1,840	970	948
12	1,220	1,410	2,160	1,960	2,160	2,550	8,180	6,240	9,420	1,610	926	992
13	1,220	1,470	2,100	1,840	1,960	2,620	9,000	6,060	9,000	1,640	948	1,050
14	1,230	1,490	2,220	1,780	1,840	2,690	9,640	5,700	e,580	1,360	904	937
15	1,230	2,970	2,360	1,640	1,780	2,420	9,860	e5,880	8,180	1,300	760	871
16	1,320	3,620	2,620	1,480	1,620	2,290	8,790	e6,240	8,180	1,350	770	904
17	1,350	2,970	3,320	*1,560	*1,720	2,290	8,380	e5,880	7,780	1,360	770	904
18	1,120	2,690	3,550	1,600	1,430	2,160	8,180	e5,520	6,810	1,370	970	926
19	740	2,360	3,700	1,610	1,320	1,780	7,580	e5,170	6,430	1,150	992	904
20	1,100	2,030	4,830	1,420	1,420	1,530	7,380	e5,170	5,880	1,080	1,000	904
21	1,280	1,900	5,520	b1,300	1,620	1,520	7,580	e5,520	5,520	1,020	992	904
22	1,350	1,840	4,660	1,340	1,780	1,140	8,580	e6,430	5,000	1,000	1,000	790
23	1,220	1,660	4,010	1,520	1,650	1,420	8,580	e8,790	5,000	992	992	670
24	1,190	1,530	3,620	1,620	1,610	1,550	7,980	e12,000	4,830	1,060	992	720
25	1,080	1,670	3,180	1,960	1,650	1,550	7,580	13,000	4,830	1,040	992	992
26	1,200	1,900	2,690	1,840	1,540	a1,560	6,810	15,000	5,170	1,000	1,000	760
27	1,210	1,840	2,100	1,840	1,540	1,560	6,060	14,700	4,660	1,000	992	750
28	1,180	1,840	1,900	2,760	1,560	1,590	5,170	13,900	4,580	981	1,000	760
29	1,200	1,780	2,290	2,970	-	1,590	5,170	13,600	4,330	981	1,010	760
30	1,190	1,700	2,550	2,690	-	1,600	4,830	13,300	4,170	970	1,000	790
31	1,210	-	2,550	2,480	-	2,030	-	12,000	-	970	1,110	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	35,480	1,420	740	1,145	70,370
November	54,750	3,620	860	1,825	108,600
December	94,140	5,520	1,650	3,037	186,700
Calendar year 1941	1,003,062	10,100	720	2,748	1,989,000
January	57,130	2,970	1,300	1,843	113,300
February	57,620	3,180	1,320	2,058	114,300
March	56,050	2,690	1,140	1,808	111,200
April	201,160	9,860	3,250	6,705	399,000
May	231,340	15,000	4,090	7,463	458,900
June	230,910	11,200	4,170	7,697	458,000
July	57,294	4,170	970	1,848	113,600
August	29,603	1,110	760	955	58,720
September	27,251	1,050	670	908	54,050
Water year 1941-42	1,132,728	15,000	670	3,103	2,247,000

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
e Discharge computed from average of hourly readings of long-distance indicator of Black Canyon Dam furnished by Bureau of Reclamation.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Payette River near Payette, Idaho

Location.- Water-stage recorder, lat. 44°02'30", long. 116°55'30", in SW¼ sec. 10, T. 8 N., R. 5 W., at highway bridge 1¾ miles south of Payette.

Records available.- August 1935 to September 1942. January 1895 to July 1897 (incomplete) at site 2 miles downstream.

Extremes.- Maximum discharge during year, 14,900 second-feet May 27 (gage height, 9.90 feet); minimum, 315 second-feet Aug. 18 (gage height, 3.20 feet).
1935-42: 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).

Remarks.- Records good except those for periods of no gage-height record in January and February, which are fair. Many diversions above station for irrigation. Flow regulated by Black Canyon Dam and reservoirs on tributary streams.

Rating tables, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to May 26

3.5	615	6.5	4,840
3.9	960	7.0	5,900
4.3	1,400	7.5	7,120
4.7	1,900	8.0	8,500
5.1	2,450	8.5	10,010
5.5	3,060	9.0	11,650
6.0	3,900	9.7	14,150

May 27 to Sept. 30

3.2	315	5.5	3,060	8.0	8,500
3.6	645	6.0	3,900	8.5	10,010
4.0	1,040	6.5	4,840	9.0	11,650
4.5	1,640	7.0	5,900	9.5	13,410
5.0	2,310	7.5	7,120	9.9	14,910

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.
1	631	1,480	1,960	2,680	a2,900	1,770	3,060	4,540	11,600	3,720	538	820
2	623	1,700	1,840	a2,400	a2,900	1,770	3,550	4,640	10,300	3,460	521	770
3	623	1,590	2,310	a2,200	a3,100	1,770	3,900	4,260	9,700	3,460	512	760
4	671	1,520	5,570	a2,100	a3,500	1,770	4,360	4,170	9,090	3,220	496	770
5	763	2,170	4,640	a1,600	a3,500	1,770	4,740	3,990	a9,200	2,980	487	740
6	906	2,100	3,460	a1,500	a3,400	1,840	4,840	3,810	a9,600	2,750	478	721
7	1,250	1,900	2,980	a1,500	a3,200	1,770	5,140	3,640	a10,000	2,520	478	674
8	1,120	1,840	2,820	a1,700	a3,000	1,770	5,570	3,810	a10,800	2,240	454	683
9	1,096	1,440	2,600	a2,000	a2,800	1,840	6,130	3,900	a11,000	2,030	470	683
10	1,250	1,330	2,450	a2,500	a2,700	2,030	6,610	4,640	a11,000	1,620	487	721
11	1,210	1,630	2,450	a2,300	a2,600	2,680	7,380	5,570	10,600	1,330	504	790
12	1,220	1,770	2,380	a2,200	a2,500	2,820	7,930	5,900	10,000	1,270	504	780
13	1,240	1,700	2,240	a2,100	a2,400	2,900	8,790	5,680	9,090	1,160	470	820
14	1,240	1,770	2,310	a2,000	a2,200	2,900	9,090	5,360	8,500	1,060	512	830
15	1,240	2,380	2,450	a1,900	a2,100	2,820	10,000	5,570	7,930	870	496	770
16	1,250	3,810	2,600	a1,800	a2,000	2,520	9,090	6,130	8,210	810	406	740
17	1,480	3,380	3,060	a1,800	a1,900	2,520	8,210	5,680	7,650	820	382	740
18	1,270	3,140	3,720	a1,800	1,770	2,380	8,500	5,360	6,860	810	360	730
19	1,200	2,820	4,080	1,840	1,630	2,310	7,650	5,040	6,370	750	422	730
20	906	2,520	4,450	1,770	1,630	1,770	7,120	4,940	5,790	683	478	730
21	1,240	2,310	5,570	1,640	1,770	1,770	7,120	5,040	5,460	627	478	750
22	1,500	2,100	5,140	1,770	2,030	1,540	7,650	5,570	4,740	564	487	760
23	1,300	2,030	4,450	a1,900	1,960	1,500	8,500	7,380	4,540	530	573	664
24	1,270	1,770	3,990	a2,100	1,840	1,840	7,930	10,300	4,360	530	582	582
25	1,360	1,900	3,460	a2,100	1,900	1,900	7,380	12,300	4,360	564	555	600
26	1,450	2,030	2,980	a2,100	1,840	1,900	6,610	14,200	4,540	546	546	750
27	1,440	2,170	2,450	a2,100	1,770	1,900	6,130	14,500	4,540	521	609	627
28	1,510	2,030	2,030	a3,000	1,770	1,900	5,140	14,200	4,260	530	654	627
29	1,480	1,960	2,240	a3,400	-	1,900	4,840	13,800	4,080	512	712	636
30	1,470	1,900	2,600	a3,200	-	1,900	4,540	13,800	3,810	521	721	636
31	1,480	-	2,750	a3,000	-	1,960	-	13,000	-	546	750	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	36,683	1,510	623	1,183	72,760
November	62,190	3,810	1,330	2,073	123,400
December	98,030	5,570	1,840	3,162	194,400
Calendar year 1941	991,652	9,700	469	2,717	1,967,000
January	66,000	3,400	1,500	2,129	130,900
February	66,610	3,500	1,630	2,379	132,100
March	63,730	2,900	1,500	2,056	126,400
April	197,500	10,000	3,060	6,583	391,700
May	220,720	14,500	3,640	7,120	437,800
June	227,980	11,600	3,810	7,599	452,200
July	43,554	3,720	512	1,405	86,390
August	16,122	750	360	520	31,980
September	21,634	830	582	721	42,910
Water year 1941-42	1,120,753	14,500	360	3,071	2,223,000

a No gage-height record; discharge computed on basis of records for station near Emmett.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SW¼SE¼ 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 1942.

Extremes.- Maximum discharge observed during year, 472 second-feet June 8, 9; maximum gage height observed, 6.10 feet Jan. 9, 10, ice jam; minimum discharge observed, 29 second-feet Sept. 21.

1941-42: Maximum discharge observed, that of June 8, 9, 1942; maximum gage height observed, that of Jan. 9, 10, 1942; minimum discharge observed, that of Sept. 21, 1942.

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Gage read twice daily. Feeder canal for small power plant diverts one mile above gage; water is returned to creek above station except that used for irrigation of small pasture adjacent to Lowman.

Rating table, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

2.0	26	2.8	83	3.9	268
2.2	37	3.0	104	4.2	350
2.4	50	3.3	145	4.6	472
2.6	65	3.6	199		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	35	43		39	36	70	138	232	130	49	35
2	36	35	65		38	36	74	130	232	123	49	34
3	36	36	244		38	36	83	116	294	116	49	33
4	46	65	110		39	37	88	116	308	116	49	32
5	43	44	65		39	36	88	116	336	116	49	32
6	41	40	57		39	38	88	116	380	110	47	32
7	38	38	57		38	39	93	130	440	104	46	32
8	37	37	(*)		38	39	110	153	472	93	44	32
9	37	37			38	39	138	170	472	88	44	32
10	38	37	b55		38	40	161	170	395	88	43	34
11	38	37			39	41	179	161	380	83	42	34
12	39	37		b36	38	42	232	153	350	78	42	34
13	38	38	70	(*)	43	42	244	138	294	74	42	32
14	38	116	61	(*)		43	281	138	308	70	41	32
15	36	138	61			46	232	153	308	65	40	32
16	36	93	61		(*)	38	189	145	294	65	39	33
17	36	74	57			39	189	138	294	65	39	32
18	37	65	55			41	179	145	268	65	39	32
19	38	b55	61			39	179	153	232	65	39	31
20	39	b50	65			*46	210	170	221	65	38	31
21	38	b50	65		b36	46	256	189	199	61	38	30
22	37	b40	57			45	268	210	179	61	38	30
23	37	a40	56			43	232	322	179	61	36	30
24	36	54	55	39		44	210	380	179	61	36	30
25	37	a70	49	38		44	189	410	189	61	36	30
26	36	54		39		44	179	410	179	57	36	30
27	36	b43		41		44	161	380	170	56	36	30
28	39	b43	b40	42		42	153	350	161	54	36	30
29	38	b43		39	-	46	145	294	153	53	36	30
30	36	b43		40	-	56	138	256	138	51	36	32
31	35	-		40	-	57	-	244	-	50	36	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,168	46	35	37.7	2,320
November	1,587	138	35	52.9	3,150
December	1,929	244	-	62.2	3,830
Calendar year	-	-	-	-	-
January	1,146	-	-	37.0	2,270
February	1,044	-	-	37.3	2,070
March	1,304	57	36	42.1	2,590
April	5,038	281	70	168	9,990
May	6,294	410	116	203	12,480
June	8,236	472	138	275	16,340
July	2,405	150	50	77.6	4,770
August	1,270	49	36	41.0	2,520
September	953	35	30	31.8	1,890
Water year 1941-42	32,374	472	-	88.7	64,220

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for South Fork of Payette River at Lowman.

b Stage-discharge relation affected by ice.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Extremes.- Maximum elevation observed during year, 5,336.0 feet May 27; minimum observed, 5,308.8 feet Sept. 30.
1935-42: Maximum elevation observed, 5,336.6 feet June 9, 10, 1938; 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 elevation 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 measurements made on May 28, July 1, and Sept. 2, 1942, indicate flow in this canal of 20.3, 24.1 and 2.0 second-feet (estimated), respectively. Gage read once daily.

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

Elevation, in feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25.9	18.7	21.1	25.2	27.4	28.85	30.6	35.15	35.7	35.0	33.05	22.6
2	25.7	18.65	21.2	25.2	27.45	28.95	30.7	35.1	35.6	35.0	32.9	22.3
3	25.5	18.6	21.6	25.25	27.55	29.0	30.8	35.05	35.5	35.0	32.7	21.6
4	25.25	18.8	22.0	25.25	27.7	29.05	30.9	35.0	35.6	34.95	32.5	21.2
5	25.0	18.85	22.25	25.3	27.8	29.1	31.0	34.95	35.6	34.9	32.3	20.6
6	24.7	18.9	22.4	25.35	27.9	29.2	31.1	35.0	35.7	34.9	32.1	19.9
7	24.4	18.95	22.5	25.4	28.0	29.25	31.2	35.0	35.75	34.85	32.0	19.2
8	24.1	19.0	22.6	25.6	28.05	29.3	31.3	35.0	35.8	34.8	31.9	18.6
9	23.8	19.05	22.7	25.8	28.1	29.4	31.4	35.1	35.9	34.8	31.8	18.0
10	23.45	19.1	22.8	25.9	28.15	29.5	31.5	35.15	36.0	34.75	31.65	17.4
11	23.1	19.15	22.9	25.95	28.15	29.6	31.65	35.15	35.9	34.7	31.45	16.7
12	22.6	19.2	23.0	26.0	28.2	29.65	31.9	35.1	35.8	34.7	31.25	16.1
13	22.1	19.25	23.05	26.05	28.2	29.70	32.2	35.1	35.7	34.65	31.1	15.6
14	21.7	19.5	23.2	26.1	28.25	29.75	32.5	35.1	35.6	34.6	30.9	15.2
15	21.3	19.8	23.4	26.15	28.25	29.8	32.8	35.2	35.6	34.6	30.8	14.7
16	20.9	19.9	23.6	26.2	28.3	29.85	33.2	35.2	35.6	34.6	30.6	14.2
17	20.5	20.0	23.7	26.3	28.3	29.9	33.5	35.15	35.55	34.55	30.4	13.7
18	20.5	20.1	23.9	26.4	28.3	29.95	33.8	35.15	35.5	34.55	30.3	13.3
19	20.55	20.2	24.1	26.45	28.35	30.0	34.0	35.15	35.45	34.5	30.0	13.0
20	20.4	20.3	24.2	26.5	28.35	30.0	34.2	35.15	35.4	34.5	29.7	12.5
21	19.9	20.4	24.3	26.55	28.4	30.05	34.5	35.2	35.35	34.5	29.15	12.0
22	19.9	20.5	24.4	26.6	28.4	30.1	34.8	35.3	35.3	34.45	28.6	11.6
23	19.85	20.55	24.45	26.65	28.45	30.15	35.1	35.5	35.2	34.35	27.9	11.1
24	19.8	20.6	24.6	26.75	28.5	30.2	35.2	35.7	35.2	34.3	27.35	10.5
25	19.75	20.65	24.65	26.9	28.6	30.25	35.2	35.9	35.15	34.2	26.65	10.1
26	19.6	20.75	24.7	27.0	28.65	30.3	35.2	36.0	35.15	34.05	26.15	9.9
27	19.5	20.85	24.75	27.1	28.7	30.35	35.2	36.05	35.15	33.9	25.5	9.6
28	19.4	20.95	24.85	27.2	28.8	30.4	35.2	36.0	35.1	33.7	24.8	9.3
29	19.25	21.0	24.95	27.25	-	30.45	35.2	36.0	35.1	33.55	24.1	9.0
30	19.1	21.05	25.1	27.3	-	30.5	35.15	35.9	35.15	33.4	23.5	8.8
31	18.9	-	25.15	27.35	-	30.55	-	35.8	-	33.2	23.0	-

Note.- Add 5,300 feet to obtain elevations above mean sea level.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 15 years (1927-42), 182 second-feet.

Extremes.- Maximum discharge during year, 996 second-feet (regulated) Aug. 26, 27; maximum gage height, 4.10 feet Aug. 26; minimum discharge not determined, occurred when gates at dam were closed.

1926-42: Maximum discharge, 2,150 second-feet May 26, 1928 (gage height, 5.67 feet, site and datum then in use); small amount of leakage from reservoir for long periods during 1933-42 when gates in dam were closed.

Remarks.- Records good except those below 5 second-feet and those for Sept. 2-28, which are fair. 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 to Deadwood River Basin for supplemental storage in Deadwood Reservoir. Discharge measurements made on May 28, July 1, and field estimate on Sept. 2, 1942, indicate flow in this canal of 20.3, 24.1, and 2.0 second-feet, respectively.

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

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

0.5	7.0	1.9	226	3.5	757
.8	29	2.3	336	4.0	955
1.1	63	2.7	465	4.2	1,037
1.5	132	3.1	607		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	392	180						h431	738	360	348	590
2	388	118						h398	700	363	333	655
3	500	122						h366	681	357	330	733
4	571	128						h342	700	342	360	935
5	571	e45						h324	719	330	414	895
6	571							h348	757	313	354	915
7	404							h348	776	293	285	915
8	626							h354	816	279	266	757
9	626							h398	875	260	263	895
10	626						a3	h431	895	244	316	895
11	626							h431	855	234	345	895
12	626							h398	796	221	388	719
13	626							h398	738	208	316	644
14	626	a3						h398	719	199	247	662
15	626							h465	700	189	274	681
			a3	a3	a3	a3						
16	626							h465	700	177	276	669
17	423							h431	662	172	342	643
18	7.6							h431	626	163	431	414
19	125						e5	h431	607	156	510	500
20	553						h39	h431	553	152	738	757
21	472						h150	h465	518	201	915	484
22	161	h3					h285	h500	500	263	915	757
23	159						h398	h626	482	282	915	757
24	156						h465	h757	465	282	915	666
25	216						h465	h855	448	290	935	279
26	231	a3					h465	h875	448	304	996	348
27	231						h465	h955	431	330	996	482
28	257						h465	935	414	339	976	500
29	276				-		h465	895	388	379	976	394
30	279				-		h431	835	369	395	860	8.5
31	285	-			-		-	776	-	366	571	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	12,862.6	626	7.6	415	25,510
November	666	180	-	22.3	1,320
December	93	-	-	3.0	184
Calendar year 1941	52,501.6	675	-	144	104,100
January	93	-	-	3.0	184
February	84	-	-	3.0	167
March	93	-	-	3.0	184
April	4,152	465	-	138	8,240
May	16,493	955	324	532	32,710
June	19,076	895	369	636	37,840
July	8,443	395	152	272	16,750
August	17,106	996	247	552	33,930
September	19,444.5	935	8.5	648	38,570
Water year 1941-42	98,608.1	996	-	270	195,600

a No gage-height record; discharge comprised of leakage and seepage only and computed on basis of discharge measurement of Nov. 22, information furnished by observer, and comparable records of previous years.

e Gage reading not representative of average for day; discharge computed as being comprised of leakage and seepage for part of day.

h Computed from staff-gage readings.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 21 years, 354 second-feet.

Extremes.- Maximum discharge during year, 1,830 second-feet May 25 (gage height, 3.74 feet); minimum, 44 second-feet Feb. 13 (gage height, 1.00 foot).
1921-42: 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).

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Flow regulated by Deadwood Reservoir (see p. 149). Small amount of water diverted from tributary of Johnson Creek to Deadwood River Basin during the year.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	423	287	80	78	89	73	158	769	1,270	593	429	710
2	429	174	176	75	86	73	167	724	1,210	587	412	516
3	495	190	548	91	87	73	190	696	1,200	568	407	800
4	647	265	301	97	87	73	203	681	1,260	542	418	1,000
5	640	186	196	b90	89	73	207	654	1,270	518	469	898
6	626	84	a178	b80	87	75	207	654	1,310	487	458	959
7	478	75	a160		86	73	225	674	1,390	469	380	959
8	633	70	*124		84	78	257	724	1,460	446	339	840
9	674	68	129		84	78	301	800	1,510	418	339	924
10	674	67	a136		73	91	396	889	1,490	401	369	942
11	674	66	a113		86	95	458	873	1,400	385	418	933
12	674	66	a100	b70	77	95	580	848	1,300	364	446	840
13	674	68	a117		60	91	640	815	1,210	349	440	681
14	674	177	117	(*)	60	87	696	808	1,150	334	324	688
15	674	296	124		77	86	606	864	1,150	319	329	703
16	674	177	142		*86	86	530	864	1,120	314	354	613
17	626	139	139		68	84	536	823	1,050	296	374	738
18	179	117	126		89	84	487	808	995	269	469	435
19	73	99	126		b110	78	493	815	950	261	530	475
20	496	78	180		b130	*78	600	848	869	252	732	761
21	587	89	167		b140	86	792	950	831	273	950	482
22	250	78	150		b130	84	1,040	1,140	784	349	968	754
23	200	75	142		122	84	1,040	1,410	754	385	968	784
24	196	122	129	b80	117	82	1,010	1,610	724	380	968	777
25	228	131	117		108	80	995	1,740	717	380	959	391
26	273	89	97		104	80	924	1,800	710	385	1,040	310
27	282	77	68		95	86	881	1,730	688	407	1,040	499
28	310	87	124		82	89	856	1,630	660	418	1,040	518
29	344	80	134		-	99	800	1,530	633	440	1,040	518
30	344	82	124	86	-	114	777	1,470	606	475	1,000	248
31	349	-	108	89	-	139	-	1,360	-	464	620	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	14,500	674	73	468	28,760
November	3,659	296	66	122	7,260
December	4,672	548	68	151	9,270
Calendar year 1941	117,667	1,240	40	322	233,400
January	2,406	97	7	77.6	4,770
February	2,593	140	60	92.6	5,140
March	2,647	139	73	85.4	5,250
April	17,052	1,040	158	568	33,820
May	32,001	1,800	654	1,032	63,470
June	31,691	1,510	606	1,056	62,860
July	12,528	593	252	404	24,850
August	19,029	1,040	324	614	37,740
September	20,696	1,000	248	690	41,050
Water year 1941-42	163,474	1,800	-	448	324,200

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for other stations in the basin.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Payette Lake at Lardo, Idaho

Location.- Staff gage, lat. 44°55', long. 116°07', in sec. 8, T. 18 N., R. 3 E., at outlet of lake on North Fork of Payette River, at Lardo. Datum of gage is 4,982.24 feet above mean sea level, adjustment of 1912.

Drainage area.- 131 square miles.

Records available.- August 1921 to September 1942 (fragmentary).

Extremes.- Maximum gage height observed during year, 8.12 feet July 2, 3; minimum observed, 1.79 feet Oct. 4.
1921-42: Maximum gage height observed, 8.75 feet July 13, 1935; minimum observed, 0.95 foot Oct. 3, 1931.

Remarks.- Elevation of Payette Lake is regulated within natural range by a structure consisting of a seriee of concrete-filled cribs supporting removable flashboards, completed in 1923. Some regulation is reported to have been effected by timber flashboards for several earlier years. Lake area is approximately 5,000 acres and a variation in stage of 5 feet corresponds to a capacity of about 25,000 acre-feet. Water is used for irrigation of lands in vicinity of Emmett. No diversion above station. Because of draw-down in outlet channel, stages at gage are slightly lower at times than stages of lake.

Cooperation.- Gage-height record furnished by Forest Service supplemented during period May 19 to July 31 by observation by employee of Payette Valley Water Users Association and July 19 to Sept. 2 by records of Bureau of Reclamation.

Gage height, in feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	2.14	-	-	-	-	-	6.49	5.97	8.02	6.52	2.97
2	-	-	-	3.97	-	-	-	-	6.02	8.12	6.42	2.92
3	-	-	-	-	-	-	-	6.72	5.97	8.10	6.32	2.93
4	1.79	-	-	-	-	-	-	-	6.27	8.07	6.15	-
5	-	-	-	-	-	-	-	6.76	6.38	8.02	5.95	-
6	-	-	4.27	-	3.77	-	-	-	6.47	7.97	5.77	-
7	1.83	-	-	-	-	-	-	-	6.57	7.94	5.54	-
8	-	-	-	-	-	-	-	-	6.72	7.97	5.35	-
9	-	-	-	-	-	-	-	7.37	6.84	7.97	5.07	-
10	1.87	-	-	-	-	-	-	-	6.92	7.94	4.87	-
11	1.87	-	-	-	-	-	3.93	-	6.82	7.92	4.72	-
12	-	-	-	3.82	-	-	-	7.17	6.62	7.92	4.57	-
13	-	-	-	-	3.68	3.58	-	-	6.48	7.87	4.52	-
14	-	-	-	-	-	-	-	-	6.47	7.87	4.25	-
15	-	2.50	-	3.80	-	-	-	6.87	6.47	7.87	4.15	-
16	-	-	-	-	-	-	-	-	6.62	7.80	4.05	-
17	-	-	4.02	3.76	-	-	4.96	-	6.77	7.77	3.92	-
18	1.93	2.95	-	-	3.64	-	-	6.73	6.97	7.77	3.82	2.10
19	-	-	-	-	-	-	-	6.72	7.17	7.70	3.75	-
20	-	-	-	-	-	-	-	6.72	7.27	7.67	3.67	-
21	-	-	-	-	3.63	3.50	-	6.85	7.37	7.62	3.62	-
22	2.00	-	-	-	-	-	-	7.12	7.47	7.47	3.53	-
23	-	-	-	3.68	-	-	-	7.77	7.62	7.40	3.47	-
24	2.02	-	-	-	-	-	5.37	7.82	7.72	7.33	3.42	-
25	2.03	-	-	-	-	-	-	7.77	7.82	7.25	3.40	1.86
26	-	-	4.24	-	-	-	-	7.66	7.97	7.12	3.37	-
27	-	-	-	-	3.59	3.47	-	7.32	8.02	7.04	3.37	-
28	-	-	-	-	-	-	-	6.97	7.97	6.92	3.22	-
29	-	-	-	-	-	-	-	6.67	7.97	6.82	3.15	-
30	-	-	-	3.74	-	-	-	6.40	7.97	6.72	3.07	-
31	-	-	-	-	-	-	-	6.17	-	6.61	3.02	-

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

North Fork of Payette River at Lardo, Idaho

Location.- Water-stage recorder, lat. 44°54'30", long. 116°07'30", in sec. 8, T. 18 N., R. 3 E., a quarter of a mile downstream from Lardo and outlet of Payette Lake.

Drainage area.- 144 square miles (revised).

Records available.- September 1908 to June 1917, May 1919 to September 1942.

Average discharge.- 31 years (1908-16, 1919-42), 343 second-feet.

Extremes.- Maximum discharge during year, 3,440 second-feet (regulated) May 26 (gage height, 6.87 feet); minimum, 4.4 second-feet (regulated) Oct. 6 (gage height, 1.16 feet).
1908-17, 1919-42: 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 for period of no gage-height record, which are fair. Flow partly regulated by flashboards placed at outlet of Payette Lake during spring and removed during irrigation season and by sluice gates at other times. Since water year 1939 some water bypassed station through fish hatchery.

Cooperation.- Gage-height record collected in cooperation with Forest Service.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

1.5	15	2.7	185	4.0	785	5.5	2,000
1.9	42	3.1	320	4.5	1,130	6.0	2,500
2.3	96	3.5	505	5.0	1,550	6.6	3,110

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	36	64	a260	164	113	93	175	1,460	648	304	136
2	41	36	57	250	162	111	96	224	1,210	731	308	136
3	39	39	123	243	164	111	102	256	1,210	731	384	141
4	42	45	281	233	172	109	107	289	1,290	725	582	134
5	43	48	362	a220	172	107	134	278	1,420	665	572	130
6	25	50	394	a220	172	106	143	293	1,460	550	535	121
7	17	51	394	a210	169	104	154	337	1,600	421	550	126
8	18	85	380	a210	164	102	164	441	1,780	264	594	159
9	18	148	366	a210	167	102	180	915	1,820	243	545	162
10	19	141	349	a200	164	107	211	1,370	1,860	233	545	157
11	19	134	337	a200	159	109	256	1,330	1,730	220	545	154
12	20	132	316	194	154	111	345	1,130	1,550	214	525	150
13	20	130	304	188	148	111	465	1,020	1,370	211	485	138
14	20	148	304	180	141	113	616	950	1,290	205	436	132
15	20	202	304	175	141	109	749	950	1,250	200	384	123
16	21	274	308	169	141	109	773	915	1,020	194	345	117
17	21	304	324	167	136	107	818	882	713	191	312	113
18	21	308	337	164	134	106	818	850	445	191	278	107
19	23	304	349	159	132	104	818	818	402	182	256	100
20	23	293	412	154	130	100	850	818	366	200	233	93
21	24	278	455	150	132	96	950	882	412	312	214	88
22	25	267	455	145	134	94	1,130	1,170	460	304	197	81
23	25	256	450	143	132	94	1,210	2,050	505	289	182	76
24	25	243	436	143	128	91	1,170	2,800	566	312	164	72
25	27	236	402	152	123	89	587	2,900	621	304	154	69
26	29	230	371	154	121	88	94	3,110	785	304	143	63
27	30	156	354	159	117	86	117	2,900	882	300	136	60
28	31	70	a330	169	115	86	172	2,450	818	308	157	56
29	33	72	a310	167	-	86	227	2,150	743	300	172	53
30	34	72	a290	164	-	86	204	1,860	599	300	162	51
31	34	-	a280	162	-	88	-	1,640	-	297	152	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	828	43	17	26.7	1,640
November	4,788	308	36	160	9,500
December	10,198	455	57	329	20,230
Calendar year 1941	133,324	2,450	5	365	264,400
January	5,714	260	143	184	11,330
February	4,088	172	115	146	8,110
March	3,135	113	86	101	6,220
April	13,753	1,210	93	458	27,280
May	38,153	3,110	175	1,231	75,680
June	31,637	1,860	366	1,055	62,750
July	10,549	731	182	340	20,920
August	10,551	582	136	340	20,930
September	3,298	162	51	110	6,540
Water year 1941-42	136,692	3,110	17	374	271,100

a No gage-height record; discharge interpolated.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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North Fork of 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 2¼ miles downstream from Willow Creek.

Drainage area.- 626 square miles.

Records available.- May 1941 to September 1942.

Extremes.- Maximum discharge observed during year, 6,160 second-feet May 28 (gage height, 5.80 feet); minimum observed, 119 second-feet (regulated) Sept. 30 (gage height, 0.60 foot).

1941-42: Maximum discharge observed, that of May 28, 1942; minimum observed, that of Sept. 30, 1942.

Remarks.- Records good except those for ice-affected periods, which are fair. Flow regulated by Payette Lake (see p.152) and Lake Fork Reservoir (see p.157) and slightly affected by flashboards on Halleck and Howard mill dam. Gage read twice daily. Several diversions from tributaries above station for irrigation.

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

Rating table, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used July 7 to Sept. 30)

0.7	135	2.6	1,940	5.0	5,040
1.0	310	3.0	2,420	5.5	5,740
1.4	625	3.5	3,060	6.0	6,440
1.8	1,030	4.0	3,710		
2.2	1,470	4.5	4,360		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	203	410	440	b550			692	1,140	4,230	1,300	425	324
2	209	425	527				770	1,140	3,580	1,300	a430	284
3	215	418	1,250				872	a1,140	3,190	1,300	432	278
4	221	571	1,200				925	1,140	3,190	1,250	418	278
5	a230	527	820		b550	b420	a1,100	1,140	3,450	a1,150	654	239
6	245	463	820				1,300	1,140	3,580	1,030	644	a235
7	252	440	925				1,580	1,140	a3,800	978	654	a235
8	245	425	925				1,760	1,200	3,710	872	644	233
9	221	a430	720		562	410	1,940	1,300	4,100	663	a650	227
10	221	440	710		616	422	2,180	a1,800	4,100	562	692	264
11	221	448	770		519	471	2,180	2,300	4,230	511	644	278
12	209	455	770		562	519	a2,300	2,420	3,970	a520	672	278
13	209	455	710	b500	589	519	2,800	2,180	3,450	418	710	a270
14	203	535	692		535	*519	2,670	2,060	a3,100	317	663	264
15	209	820	820		a530	a480	3,060	2,060	2,800	425	589	252
16	209	925	1,250		527	455	2,670	2,180	2,670	402	a580	252
17	209	978	1,300	(*)	(*)	487	2,670	a2,060	2,420	410	479	233
18	209	872	*978			448	2,800	1,940	2,180	402	463	227
19	a220	820	1,250			b450	2,420	1,700	1,940	a390	425	221
20	239	720	1,940			b440	2,060	1,700	1,760	380	395	a225
21	264	701	a2,000			b430	2,060	1,760	a1,640	366	359	233
22	258	634	1,470			b430	2,300	1,940	1,520	402	338	221
23	233	a530	1,300		b420	b420	2,420	2,540	1,360	440	a325	215
24	203	440	1,250			b420	2,420	4,230	1,420	440	284	215
25	209	692	a1,100			418	2,300	5,040	1,520	440	278	165
26	227	720	1,030			422	a2,000	5,880	1,360	a440	258	170
27	239	634	820			*410	1,250	6,020	1,700	440	264	a180
28	310	562	663	b550		455	1,200	6,160	a1,800	432	297	203
29	331	479	770		-	a500	1,200	5,880	1,470	425	284	160
30	373	448	978		-	527	1,200	5,320	1,520	425	a320	140
31	448	-	b800		-	616	-	4,620	-	418	331	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,494	448	203	242	14,860
November	17,417	978	410	581	34,550
December	30,998	2,000	440	1,000	61,480
Calendar year	-	-	-	-	-
January	15,900	-	-	513	31,540
February	13,880	616	-	496	27,530
March	14,028	616	-	453	27,820
April	57,099	3,060	692	1,903	113,300
May	82,270	6,160	1,140	2,654	163,200
June	80,760	4,230	1,360	2,692	160,200
July	19,248	1,300	317	621	38,180
August	14,601	710	258	471	28,960
September	6,999	324	140	233	13,880
Water year 1941-42	360,694	6,160	140	988	715,500

* 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.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

North Fork of Payette River near Smiths Ferry, Idaho

Location.- Water-stage recorder, lat. 44°16', long. 116°04', in SW¼ sec. 23, T. 11 N., R. 3 E., 450 feet downstream from Beaver Creek, 2½ miles downstream from Tripod Creek, and 2 5/8 miles southeast of Smiths Ferry. Datum of gage is 4,505.9 feet above mean sea level (levels by Bureau of Reclamation). Prior to Nov. 17, 1941, chain gage at same site and datum.

Drainage area.- 893 square miles.

Records available.- May 1941 to September 1942.

Extremes.- Maximum discharge during year, 7,590 second-feet May 29 (gage height, 9.97 feet); minimum, 192 second-feet (regulated) Sept. 30 (gage height, 2.56 feet).
1941-42: Maximum discharge, that of May 29, 1942; minimum, that of Sept. 30, 1942.

Remarks.- Records good except those prior to Nov. 17 and those for periods of ice effect, which are fair. Flow regulated by Payette Lake (see p. 152) and Lake Fork Reservoir (see p. 157). Gage read twice daily prior to Nov. 17. Several diversions from tributaries above station for irrigation.

Rating tables, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 16				Nov. 17 to Sept. 30					
2.6	205	4.2	825	2.6	202	5.0	1,370	8.0	4,490
3.0	312	4.6	1,070	3.0	312	5.5	1,760	8.5	5,210
3.4	441	5.0	1,340	3.4	442	6.0	2,200	9.0	5,990
3.8	607			3.8	630	6.5	2,680	9.5	6,790
				4.2	850	7.0	3,220	10.0	7,590
				4.6	1,090	7.5	3,830		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	d240	518	619	b700	b700		1,090	1,800	5,360	1,720	428	339
2	d240	518	768		b700		1,260	1,760	4,770	1,600	431	330
3	d250	607	1,640		b700		1,600	1,680	4,220	1,560	424	309
4	d260	710	1,760		b700		1,680	1,680	3,960	1,520	435	298
5	d270	657	1,230		b725	b500	1,800	1,640	3,960	1,440	486	286
6	d290	607	1,030		b725		2,160	1,640	4,090	1,340	652	272
7	d290	561	1,160		724		2,530	1,680	4,220	1,230	696	266
8	d280	561	1,120		729		2,780	1,720	4,090	1,120	668	266
9	d270	561	1,000	a625	*734	b520	3,000	1,840	4,350	970	674	263
10	d270	561	940		696	b580	3,110	2,240	4,630	795	712	266
11	d270	518	1,000		729	b650	3,110	2,780	4,630	729	674	292
12	d260	561	1,000		685	b710	3,220	3,110	4,490	734	674	295
13	d260	607	970		*674	b730	3,580	3,000	4,220	658	668	295
14	d260	710	970		652	b720	4,090	2,680	3,830	588	674	292
15	d260	1,000	970		641	b700	4,220	2,780	3,460	537	646	280
16	d260	1,200	1,370	a650	630	b680	3,960	2,780	3,220	552	641	275
17	d260	1,200	1,760	a650	b520	b660	3,830	2,630	3,220	491	431	269
18	d280	1,120	1,520	*b650	b400	b660	3,830	2,480	2,780	478	482	272
19	d290	1,030	1,560	b650	b420	b640	3,460	2,380	2,530	462	446	263
20	d310	910	2,420	b650	b500	*b600	3,220	2,380	2,290	446	417	258
21	d330	850	2,580			b600	3,000	2,430	2,110	428	380	252
22	342	768	2,110			b620	3,220	2,580	1,980	413	361	252
23	327	630	*1,840	b650		b610	3,340	3,340	1,880	466	351	252
24	312	537	1,560			619	3,340	4,770	1,800	474	327	247
25	298	707	1,370		b500	588	3,110	5,670	1,840	454	309	228
26	298	850	1,090			588	2,890	6,630	1,880	450	283	207
27	312	822	b950		(*)	614	2,240	7,110	1,840	450	286	212
28	373	768	b850	b700		636	1,880	7,270	2,020	446	298	220
29	406	707	970		-	696	1,840	7,430	1,930	446	309	218
30	424	641	1,120		-	768	1,800	6,950	1,840	438	330	218
31	478	-	b1,000		-	910	-	6,150	-	431	345	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,270	478	240	299	18,390
November	21,997	1,200	518	733	43,630
December	40,307	2,580	619	1,300	79,950
Calendar year	-	-	-	-	-
January	20,150	-	-	650	39,970
February	16,984	734	400	607	33,690
March	19,099	910	-	616	37,880
April	84,190	4,220	1,090	2,806	167,000
May	105,010	7,430	1,640	3,387	208,300
June	97,440	5,360	1,800	3,248	193,300
July	23,866	1,720	413	770	47,340
August	14,938	712	283	482	29,630
September	7,992	339	207	266	15,850
Water year 1941-42	461,243	7,430	207	1,264	914,900

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station at Cascade.
b Stage-discharge relation affected by ice.
d Doubtful gage-height record; discharge computed on basis of records for station at Cascade.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Lake Fork of 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, 2¾ 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 1942 (irrigation seasons only).

Extremes.- Maximum discharge during year, 1,420 second-feet May 23 (gage height, 5.90 feet), from rating curve extended above 1,100 second-feet; minimum, 4.2 second-feet (regulated) Sept. 26 (gage height, -0.09 foot).

1926-42: 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 Dec. 29-31, which are fair. Diurnal fluctuations at low stages 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	34	69				-	a200	376	e390	37	22
2	23	33	155				-	a185	400	e350	36	21
3	23	38	487				-	a175	500	e310	34	20
4	43	90	224				-	a165	582	e290	32	19
5	45	62	211				-	a165	568	e260	33	18
6	37	60	158				-	a170	610	e225	32	17
7	34	52	156				-	a210	718	e205	29	16
8	32	49	151				-	a260	670	e190	28	16
9	31	47	167				-	a350	750	e165	27	15
10	31	45	164				-	a380	610	e140	27	16
11	31	44	156				-	a285	448	e135	25	16
12	31	46	143				-	a265	376	e120	25	16
13	31	50	126	†48			-	233	424	e105	19	15
14	28	152	85				-	249	448	e100	27	15
15	28	321	57				-	266	540	e95	23	15
16	27	241	87				-	249	461	e90	21	14
17	26	153	91				-	222	376	e85	18	14
18	26	121	85		†41		296	215	412	e80	24	15
19	30	104	126				315	230	388	e75	23	15
20	45	95	250				400	274	319	e70	25	15
21	38	99	156			†47	554	448	313	64	23	15
22	34	108	128				640	750	332	58	20	14
23	31	107	119				424	1,080	376	56	26	14
24	30	95	109				a330	852	388	53	20	13
25	31	75	102				a305	1,080	448	50	23	13
26	38	72	91				a270	766	e390	47	24	8.0
27	34	67	94				a240	568	e300	45	25	5.0
28	35	59	98				a225	487	e275	42	32	6.8
29	40	59	a95		-		a210	448	d315	42	26	8.2
30	36	62	a90		-		a195	400	e340	39	23	13
31	34	-	a90		-		-	376	-	38	22	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,003	45	20	32.4	1,990
November	2,640	321	33	88.0	5,240
December	4,322	487	57	139	8,570
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 18-30	4,404	640	195	339	8,740
May	12,003	1,080	165	387	23,810
June	13,453	750	275	448	26,680
July	4,014	390	38	129	7,960
August	809	37	18	26.1	1,600
September	440	22	5.0	14.7	873
Water year	-	-	-	-	-

† Result of discharge measurement.

a No gage-height record; discharge computed on basis of weather records or auxiliary record at power plant.

e Stage-discharge relation indefinite because of backwater from reservoir; discharge computed on basis of auxiliary record at power plant.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 of Payette River, lat. 44°54', long. 116°03', in NW¼NW¼ 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 1942.

Extremes.- Maximum contents observed during year, 19,010 acre-feet July 5 (elevation, 5,118.30 feet); no storage during fall and winter.
1926-42: 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, 16,940 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 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.

Cooperation.- Elevation record and capacity table furnished by Lake Irrigation District.

Contents, in acre-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,394		-				-	12,590	14,150	18,720	12,810	2,743
2	-		-				-	-	-	18,770	12,450	2,532
3	-		-				-	13,080	14,150	18,850	12,110	2,378
4	5,383		-				-	-	-	18,990	11,750	2,196
5	-		-				-	13,230	14,460	19,010	11,360	2,001
6	-		-				-	13,260	15,880	18,990	11,000	1,843
7	5,373		-				-	-	16,010	18,890	10,670	1,684
8	-		-				-	-	16,100	18,850	10,270	1,521
9	-		-				-	13,540	16,350	18,720	9,954	1,386
10	5,246		760				-	-	-	18,570	9,623	1,280
11	-		-				-	13,850	16,040	18,670	9,243	1,163
12	-		-				-	13,630	15,650	18,680	8,906	1,047
13	-		1,623				-	13,690	15,700	18,590	8,528	931
14	-		-				-	-	16,220	18,520	8,163	809
15	5,182		-				-	13,720	16,470	18,400	7,777	711
16	-		-				-	13,620	-	17,950	7,449	613
17	-		-				-	13,540	17,250	18,030	7,122	506
18	-	1,227	-				2,807	-	17,250	17,570	6,769	389
19	-		-				3,388	13,540	17,290	17,250	6,441	302
20	-		-				-	-	17,290	16,890	6,105	-
21	-		-				-	13,820	17,130	16,560	5,815	-
22	5,097		-				-	13,850	17,290	16,250	5,498	-
23	-		-				-	15,390	17,550	15,930	5,182	-
24	-		-				8,838	15,460	17,760	15,570	4,864	-
25	5,182		-				9,379	15,700	18,130	15,290	4,509	53
26	-		-				10,100	15,480	18,510	14,940	4,257	10
27	-		-				-	15,080	18,560	14,590	3,987	-
28	4,758		-				-	-	18,490	14,230	3,708	-
29	-		-				11,720	14,460	18,460	13,890	3,453	-
30	-		-				-	-	18,510	13,540	3,210	0
31	-		-				-	14,250	-	13,160	2,967	-

Monthly elevation and contents, water year October 1941 to September 1942

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
May 31	5,115.26	14,250	-
June 30	5,117.99	18,510	+4,260
July 31	5,114.55	13,160	-5,350
Aug. 31	5,106.20	2,967	-10,193
Sept. 30	5,100.95	0	-2,967

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Lake Fork of 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 1942.

Extremes.- Maximum discharge during year, 1,040 second-feet May 26 (gage height, 5.71 feet); minimum, 1.3 second-feet (regulated) Dec. 11, 12, 13 (gage height, 1.94 feet).

1940-42: Maximum discharge, that of May 26, 1942; minimum, that of Dec. 11, 12, 13, 1941.

Revisions.- The maximum discharge for the water year 1941 has been revised to 965 second-feet May 14 (gage height, 5.57 feet), superseding figure published in Water-Supply Paper 933.

Remarks.- Records good. Flow regulated by Lake Fork Reservoir (see preceding page) and Lake Irrigation District canal.

Revisions.- Revised figures of discharge, in second-feet, for the high-water period in the water year 1941, superseding those published in Water-Supply Paper 933, are given herewith:

May 13..... 890
14..... 940

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May.....	15,562	940	4	502	30,870
Water year 1940-41	45,355	940	4	124	89,960

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	209	90	104	55		38	14	470	162	63	38
2	26	203	92	95	55		40	58	450	142	62	38
3	26	194	133	93	55		44	103	470	103	60	36
4	26	188	160	88	54		47	133	546	97	60	36
5	27	182	162	b85	54		54	148	472	103	60	36
6	27	178	162	b81	54		61	162	294	93	60	35
7	27	180	162	81	53		65	178	510	75	56	36
8	28	170	158	81	52		74	206	641	70	52	32
9	28	165	155	77	52		88	266	718	104	49	28
10	28	158	93	75	b50		112	366	740	131	49	24
11	22	150	1.6	72	b49	b41	145	370	654	104	54	22
12	29	136	1.3	71	b47		209	343	546	106	56	24
13	29	124	97	68	b47		270	312	354	93	57	24
14	29	122	259	*b65	b47		343	294	266	78	57	22
15	29	140	230	b63	b46		398	308	308	78	56	24
18	29	160	206	b62	b45		402	304	322	75	55	25
17	29	162	194	b62	b45		406	280	358	72	55	26
18	29	*162	180	62	b45		309	262	370	78	56	23
19	30	158	170	62	*b45		3.5	256	394	81	55	21
20	30	152	188		b44		3.0	259	366	60	53	25
21	29	148	203		44		2.7	315	258	78	50	24
22	29	142	197	b58	45	*b36	2.8	474	162	77	48	24
23	29	133	188		b44	b35	2.1	615	185	74	52	23
24	29	127	178		b43	b35	1.7	915	130	70	53	22
25	42	120	162			b35	1.7	1,020	152	67	51	21
26	108	114	148	54	b42	b35	1.6	990	224	63	51	21
27	106	118	131	55		b34	1.6	840	221	56	50	20
28	140	110	122	55		b34	1.9	718	200	57	40	19
29	230	97	120	56	-	b34	1.8	632	185	64	41	17
30	221	92	116	b55	-	34	1.6	556	148	67	41	18
31	215	-	112	55	-	36	-	506	-	65	41	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October.....	1,732	230	22	55.9	3,440
November.....	4,496	209	92	150	8,920
December.....	4,570.9	259	1.3	147	9,070
Calendar year 1941	49,678.9	940	1.3	136	98,540
Jauuary.....	2,125	104	-	68.5	4,210
February.....	1,338	55	-	47.8	2,650
March.....	1,209	-	34	39.0	2,400
April.....	3,131.0	406	1.6	104	6,210
May.....	12,403	1,020	14	400	24,600
June.....	11,114	740	130	370	22,040
July.....	2,663	162	56	85.9	5,280
August.....	1,643	63	40	53.0	3,260
September.....	784	38	17	26.1	1,560
Water year 1941-42	47,208.9	1,020	1.3	129	93,640

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge observed during year, 159 second-feet July 8, 9 (gage height, 4.96 feet); practically no flow during nonirrigation season.
1926-42: Maximum discharge observed, that of July 8, 9, 1942; no flow or small amount of leakage through head gate during nonirrigation seasons.

Remarks.- Records good. Staff gage read once or twice a day. No diversions between head and station. Canal diverts water from right bank of Lake Fork of 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 Lake Irrigation District project.

Cooperation.- Gage-height record furnished by watermaster for Lake Irrigation District.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	S							-	-	142	140	99
2	a8							-	-	150	140	86
3	a8							-	-	152	140	79
4	8							-	-	152	140	79
5	a8							-	-	152	140	79
6	a8							-	-	152	140	78
7	8							-	-	155	139	75
8	a7							-	-	158	138	66
9	a6							-	-	176	136	62
10	6							-	a1	0	134	62
11	a6							-	1	0	134	62
12	a6							†0.17	2	10	134	62
13	a6							-	5	54	134	61
14	a6			†0.20				-	6	79	134	60
15	6							-	7	119	134	55
16	a6							-	a7	139	134	54
17	a6							-	12	139	129	51
18	a6	†0.05						-	16	142	125	50
19	a5				†0.10		†0.03	-	20	144	123	e29
20	a5							-	22	144	120	a17
21	a5							-	27	144	119	a17
22	5					†0.06		-	39	141	119	a17
23	a5							-	60	140	119	17
24	a5							-	68	140	119	17
25	5							-	75	140	119	16
26	a5							†0.2	99	140	119	13
27	a5							-	115	140	119	a13
28	4							-	118	140	119	12
29	-							-	125	140	115	a10
30	-							-	133	140	110	10
31	-							-	-	140	104	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	172	S	-	5.5	341
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year 1941	7,937	144	0	21.7	15,740
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	-	-	-	-	-
June	958	133	0	31.9	1,900
July	3,844	158	0	124	7,620
August	3,969	140	104	128	7,870
September	1,408	99	10	46.9	2,790
Water year 1941-42	10,351	158	0	28.4	20,520

† Result of discharge measurement or field estimate.
a No gage-height record; discharge interpolated or computed on basis of information furnished by watermaster and known gate changes.
e Gage reading not representative of average for day; discharge computed on basis of known head-gate change, Sept. 19.
Note.- Practically no flow Oct. 29 to June 9 when head gate was closed.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Cruzen Canal at Lake Fork, Idaho

Location.- Staff gage, lat. 44°50', long. 116°04', in NE¼ 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 1942 (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 of Payette River in NE¼ sec. 3, T. 17 N., R. 3 E., for irrigation.

Cooperation.- Gage readings furnished by watermaster for Lake Fork of Payette River.

Monthly discharge, 1938-42

Month	Mean (second-feet)	Run-off in (acre-feet)
1938		
August 9-31	35.6	1,620
September	15.1	900
October	7.27	447
November 1-12	5.63	134
The period	-	3,101
1939		
May	31.0	1,900
June	53.2	3,160
July	47.8	2,940
August	40.2	2,470
September 1-23	9.37	427
The period	-	10,900
1940		
June 10-30	61.7	2,570
July	47.3	2,910
August	24.8	1,530
September 1-14	9.66	268
The period	-	7,280
1941		
July	50.0	3,070
August	30.4	1,870
September 1-15	12.0	357
The period	-	5,300
1942		
June	30.9	1,840
July	54.4	3,340
August	45.0	2,760
September	17.3	1,030
The period	-	8,970

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Porter Creek near Gardena, Idaho

Location.- Staff gage, lat. 43°57', long. 116°11', in NE¼ sec. 14, T. 7 N., R. 2 E., at Rood 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 1942.

Extremes.- Maximum discharge observed during year, 70 second-feet May 15; maximum gage height observed, 2.88 feet Jan. 4, ice jam; minimum discharge observed, 0.1 second-foot Aug. 19, 21, 23, 24, Sept. 3, 5, 6; minimum gage height observed, 0.88 foot Aug. 19, 21, 23, Sept. 3.

1938-42: Maximum discharge observed, 181 second-feet Aug. 11, 1941 (gage height, 3.58 feet, from floodmark), from rating curve extended above 50 second-feet; no flow at times.

Remarks.- Records fair except those below 10 second-feet and those for January and February which are poor. Gage read twice daily. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	3.9	3.0	b7	17	8.3	18	36	47	7.1	0.3	0.3
2	3.0	3.9	3.9	b6	18	7.6	18	32	44	4.4	.7	.2
3	2.7	4.2	4.3		22	7.6	20	32	44	4.6	.8	.2
4	5.4	4.8	3.3		43	7.4	26	32	42	5.0	.8	.2
5	4.8	3.8	3.2		20	8.6	24	31	37	4.8	1.0	.2
6	4.3	3.6	3.3		22	7.6	24	30	30	7.4	.8	.2
7	4.0	4.3	2.9		22	7.4	24	30	28	5.7	.5	.2
8	4.3	4.8	5.0		17	7.6	28	28	27	4.4	.5	a.4
9	4.0	3.6	8.6		19	9.3	31	26	26	3.5	.5	e.5
10	4.4	3.4	*5.0		17	14	37	35	24	3.0	.3	e.5
11	5.2	3.4	a4.0	b6	17	13	37	33	24	3.3	.2	e.5
12	5.0	3.2	3.3	(*)	14	14	a44	32	24	3.2	.4	.5
13	5.2	3.2	3.3		13	14	a45	32	24	2.0	.3	.4
14	4.6	4.8	4.0		12	14	46	32	24	1.5	.3	.5
15	3.6	6.4	4.2		b10	12	47	56	24	1.4	.4	.4
16	2.7	3.6	3.8		b8	a12	42	49	24	1.5	.2	.5
17	2.1	3.2	4.2		*b6	a12	49	51	23	1.9	.2	.5
18	2.2	3.4	8.8	(*)	b6	12	44	48	20	1.9	.2	.6
19	2.8	*3.3	13		b6	12	42	44	19	1.6	.1	.5
20	2.4	3.3	19		b7	10	44	45	18	1.4	.2	.5
21	2.4	b3.2	13		b8	12	53	44	17	.8	.1	.5
22	2.5	b3.0	10		b8	12	50	44	16	.6	.2	.4
23	2.6	b2.5	*11	b7	b8	12	45	54	15	.5	.1	.4
24	2.7	b4.0	10	b8	b8	12	40	49	14	.5	.1	.5
25	2.8	6.0	9.0	b9	8.3	11	36	50	12	.3	.2	.4
26	4.0	4.4	b8	14	8.6	12	35	46	12	.4	.2	.4
27	3.9	3.0	b7	31	9.0	11	32	47	11	.5	.4	.5
28	4.6	3.6	b7.5	28	7.4	12	32	46	11	.4	.5	.5
29	4.0	3.5	b9	20	-	13	30	53	10	.3	.4	.5
30	4.0	3.4	b10	18	-	14	30	52	8.3	.2	.3	.9
31	3.8	-	b8	17	-	16	-	47	-	.2	.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	113.3	5.4	2.1	3.65	225
November	114.7	6.4	2.5	3.82	228
December	212.6	19	2.9	6.86	422
Calendar year 1941	2,792.1	32	0	7.65	5,540
January	285	31	-	9.19	565
February	381.3	43	6	13.6	756
March	347.4	16	7.4	11.2	689
April	1,073	53	18	35.8	2,130
May	1,266	56	26	40.8	2,510
June	699.3	47	8.3	23.3	1,390
July	74.3	7.4	.2	2.40	147
August	11.5	1.0	.1	.37	23
September	12.8	.9	.2	.43	25
Water year 1941-42	4,591.2	56	.1	12.6	9,110

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated or computed on basis of records for Moore Creek near Arrowrock and weather records.

b Stage-discharge relation affected by ice.

e Stage-discharge realtion indefinite or gage reading not representative of average for day; discharge computed on basis of field estimate of Sept. 9, discharge measurement of Sept. 11, and interpolated.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge observed during year, 511 second-feet Apr. 14 (gage height, 4.90 feet); minimum observed, 5.2 second-feet Sept. 7, 8 (gage height, 0.80 foot).
1936-42: Maximum discharge observed, 775 second-feet Mar. 27, 1940 (gage height, 6.00 feet), from rating curve extended above 600 second-feet; minimum observed, 1.7 second-feet July 30, 1938 (gage height, 0.52 foot), while water was being stored in millpond.

Remarks.- Records good except those for periods of ice effect and backwater from beaver dams, which are fair. Gage read 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.

Rating table, water year 1941-42, except periods of ice effect, and backwater from beaver dams (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used July 17-31)

0.8	5.2	1.9	60	3.5	246
1.0	10	2.2	86	4.0	330
1.3	21	2.6	127	4.5	426
1.6	39	3.0	175	4.9	511

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.0	7.0	8.2	b30	16	13	101	96	86	14		6.3
2	7.0	7.0	18	b35	15	13	144	91	78	14		6.1
3	7.0	7.9	56	b35	16	13	175	86	68	13		6.1
4	7.0	9.7	40	b25	16	14	202	86	63	12		5.6
5	7.0	7.9	b25	b20	16	13	246	82	56	12		5.6
6	7.0	7.2	b25	b21	16	13	262	78	48	c11		5.6
7	6.7	7.0	b17	b23	16	12	295	73	46	c11		5.2
8	6.7	7.0	b16	b25	16	b13	330	73	44	c11		5.4
9	6.5	7.0	b15	26	16	13	367	68	39	c10		
10	6.5	7.0	16	23	16	15	386	86	36	c10	c6.5	
11	6.5	7.0	15	21	16	18	406	82	35	c11		
12	6.5	7.0	15	20	b15	19	468	78	33	c10		
13	6.5	7.9	14	b17	b15	20	466	68	30	c10		c5.5
14	7.0	12	14	b16	b15	20	511	73	27	c9.5		
15	7.0	16	16	b15	b15	21	426	86	25	c9.0		
16	7.0	*17	27	16	b14	22	330	73	24	c8.0		
17	7.0	14	*40	16	b14	21	348	73	24	7.9		
18	6.5	12	46	16	b14	22	295	68	22	7.9		
19	6.5	11	65	b14	*b16	22	246	65	21	7.9	6.5	
20	7.0	10	188	b14	b16	22	231	60	20	7.9	6.1	
21	6.7	b9.0	168	b14	b16	21	231	56	20	7.4	5.9	†5.6
22	6.7	b7.0	127	b14	b16	21	231	55	18	7.0	6.1	
23	6.5	b6.0	101	15	b16	*19	202	86	18	7.4	6.1	
24	6.5	b7.0	b70	14	16	17	162	106	19	7.4	6.5	
25	6.5	7.4	b50	*15	16	16	144	132	19	7.4	6.5	
26	7.0	8.2	b40	14	16	17	127	116	20	7.4	6.5	c5.5
27	7.4	7.4	b35	16	15	19	106	111	20	7.4	6.5	
28	7.4	7.4	b45	20	13	21	116	116	18	7.0	6.7	
29	7.4	8.4	b45	19	-	23	101	101	16	7.4	7.0	
30	7.4	8.2	b40	17	-	36	86	96	15	7.0	7.0	
31	7.4	-	b35	16	-	62	-	91	-	6.5	7.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	212.8	7.4	6.5	6.86	422
November	264.6	17	6.0	8.82	525
December	1,432.2	188	8.2	46.2	2,840
Calendar year 1941	13,986.6	312	6.0	38.3	27,740
January	602	35	14	19.4	1,190
February	433	16	13	15.5	859
March	611	62	12	19.7	1,210
April	7,743	511	86	258	15,360
May	2,611	132	55	84.2	5,180
June	1,008	86	15	33.6	2,000
July	286.4	14	6.5	9.24	568
August	201.4	-	-	6.50	399
September	167.0	-	-	5.57	331
Water year 1941-42	15,672.4	511	-	42.7	30,880

* Winter discharge measurement made on this day.
† Result of discharge measurement.
b Stage-discharge relation affected by ice.
c Backwater from beaver dams; discharge computed on basis of weather records and records for other stations on Weiser River.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Extremes.- Maximum discharge, 1,260 second-feet Apr. 14 (gage height, 4.83 feet); minimum, 12 second-feet Nov. 23 (gage height, 1.29 feet).
1920, 1939-42: 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 periods of ice effect, which are fair. Several small diversions from river and tributaries above station.

Rating tables, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Dec. 2		Dec. 3 to Sept. 30			
1.4	17	1.3	14	3.0	300
1.6	28	1.6	28	3.5	495
1.8	46	1.9	50	4.0	730
2.1	83	2.2	90	4.7	1,150
		2.6	179		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	22	33	61	59	50	287	258	365	71	22	18
2	20	21	62	95	58	46	384	248	328	69	20	17
3	20	24	151	101	60	44	452	239	293	66	20	17
4	24	31	106	54	68	42	486	242	270	61	20	17
5	22	27	77	54	64	44	572	227	248	60	22	17
6	20	31	76	61	61	43	608	222	233	58	21	16
7	21	30	57	77	60	41	645	224	230	47	19	16
8	22	28	52	90	58	42	680	239	213	41	18	16
9	20	28	54	94	58	46	758	267	219	39	18	16
10	19	27	61	88	54	51	840	321	196	35	17	17
11	19	27	50	80	54	68	870	287	174	37	17	17
12	18	27	45	73	53	71	1,080	264	156	38	18	16
13	18	30	53	60	50	74	1,120	242	146	37	17	16
14	18	47	52	59	54	71	1,150	227	139	35	17	17
15	18	69	62	51	57	70	990	255	143	33	17	17
16	20	72	92	60	53	71	812	239	139	33	17	16
17	18	58	*136	60	40	70	812	224	121	31	17	17
18	18	47	127	57	b45	70	715	213	118	30	16	18
19	19	41	222	52	b45	70	635	210	112	29	16	18
20	20	31	580	47	*b55	66	612	204	95	28	15	17
21	20	33	436	b40	b55	69	635	213	94	27	15	17
22	20	27	321	b45	b55	73	690	248	88	27	15	17
23	20	22	267	*b48	53	*73	590	407	87	26	15	17
24	20	31	216	b45	52	74	482	469	84	26	15	17
25	21	39	185	b50	50	71	411	518	92	25	16	17
26	22	33	156	61	48	70	350	469	101	24	16	17
27	21	30	134	69	51	74	310	419	88	23	20	17
28	24	30	199	97	50	84	297	444	80	22	23	17
29	26	30	179	69	-	101	270	444	76	22	22	17
30	23	30	134	60	-	141	245	436	73	22	20	17
31	22	-	101	60	-	204	-	403	-	22	18	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	633	26	18	20.4	1,260
November	1,023	72	21	34.1	2,030
December	4,476	580	33	144	e,880
Calendar year 1941	43,251	665	17	118	85,810
January	2,018	101	40	65.1	4,000
February	1,520	68	40	54.3	3,010
March	2,184	204	41	70.5	4,330
April	18,788	1,150	245	626	37,270
May	9,322	469	204	301	18,490
June	4,801	365	73	160	9,520
July	1,144	71	22	36.9	2,270
August	559	23	15	18.0	1,110
September	506	18	16	16.9	1,000
Water year 1941-42	46,974	1,150	15	129	93,170

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 3¼ miles southwest of Council.

Drainage area.- 390 square miles.

Records available.- April 1937 to September 1942.

Extremes.- Maximum discharge during year, 2,710 second-feet Dec. 20, Apr. 14; maximum gage height, 6.83 feet Dec. 20; minimum discharge, 42 second-feet Sept. 29 (gage height, 1.05 feet).

1937-42: Maximum discharge observed, 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 or no gage-height record, which are fair. Flow partly regulated by Lost Valley Reservoir (see p. 168) and other reservoirs. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	94	129	89	208	406	161	1,190	740	1,190	206	68	92
2	96	104	172	269	393	159	1,420	720	1,060	195	69	92
3	96	95	496	285	420	157	1,540	680	990	177	67	87
4	104	121	316	220	805	145	1,540	700	918	151	62	82
5	107	96	230	b200	660	157	1,760	660	872	140	67	80
6	102	86	226	b230	525	153	1,840	640	805	125	76	78
7	102	84	177	b260	444	153	1,870	660	828	109	87	80
8	104	75	b150	b290	386	161	1,870	680	782	98	86	76
9	106	73	b150	274	366	180	1,980	740	740	92	82	78
10	101	72	164	240	331	a300	2,150	990	660	78	81	84
11	100	72	*156	211	312	a500	2,230	895	560	73	81	80
12	101	81	144	192	283	a550	2,390	850	508	69	81	82
13	101	84	138	169	245	a550	2,550	805	480	68	80	84
14	102	*110	221	161	242	a500	2,630	782	458	68	77	86
15	101	172	530	143	255	448	2,550	872	444	62	80	86
16	101	172	650	b150	232	462	2,080	872	430	55	81	64
17	100	150	615	b170	195	466	2,150	828	379	58	77	49
18	98	119	725	b160	190	466	1,980	782	363	52	80	51
19	98	104	1,400	b150	213	493	1,760	760	347	49	76	51
20	101	85	2,390	b140	232	455	1,660	760	306	44	74	51
21	100	81	1,510	b130	230	490	1,700	782	285	53	73	51
22	100	75	1,020	b150	225	525	1,840	872	260	72	72	48
23	98	b60	850	b170	225	542	1,660	1,270	235	69	73	45
24	86	70	700	*165	208	525	1,390	1,570	227	58	73	44
25	68	86	580	184	190	508	1,190	1,660	237	57	67	45
26	112	82	458	230	192	508	1,060	1,480	277	63	68	44
27	126	72	366	434	188	525	940	1,330	260	61	77	44
28	135	75	424	700	163	580	940	1,390	245	62	94	46
29	146	74	410	600	-	680	850	1,390	225	62	90	44
30	135	81	360	480	-	828	760	1,390	218	64	92	47
31	131	-	306	410	-	1,040	-	1,270	-	67	93	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,252	146	68	105	6,450
November	2,842	172	60	94.7	5,640
December	16,123	2,390	89	520	31,980
Calendar year 1941	147,543	2,390	38	404	292,600
January	7,775	700	130	251	15,420
February	8,756	805	163	313	17,370
March	13,357	1,040	145	431	26,490
April	51,470	2,630	760	1,716	102,100
May	29,820	1,660	640	962	59,150
June	15,589	1,190	218	520	30,920
July	2,657	206	44	85.7	5,270
August	2,404	94	62	77.5	4,770
September	1,973	92	44	65.8	3,910
Water year 1941-42	156,018	2,630	44	427	309,500

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records and records for other stations on Weiser River.

b Stage-discharge relation affected by ice.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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., 2¼ miles northeast of Cambridge.

Drainage area.- 605 square miles.

Records available.- March 1939 to September 1942.

Extremes.- Maximum discharge during year, 5,150 second-feet Dec. 20 (gage height, 7.47 feet); minimum, 50 second-feet Sept 25 (gage height, 1.18 feet).
1939-42: Maximum discharge, 6,670 second-feet Mar. 31, 1940 (gage height, 8.30 feet); minimum, 25 second-feet Sept. 3, 1940 (gage height, 0.99 foot).

Remarks.- Records good except those for periods of ice effect or no gage-height record, which are fair. Flow partly regulated by Lost Valley Reservoir (see p.168) and other reservoirs. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	115	164	158	a330	671	270	1,520	1,150	1,900	369	84	95
2	122	156	263	a400	671	267	1,780	1,120	1,700	344	83	97
3	120	134	782	h406	702	261	1,660	1,050	1,590	321	84	95
4	130	218	501	a350	1,420	247	1,860	1,050	1,520	293	82	94
5	141	164	358	a320	1,240	267	2,120	1,020	1,450	267	80	89
6	134	141	348	a350	960	264	2,220	990	1,380	247	82	86
7	130	132	284	a400	782	264	2,270	1,050	1,380	224	90	83
8	132	123	253	a425	687	287	2,270	1,120	1,380	201	94	83
9	130	116	242	a450	661	312	2,420	1,240	1,310	185	94	83
10	129	113	*284	b400	607	497	2,710	1,560	1,280	168	90	84
11	127	111	253	b350	574	900	2,900	1,450	1,120	145	90	86
12	129	113	231	328	524	990	3,250	1,340	990	134	88	86
13	129	127	234	281	467	990	3,710	1,280	900	134	86	88
14	127	160	395	258	455	840	3,790	1,240	870	129	84	88
15	129	258	972	242	484	782	3,710	1,340	840	118	83	89
16	127	270	1,120	244	455	782	2,900	1,380	840	111	80	88
17	125	236	990	270	a350	782	2,900	1,280	755	108	76	72
18	125	190	1,150	264	a300	755	2,650	1,240	702	105	72	60
19	127	168	2,610	247	a350	782	2,370	1,220	692	95	72	58
20	134	143	4,570	221	a370	728	2,270	1,240	631	89	70	56
21	130	134	2,430	179	h365	782	2,420	1,340	578	80	69	58
22	127	123	1,480	258	a360	870	2,780	1,520	542	78	69	58
23	127	84	1,240	275	*h338	870	2,480	2,040	501	72	68	55
24	125	108	1,020	255	a320	870	2,120	2,650	467	74	69	52
25	106	139	810	284	309	810	1,860	2,840	451	82	68	50
26	123	143	728	*362	284	782	1,620	2,540	519	84	65	52
27	152	129	488	626	293	810	1,420	2,170	510	84	68	54
28	164	130	612	1,240	270	870	1,340	2,120	467	84	80	53
29	188	130	626	1,020	-	990	1,280	2,170	438	82	89	53
30	170	141	555	810	-	1,150	1,150	2,220	403	83	92	54
31	164	-	484	676	-	1,380	-	2,040	-	83	94	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,136	188	106	133	8,210
November	4,498	270	84	150	8,920
December	26,471	4,570	158	854	52,500
Calendar year 1941	228,250	4,570	65	625	452,700
January	12,521	1,240	179	404	24,840
February	15,269	1,420	270	545	30,290
March	21,451	1,380	247	692	42,550
April	69,950	3,790	1,150	2,332	138,700
May	48,010	2,840	990	1,549	95,230
June	28,106	1,900	403	937	55,750
July	4,673	369	72	151	9,270
August	2,495	94	65	80.5	4,950
September	2,199	97	50	73.3	4,360
Water year 1941-42	239,781	4,570	50	657	475,600

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for other stations on Weiser River.
b Stage-discharge relation affected by ice.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 21 years (1921-42), 823 second-feet.

Extremes.- Maximum discharge during year, 6,790 second-feet Dec. 20; maximum gage height, 8.55 feet Jan. 28, ice jam; minimum discharge, 68 second-feet Aug. 27 (gage height, 1.04 feet).

1920-42: 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 good except those for periods of ice effect, which are fair. Several reservoirs and many diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	157	245	232	660	1,310	b500	2,680	1,620	2,980	553	100	125
2	164	245	266	495	1,380	475	2,900	1,680	2,680	505	97	128
3	171	228	745	632	1,540	481	3,060	1,520	2,460	458	100	125
4	185	270	888	632	3,780	458	3,060	1,540	2,460	414	100	120
5	201	335	597	b550	3,780	481	3,210	1,420	2,380	365	95	112
6	212	258	513	b500	2,430	499	3,370	1,360	2,310	330	93	107
7	204	232	501	b550	1,920	511	3,290	1,400	2,310	288	97	105
8	208	216	390	b600	1,560	547	3,290	1,460	2,460	254	102	110
9	208	208	*b360	b700	1,430	602	3,290	1,660	2,240	229	102	118
10	208	208	b400	b700	1,320	812	3,530	2,160	2,160	207	95	120
11	201	*201	b375	b650	1,210	1,880	3,770	2,160	1,820	178	95	118
12	197	197	b350	b550	1,090	2,530	3,850	1,950	1,580	158	90	118
13	193	204	b350	b500	992	2,760	4,270	1,820	1,450	158	95	115
14	193	228	b600	b450	925	2,090	4,360	1,750	1,350	165	97	118
15	197	325	2,040	b400	936	1,820	4,440	1,950	1,300	152	86	120
16	197	443	2,230	b400	896	1,750	3,850	2,090	1,320	134	88	123
17	197	421	1,740	b475	752	1,750	3,690	1,880	1,160	118	86	118
18	193	354	2,160	b475	*b503	1,660	3,690	1,750	1,080	112	84	105
19	193	302	4,020	b425	b550	*1,950	3,290	1,750	1,050	107	86	100
20	193	270	6,380	*b360	b650	1,820	3,130	1,750	977	a106	93	100
21	201	228	4,280	b300	b650	1,880	3,290	1,880	888	a104	93	100
22	193	212	2,640	b300	b650	2,160	3,610	2,160	835	a102	84	97
23	193	b150	2,100	b400	b600	2,090	3,530	2,980	768	a100	79	95
24	193	b200	1,800	b500	b560	2,160	3,060	3,770	709	a98	75	95
25	193	b250	1,430	b500	b540	1,750	2,680	4,100	681	a96	77	88
26	178	262	1,180	b700	*b505	1,610	2,310	3,930	782	95	77	84
27	212	245	928	b2,000	b540	1,660	2,020	3,450	798	97	75	84
28	241	216	880	b2,640	b520	1,750	2,020	3,370	723	97	110	84
29	266	208	1,030	2,500	-	1,950	1,950	3,370	667	90	131	86
30	270	212	952	1,980	-	2,160	1,680	3,530	621	90	131	93
31	253	-	865	1,450	-	2,460	-	3,210	-	93	128	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,265	270	157	202	12,430
November	7,573	443	150	252	15,020
December	43,222	6,380	232	1,394	85,730
Calendar year 1941	368,535	6,380	51	1,010	731,000
January	23,974	2,640	300	773	47,550
February	33,522	3,780	503	1,197	66,490
March	47,006	2,760	458	1,516	93,240
April	96,170	4,440	1,680	3,206	190,800
May	70,420	4,100	1,360	2,272	139,700
June	44,999	2,980	621	1,500	89,250
July	6,053	553	90	195	12,010
August	2,941	131	75	94.9	5,830
September	3,211	128	84	107	6,370
Water year 1941-42	385,356	6,380	75	1,056	764,400

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

East Fork of Weiser River near Council, Idaho

Location.- Water-stage recorder, lat. 44°46', long. 116°16', in SE¼ sec. 31, T. 17 N., R. 2 E., three-quarters of a mile southwest of Squaw Creek ranger station and 9 miles northeast of Council. Datum of gage is 6,224.1 feet above mean sea level.

Drainage area.- 2.0 square miles.

Records available.- September 1932 to September 1942 (fragmentary).

Extremes.- Maximum discharge during year, 59 second-feet about May 25 (gage height, 3.05 feet, from recorded range in stage); probably no flow at times during winter.
1932-42: Maximum discharge recorded, 77 second-feet June 16, 1938, from rating curve extended above 50 second-feet; maximum gage height recorded, 4.11 feet June 9, 1933 (ice affected); no flow Apr. 8, 1937, and probably no flow at times during each winter from 1938 to 1942.

Remarks.- Records good except those for period of no gage-height record, which are fair. No diversions or regulation above station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	0.6					-	6.2		21	2.0	1.1
2	.7	.6					-	6.0		20	1.9	1.1
3	.7	.9					-	5.8		19	1.9	1.0
4	1.1	.8					-	5.4		18	1.8	1.0
5	.9	.6					-	4.9	a35	17	1.7	.9
6	.9	.6					-	4.7		16	1.7	.9
7	.8	.8					-	4.9		14	1.7	.9
8	.9	.6					-	5.8		13	1.7	.9
9	.8	.6					-	7.3		12	1.4	.8
10	.7	.6					-	7.9		10	1.4	.9
11	.7	.5					-	7.3	a30	9.7	1.4	.9
12	.7	.6					-	7.0		8.3	1.3	.8
13	.6	.7					-	6.6		7.7	1.3	.8
14	.6	1.1					-	6.4	28	6.8	1.2	.8
15	.6	1.5					-	6.4	29	6.2	1.2	.8
16	.6	1.1					-	6.0	26	5.6	1.2	.8
17	.6	.9					-	6.0	26	5.2	1.2	.8
18	.6	-					-	6.0	25	4.7	1.3	.8
19	.6	-					-	a7.0	22	4.1	1.3	.8
20	.6	-					-	a8.0	22	3.8	1.3	.8
21	.6	-					-	a10	21	3.5	1.3	.7
22	.6	-					-	a15	21	3.1	1.3	.7
23	.6	-					6.0	a40	22	3.0	1.2	.6
24	.6	-					6.0	a45	23	3.0	1.2	.6
25	.6	-					6.2	a50	25	2.7	1.2	.6
26	.6	-					6.4		22	2.5	1.2	.7
27	.6	-					6.4		19	2.4	1.3	.7
28	.6	-					6.6		19	2.3	1.5	.7
29	.6	-					6.6	a40	20	2.1	1.3	.7
30	.6	-					6.4		20	2.1	1.2	.7
31	.6	-					-		-	2.3	1.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	21.0	1.1	0.6	0.68	42
November 1-17	13.1	1.5	.5	.77	26
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 23-30	50.6	6.6	6.0	6.32	100
May	525.6	50	4.7	17.0	1,040
June	820	-	19	27.3	1,630
July	251.1	21	2.1	8.10	498
August	43.7	2.0	1.1	1.41	87
September	24.3	1.1	.6	.81	48
Water year	-	-	-	-	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for Middle Fork of Weiser River near Mesa and other nearby stations.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

West Fork of Weiser River near Fruitvale, Idaho

Location.- Staff gage, lat. 44°50', long. 116°28', in NW¼ sec. 9, T. 17 N., R. 1 W., at Taylor Ranch, 1¼ miles northwest of Fruitvale and 1½ miles upstream from mouth.
Drainage area.- 78 square miles.
Records available.- October 1910 to January 1913, October 1919 to September 1925, April 1937 to September 1942.
Extremes.- Maximum discharge observed during year, 710 second-feet Apr. 14 (gage height, 4.40 feet); minimum observed, 7.9 second-feet Nov. 27.
1910-13, 1919-25, 1937-42: Maximum discharge observed, 1,170 second-feet Mar. 31, 1940 (gage height, 4.79 feet, present datum); minimum observed, 0.5 second-foot July 23-27, 1911.
Remarks.- Records fair. Gage read twice daily. Several diversions above and below station for irrigation. Flow regulated by Lost Valley Reservoir.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	71	10	33	50	20	236	132	256	33	64	70
2	53	62	13	36	48	22	267	127	223	32	63	70
3	52	16	60	36	49	17	278	149	194	30	61	70
4	54	14	21	b30	57	20	267	149	203	26	62	65
5	53	12	14	36	53	18	345	149	158	25	62	65
6	53	11	b14	36	50	20	360	149	133	21	82	64
7	54	9.8	b14	36	46	20	410	158	126	20	80	66
8	50	9.4	14	39	43	21	410	166	118	20	80	65
9	52	9.4	15	30	43	25	445	184	61	19	80	65
10	52	9.2	16	26	40	41	505	223	54	17	78	67
11	52	8.8	14	25	39	64	548	223	49	16	77	65
12	52	9.4	*13	20	35	73	660	234	46	14	78	64
13	53	9.4	14	17	b30	74	660	234	45	16	77	63
14	51	12	17	18	b30	67	710	223	42	15	77	61
15	51	*16	49	13	36	64	660	266	44	14	76	63
16	51	16	80	b15	38	66	592	266	44	12	76	28
17	50	13	63	17	34	66	592	265	43	12	75	26
18	50	14	56	17	b30	63	570	244	36	12	75	24
19	50	12	269	16	*44	61	505	223	37	8.7	73	25
20	50	9.6	278	14	37	56	485	234	37	8.4	73	25
21	50	b9.5	172	14	32	55	d525	203	36	45	73	25
22	50	b9.5	127	17	33	59	525	203	23	50	72	25
23	47	b9.5	108	*b20	37	*61	485	213	19	50	72	25
24	10	b9.8	87	18	29	60	428	330	21	47	70	25
25	12	9.8	70	20	28	56	360	345	24	48	66	25
26	75	9.6	64	23	b27	54	302	330	36	56	65	25
27	75	9.2	59	67	25	60	255	302	39	58	73	25
28	77	9.5	75	e3	25	94	244	302	38	60	75	25
29	75	8.9	58	71	-	145	213	290	36	62	71	25
30	74	10	45	50	-	148	194	278	34	64	70	25
31	72	-	36	54	-	189	-	278	-	64	70	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,654	77	10	53.4	3,280
November	439.3	71	8.8	14.6	871
December	1,945	278	10	62.7	3,860
Calendar year 1941	31,304.3	350	2	85.8	62,080
January	946	83	13	30.5	1,880
February	1,068	57	25	38.1	2,120
March	1,858	189	17	59.9	3,690
April	13,036	710	194	435	25,860
May	7,062	346	127	228	14,010
June	2,254	255	19	75.1	4,470
July	975.1	64	8.4	31.5	1,930
August	2,246	82	61	72.5	4,450
September	1,360	70	24	45.3	2,700
Water year 1941-42	34,843.4	710	8.4	95.5	69,120

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
d Doubtful gage-height record; discharge computed on basis of gage height 2.00 feet higher than that reported for the day.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.
Extremes.- 1924, 1926-42: 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 flashboard structure was raised to permit storage to gage height above 26 feet. Water is used for irrigation of lands in Weiser River Basin.
Cooperation.- Gage-height record furnished by Lost Valley Reservoir Co.

Gage height, in feet, of Lost Valley Reservoir near Tamarack, Idaho, for water year October 1941 to September 1942

Date	Discharge	Date	Discharge	Date	Discharge
Oct. 9	16.06	Apr. 22	25.50	July 14	26.14
16	15.01	30	25.58	19	26.12
Nov. 6	12.61	May 19	25.74	20	26.10
Dec. 16	15.61	June 5	25.30	Aug. 5	23.76
Jan. 22	18.50	8	25.26	18	20.99
Mar. 14	22.32	13	25.78	Sept. 15	15.21
Apr. 17	25.60	21	26.00	20	14.75

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 1942.
Average discharge.- 12 years (1930-42), 33.3 second-feet.
Extremes.- Maximum discharge during year, 322 second-feet Apr. 15 (gage height, 3.02 feet); minimum, 2 second-feet Nov. 10-12 (gage height, 0.94 foot).
1910-14, 1920-21, 1924-42: 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 fair except those Jan. 1 to Apr. 9, which are poor. 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 employees of Lost Valley Reservoir Co.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	61					a4	41	118	21	61	65
2	53	19					a7	44	114	20	62	64
3	53	7					a10	48	108	18	62	64
4	53	7					a20	54	101	17	62	64
5	53	7					a30	56	78	16	65	64
6	54	f6					a40	59	65	15	86	64
7	53	3				a3	a60	62	65	14	86	62
8	54	3	a3				a70	68	48	13	84	62
9	54	3					a80	71	8	12	83	62
10	54	2					118	88	9	12	83	62
11	54	2		a4			143	96	11	11	83	62
12	53	2			a4		182	102	14	10	81	62
13	53	3			-		257	108	15	10	80	62
14	53	3				h3	304	109	16	9	78	62
15	53	3					31e	116	19	9	78	47
16	53	3	3				301	120	22	a9	77	26
17	53	3	3				294	122	24	a9	77	26
18	53	3	3				277	122	25	a9	76	26
19	52	3	3				257	120	26	9	76	a26
20	52	3	3				244	116	26	19	74	26
21	52	3	3				247	113	16	55	73	26
22	52	3	3	h5			273	111	8	53	73	26
23	41		3			a3	277	116	9	52	71	26
24	5		3		h4		250	136	9	54	71	27
25	32						207	148	14	61	70	27
26	71	a3		a4	a4		174	148	20	61	69	27
27	70		a3				148	146	22	62	69	28
28	69						134	141	22	61	68	28
29	69				-		124	136	21	61	66	28
30	69				-		85	128	21	62	66	28
31	68	-			-		-	122	-	62	65	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,660	71	5	53.5	3,290
November	176	61	2	5.9	349
December	93	-	-	3	184
Calendar year 1941	13,641	184	2	37.4	27,040
January	125	-	-	4	248
February	112	-	-	4	222
March	93	-	-	3	184
April	4,935	318	4	164	9,790
May	3,167	148	41	102	6,280
June	1,074	118	8	35.8	2,130
July	906	62	9	29.2	1,800
August	2,275	86	61	73.4	4,510
September	1,329	65	26	44.3	2,640
Water year 1941-42	15,945	318	2	43.7	31,630

a No gage-height record; discharge computed on basis of records for Lost Valley Reservoir.
f Computed on basis of partly estimated gage-height record.
h Computed from staff-gage readings.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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Hornet Creek near Council, Idaho

Location.- Staff gage, lat. 44°45', long. 116°29', in sec. 5, T. 16 N., R. 1 W., 2¼ miles upstream from mouth and 2½ miles northwest of Council.

Drainage area.- 107 square miles.

Records available.- April 1937 to September 1942 (fragmentary prior to August 1939).

Extremes.- Maximum discharge observed during year, about 613 second-feet Dec. 20 (gage height, 6.00 feet, estimated); minimum observed, 0.2 second-feet Aug. 17 (gage height, 1.98 feet).

1937-42: Maximum discharge observed, 1,180 second-feet Feb. 28, 1940 (gage height, 6.90 feet, present datum); no flow Aug. 19, 20, 1939, and probably at times during periods of no record.

Remarks.- Records fair. Gage read once daily. Slight regulation by two small reservoirs on South Fork. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.9	16	22	33	126	42	390	148	225	53	1.3	3.2
2	11	16	32	b60	120	39	417	120	206	48	.9	7.7
3	11	16	d140	b80	126	39	444	113	188	43	.9	7.7
4	12	34	94	73	338	28	417	120	188	33	.7	4.6
5	14	22	61	b65	216	39	527	106	188	34	.5	3.7
6	12	21	61	b70	171	39	499	106	180	29	.5	2.9
7	12	19	39	b90	140	30	499	106	188	29	.5	3.7
8	12	18	33	b90	126	32	471	113	197	25	.3	2.9
9	12	17	29	b80	120	40	444	120	180	25	.3	2.5
10	9.5	17	b35	b70	106	55	471	180	163	18	.3	2.2
11	10	17	b35	b60	100	88	444	155	148	16	.3	2.5
12	12	33	*30	b60	88	106	499	148	126	17	.3	2.5
13	14	29	37	52	61	120	444	140	126	17	.3	2.9
14	15	33	50	b50	63	106	444	133	120	17	.3	3.2
15	13	*49	245	40	82	94	338	176	113	14	.3	3.7
16	13	43	206	b45	75	106	278	171	106	11	.3	4.1
17	13	33	188	b50	25	100	364	155	100	10	.2	4.6
18	12	28	188	b45	*32	100	278	148	88	8.6	.3	5.0
19	11	25	266	b40	39	100	245	140	82	7.7	.3	5.0
20	12	15	e613	33	61	82	225	140	77	5.0	.7	5.0
21	12	13	390	36	69	94	245	150	71	8.2	.9	5.5
22	12	10	256	b40	62	113	266	171	68	4.6	.3	4.6
23	13	8.9	216	*b45	52	113	216	235	62	6.0	.8	4.1
24	14	17	180	b50	54	113	188	338	60	3.8	.4	4.1
25	14	20	148	b50	52	94	171	338	60	1.8	.5	4.1
26	15	12	120	75	39	100	148	278	72	1.3	.7	4.6
27	15	10	73	94	46	113	140	225	68	.7	.9	4.1
28	15	19	113	197	37	133	148	216	66	.9	2.2	4.6
29	20	19	113	163	-	171	133	216	59	1.3	3.2	4.6
30	17	26	100	140	-	225	120	225	55	1.3	4.1	4.6
31	16	-	94	126	-	326	-	216	-	1.3	2.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	402.4	20	8.9	13.0	798
November	655.9	49	8.9	21.9	1,300
December	4,207	613	22	136	8,340
Calendar year 1941	29,414.4	613	.4	80.6	58,340
January	2,202	197	33	71.0	4,370
February	2,626	338	25	93.8	5,210
March	2,980	326	28	96.1	5,910
April	9,913	527	120	330	19,660
May	5,346	338	106	172	10,600
June	3,630	225	55	121	7,200
July	492.0	53	.7	15.9	976
August	26.4	4.1	.2	.85	52
September	124.5	7.7	2.2	4.15	247
Water year 1941-42	32,605.2	613	.2	89.3	64,660

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
d Doubtful gage-height record; discharge computed on the assumption that gage height reported was 1 foot too high.
e Gage height estimated by observer.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Middle Fork of 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, 1¾ miles north of Mesa and 2½ miles upstream from mouth.

Drainage area.- 86.5 square miles.

Records available.- August 1919 to November 1921, April 1937 to September 1942. October 1910 to August 1913 at site three-quarters of a mile upstream.

Extremes.- Maximum discharge observed during year, 640 second-feet May 25 (gage height, 3.52 feet); minimum observed, 0.4 second-foot Aug. 14, 16, 19-23; minimum gage height observed, 0.96 foot Aug. 14, 16.

1919-21, 1937-42: Maximum discharge observed, 1,380 second-feet May 1, 1938, from rating curve extended above 1,000 second-feet; maximum gage height observed, 4.88 feet Dec. 11, 1937, present datum; 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 6½ miles above station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	20	32	44	70	b38	143	232	426	108	3.8	0.7
2	19	21	92		68	b37	154	252	426	101	2.6	.7
3	d21	22	132		81	b36	154	d230	392	92	2.6	.7
4	d25	29	b90		92	36	159	d220	372	78	2.1	.6
5	d26	37	b60		87	41	179	d210	388	d75	2.0	.6
6	b21	32	b45		81	39	185	d210	372	d70	1.7	.6
7	d25	27	b40	b60	70	48	194	d230	360	65	1.4	.7
8	d23	25	b35		70	63	200	269	345	52	1.2	.7
9	d20	25	b35		70	78	286	d300	322	49	1.0	.8
10	23	24	39		66	87	304	d350	283	46	1.0	1.0
11	21	23	b35		63	105	314	d300	280	46	.6	1.1
12	20	22	*b31		57	101	400	280	255	46	.7	1.3
13	20	34	b35		55	83	470	258	232	42	.5	1.4
14	19	*42	83		54	78	516	269	229	38	.4	1.6
15	19	42	135		41	76	470	332	240	34	.5	1.6
16	18	72	130	b50	37	72	426	283	206	31	.4	1.6
17	18	51	159		26	70	380	269	197	33	.5	1.6
18	18	41	385		(*)	66	319	276	213	30	.5	1.7
19	20	38	414			68	356	297	182	25	.4	1.6
20	19	35	303			72	400	315	162	22	.4	1.6
21	18	32	197		b45	76	388	337	151	20	.4	1.6
22	19	b25	b150			*74	326	392	146	18	.4	1.4
23	19	b25	b150	b45		76	294	590	138	17	.4	1.3
24	19	35	b100	(*)		74	272	590	130	14	.5	1.3
25	21	36	b80			68	266	640	143	14	.5	1.4
26	21	37	66	62	b40	78	229	565	146	13	.5	1.4
27	21	35	b80	137		81	248	516	128	11	.7	1.4
28	24	34	b110	138		83	255	516	115	9.2	.8	1.2
29	23	32	98	108	-	92	219	492	110	7.9	.8	4.7
30	23	32	81	83	-	98	216	470	103	7.2	.7	7.6
31	20	-	66	74	-	105	-	447	-	5.0	.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	641	26	18	20.7	1,270
November	985	72	20	32.8	1,950
December	3,488	414	31	113	6,920
Calendar year 1941	40,228	640	0	110	79,800
January	1,931	138	-	62.3	3,830
February	1,563	92	26	55.8	3,100
March	2,109	105	36	70.9	4,360
April	8,722	516	143	291	17,300
May	10,937	640	210	353	21,690
June	7,192	426	103	240	14,270
July	1,219.3	108	5.0	39.3	2,420
August	30.7	3.8	.4	.99	61
September	45.5	7.6	.6	1.52	90
Water year 1941-42	38,953.5	640	.4	107	77,260

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
d Doubtful gage-height record; discharge computed on basis of one gage reading by an engineer, weather records, and records for other stations in Weiser River Basin.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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, 1930-42 (irrigation seasons only).

Extremes.- Maximum daily discharge observed during year, 33 second-feet July 17-19, 25, Aug. 1; maximum gage height observed, 2.22 feet July 17; no flow at times.
1924, 1928, 1930-42: Maximum discharge observed, 38 second-feet June 18, 19, 1940 (gage height, 2.32 feet); no flow during nonirrigation seasons.

Remarks.- Records fair. Gage read twice daily on three or four days each week, and gate changes noted. Canal diverts water from Middle Fork of Weiser River in SE¼NW¼ 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.

Cooperation.- Gage-height record furnished by operators of Mesa orchards.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	5	25	33	23
2								-	5	27	32	22
3								-	6	28	32	22
4								-	6	28	32	21
5								-	6	28	32	20
6	†6							-	6	27	32	20
7								-	6	27	31	20
8								-	9	28	30	20
9								-	12	30	29	22
10							†5	-	12	30	28	24
11								-	12	31	28	22
12								-	14	32	28	20
13								-	17	32	27	20
14		†3						-	18	32	27	19
15								-	19	32	26	19
16								-	21	32	26	19
17								-	23	33	25	19
18								-	23	33	24	19
19								-	24	33	24	19
20								-	24	32	24	19
21								8	24	31	24	18
22								8	25	30	24	18
23								8	26	30	24	18
24								7	26	32	23	17
25								4	26	33	23	16
26								2	27	31	23	16
27								4	28	32	24	16
28								5	28	32	25	10
29								5	27	32	26	3
30								5	26	32	25	3
31								5	-	32	24	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May 21-31	61	8	2	5.5	121
June	531	28	5	17.7	1,050
July	947	33	25	30.5	1,880
August	835	33	23	26.9	1,660
September	544	24	3	18.1	1,080
Water year	-	-	-	-	-

† Result of discharge measurement.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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°38', in SE¼ sec. 36, T. 17 N., R. 3 W., 50 feet downstream from Johnson Park Creek, three-quarters of a mile southeast of Johnson Park, and 10 miles northwest of Council. Prior to Sept. 22, 1942, recorder at site 22 feet upstream, at different datum.

Drainage area.- 5 square miles.

Records available.- March 1941 to September 1942.

Extremes.- Maximum discharge during year, 181 second-feet May 22 (gage height, 2.57 feet), from rating curve extended above 60 second-feet; minimum recorded, 1.1 second-feet Oct. 24.

1941-42: Maximum discharge, that of May 22, 1942; minimum recorded, 0.5 second-foot Sept. 18, 1941.

Remarks.- Records fair except those for Dec. 14-22 and those for period of no gage-height record, which are poor. No diversion or regulation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	1.6	-			-	8.5		46	9.4	2.2	1.6
2	1.8	1.6	-			-	10		43	8.8	2.0	1.6
3	1.5	9.6	-			-	13		44	8.0	2.0	1.5
4	2.5	7.1	-			-	21		44	8.0	1.9	1.4
5	1.7	4.3	-			-	29	a25	43	7.4	1.8	1.4
6	1.5	3.3	-			-	37		43	6.9	1.9	1.4
7	1.7	b3.0	-			-	44		51	6.9	1.8	1.4
8	1.5	b2.5	-			-	44		45	6.4	1.8	1.4
9	1.4	2.3	-			-	42		48	6.0	1.7	1.6
10	1.4	2.2	-			-	37		41	6.0	1.7	1.8
11	1.3	2.0	-			-	41		36	5.7	1.6	1.6
12	1.3	2.2	-			-	39		33	5.1	1.7	1.6
13	1.3	7.9	-			-	38		31	4.9	1.6	1.5
14	1.3	14	5.1			3.0	44	a50	29	4.8	1.6	1.5
15	1.3	15	4.8			3.0	59		30	4.4	1.6	1.5
16	1.2	9.7	8.3			3.0	77		27	4.4	1.5	1.4
17	1.2	6.0	8.3			3.1	55		25	4.4	1.6	1.6
18	1.2	3.6	8.0			3.0	48		24	4.0	1.5	1.7
19	1.2	-	15			3.1	45		22	3.8	1.4	1.6
20	1.5	-	47			3.1	40	56	20	3.6	1.4	1.6
21	1.3	-	23			3.1	36	59	18	3.3	1.4	1.6
22	1.2	-	16			3.3	34	82	16	3.0	1.4	1.4
23	1.2	-	-			3.3	31	102	16	2.8	1.4	1.4
24	1.1	-	-			3.3	33	96	14	2.8	1.4	1.4
25	1.3	-	-			3.6	34	91	16	2.5	1.3	1.4
26	1.4	-	-			3.7	30	76	15	2.5	1.4	1.4
27	1.4	-	-			4.1	30	68	14	2.4	2.4	1.4
28	3.6	-	-			4.4	27	61	12	2.4	2.2	1.5
29	2.5	-	-			5.1	27	58	11	2.2	1.9	1.5
30	1.6	-	-			5.7	a26	58	10	2.2	1.7	1.8
31	1.5	-	-			6.4	-	49	-	2.2	1.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	47.7	3.6	1.1	1.54	95
November 1-18	97.9	15	1.6	5.44	194
December 14-22	135.5	47	4.8	15.1	269
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 14-31	67.3	6.4	3.0	3.74	133
April	1,079.5	77	8.5	36.0	2,140
May	1,581	102	-	51.0	3,140
June	667	51	10	28.9	1,720
July	147.2	9.4	2.2	4.75	292
August	52.4	2.4	1.3	1.69	104
September	45.5	1.8	1.4	1.52	90
Water year	-	-	-	-	-

a No gage-height record; discharge computed on basis of records for other stations in Weiser River Basin.

b Stage-discharge relation affected by ice.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Rush Creek at Cambridge, Idaho

Location.- Staff gage, lat. 44°35', long. 116°40', in SW¼ sec. 2, T. 14 N., R. 3 W., in Cambridge, 150 feet upstream from Superior Street and three-eighths of a mile upstream from mouth.

Records available.- March 1938 to September 1942.

Extremes.- Maximum discharge observed during year, 341 second-feet May 25 (gage height, 4.80 feet); no flow Aug. 2-4, 10-27.
1938-42: Maximum discharge observed, 582 second-feet (discharge measurement) Mar. 16, 1938 (gage height, 6.07 feet); no flow at times during each year 1938-40, 1942.

Remarks.- Records good except those for periods of ice effect, which are fair. Gage read twice daily. Several diversions above station for irrigation. Flow slightly regulated by power plant 8 miles above station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	6.4	12		39	b12	60	68	132	56	0.1	0.2
2	3.7	5.9	16		40	b12	60	60	132	50	0	.2
3	3.5	8.0	48		52	b12	60	60	147	47	0	.2
4	5.9	18	26		97	10	60	56	180	40	0	.2
5	5.3	10	27		64	12	56	51	180	36	.1	.2
6	4.5	10	24	b25	48	10	60	51	204	33	.3	.1
7	4.8	9.6	23		42	10	56	56	245	27	.3	.2
8	4.8	8.9	b20		36	12	52	68	245	23	.2	.4
9	4.5	8.0	b20		35	14	49	92	231	16	.1	.4
10	4.5	7.6	b25		32	27	50	102	217	12	0	.4
11	5.0	7.6	*b20		29	45	56	92	180	9.6	0	.2
12	4.8	7.6	b20		24	62	64	87	158	9.2	0	.4
13	4.8	*7.6	b20		23	52	68	77	147	9.2	0	.1
14	4.2	11	b30		23	44	77	82	142	8.0	0	.1
15	4.5	18	b60		23	40	68	87	147	7.0	0	.1
16	4.2	18	60		21	44	64	82	137	5.6	0	.3
17	4.2	13	40			40	77	82	127	5.0	0	.5
18	4.0	11	99			55	64	82	122	5.0	0	.6
19	4.2	9.6	172	b20		59	64	87	117	4.0	0	.6
20	4.5	8.9	138			52	87	112	102	2.8	0	.8
21	4.8	8.6	73			52	102	142	92	1.4	0	.6
22	4.2	b8.0	60			56	122	217	87	1.4	0	.6
23	4.8	b8.0	60		b15	50	112	275	87	1.3	0	.6
24	5.0	b8.0	46			*43	102	307	77	1.1	0	.4
25	5.6	11	39		(*)	41	92	324	82	.6	0	.4
26	5.9	9.2	b33	*b21		38	82	260	92	.3	0	.9
27	5.6	10	b30	b50		41	82	217	77	.2	0	.6
28	7.3	9.2	b40	b60		43	77	180	68	.1	.1	.6
29	7.6	8.9	b35	60	-	46	72	158	64	.1	.2	.6
30	6.4	12	b30	42	-	52	64	158	60	.1	.2	.9
31	6.4	-	b20	35	-	56	-	142	-	.1	.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	152.5	7.6	3.0	4.92	302
November	297.6	18	5.9	9.92	590
December	1,366	172	12	44.1	2,710
Calendar year 1941	15,897.6	291	.2	43.6	31,540
January	828	60	-	26.7	1,640
February	808	97	-	28.9	1,600
March	1,142	62	10	36.8	2,270
April	2,159	122	49	72.0	4,280
May	3,914	324	51	126	7,760
June	4,078	245	60	136	8,090
July	412.1	56	.1	13.3	817
August	1.8	.3	0	.06	3.6
September	12.4	.9	.1	.41	25
Water year 1941-42	15,171.4	324	0	41.6	30,090

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SW¼ 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 1942.

Extremes.- Maximum discharge observed during year, 348 second-feet May 23 (gage height, 2.90 feet), from rating curve extended above 250 second-feet (a higher stage may have occurred May 24); minimum observed, 3.3 second-feet Aug. 21 (gage height, 0.52 foot).
1938-42: 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 or no gage-height record, which are fair. Gage read twice daily. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	12	21		48	21	166	77	83	34	6.7	6.0
2	12	13	36		48	28	179	67	83	32	6.4	5.7
3	12	14	42		55	21	188	66	90	25	6.4	5.7
4	12	16	30		67	21	188	62	124	23	6.4	5.7
5	13	14	19	b22	55	21	198	61	134	21	6.4	5.7
6	14	14	19		53	21	198	58	134	21	7.1	5.7
7	12	14	20		49	23	198	58	179	21	6.0	5.7
8	12	14	21		46	24	198	71	150	19	6.4	6.0
9	11	14	23	23	44	25	179	71	132	18	6.0	6.7
10	11	14	*b23	24	40	39	179	98	122	16	5.7	7.5
11	11	14	23	23	40	53	179	86	105	15	5.7	7.5
12	11	13	20	21	38	69	188	86	92	15	5.4	8.2
13	11	14	20	21	34	71	198	81	92	15	5.1	8.6
14	13	18	28	21	34	65	179	69	89	14	5.1	8.6
15	11	19	36	b20	36	62	170	74	87	13	5.4	8.6
16	12	18	43	21	30	61	136	74	76	13	5.7	8.6
17	11	16	42	18	24	60	138	69	76	11	6.0	8.6
18	12	15	55	18	24	57	119	67	71	10	5.7	9.0
19	12	12	147	18	27	57	108	69	64	9.5	5.7	8.6
20	12	10	97	16	b30	57	117	74	60	9.5	3.8	8.6
21	12	11	78	18	b30	58	139	120	58	8.2	4.0	8.2
22	11	8.6	65	b20	b27	62	165	147	50	7.5	4.0	8.2
23	12	9.0	57	b20	24	69	132	327	47	7.5	4.0	8.2
24	12	9.5	50	b20	24	69	119	a340	46	7.1	4.0	9.0
25	13	11	42	23	*23	67	108	a250	49	7.1	4.0	9.0
26	12	13	27	*21	19	67	95	a150	48	7.1	4.3	8.6
27	11	12	28	46	27	74	89	105	44	7.1	5.7	8.6
28	13	13	47	73	27	78	90	98	43	6.4	5.7	8.6
29	13	13	42	70	-	100	77	98	39	6.4	5.7	9.0
30	12	17	36	55	-	127	71	87	36	6.0	5.7	9.0
31	12	-	28	53	-	152	-	90	-	6.7	5.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	369	14	11	11.9	732
November	405.1	19	8.6	13.5	804
December	1,265	147	19	40.8	2,510
Calendar year 1941	17,087.1	236	4	46.8	33,890
January	839	73	-	27.1	1,660
February	1,023	67	19	36.5	2,030
March	1,779	152	21	57.4	3,530
April	4,488	198	71	150	8,900
May	3,250	340	58	105	6,450
June	2,503	179	36	83.4	4,960
July	432.1	34	6.0	13.9	857
August	169.6	7.1	3.8	5.47	336
September	231.7	9.0	5.7	7.72	460
Water year 1941-42	16,754.5	340	3.8	45.9	33,230

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for nearby stations.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Little Weiser River near Indian Valley, Idaho

Location.- Staff gage, lat. 44°30', long. 116°24', in NE¼ 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 4¾ miles southeast of Indian Valley.
Drainage area.- 81.9 square miles.
Records available.- April 1938 to September 1942. June 1920 to February 1921, March to September 1923, February 1924 to October 1927 at nearby sites.
Extremes.- Maximum discharge observed during year, 605 second-feet May 25 (gage height, 3.89 feet); minimum observed, 10 second-feet Sept. 7, 8, 25, 26, 28-30; minimum gage height observed, 0.28 foot Sept. 26, 28, 29.
1920-21, 1923-27, 1938-42: 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 no gage-height record, which are fair. Gage read twice daily. One small ranch diversion above station. Many diversions below station for irrigation, including feeder canal to C. Ben Ross Reservoir.

Rating tables, water year 1941-42, (except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

Oct. 1 to May 24				May 25 to Sept. 30			
0.4	10	2.2	170	0.3	10	2.2	205
.7	21	2.6	256	.6	19	2.6	293
1.0	35	3.0	360	1.0	36	3.0	390
1.4	62	3.5	515	1.4	72	3.4	505
1.8	106			1.8	131	3.8	640

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	16	30	42	68	a35	144	190	390	54	19	12
2	15	15	51	42	66	a35	144	170	365	52	18	12
3	13	19	81	40	71	a35	180	161	340	77	18	12
4	20	30	58	37	152	a35	233	152	340	69	17	12
5	21	26	37	b30	106	a35	244	144	340	63	17	11
6	17	22	41	b30	87	a35	233	144	340	62	16	11
7	16	19	34	34	81	a35	a230	152	365	58	18	10
8	16	19	29	35	76	a35	a240	180	340	55	17	10
9	16	18	32	36	67	a40	a260	222	340	51	16	11
10	16	18	32	37	61	a50	280	292	293	50	15	12
11	16	18	*32	37	63	93	305	268	270	49	15	11
12	15	18	32	34	52	93	332	233	248	43	15	11
13	15	18	34	b30	50	93	346	222	237	43	14	11
14	15	23	61	b30	50	81	450	222	216	42	13	11
15	14	32	87	b30	44	71	332	332	237	38	13	11
16	14	40	76	b30	b40	71	305	256	216	38	12	12
17	14	32	76	b30	b35	66	389	233	195	38	12	11
18	13	23	120	b30	b30	64	318	222	195	36	12	11
19	14	20	280	b30	b30	60	305	222	176	34	11	11
20	16	14	292	b25	32	53	332	233	157	33	11	11
21	14	16	190	b25	36	57	346	268	a148	31	11	11
22	14	15	113	28	b45	64	419	360	140	29	12	11
23	14	16	100	30	*b40	64	332	515	131	27	11	11
24	13	20	87	32	b35	66	292	515	123	25	11	11
25	15	24	63	*46	b35	57	268	570	140	23	11	10
26	16	25	59	51	b35	48	233	535	131	21	11	10
27	15	18	60	180	b35	56	211	445	114	20	12	11
28	19	18	62	144	b35	64	211	445	107	19	16	10
29	21	20	66	128	-	76	180	505	99	19	15	10
30	17	23	61	71	-	93	170	475	92	20	14	10
31	16	-	56	57	-	93	-	475	-	19	13	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	485	21	13	15.6	0.190	0.22	962
November	635	40	14	21.2	.259	.29	1,260
December	2,432	292	30	78.5	.958	1.10	4,820
Calendar year 1941	32,600	482	13	89.3	1.09	14.78	64,660
January	1,491	180	25	48.1	.587	.68	2,960
February	1,557	152	30	55.6	.679	.71	3,090
March	1,853	93	35	59.8	.730	.84	3,680
April	8,264	450	144	275	3.36	3.75	16,390
May	9,358	570	144	302	3.69	4.25	18,560
June	6,625	390	92	228	2.78	3.10	13,540
July	1,298	84	19	41.9	.512	.59	2,570
August	438	19	11	14.1	.172	.20	869
September	329	12	10	11.0	.134	.15	653
Water year 1941-42	34,965	570	10	95.8	1.17	15.88	69,350

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for other stations in Weiser River Basin.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SE¼ 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 1942.

Extremes.- Maximum gage height observed during year, 48.7 feet May 31; minimum not determined.
1924-42: Maximum gage height observed, 56.3 feet Feb. 22, 1927; no usable contents Sept. 23, 1928, to Feb. 28, 1929, 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 gage height 55.0 feet (elevation of spillway crest). Water is used for irrigation of lands in the lower Weiser Valley. Gage read once daily.

Cooperation.- Gage-height record furnished by Crane Creek Reservoir Administration Board.

Gage height, in feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	41.4	-	-	-	-	48.25	-	48.5	47.8	45.0	-
2	-	-	-	-	46.6	-	48.2	48.0	48.4	47.8	-	39.7
3	-	-	-	45.4	46.5	-	-	48.0	-	47.8	44.7	39.5
4	-	-	-	-	47.2	-	48.15	-	48.1	47.75	44.6	-
5	41.7	-	-	-	48.5	-	-	48.1	-	47.75	44.35	39.2
6	41.65	-	41.6	-	-	-	48.1	48.1	48.0	47.7	-	-
7	-	-	-	-	48.3	45.9	48.0	48.1	48.0	47.7	44.1	38.9
8	41.6	41.5	-	-	-	-	-	-	48.0	-	44.0	38.8
9	41.6	-	-	-	47.6	-	48.1	-	48.0	47.65	-	38.7
10	41.6	-	41.7	45.45	47.2	46.6	48.1	-	48.0	47.65	43.75	38.6
11	-	-	-	-	46.7	-	-	-	-	-	43.6	38.5
12	41.6	-	-	-	-	-	48.1	-	48.0	47.5	43.4	38.3
13	-	41.52	41.7	-	-	48.5	-	48.1	48.0	47.4	43.2	-
14	41.55	-	-	-	45.4	48.5	48.1	-	-	47.3	43.06	38.0
15	41.55	41.6	-	-	-	-	48.1	-	48.0	47.2	42.85	37.9
16	41.5	-	-	-	45.0	48.1	48.0	48.3	48.0	47.1	-	37.75
17	41.5	-	-	45.8	45.0	48.0	48.1	48.3	48.0	47.0	42.4	37.6
18	-	-	-	-	-	47.7	48.1	48.25	48.0	-	42.2	37.55
19	41.45	-	-	-	-	47.5	-	48.2	48.0	46.7	42.1	37.45
20	-	-	44.0	-	-	47.5	48.1	48.15	48.0	46.6	41.9	-
21	41.45	-	-	-	45.35	47.4	48.0	-	-	46.45	41.7	37.2
22	41.45	41.6	-	-	-	-	-	48.15	47.95	46.35	41.5	37.1
23	41.4	-	-	-	-	47.8	-	48.15	-	46.2	-	37.0
24	41.4	-	-	46.2	-	47.95	-	-	47.9	-	41.2	36.9
25	41.4	-	-	-	-	47.98	48.0	48.15	47.9	45.9	41.0	36.8
26	-	-	-	46.4	-	47.95	-	48.1	-	-	40.9	36.7
27	-	-	45.0	46.6	-	48.0	48.0	48.1	47.9	45.6	40.7	36.5
28	-	-	-	-	45.55	-	-	48.1	47.8	-	-	-
29	-	41.6	-	47.7	-	-	48.0	-	47.84	45.3	-	-
30	-	-	-	47.68	-	48.2	48.0	48.5	-	45.25	40.1	-
31	-	-	-	47.3	-	48.2	-	48.7	-	45.1	40.0	-

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SE¼ 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 1916, May 1924 to September 1942.

Average discharge.- 21 years (1912-15, 1924-42), 67.8 second-feet.

Extremes.- Maximum discharge during year, 856 second-feet Feb. 10 (gage height, 3.34 feet); practically no flow at times when gates in dam were closed.

1910-16, 1924-42: 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.

Revisions.- The maximum discharge for the water year 1941 has been revised to 812 second-feet Mar. 1, 1941 (gage height, 3.27 feet), superseding figure published in Water-Supply Paper 933.

Remarks.- Records good. Flow regulated by Crane Creek Reservoir (see preceding page). No large diversions above station.

Revisions.- Revised figures of discharge for water year 1941, superseding those published in Water-Supply Paper 933, are given herein.

Cooperation.- Gage-height record furnished by Crane Creek Reservoir Administration Board.

Rating tables, Oct. 1, 1940, to Sept. 30, 1942 (gage height, in feet, and discnarge, in second-feet)

Oct. 1, 1940, to Oct. 25, 1941

0.0	0
.3	7
.6	28

Note.- Same as following table above 0.6 foot.

Jan. 26 to Sept. 30, 1942

0.0	0	1.2	89	3.0	655
.3	9	1.6	143	3.5	960
.6	28	2.0	225		
.9	56	2.5	409		

Discharge, in second-feet, 1941-42

1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	806	52	0	8	65	64	12
2					0	806	109	0	8	46	64	15
3					0	806	163	2	8	17	64	12
4					0	806	106	7	8	h5	64	12
5					0	758	137	7	8	h5	64	12
6					0	586	199	7	9	h5	64	11
7					0	142	202	8	9	4	64	11
8					0	f1	135	8	20	h5	104	10
9					0	0	65	8	48	h5	118	10
10					0	0	50	8	48	f12	128	9
11					f285	0	122	8	48	f33	143	8
12					f659	0	225	8	46	f55	163	8
13					740	0	225	8	46	h79	163	7
14					776	0	240	8	46	h79	159	7
15					770	0	237	8	23	f138	153	6
16					770	0	121	8	5	f186	153	6
17					734	0	50	8	5	f173	149	6
18					677	0	50	8	5	153	137	6
19					677	0	48	8	31	153	105	6
20					484	0	48	8	54	151	90	6
21					111	0	35	8	54	151	90	6
22					0	0	17	7	54	143	79	6
23					106	0	12	7	54	130	54	6
24					390	0	12	7	54	128	54	6
25					616	0	12	7	46	128	54	6
26					688	0	12	7	28	128	54	7
27					688	0	6	7	3	127	54	7
28					f730	32	0	7	3	121	54	7
29					-	54	0	7	29	106	54	8
30					-	52	0	7	65	105	54	8
31					-	52	-	8	-	93	25	-

f Fragmentary gage-height record; discharge computed from partly estimated gage-heights.
h Computed from staff-gage readings.

Discharge, in second-feet, of Crane Creek near Midvale, Idaho, 1941-42--Continued

1941-42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8			0	734	0	240	23	279	10	125	146
2	8			0	734	0	240	24	279	10	125	130
3	8			0	734	0	240	24	279	10	125	105
4	8			0	758	0	237	24	209	9	125	106
5	8			0	f820	0	237	24	95	9	125	106
6	8			0	f836	0	240	24	54	10	124	106
7	7			0	836	0	177	23	20	10	122	105
8	7			0	843	0	87	22	20	10	122	104
9	7			0	850	0	87	22	20	10	122	104
10	7			0	856	0	85	22	20	34	122	104
11	7			0	824	0	85	22	20	69	122	104
12	7			0	782	0	85	22	10	69	138	102
13	7			0	782	0	84	22	3	81	161	102
14	7			0	603	344	84	22	3	96	159	101
15	7			0	237	688	84	22	3	96	159	89
16	7			0	179	688	84	27	3	96	159	83
17	7			0	45	682	81	56	7	104	157	83
18	8			0	0	666	81	68	9	114	157	82
19	8			0	0	580	81	68	9	114	157	83
20	8			0	0	495	81	68	9	120	156	83
21	8			0	0	459	81	68	9	128	149	82
22	9			0	0	388	72	68	9	128	148	81
23	9			0	0	388	34	h68	9	128	148	74
24	9			0	0	388	22	f68	9	127	148	66
25	6			0	0	388	22	f77	9	127	148	69
26	0			f2	0	308	23	f81	9	127	148	69
27	0			f113	0	220	23	46	9	127	148	68
28	0			436	0	220	23	46	9	125	148	69
29	0			638	-	220	23	46	10	125	148	65
30	0			660	-	220	23	119	10	125	146	65
31	0			704	-	228	-	209	-	125	145	-

f Fragmentary gage-height record; discharge computed from partly estimated gage heights.
h Computed from staff-gage readings.

Monthly discharge, in second-feet, 1941-42

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1940	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1940	43,859	898	0	120	87,000
January 1941	0	0	0	0	0
February	9,901	776	0	354	19,640
March	4,901	806	0	158	9,720
April	2,690	240	0	89.7	5,340
May	214	8	0	6.9	424
June	873	65	3	29.1	1,730
July	2,729	186	4	88.0	5,410
August	2,839	163	25	91.6	5,630
September	247	15	6	8.2	490
Water year 1940-41	24,394	806	0	66.8	48,380
October 1941	190	9	0	6.1	377
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1941	24,584	806	0	67.4	48,760
January 1942	2,553	704	0	82.4	5,060
February	11,453	856	0	409	22,720
March	7,570	688	0	244	15,010
April	3,046	240	22	102	6,040
May	1,525	209	22	49.2	3,020
June	1,443	279	3	48.1	2,860
July	2,473	128	9	79.8	4,910
August	4,386	161	122	141	8,700
September	2,736	146	65	91.2	5,430
Water year 1941-42	37,375	856	0	102	74,130

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 21 years (1921-42), 73.9 second-feet.

Extremes.- Maximum discharge during year, 1,520 second-feet Feb. 4 (gage height, 6.06 feet, from high-water marks); minimum, 2 second-feet Jan. 1 (gage height, 1.72 feet).
1920-42: Maximum discharge, 2,350 second-feet about Feb. 7, 1925 (gage height, 6.80 feet from well-defined marks on gage), from rating curve extended above 1,000 second-feet; minimum, 0.2 second-feet May 26, 1931; minimum gage height, 1.30 feet Jan. 21, 1922.

Remarks.- Records good except those for periods of no gage-height record, which are fair. Flow regulated by Crane Creek Reservoir (see p. 177). Several small ditches divert above station for irrigation.

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Dec. 17)

1.8	4	3.4	146	5.0	645
2.2	22	3.8	222	5.4	910
2.6	52	4.2	323	5.8	1,250
3.0	92	4.6	455		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	7	4	6	861	10	290	32	290	8	118	151
2	10	6	5	7	861	12	279	32	290	8	117	143
3	10	7	6	6	918	11	272	32	290	8	117	108
4	11	7	6	7	f1,240	11	272	32	269	8	117	108
5	11	6	6	9	a990	13	272	30	103	7	118	108
6	11	6	5	9	a930	13	259	30	82	7	118	104
7	11	6	5	10	a930	14	216	28	34	8	117	104
8	11	6	5	9	a930	16	100	27	28	9	117	104
9	11	6	5	8	h926	a25	97	27	26	9	117	103
10	11	5	4	7	a920	f43	97	29	26	9	117	103
11	12	4	5	7	a880	137	94	28	25	60	117	103
12	12	4	5	7	a830	143	92	27	24	67	124	103
13	12	4	5	7	a820	193	92	27	12	70	151	103
14	12	5	7	7	a640	777	91	27	6	92	151	104
15	12	6	32	7	a270	791	92	31	4	92	153	97
16	12	6	27	6	a210	791	91	32	4	92	156	85
17	12	6	16	7	a70	777	96	49	4	92	156	85
18	12	5	f146	7	21	777	90	67	5	107	158	84
19	12	5	209	6	15	731	88	68	7	109	156	84
20	12	5	105	5	13	585	88	68	7	112	156	85
21	12	4	32	5	a13	580	86	68	7	123	151	85
22	12	4	17	7	13	540	89	68	7	124	151	85
23	11	4	14	7	11	522	53	70	7	124	146	81
24	11	4	14	6	13	491	36	73	8	124	148	75
25	13	4	12	10	12	459	33	74	9	125	148	72
26	11	4	10	f39	11	434	32	89	10	125	146	73
27	8	4	8	f153	10	338	32	53	10	125	151	72
28	7	4	8	590	10	332	34	56	10	124	149	70
29	7	4	8	805	-	320	32	56	9	123	148	70
30	7	4	8	777	-	301	32	142	9	121	148	69
31	6	-	8	805	-	287	-	209	-	120	149	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	333	13	6	10.7	660
November	152	7	4	5.1	301
December	747	209	4	24.1	1,480
Calendar year 1941	30,510	995	3	83.6	60,510
January	3,348	805	5	108	6,640
February	13,368	1,240	10	477	26,520
March	10,474	791	10	338	20,770
April	3,527	290	32	118	7,000
May	1,681	209	27	54.2	3,330
June	1,622	290	4	54.1	3,220
July	2,332	125	7	75.2	4,630
August	4,286	158	117	138	8,500
September	2,821	151	69	94.0	5,600
Water year 1941-42	44,691	1,240	4	122	88,650

a No gage-height record; discharge computed on basis of weather records and records for stations on Weiser River and Crane Creek near Midvale.
f Computed on basis of partly estimated gage-height record.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942 (winter records fragmentary).

Extremes.- Maximum discharge during year, 205 second-feet July 14 (gage height, 3.05 feet); no flow at times when gates were closed.
1920-42: 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. One farm lateral diverts water a quarter of a mile above station. Canal diverts water from Weiser River in sec. 35, T. 11 N., R. 4 W., 3¼ miles above station for irrigation of about 7,000 acres included in projects of Weiser and Weiser Bench Irrigation Districts.

Cooperation.- Gage-height record furnished by Weiser Irrigation District.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	107	a41	-	-	-	-	a4.1	157	142	183	177	182
2	100	a41	-	-	-	-	a4.1	158	143	189	180	182
3	99	a41	-	-	-	-	a4.1	158	142	189	182	183
4	94	a41	-	-	-	-	a4.1	159	148	191	182	182
5	83	a40	-	-	-	-	a4.1	158	157	192	177	176
6	81	a40	-	-	-	-	a4.1	160	158	201	174	179
7	81	a40	-	-	-	-	a4.1	162	158	200	176	177
8	81	a40	-	-	-	-	4.1	166	166	200	180	175
9	81	a40	1.7	-	-	-	4.1	172	173	200	182	176
10	61	40	1.4	-	-	-	4.5	172	172	197	178	174
11	80	40	1.4	-	-	-	4.9	169	170	198	179	171
12	80	40	1.6	-	-	-	4.9	169	170	198	177	170
13	77	40	1.6	-	-	-	5.3	169	170	200	193	170
14	67	42	-	-	-	-	5.3	172	169	200	195	f161
15	66	42	-	-	-	-	a5.3	142	169	197	196	152
16	62	44	-	-	-	-	a5.3	44	172	194	196	151
17	50	43	-	-	-	-	a43	163	171	188	196	151
18	44	-	-	-	†0.9	-	100	161	172	186	197	148
19	43	-	-	-	-	0.8	101	158	172	186	196	146
20	42	-	-	†0.3	-	.8	107	158	172	185	195	145
21	42	-	-	-	-	.8	112	166	172	185	191	144
22	42	-	-	-	-	.8	122	177	176	182	192	144
23	42	-	-	-	-	.8	132	177	177	184	196	143
24	a42	-	-	-	-	1.9	135	166	164	186	186	140
25	a42	-	-		-	4.1	136	140	196	182	184	135
26	a42	-	-	-	†1.5	4.1	141	151	190	180	156	134
27	a42	-	-	†1.0	-	4.1	148	149	187	177	182	131
28	a42	-	-	-	-	4.1	147	149	186	177	181	131
29	a42	-	-	-	-	4.1	145	149	186	171	183	124
30	a41	-	-	-	-	a4.1	147	147	185	166	182	122
31	a41	-	-	-	-	a4.1	-	142	-	167	182	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,959	107	41	63.2	3,890
November 1-17	696	44	40	40.9	1,380
December 9-13	7.7	1.7	1.4	1.54	15
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 19-31	34.6	4.1	.8	2.66	69
April	1,788.4	148	4.1	59.6	3,550
May	4,640	177	44	156	9,600
June	5,105	196	142	170	10,130
July	5,831	201	166	188	11,570
August	5,729	198	156	185	11,360
September	4,701	183	122	157	9,320
Water year	-	-	-	-	-

† Field estimate.
a No gage-height record; discharge interpolated or computed on basis of data furnished by observer, partial gage-height record, and gate changes.
f Discharge computed from partly estimated gage height.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Extremes.- Maximum discharge observed during year, 450 second-feet Apr. 11, 12, 14; maximum gage height observed, 3.52 feet Apr. 12; minimum discharge observed, 2.3 second-feet Aug. 24, 25 (gage height, 1.04 feet).

1911-13, 1920, 1937-42: Maximum discharge, 1,540 second-feet Mar. 27, 1940 (gage height, 5.45 feet from high-water mark), 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 fair. Gage read twice daily. One diversion above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.1	6.3	7.5		41	25	220	149	91	16	6.6	3.4
2	5.1	6.0	14		47	25	228	138	90	16	6.3	3.4
3	5.1	5.7	20		52	27	198	131	86	15	5.7	3.0
4	6.3	11	12		153	27	220	138	86	16	5.7	3.4
5	6.9	7.5	12		64	28	231	120	83	16	5.1	3.0
6	6.3	6.6	12		57	26	278	115	80	16	5.1	3.0
7	6.3	6.0	12	b22	50	27	290	117	80	16	5.1	3.0
8	6.9	6.3	14		50	41	266	120	74	14	5.1	3.0
9	6.3	6.3	*12		44	41	316	140	74	14	4.8	3.0
10	6.3	6.3	11		38	64	358	162	66	14	4.3	4.3
11	6.3	*6.3	9.9		38	101	387	153	58	14	3.8	4.3
12	6.3	6.3	9.5		39	110	418	122	56	13	3.6	3.6
13	6.3	6.3	9.1	22	40	101	372	124	53	11	3.6	3.6
14	6.3	7.2	14	b20	36	78	402	107	48	10	3.8	3.6
15	6.3	10	37	b20	38	70	344	127	55	12	3.6	3.6
16	6.0	14	64	b20	b25	72	303	131	47	13	3.6	3.4
17	6.0	8.3	44	22	*b15	77	303	126	41	12	3.4	3.4
18	5.4	7.5	30	22	b16	65	266	120	39	12	3.2	3.4
19	5.4	6.3	182	20	b17	62	254	120	39	12	3.2	3.4
20	6.0	b4.8	188	b20	b25	*62	266	115	34	12	3.0	3.4
21	6.0	5.1	94	b20	b35	83	290	115	34	11	2.7	3.4
22	6.0	b4.5	57	b20	*b34	77	303	117	26	11	2.5	3.2
23	5.4	b4.5	47	b20	b32	68	231	147	24	9.9	2.5	3.0
24	5.4	6.3	38	20	b28	66	209	153	21	9.5	2.3	3.0
25	5.4	6.9	26	25	b25	60	198	153	22	8.7	2.3	3.0
26	6.0	9.1	b23	*28	b25	71	157	124	25	7.9	2.7	3.0
27	5.4	5.4	b20	120	b27	90	157	108	25	7.2	4.1	3.0
28	9.1	5.7	b40	*82	27	108	149	111	22	7.2	5.7	3.0
29	9.5	5.7	34	62	-	151	145	106	20	7.2	5.1	3.0
30	6.3	8.7	27	50	-	166	135	101	17	6.6	4.5	3.0
31	6.9	-	25	46	-	181	-	89	-	6.3	4.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	192.3	9.5	5.1	6.20	381
November	206.9	14	4.5	6.90	410
December	1,145.0	188	7.5	36.9	2,270
Calendar year 1941	16,690.6	290	4.5	45.7	33,110
January	923	120	-	29.8	1,830
February	1,118	153	15	39.9	2,220
March	2,250	181	25	72.6	4,460
April	7,894	418	135	263	15,660
May	3,699	162	89	126	7,730
June	1,516	91	17	50.5	3,010
July	366.5	16	6.3	11.8	727
August	127.3	6.6	2.3	4.11	252
September	98.8	4.3	3.0	3.29	196
Water year 1941-42	19,736.8	418	2.3	54.1	39,150

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Unity Reservoir near Unity, Oreg.

Location.- Reference mark, lat. 44°30', long. 118°11', in SW¼ 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 4½ miles north of Unity. Elevation of reference mark is 3,828.0 feet above mean sea level, datum of Bureau of Reclamation.

Drainage area.- 309 square miles.

Records available.- March 1938 to September 1942.

Extremes.- Maximum contents observed during year, 25,770 acre-feet Apr. 13 (elevation, 3,820.6 feet); minimum observed, 7,228 acre-feet Sept. 30 (elevation, 3,796.1 feet).
1938-42: Maximum contents observed, that of Apr. 13, 1942; minimum observed, 2,710 acre-feet Oct. 5, 1938 (elevation, 3,787.0 feet).

Remarks.- Reservoir is formed by earth-fill dam, 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 feet (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. Water-surface elevation measured or estimated once daily by employee of Burnt River Irrigation District. Monthly contents computed from capacity table based on surveys by Bureau of Reclamation. Records fair.

Monthly elevation and contents, water year October 1941 to September 1942

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	3,806.1	13,750	-
Oct. 31	3,802.6	11,300	-2,450
Nov. 30	3,802.7	11,370	+70
Dec. 31	3,803.0	11,570	+200
Calendar year 1941	-	-	+670
Jan. 31	3,802.9	11,500	-70
Feb. 28	3,802.9	11,500	0
Mar. 31	3,807.1	14,480	+2,980
Apr. 30	3,819.0	24,310	+9,830
May 31	3,820.0	25,220	+910
June 30	3,816.4	21,990	-3,230
July 31	3,808.9	15,840	-6,150
Aug. 31	3,802.1	10,970	-4,870
Sept. 30	3,796.1	7,228	-3,742
Water year 1941-42	-	-	-6,522

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

Burnt River near Hereford, Oreg.

Location.- Water-stage recorder and concrete weir with steel crest, lat. 44°30', long. 118°11', in SE¼ 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 1942.
Average discharge.- 13 years (1929-42), 64.3 second-feet.
Extremes.- Maximum discharge during year, 795 second-feet Apr. 14, 15 (gage height, 4.4 feet, from floodmark); practically no flow Nov. 4, 5.
1915-16, 1928-42: Maximum discharge, 1,510 second-feet Apr. 14, 1936 (gage height, 6.91 feet); minimum before construction of Unity Reservoir Dam, 1.6 second-feet Aug. 31, 1935 (gage height, 0.92 foot).
Remarks.- Records good except those for Apr. 11-17, which are poor. Many small diversions above station for irrigation. Some regulation from reservoir (capacity, about 700 acre-feet) on South Fork, 3 miles above mouth, and by Unity Reservoir (see preceding page.)

Rating tables, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Mar. 21 to Apr. 4)

Oct. 1 to Apr. 15						Apr. 18 to Sept. 30					
0.0	0	1.0	72	2.3	267	0.0	0	1.0	74	2.3	282
.1	3.0	1.2	95	2.6	325	.1	3.0	1.2	99	2.6	347
.2	7.0	1.4	119	3.0	408	.2	7.0	1.4	126	3.0	438
.4	18	1.6	146	3.5	522	.4	18	1.6	155	3.5	558
.6	34	1.8	177	4.0	660	.6	33	1.8	187	3.7	615
.8	51	2.0	212	4.4	795	.8	52	2.0	222		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	64	57	68	59	55	139	282	158	104	115	79
2	54	70	60	66	55	55	156	280	155	103	111	74
3	53	30	79	66	56	55	172	230	149	103	108	74
4	53	0	84	66	56	55	186	96	143	103	104	74
5	65	.3	62	66	56	56	198	158	130	102	100	75
6	70	1.5	61	66	56	56	208	245	112	100	98	75
7	69	1.8	65	66	56	56	217	241	103	99	94	80
8	68	2.1	65	66	56	56	230	239	99	99	98	84
9	71	11	65	65	57	57	239	239	99	98	96	84
10	71	27	65	65	57	58	353	237	98	96	104	82
11	70	30	65	65	57	58	a450	235	94	95	104	84
12	70	32	65	65	57	58	a550	235	92	103	95	82
13	70	32	65	65	57	58	a740	235	108	108	104	82
14	68	37	65	65	56	62	a780	166	96	107	99	81
15	74	45	65	65	56	68	a795	183	95	106	64	81
16	75	51	65	65	56	74	a745	206	119	118	73	81
17	72	54	65	a65	56	120	a670	204	123	122	71	81
18	70	54	65	a65	56	140	615	167	116	120	68	81
19	73	52	65	a65	56	139	355	137	115	119	68	80
20	74	49	65	a65	56	138	350	132	116	118	73	80
21	71	47	65	a65	56	148	461	129	115	116	78	79
22	68	45	65	a65	56	140	454	122	113	115	79	79
23	66	50	65	a65	56	138	274	119	112	113	79	80
24	68	51	68	65	56	138	396	146	111	120	79	80
25	65	59	69	65	56	138	380	161	109	123	79	80
26	68	60	69	65	55	135	332	176	108	120	78	80
27	65	55	69	65	55	133	340	166	107	118	56	79
28	70	52	69	65	55	132	338	166	107	113	90	76
29	71	56	69	65	-	114	334	161	107	120	84	76
30	66	59	69	65	-	107	301	160	106	123	85	75
31	65	-	69	64	-	123	-	158	-	119	64	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-fest
October	2,088	75	53	67.4	4,140
November	1,177.7	70	0	39.3	2,340
December	2,059	84	57	66.4	4,080
Calendar year 1941	30,851.0	319	0	84.5	61,210
January	2,024	68	64	65.3	4,010
February	1,572	59	55	56.1	3,120
March	2,920	148	55	94.2	5,790
April	11,758	795	139	392	23,320
May	5,811	282	96	187	11,530
June	3,415	158	92	114	6,770
July	3,423	123	95	110	6,790
August	2,740	115	56	88.4	5,430
September	2,378	84	74	79.3	4,720
Water year 1941-42	41,365.7	795	0	113	82,040

a No gage-height record; discharge interpolated or computed on basis of records for Unity Reservoir near Unity and Powder River at Salisbury.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

Powder River at Salisbury, Oreg.

Location.- Water-stage recorder, lat. 44°39', long. 117°52', in NE¼ sec. 36, T. 10 S., R. 39 E., 700 feet downstream from Stices Gulch and Salisbury siding of Sumpter Valley Railroad 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 1942 in reports of Geological Survey. January 1904 to July 1914 and June 1926 to September 1936 in reports of State engineer.

Average discharge.- 24 years (1904-13, 1926-28, 1929-42), 109 second-feet.

Extremes.- Maximum discharge during year, 772 second-feet Apr. 14 (gage height, 4.93 feet); minimum, 9.3 second-feet Sept. 24-26, 30 (gage height, 1.25 feet).
1903-14, 1926-42: Maximum discharge, 1,820 second-feet Mar. 20, 1910 (gage height, 7.05 feet, site and datum then in use); no flow Aug. 31, 1909, Sept. 7, 1931.

Remarks.- Records good except those for periods Dec. 5-7, Apr. 22-25, and May 26 to June 1, which are fair, and for period Jan. 4 to Mar. 10, which are poor. Diversions above station for irrigation.

Rating tables, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Nov. 17 to Dec. 2, Sept. 2-30)

Oct. 1 to Jan. 14				Jan. 15 to Sept. 30							
1.5	27	2.0	89	1.3	13	1.6	38	2.2	133	3.4	420
1.6	36	2.3	140	1.4	19	1.8	65	2.5	193	4.0	540
1.8	60	2.6	199	1.5	27	2.0	98	3.0	303	4.5	740

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	37	43	47	95	51	497	301	360	142	29	12
2	28	36	77	47	100	51	552	273	344	137	27	12
3	28	42	175	56	110	51	562	285	338	128	27	12
4	26	52	191	b54	120	53	572	292	338	112	25	12
5	26	48	165	b53	115	58	602	278	319	105	25	11
6	26	48	140	b55	105	56	572	269	333	100	20	11
7	28	45	120	b62	95	56	558	269	360	95	20	11
8	32	46	103	b76	90	70	570	278	365	86	22	11
9	29	43	94	b78	90	90	588	324	358	78	22	12
10	29	42	97	b70	83	120	615	408	326	70	20	12
11	28	40	83	b72	78	154	650	391	303	78	17	11
12	29	38	92	b80	b72	176	740	365	271	67	15	11
13	30	39	92	b86	b68	174	758	335	247	68	16	11
14	29	45	99	b96	b72	168	760	324	245	68	16	11
15	25	76	94	103	b76	162	700	344	262	61	17	11
16	29	78	127	148	b68	158	570	324	258	65	14	11
17	29	71	122	131	b64	152	555	305	225	62	15	11
18	28	61	115	100	b58	137	504	292	212	58	15	11
19	31	57	153	84	b54	131	468	280	204	57	13	11
20	31	57	151	75	b54	124	463	296	187	50	12	11
21	30	52	135	b70	b58	135	518	360	172	46	14	11
22	30	40	127	b80	b62	142	520	499	160	47	13	10
23	29	38	124	86	b62	150	480	578	150	43	12	10
24	28	37	107	95	b60	139	450	578	146	38	12	9.3
25	28	40	102	88	56	129	410	558	131	39	13	9.3
26	29	45	88	83	52	126	356	560	170	39	14	9.3
27	31	42	63	130	52	154	321	500	180	36	15	9.8
28	42	40	83	135	51	176	342	460	176	35	15	9.8
29	39	42	95	120	-	214	335	420	170	30	14	9.8
30	37	43	102	105	-	280	317	420	156	30	13	9.3
31	37	-	92	100	-	342	-	380	-	30	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	926	42	25	29.9	1,840
November	1,420	78	36	47.3	2,820
December	3,451	191	43	111	6,840
Calendar year 1941	50,859	682	21	139	100,900
January	2,665	148	47	86.0	5,290
February	2,120	120	51	75.7	4,200
March	4,179	342	51	135	8,290
April	15,905	760	317	530	31,550
May	11,546	578	269	372	22,900
June	7,466	365	131	249	14,810
July	2,098	142	30	67.7	4,160
August	534	29	12	17.2	1,060
September	323.6	12	9.3	10.8	642
Water year 1941-42	52,633.6	760	9.3	144	104,400

b Stage-discharge relation affected by ice.

Note.- No gage-height record Dec. 5-7, Jan. 27 to Feb. 9, Feb. 25 to Mar. 10, Apr. 22-25, May 26 to June 1, Aug. 13, 14; discharge computed on basis of weather records, notes by observer and watermaster, and records for station near Robinette and other stations.

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

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Powder River near Robinette, Oreg.

Location.- Staff gage, lat. 44°46', long. 117°04', in SE¼ sec. 22, T. 9 S., R. 46 E., downstream from all tributaries, 2 miles northwest of Robinette, and 2½ miles upstream from mouth.

Drainage area.- 1,710 square miles.

Records available.- September 1928 to September 1942.

Average discharge.- 14 years, 443 second-feet.

Extremes.- Maximum discharge observed during year, 2,820 second-feet May 27 (gage height, 4.92 feet); minimum observed, 97 second-feet Aug. 17, Sept. 8 (gage height, 0.88 foot).
1928-42: 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 or doubtful gage-height record, 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 1941-42, except period of ice effect (gage height, in feet, and discharge, in second-feet)

0.9	101	2.2	580	4.0	1,900
1.1	147	2.6	810	4.5	2,400
1.4	235	3.0	1,070	5.0	2,900
1.8	390	3.5	1,450		

Discharge, in second-feet, wster yesr October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	177	326	362	466	858	370	1,040	1,340	2,090	1,360	177	d126
2	163	322	430	b350	1,000	358	1,140	1,350	2,000	1,330	209	d120
3	166	314	668	b400	1,130	366	1,220	1,280	1,860	1,320	194	114
4	188	378	608	b350	1,390	382	1,330	1,180	1,800	1,240	177	112
5	216	354	540	b290	1,240	453	1,430	1,100	1,910	1,190	177	112
6	206	342	608	b310	1,160	d420	1,520	1,220	2,010	1,120	160	108
7	213	334	810	b350	1,050	d420	1,730	1,390	2,090	916	145	105
8	235	326	864	b400	994	d450	1,860	1,490	1,960	864	150	101
9	232	326	858	b410	1,040	480	1,900	1,600	1,860	768	145	d104
10	229	334	876	b390	1,020	510	1,950	1,730	1,770	679	158	d135
11	229	318	828	b370	948	525	2,200	1,690	1,670	613	145	d126
12	225	338	780	b350	858	530	2,550	1,550	1,540	550	140	d122
13	229	358	684	334	810	750	2,650	1,470	1,440	462	140	d119
14	222	440	702	346	804	1,040	2,750	1,480	1,310	404	140	d120
15	216	471	738	350	810	1,100	2,650	1,390	1,200	386	119	d122
16	216	520	816	346	679	968	2,570	1,550	1,200	386	108	125
17	209	565	902	362	591	896	2,740	1,480	1,180	366	101	d125
18	209	596	974	358	505	822	2,600	1,390	1,170	330	105	126
19	216	591	896	354	d450	774	2,420	1,480	1,080	310	110	123
20	219	575	876	318	500	762	2,500	1,620	1,010	274	112	d122
21	229	570	902	278	d580	792	2,530	1,960	954	256	105	121
22	242	545	909	270	d580	804	2,570	2,180	935	229	105	d120
23	249	515	896	342	d500	786	2,590	2,350	902	216	121	d119
24	260	476	864	382	440	738	2,520	2,480	822	200	145	d118
25	260	444	828	500	d420	756	2,460	2,600	948	197	135	119
26	282	426	774	602	d410	708	2,160	2,690	980	191	137	112
27	286	338	657	935	394	732	1,940	2,780	1,090	177	d145	119
28	318	322	726	1,180	366	768	1,770	2,660	1,410	160	d160	116
29	330	338	732	1,040	-	d830	1,590	2,510	1,250	147	d150	108
30	318	370	696	948	-	d900	1,430	2,420	1,250	150	d140	125
31	322	-	596	909	-	d970	-	2,270	-	160	d133	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,311	330	163	236	14,500
November	12,472	596	314	416	24,740
December	23,400	974	362	755	46,410
Calendar year 1941	276,031	2,230	103	756	547,500
January	14,590	1,180	270	471	28,940
February	21,527	1,390	366	769	42,700
March	21,160	1,100	368	683	41,970
April	62,310	2,750	1,040	2,077	123,600
May	55,680	2,780	1,100	1,796	110,400
June	42,691	2,090	822	1,423	84,680
July	16,951	1,360	147	547	33,620
August	4,388	209	101	142	8,700
September	3,543	135	101	118	7,030
Water year 1941-42	286,023	2,780	101	784	567,300

b Stage-discharge relation affected by ice.
d Doubtful gage-height record; discharge computed on basis of records for stations at Salisbury and Imnaha River at Imnaha.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

Imnaha River at Imnaha, Oreg.

Location.- Water-stage recorder, lat. 45°34', long. 116°51', in SW¼ 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 1942.

Average discharge.- 14 years, 426 second-feet.

Extremes.- Maximum discharge during year, 5,400 second-feet May 23 (gage height, 6.70 feet), from rating curve extended above 1,800 second-feet; minimum, 123 second-feet Sept. 28, 29.

1928-42: Maximum discharge, that of May 23, 1942; minimum, 35 second-feet Jan. 26, 1936, Jan. 8, 1937.

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

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	167	170	261	380	510	266	847	958	1,840	1,400	362	162
2	179	167	446	505	485	270	916	916	1,770	1,460	300	159
3	167	173	2,140	569	480	259	1,020	916	1,670	1,480	279	156
4	196	216	1,340	b420	475	248	1,120	1,050	1,650	1,460	265	153
5	196	199	965	b305	460	259	1,480	1,170	1,600	1,450	272	146
6	189	196	810	b320	450	259	1,450	1,420	1,620	1,360	259	140
7	182	189	702	b400	435	256	1,450	1,510	1,820	1,250	246	140
8	196	185	635	b475	425	270	1,450	1,520	1,800	1,140	243	146
9	185	189	586	455	425	276	1,550	1,600	1,750	1,020	239	146
10	179	185	558	420	398	308	1,840	1,850	1,730	928	227	195
11	176	179	500	376	402	347	2,040	1,770	1,550	892	221	178
12	176	179	485	344	389	391	2,360	1,760	1,360	794	212	164
13	189	185	465	331	376	410	2,450	1,650	1,360	728	209	156
14	176	277	470	297	353	405	2,520	1,600	1,360	673	203	156
15	173	310	485	277	389	382	2,240	1,730	1,450	643	197	153
16	170	455	726	371	371	391	1,910	1,800	1,390	637	192	151
17	167	394	936	358	297	368	1,990	1,740	1,260	590	189	153
18	164	358	859	322	266	355	1,780	1,620	1,290	551	186	156
19	164	335	873	301	256	347	1,650	1,550	1,180	507	183	151
20	167	285	1,650	293	304	327	1,710	1,570	1,080	475	172	148
21	164	306	1,480	269	323	327	1,970	1,760	1,050	450	170	143
22	161	281	1,200	322	323	327	2,250	2,300	1,060	430	170	140
23	161	238	1,060	366	287	327	1,910	3,150	1,140	420	170	138
24	158	273	901	344	304	319	1,590	2,300	1,150	475	170	138
25	158	301	798	366	298	312	1,410	2,350	1,220	534	164	136
26	155	269	679	362	270	312	1,240	2,480	1,320	465	162	133
27	155	253	574	445	280	304	1,120	2,310	1,200	376	164	130
28	173	249	674	558	273	319	1,070	2,070	1,120	340	175	128
29	206	246	624	569	-	364	986	1,930	1,180	324	178	126
30	173	261	580	542	-	475	923	1,940	1,280	320	172	130
31	170	-	525	525	-	664	-	1,890	-	344	167	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,392	206	155	174	10,690
November	7,503	455	167	250	14,880
December	24,987	2,140	261	806	49,560
Calendar year 1941	213,021	2,620	155	584	422,500
January	12,187	569	269	393	24,170
February	10,304	510	256	368	20,440
March	10,444	664	246	337	20,720
April	48,242	2,520	647	1,608	95,690
May	54,180	3,150	916	1,748	107,500
June	42,250	1,840	1,050	1,408	83,800
July	23,916	1,480	320	771	47,440
August	6,518	362	162	210	12,930
September	4,451	195	126	148	8,830
Water year 1941-42	250,374	3,150	126	686	496,600

b Stage-discharge relation affected by ice.

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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 1942.

Extremes.- Maximum discharge during year, 475 second-feet May 26; maximum gage height not determined, probably occurred during period of ice effect; minimum discharge, 2 second-feet Sept. 7-11.

1940-42: Maximum discharge, that of May 26, 1942; maximum gage height recorded, 4.74 feet (ice jam) sometime between Dec. 5, 1940, and Jan. 23, 1941; minimum discharge, that of Sept. 7-11, 1942.

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

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	31	30					89	189	220	22	3
2	a36		49					80	191	229	20	3
3	a36		172					76	215	238	20	3
4	a36		52					75	229	235	18	3
5	37		38					69	244	226	14	3
6	35							74	273	218	10	3
7	35							78	349	201	5	2
8	34							86	365	172	5	2
9	31							101	369	148	5	2
10	31						a35	107	338	130	4	2
11	31					e25		98	293	112	4	2
12	31					(*)		98	263	106	4	4
13	31							92	247	95	4	13
14	31							90	244	86	4	20
15	31	a35						95	276	82	4	26
16	30			e25	e25			92	256	77	4	26
17	30							89	232	71	4	26
18	27							90	241	61	4	26
19	27		e35					90	229	52	4	26
20	32						96	126	104	212	47	4	25
21	32						179	128	196	44	4	24
22	31						196	191	196	42	4	19
23	31						148	293	210	38	4	15
24	31						132	290	223	30	4	13
25	31						128	365	232	27	4	13
26	31					a20	110	416	218	25	3	12
27	31						93	334	204	24	3	12
28	31	*30		(*)			96	279	191	24	3	13
29	31	30			-		95	244	201	23	3	13
30	31	30			-		89	223	212	22	3	13
31	31	-			-		-	201	-	23	3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	990	37	27	31.9	1,960
November	1,031	-	-	34.4	2,040
December	1,251	172	-	40.4	2,480
Calendar year 1941	20,569	344	4	56.4	40,790
January	775	-	-	25	1,540
February	700	-	-	25	1,390
March	720	-	-	23.2	1,430
April	2,118	196	-	70.6	4,200
May	4,739	416	69	153	9,400
June	7,338	369	189	245	14,550
July	3,128	238	22	101	6,200
August	201	22	3	6.5	399
September	367	26	2	12.2	728
Water year 1941-42	23,358	416	2	64.0	46,320

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated or computed on basis of weather records and records for station below Valley Creek, at Stanley, Alturas Lake Creek near Obsidian, and Valley Creek at Stanley.

e Fragmentary or no gage-height record, or stage-discharge relation affected by ice; discharge computed on basis of two discharge measurements, weather records, and records for nearby streams.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 SE¼SE¼ sec. 34, T. 11 N., R. 13 E., three-quarters of a mile downstream from Valley Creek and 1¼ miles northeast of Stanley. Datum of gage is 6,190.32 feet mean sea level, datum of 1929.

Drainage area.- 535 square miles.

Records available.- July 1925 to September 1942.

Average discharge.- 17 years, 566 second-feet.

Extremes.- Maximum discharge during year, 2,720 second-feet June 9 (gage height, 3.23 feet); minimum recorded, 254 second-feet Sept. 6 (gage height, 0.94 foot).
1925-42: 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.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	363	358	416		a370		318	902	1,440	1,550	429	277
2	390	353	764		a370	a330	318	836	1,380	1,670	423	272
3	377	377	2,050	a300	a370		341	791	1,420	1,670	416	272
4	416	525	1,070		a380	h335	370	773	1,500	1,730	403	267
5	423	436	800		a380		383	738	1,610	1,730	390	262
6	403	410	721		a380		383	730	1,730	1,670	383	258
7	396	377	654		a370	a320	423	764	2,050	1,610	364	258
8	390	377	654	a330	a370		472	818	2,330	1,500	353	258
9	383	390	613		a360		541	883	2,640	1,400	347	258
10	383	370	613		a350		621	930	2,560	1,310	341	267
11	377	370	573		a360	h335	676	864	2,260	1,220	341	267
12	377	377	509		a350	a320	960	864	2,050	1,140	329	272
13	370	390	509	a390		*312	1,120	836	1,920	1,070	318	272
14	364	678	549			297	1,240	827	1,850	1,000	312	287
15	364	1,040	557			292	1,020	950	1,980	980	312	292
16	364	827	581		a330	297	1,020	883	2,050	921	307	292
17	358	712	557			302	1,060	818	1,850	864	302	292
18	358	630	557			307	960	800	1,790	818	302	297
19	358	557	581			302	1,020	809	1,730	764	297	297
20	364	494	670			287	1,160	845	1,610	721	287	297
21	358	494	630	a380	h347	297	1,290	950	1,500	678	277	287
22	353	451	549			297	1,370	1,020	1,440	646	277	282
23	353	416	533		a330	302	1,190	1,550	1,440	621	277	287
24	353	436	525			292	1,090	1,790	1,500	589	267	282
25	353	451	487		h324	297	1,080	2,190	1,610	557	267	282
26	353	436	429			292	980	2,640	1,670	533	267	277
27	353	416	a400		a330	297	930	2,400	1,550	509	267	277
28	358	*423	a430	396		307	912	2,120	1,500	494	287	282
29	358	416	a480	*383	-	302	940	1,920	1,440	480	292	282
30	347	416	a480	341	-	307	902	1,790	1,500	465	292	282
31	347	-	a400	383	-	307	-	1,550	-	443	287	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	11,484	423	347	370	0.692	0.80	22,780
November	14,403	1,040	353	480	.897	1.00	28,570
December	19,341	2,050	400	624	1.17	1.34	38,360
Calendar year 1941	210,515	2,240	270	577	1.08	14.63	417,600
January	11,163	-	-	360	.673	.78	22,140
February	9,701	380	-	346	.647	.67	19,240
March	9,593	-	-	309	.578	.67	19,030
April	25,132	1,370	316	838	1.57	1.75	49,850
May	36,581	2,640	730	1,180	2.21	2.54	72,560
June	52,900	2,640	1,380	1,763	3.30	3.68	104,900
July	31,353	1,730	443	1,011	1.89	2.16	62,190
August	10,013	429	267	323	.604	.70	19,860
September	8,334	297	258	278	.520	.58	16,530
Water year 1941-42	239,998	2,640	-	658	1.23	16.69	476,000

* Winter discharge measurement made on this day.
a No gage-height record, or stage-discharge relation affected by ice; discharge computed on basis of weather records and records for other stations on Salmon River.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 19 years (1922-24, 1925-42), 832 second-feet.

Extremes.- Maximum discharge during year, 5,570 second-feet May 26 (gage height, 8.14 feet); minimum, 313 second-feet Mar. 20 (gage height, 2.00 feet).
1921-42: Maximum discharge, 8,000 second-feet (estimated) June 1927; minimum, 160 second-feet (estimated) Nov. 25-30, 1929.

Remarks.- Records good. No diversions above station for irrigation except those above Stanley.

Rating table, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 10 to May 25)

2.0	313	4.0	1,440	6.0	3,070
2.4	492	4.4	1,720	6.5	3,570
2.8	694	4.8	2,040	7.0	4,100
3.2	920	5.2	2,360	7.5	4,720
3.6	1,170	5.6	2,710	8.0	5,420

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	473	430	521		439	385	468	1,340	2,530	2,360	637	439
2	492	426	781		421	376	458	1,240	2,530	2,440	627	430
3	466	439	2,710	b350	435	380	507	1,170	2,710	2,440	611	421
4	507	606	1,480		435	363	571	1,140	3,070	2,440	596	421
5	536	526	1,040		439	385	591	1,070	3,270	2,360	576	416
6	502	492	860		435	376	576	1,070	3,570	2,280	566	416
7	482	444	832		416	350	627	1,140	4,100	2,200	546	416
8	473	444	770	a400	430	372	710	1,270	4,590	2,080	531	412
9	463	473	743		430	389	860	1,460	4,850	1,920	521	412
10	463	454	754	492	372	394	1,070	1,620	4,590	1,760	512	435
11	458	444	678	473	b400	398	1,200	1,460	3,880	1,650	507	426
12	454	454	596	463	b400	394	1,650	1,440	3,470	1,510	502	416
13	444	463	652	444	376	*389	2,000	1,340	3,270	1,400	487	416
14	435	759	678	b420	376	385	2,200	1,300	3,270	1,340	478	426
15	439	1,300	673	b420	407	363	1,760	1,440	3,370	1,300	478	435
16	439	1,040	699	b450	403	363	1,650	1,370	3,370	1,240	468	426
17	435	890	673	b450	b360	367	1,720	1,270	3,070	1,170	458	430
18	430	776	663	b430	b360	389	1,560	1,240	2,890	1,070	454	444
19	430	647	678	b400	b370	358	1,650	1,270	2,800	1,040	439	439
20	444	541	792	b400	403	350	1,960	1,400	2,620	980	439	439
21	439	581	754	b400	412	367	2,360	1,720	2,360	950	439	426
22	435	551	622	b420	394	376	2,620	2,360	2,260	890	430	416
23	430	478	637	444	372	385	2,200	3,270	2,360	860	430	416
24	426	536	616	435	385	358	1,920	3,670	2,440	832	430	412
25	426	571	576	439	380	358	1,800	4,590	2,530	786	426	407
26	426	546	497	435	367	346	1,580	5,420	2,530	759	426	398
27	421	*507	430	449	385	350	1,480	4,590	2,360	732	430	398
28	435	521	478	449	372	367	1,440	3,770	2,200	716	463	398
29	435	516	556	439	-	376	1,440	3,270	2,160	699	463	398
30	416	521	b510	385	-	403	1,370	3,070	2,200	676	463	403
31	416	-	b470	*430	-	435	-	2,800	-	663	454	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	13,972	536	416	451	0.536	0.62	27,710
November	17,376	1,300	426	579	.688	.77	34,460
December	23,419	2,710	430	755	.898	1.04	46,450
Calendar year 1941	290,049	3,270	325	795	.945	12.83	575,200
January	12,917	492	-	417	.496	.57	25,620
February	11,174	439	360	399	.474	.49	22,160
March	11,647	435	346	376	.447	.52	23,100
April	42,018	2,620	458	1,401	1.67	1.86	83,340
May	64,620	5,420	1,070	2,085	2.48	2.86	128,200
June	91,240	4,850	2,160	3,041	3.62	4.03	181,000
July	43,545	2,440	663	1,405	1.67	1.93	86,370
August	15,287	637	426	493	.586	.68	30,320
September	12,587	444	396	420	.499	.56	24,970
Water year 1941-42	359,802	5,420	-	986	1.17	15.93	713,700

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for station at Salmon and weather records.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Average discharge.- 14 years, 1,200 second-feet.

Extremes.- Maximum discharge during year, 9,090 second-feet May 26 (gage height, 7.61 feet); minimum recorded, 471 second-feet Feb. 14 (gage height, 1.74 feet).
1928-42: Maximum discharge, 9,790 second-feet June 2, 1936 (gage height, 7.83 feet); minimum, 160 second-feet Dec. 14, 1940.

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

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	742	673	753		710		798	1,770	3,970	3,710	1,140	726
2	775	673	759		662		798	1,720	3,800	3,970	1,100	715
3	764	668	3,020		694	b600	849	1,580	4,060	4,150	1,060	699
4	764	809	2,200	b500	699		969	1,540	4,920	4,340	1,030	694
5	820	820	1,450		694		969	1,500	5,140	4,240	1,000	669
6	809	764	1,170		689		938	1,450	5,580	4,150	1,000	689
7	781	710	1,100		662		1,000	1,540	6,610	4,060	969	678
8	764	684	1,030	a650	668	a600	1,060	1,680	7,570	3,800	938	673
9	742	710	969		684		1,250	1,920	7,820	3,460	908	668
10	742	699	1,030		595		1,540	2,200	7,330	3,140	878	705
11	737	684	936		615	*631	1,720	2,080	6,260	3,000	878	694
12	732	689	849		652	626	2,030	1,980	5,350	2,780	878	689
13	726	699	908		575	605	2,580	1,870	5,030	2,580	849	684
14	710	803	969		545	580	3,000	1,820	5,030	2,380	849	684
15	705	1,500	969		595	555	2,440	1,870	5,140	2,260	820	669
16	705	1,450	969		631	536	2,200	1,920	5,240	2,140	814	689
17	699	1,250	969		621	545	2,320	1,770	4,720	2,080	803	689
18	689	1,100	938			570	2,140	1,680	4,340	1,980	798	705
19	689	938	938	a750		555	2,080	1,720	4,340	1,870	770	715
20	705	770	1,030			517	2,380	1,820	3,970	1,770	759	715
21	705	753	1,060			545	3,070	2,260	3,620	1,680	759	710
22	694	781	878			585	3,710	3,140	3,460	1,580	742	689
23	684	652	878		b620	600	3,070	5,140	3,460	1,540	732	684
24	678	726	908			580	2,640	5,690	3,800	1,500	726	678
25	678	809	849			560	2,440	7,090	3,880	1,450	726	673
26	678	814	742			541	2,200	8,830	3,970	1,360	721	668
27	673	*753	580	742		545	2,030	7,090	3,710	1,320	721	657
28	678	748	631	742		590	1,920	5,690	3,460	1,280	753	652
29	689	753	732	715	-	631	1,920	5,030	3,300	1,250	759	647
30	673	748	809	636	-	673	1,820	4,720	3,460	1,210	759	652
31	662	-	759	*647	-	737	-	4,340	-	1,170	737	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	22,282	820	652	719	0.413	0.48	44,200
November	24,630	1,500	652	821	.472	.53	48,850
December	31,784	3,020	580	1,025	.589	.68	63,040
Calendar year 1941	433,929	5,140	407	1,189	.683	9.28	860,700
January	21,082	-	-	680	.391	.45	41,820
February	17,811	710	-	636	.366	.38	35,330
March	18,307	737	-	591	.340	.39	36,310
April	57,881	3,710	798	1,929	1.11	1.24	114,800
May	94,450	8,830	1,450	3,047	1.75	2.02	187,300
June	142,340	7,820	3,300	4,745	2.73	3.04	282,300
July	77,200	4,340	1,170	2,490	1.43	1.65	153,100
August	26,376	1,140	721	851	.489	.56	52,320
September	20,599	726	647	687	.395	.44	40,860
Water year 1941-42	554,742	8,830	-	1,520	.874	11.86	1,100,000

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for other stations on Salmon River.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.
Average discharge.- 25 years (1913-16, 1920-42), 1,733 second-feet.
Extremes.- Maximum discharge during year, 10,600 second-feet June 9; maximum gage height recorded, 9.62 feet Jan. 8 (ice jam); minimum discharge recorded, 690 second-feet Jan. 6 (gage height, 2.40 feet).
1912-16, 1919-42: 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 except those for periods of ice effect or doubtful gage-height record, which are fair. Diversions above station for irrigation.

Rating tables, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used June 7-20)

Oct. 1 to June 10				June 11 to Sept. 30			
2.4	690	4.6	4,150	2.7	850	4.6	3,870
2.7	980	5.0	5,100	3.0	1,150	5.0	4,730
3.0	1,330	5.5	6,440	3.4	1,690	5.5	5,960
3.4	1,890	6.0	7,840	3.8	2,320	6.0	7,280
3.8	2,550	6.7	9,980	4.2	3,060	6.5	8,680
4.2	3,300						

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,160	1,120	1,200	1,140			1,450	2,460	5,880	4,800	1,450	950
2	1,180	1,140	1,200	866			1,590	2,380	5,480	5,000	1,400	940
3	1,190	1,140	1,720	818			1,520	2,300	5,610	5,400	1,390	922
4	1,240	1,150	3,710	866			1,760	2,210	6,160	5,600	1,350	913
5	1,340	1,290	2,460	790			2,050	2,130	6,720	5,400	1,300	922
6	1,410	1,280	1,920	753			1,730	2,050	7,280	5,300	1,270	913
7	1,370	1,200	1,730	a780		a1,100	1,840	2,030	7,840	5,200	1,260	913
8	1,330	1,160	1,670	a1,000			1,860	2,130	9,040	4,900	1,250	904
9	1,290	1,150	1,540				1,940	2,300	9,660	4,400	1,220	895
10	1,260	1,170	1,540				2,300	2,640	9,980	4,000	1,190	913
11	1,230	1,160	1,590				2,640	2,820	8,680	3,800	1,160	931
12	1,230	1,160	1,420				2,820	2,640	7,560	3,500	1,140	931
13	1,200	1,160	1,320				3,300	2,550	7,000	3,300	1,110	931
14	1,190	1,170	1,420			*1,070	3,710	2,460	6,610	3,000	1,070	922
15	1,180	1,360	1,460		a1,100	1,010	3,600	2,460	6,480	2,900	1,050	922
16	1,170	2,020	1,460			980	3,100	2,550	6,740	2,700	1,040	931
17	1,170	1,860	1,490			938	2,910	2,550	6,350	2,600	1,000	940
18	1,160	1,670	1,430			948	3,000	2,380	5,960	2,500	980	940
19	1,160	1,520	1,420			959	2,730	2,300	5,830	2,400	980	960
20	1,160	1,360	1,460	a1,200		938	3,000	2,300	5,700	2,200	960	990
21	1,160	1,230	1,600			896	3,400	2,460	5,300	2,100	960	980
22	1,160	1,260	1,530			948	4,150	3,100	5,000	2,000	950	970
23	1,150	1,260	1,320			1,050	4,260	4,500	5,000	2,000	940	940
24	1,140	1,120	1,370			1,120	3,710	6,300	5,100	1,900	931	931
25	1,140	1,230	1,400			1,070	3,400	7,000	5,200	1,800	922	922
26	1,140	*1,280	1,280			1,010	3,100	9,660	5,200	1,700	922	913
27	1,140	1,260	1,140			980	2,820	9,980	5,000	1,700	922	913
28	1,140	1,220	970			1,010	2,640	8,440	4,700	1,600	950	913
29	1,150	1,220	1,090		-	1,120	2,640	7,280	4,400	1,600	960	913
30	1,150	1,220	1,200		-	1,230	2,550	6,720	4,600	1,500	980	913
31	1,140	-	1,290		-	1,380	-	6,300	-	1,500	970	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	37,230	1,410	1,140	1,201	73,840
November	38,540	2,020	1,120	1,285	76,440
December	47,350	3,710	970	1,527	93,920
Calendar year 1941	573,154	5,480	639	1,570	1,137,000
January	34,613	-	-	1,117	68,650
February	30,800	-	-	1,100	61,090
March	32,957	1,380	-	1,063	65,370
April	81,520	4,260	1,450	2,717	161,700
May	119,380	9,980	2,030	3,851	236,800
June	190,060	9,980	4,400	6,335	377,000
July	98,300	5,600	1,500	3,171	195,000
August	33,977	1,450	922	1,096	67,390
September	27,891	990	895	930	55,320
Water year 1941-42	772,618	9,980	-	2,117	1,533,000

* Winter discharge measurement made on this day.
a No gage-height record, or stage-discharge relation affected by ice; discharge computed on basis of weather records and records for other stations on Salmon River.
Note.- Doubtful gage-height record June 21 to Aug. 1; discharge computed on basis of records for station near Challis.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Average discharge.- 30 years, 10,220 second-feet.

Extremes.- Maximum discharge during year, 59,900 second-feet May 27 (gage height, 27.00 feet); minimum, 3,360 second-feet Feb. 19 (gage height, 11.99 feet).

1910-17, 1919-42: Maximum discharge observed, 88,800 second-feet June 9, 1921 (gage height, 31.2 feet), from rating curve extended above 75,000 second-feet; minimum discharge, 1,580 second-feet Dec. 11, 1932 (gage 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 except those for period of ice effect and those for Apr. 5 to June 30, which are good. Amount of water diverted above station for irrigation is a negligible percentage of total flow.

Rating table, water year 1941-42, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 16 to June 23)

12.1	3,510	15.0	9,290	20.0	26,000	25.0	51,600
12.5	4,170	16.0	11,900	21.0	30,500	26.1	58,100
13.0	5,060	17.0	14,800	22.0	35,400		
13.5	6,020	18.0	18,100	23.0	40,500		
14.0	7,040	19.0	21,900	24.0	46,000		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,790	5,250	6,220	b5,800	5,630	4,520	7,040	16,400	35,900	26,000	7,040	4,700
2	5,060	5,250	6,420	b5,000	5,440	4,520	8,120	16,100	34,400	26,000	6,620	4,520
3	5,250	5,250	10,500	b4,800	5,440	4,700	8,810	15,400	35,400	25,600	6,620	4,430
4	5,630	5,630	17,400	b5,000	5,440	4,700	9,050	15,100	39,500	24,700	6,420	4,340
5	6,220	6,020	17,100	b4,600	5,630	4,700	10,300	14,800	43,700	23,500	6,220	4,170
6	6,420	6,420	13,600	*b4,100	5,440	4,700	12,200	14,500	46,000	22,700	6,220	4,080
7	6,220	6,220	11,600	b4,300	5,440	4,700	12,200	14,500	50,500	21,100	6,020	4,000
8	6,220	5,820	10,500	b4,600	5,440	4,520	11,900	15,100	54,000	20,400	5,820	3,920
9	6,020	5,630	9,530	b5,200	5,440	4,610	12,400	17,100	56,300	18,900	5,820	3,920
10	5,820	5,440	9,050	b5,600	5,250	4,880	13,600	20,000	57,500	17,400	5,630	4,170
11	5,630	5,440	8,810	b6,000	5,060	5,250	16,100	21,100	52,200	16,700	5,440	4,430
12	6,530	5,250	8,580	b6,000	5,060	5,630	20,000	20,700	45,400	15,700	5,250	4,340
13	5,630	5,250	8,120	b6,000	5,060	6,020	24,300	20,000	40,500	14,800	5,250	4,260
14	5,630	5,820	7,900	5,820	4,790	5,820	29,100	19,600	38,900	13,900	5,060	4,170
15	5,440	7,900	8,120	5,630	4,700	5,820	30,500	19,600	38,900	13,000	5,060	4,080
16	5,440	12,200	8,580	5,060	4,700	5,440	26,900	20,000	40,500	12,400	4,970	4,080
17	5,440	12,400	9,290	4,880	4,520	5,250	24,300	19,600	36,400	12,200	4,880	4,000
18	5,440	10,800	9,290	4,880	3,920	5,060	22,700	18,900	35,400	11,600	4,700	4,080
19	5,440	9,530	8,810	5,060	3,510	4,970	21,500	18,100	34,400	11,100	4,610	4,170
20	5,630	8,580	10,800	*5,060	3,670	4,970	21,500	18,500	32,400	10,500	4,520	4,260
21	6,020	7,680	12,200	4,880	4,080	4,790	24,300	20,700	30,500	10,000	4,520	4,260
22	5,820	7,250	11,300	4,520	4,520	4,790	31,000	26,000	29,100	9,780	4,430	4,170
23	5,630	6,830	10,300	4,340	4,610	4,880	33,400	38,400	28,600	9,290	4,430	4,080
24	5,440	6,220	9,530	4,610	4,520	4,970	30,500	48,800	28,600	8,810	4,430	4,080
25	5,440	6,220	8,810	5,060	4,520	5,250	26,400	54,000	28,600	8,580	4,340	4,000
26	5,250	6,830	8,120	5,630	4,520	5,060	23,500	58,100	30,500	8,350	4,260	3,920
27	5,440	6,830	6,830	6,020	4,430	4,880	21,500	58,100	29,100	7,900	4,340	3,920
28	5,440	6,420	6,020	6,220	4,340	4,790	19,600	53,400	27,300	7,680	4,610	3,830
29	5,440	6,420	6,220	6,420	-	4,970	18,500	46,500	26,900	7,460	4,880	3,830
30	5,630	6,420	7,250	6,220	-	5,440	17,100	41,600	26,000	7,460	4,880	3,830
31	5,440	-	7,460	5,820	-	6,020	-	37,900	-	7,250	4,790	-

Month	Second-foot-dsys	Maximum	Minimum	Mean	Runoff in acre-feet
October	173,990	6,420	4,790	5,613	345,100
November	207,220	12,400	5,250	6,907	411,000
December	294,260	17,400	6,020	9,492	583,700
Calendar year 1941	3,456,480	38,400	2,560	9,470	6,856,000
January	163,130	6,420	4,100	5,262	323,600
February	135,120	5,630	3,510	4,826	268,000
March	156,620	6,020	4,520	5,052	310,700
April	588,320	33,400	7,040	19,610	1,167,000
May	838,600	58,100	14,500	27,050	1,663,000
June	1,135,400	57,500	26,000	37,250	2,252,000
July	450,760	26,000	7,250	14,540	894,100
August	162,080	7,040	4,260	5,228	321,500
September	124,040	4,700	3,830	4,135	246,000
Water year 1941-42	4,429,540	58,100	3,510	12,140	8,786,000

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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 SW¼ sec. 9, T. 7 N., R. 14 E., 1 mile downstream from outlet of Perkins Lake, 1½ 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 1942.

Extremes.- Maximum discharge during year, 409 second-feet June 9 (gage height, 4.61 feet); minimum recorded, 13 second-feet Sept. 17-30 (gage height, 1.95 feet).
1940-42: Maximum discharge, that of June 9, 1942; minimum not determined, may have occurred during period of ice effect.

Remarks.- Records good except 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	16	25	b22				102	213	210	33	16
2	17	16	35	b20	b21			98	194	218	32	16
3	17	17	64	b18				92	188	218	31	16
4	18	20	66	b19				88	193	210	29	16
5	18	20	67	b20			b19	82	213	210	28	16
6	18	20	63	b21		a20		79	247	196	27	16
7	18	19	59	b22	b22			78	302	188	27	15
8	17	19	55	b22				77	359	172	26	14
9	17	19	52	b22			20	79	399	158	25	15
10	17	19	49	b21			22	83	378	142	25	16
11	16	18	46				24	87	338	130	24	15
12	16	18	43			(*)	31	89	302	115	23	14
13	16	19	40	a20		b20	41	91	266	104	22	14
14	16	28	40				54	89	250	95	21	14
15	16	40	41				67	96	258	92	21	14
16	16	48	42				74	93	274	84	20	14
17	15	50	44				83	92	258	78	20	13
18	15	a52	47				86	89	242	71	20	13
19	16	a49	47				87	91	234	67	19	13
20	16	a46	47		b20		93	91	218	62	18	13
21	16	a43	47	a19			109	96	203	59	18	13
22	16	a40	b41				129	114	188	56	18	13
23	16	a38	40				144	172	188	52	18	13
24	16	a36	39			b19	146	238	203	49	17	13
25	16	a33	b36				139	302	218	47	17	13
26	16	a31	b34				130	379	218	44	16	13
27	16	a29	b32				120	394	210	41	16	13
28	16	*28	b30	b20			115	359	196	40	16	13
29	16	27	b28		-		114	312	196	37	16	13
30	16	26	b26		-		107	274	196	36	16	13
31	16	-	b24		-		-	238	-	34	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	508	18	15	16.4	0.459	0.53	1,010
November	884	52	16	29.5	.826	.92	1,750
December	1,349	67	24	43.5	1.22	1.41	2,680
Calendar year 1941	19,632	321	-	53.8	1.51	20.45	38,940
January	617	-	-	19.9	.557	.64	1,220
February	576	-	-	20.6	.577	.60	1,140
March	604	-	-	19.5	.546	.63	1,200
April	2,086	145	-	69.5	1.95	2.17	4,140
May	4,644	394	77	150	4.20	4.84	9,210
June	7,342	399	188	245	6.86	7.65	14,560
July	3,315	218	34	107	3.00	3.45	6,580
August	675	33	16	21.8	.611	.70	1,340
September	422	16	13	14.1	.395	.44	837
Water year 1941-42	23,022	399	-	63.1	1.77	23.98	45,670

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of weather records and records for stations on Salmon River and for Warm Springs Creek near Ketchum.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 22 years (1911-13, 1922-42), 176 second-feet.

Extremes.- Maximum discharge observed during year, 1,010 second-feet Dec. 3 (gage height, 3.14 feet); minimum observed, 55 second-feet Mar. 24 (gage height, 0.98 foot).

1910-13, 1921-42: 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. Gage read once daily. Diversions above station for irrigation.

Rating table, water year 1941-42, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)
(Shifting-control method used July 2 to Sept. 30)

0.9	43	1.8	260	2.7	730
1.2	94	2.1	385	3.0	940
1.5	164	2.4	550	3.2	1,090

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a92	a81	115	b115	a106	a90	92	319	462	a450	111	83
2	100	a81	a180	a100	109	94	94	260	435	462	a113	79
3	a98	81	1,010	b100	a114	a97	a100	319	490	a453	115	a81
4	a100	a102	a500	b100	120	100	107	242	490	a444	115	83
5	a102	124	225	a105	a116	a101	117	225	550	435	a104	a79
6	104	a104	a220	b115	a112	102	a123	242	610	a422	94	75
7	a98	83	a215	a130	107	a88	129	242	670	410	a94	a74
8	90	a84	209	a130	a105	75	a134	298	800	a386	a93	72
9	a92	a85	a201	a130	104	a82	a168	319	870	362	a92	a76
10	94	86	193	126	a105	88	a200	a330	870	a320	a91	79
11	a92	a87	a155	a125	107	a86	225	298	670	279	90	a81
12	a90	88	143	a125	a105	a84	a390	298	580	a261	a88	a82
13	88	a165	a149	122	a102	*81	550	279	550	a243	86	a83
14	a85	242	a155	a120	100	a84	a565	298	520	225	a86	84
15	83	a550	159	b118	a95	a87	580	340	700	a217	86	a78
16	a83	a400	a159	a120	90	92	a500	319	610	209	a84	73
17	83	242	159	b125	a80	a91	a420	260	520	a201	a81	a74
18	a84	a192	a168	a114	b80	90	340	260	550	193	79	a75
19	86	143	178	b107	a85	a95	410	260	490	a183	a79	77
20	a102	a150	a190	a100	b95	100	410	279	462	a174	79	79
21	a95	156	a180	107	a100	a90	462	340	435	164	a79	77
22	a88	a141	a170	a114	a90	a75	550	a450	435	a160	79	a74
23	84	a126	164	120	b80	a65	435	610	410	156	a77	72
24	a84	111	a155	a120	a85	55	385	730	435	a150	a74	a72
25	84	a112	a140	a118	86	a60	362	870	435	143	72	a72
26	a83	113	122	115	a80	65	319	905	462	a138	a74	72
27	83	a111	124	a112	83	a90	298	730	435	a134	75	70
28	a84	*109	a130	109	a86	115	279	670	a435	129	a82	a69
29	86	a111	a135	a100	-	a110	279	580	a435	a129	90	68
30	a84	a113	b140	*b90	-	a104	279	580	435	129	a86	a68
31	81	-	a130	102	-	a98	-	490	-	a120	83	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	2,782	104	81	89.7	0.510	0.59	5,520
November	4,373	550	81	146	.830	.92	8,570
December	6,273	1,010	115	202	1.15	1.33	12,440
Calendar year 1941	63,629	1,010	-	174	.989	13.44	126,200
January	3,534	130	90	114	.648	.75	7,010
February	2,727	120	80	97.4	.553	.58	5,410
March	2,734	115	55	88.2	.501	.58	5,420
April	9,302	580	92	310	1.76	1.97	18,450
May	12,642	905	225	408	2.32	2.67	25,080
June	16,251	870	410	542	3.08	3.43	32,230
July	7,881	462	120	254	1.44	1.67	15,630
August	2,731	115	72	88.1	.501	.58	5,420
September	2,281	84	68	76.0	.432	.48	4,520
Water year 1941-42	73,511	1,010	55	201	1.14	15.55	145,800

* 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.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Yankee Fork of 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 1942.

Average discharge.- 19 years (1922-24, 1925-42), 179 second-feet.

Extremes.- Maximum discharge during year, 2,330 second-feet May 26 (gage height, 6.27 feet); minimum recorded, 41 second-feet Mar. 26 (gage height, 1.07 feet), but may have been less during period of ice effect,

1921-42: 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 fair. No diversion or regulation above station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	77	65	81				124	288	775	579	143	84
2	80	64	85				113	268	750	579	143	81
3	76	64	560				140	254	850	579	140	78
4	82	77	321				138	244	1,100	579	138	77
5	87	74	209				130	231	1,250	542	134	76
						a50						
6	80	73	153				124	233	1,420	518	133	75
7	80	64					128	266	1,660	471	128	75
8	75	60					152	316	1,760	423	124	74
9	73	71					191	399	1,600	372	120	74
10	74	65				53	273	461	1,560	344	118	82
11	74	64				53	293	420	1,250	321	112	78
12	73	66				53	387	393	1,040	303	112	75
13	69	65				*53	452	358	950	276	108	74
14	69	118				50	468	338	925	240	105	73
15	70	240				49	372	344	980	244	104	72
				a50	a50							
16	70	209				a49	332	338	1,010	238	102	70
17	69	168				55	381	321	875	231	100	71
18	67	138				54	349	314	825	218	96	74
19	68	99	a70			51	378	319	800	207	82	73
20	72	67				a50	510	378	728	197	89	72
21	71	99				52	618	542	660	189	91	70
22	69	83				52	775	925	618	183	90	70
23	68	65				56	598	1,560	618	176	88	68
24	67	107				50	497	1,480	639	168	87	67
25	67	118				a50	440	2,010	660	162	87	67
26	67	91				a50	396	2,170	660	159	85	66
27	67	*78				a52	361	1,700	618	153	87	66
28	67	87				54	335	1,250	560	148	90	65
29	68	83			-	59	319	980	542	146	91	65
30	64	83			-	69	293	850	560	145	90	66
31	62	-			-	90	-	825	-	143	87	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	2,222	87	62	71.7	0.368	0.42	4,410
November	2,805	240	60	93.5	.479	.53	5,560
December	3,159	560	-	102	.523	.60	6,270
Calendar year 1941	60,683	905	-	166	.851	11.57	120,400
January	1,550	-	-	50	.256	.30	3,070
February	1,400	-	-	50	.256	.27	2,780
March	1,654	90	-	53.4	.274	.32	3,280
April	10,075	775	113	336	1.72	1.92	19,980
May	20,775	2,170	231	670	3.44	3.96	41,210
June	28,443	1,800	542	948	4.86	5.42	56,420
July	9,233	579	143	298	1.53	1.76	18,310
August	3,305	143	82	107	.549	.63	6,560
September	2,178	84	65	72.6	.372	.42	4,320
Water year 1941-42	86,799	2,170	-	238	1.22	16.55	172,200

* Winter discharge measurement made on this day.

a No gage-height record or stage-discharge relation affected by ice; discharge computed on basis of weather records and records for stations on Salmon River.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 W½ 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.

Records available.- October 1929 to September 1942.

Average discharge.- 12 years (1930-42), 182 second-feet.

Extremes.- Maximum discharge observed during year, 390 second-feet May 26 (gage height, 2.64 feet); minimum observed, 150 second-feet several days in July and August.
1929-42: Maximum discharge observed, that of May 26, 1942; 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 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	217	a260	262	230	227	233	303	247	264	192	150	171
2	217	a260	258	230	224	230	299	250	272	185	150	171
3	217	272	333	237	227	230	295	265	272	179	153	173
4	237	280	303	a240	230	230	299	262	269	176	153	176
5	295		299	233	230	237	303	254	272	179	153	176
6	291		295	227	230	233	306	244	284	185	150	173
7	a280		295	230	233	230	303	240	287	192	155	173
8	a270		295	233	233	233	299	244	314	188	155	171
9	258	a280	284	233	237	240	284	240	348	185	158	173
10	251		269	233	233	258	291	247	341	185	158	176
11	251		269	230	233	254	287	240	322	182	158	182
12	251		269	227	233	254	318	233	310	179	158	182
13	247		265	230	237	262	306	230	287	182	158	182
14	247		265	233	237	*258	299	201	276	182	158	185
15	247	295	287	233	237	254	280	207	254	185	158	192
16	244	295	299	233	233	251	258	204	254	185	158	195
17	244	287	295	230	227	251	265	198	247	179	158	195
18	244	280	291	227	b220	254	262	201	244	171	155	195
19	244	276	295	233	b230	254	258	198	240	168	150	198
20	240	269	299	233	291	251	254	195	227	160	150	198
21	244	258	306	233	237	251	291	192	220	155	150	198
22	247	251	a300	233	237	254	299	a190	210	150	153	198
23	251	251	295	233	230	272	287	a190	207	153	153	195
24	254	247	280	233	230	276	276	198	201	150	153	192
25	258	251	272	233	227	272	262	224	182	150	153	192
26		251	269	230	230	265	258	390	182	153	155	195
27		251	265	*227	227	269	262	341	188	153	158	192
28	a260	262	262	227	227	272	258	333	195	153	160	192
29		262	254	227	-	276	254	329	198	150	163	192
30		265	244	227	-	287	247	325	192	150	168	195
31		-	233	227	-	291	-	310	-	150	168	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,806	295	217	252	15,480
November	8,123	295	247	271	16,110
December	8,707	333	233	281	17,270
Calendar year 1941	76,090	333	86	208	150,900
January	7,165	240	227	231	14,210
February	6,527	291	220	233	12,950
March	7,882	291	230	254	15,630
April	8,463	318	247	282	16,790
May	7,652	390	190	247	15,180
June	7,579	348	182	253	15,030
July	5,286	192	150	171	10,480
August	4,830	168	150	156	9,580
September	5,578	198	171	186	11,060
Water year 1941-42	85,598	390	150	235	169,800

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for nearby streams or interpolated.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Lemhi River at Salmon, Idaho

Location.- Staff gage, lat. 45°10', long. 113°52'30", in SE¼ sec. 5, T. 21 N., R. 22 E., 40 feet upstream from highway bridge, 1,100 feet upstream from diversion gates of power canal, 1,320 feet downstream from Kirtly Creek, and 1 mile southeast of Salmon.

Records available.- August 1928 to September 1942.

Average discharge.- 14 years, 234 second-feet.

Extremes.- Maximum discharge observed during year, 2,100 second-feet June 9 (gage height, 4.10 feet), from rating curve extended above 700 second-feet; minimum observed, 46 second-feet Aug. 21, 25 (gage height, 0.30 foot).

1928-42: Maximum discharge, 2,400 second-feet June 3, 1936 (gage height, 4.0 feet, from floodmarks, site and datum then in use), from rating curve extended above 1,200 second-feet; minimum observed, 14 second-feet July 22, 23, 1931, Aug. 30 to Sept. 3, 1937.

Remarks.- Records fair except those for Apr. 20 to Sept. 2, which are poor. Many diversions above station for irrigation. Idaho Power Co. (formerly Salmon River Power & Light Co.) diverts water 1,100 feet below station for power development.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	325	325	325	b275	325	275	342	525	1,160	1,160	167	e140
2	342	325	325	b275	325	275	360	492	1,100	1,280	162	e120
3	342	325	342	b275	342	275	382	492	1,220	1,160	129	104
4	382	342	360	b300	325	260	405	492	1,520	1,280	100	96
5	382	360	360	325	325	260	432	460	1,660	828	116	96
6	360	342	342	325	325	260	460	460	1,780	724	112	96
7	360	342	342	308	325	260	492	460	1,850	828	81	96
8	360	325	325	308	342	260	562	460	2,040	724	100	100
9	360	325	325	308	342	275	562	492	2,110	627	81	96
10	360	325	325	308	325	275	600	525	2,040	627	89	100
11	360	325	325	308	b300	275	600	600	1,850	468	100	108
12	360	325	308	308	b290	275	600	600	1,590	385	116	112
13	342	342	325	290	b290	275	640	600	1,400	468	89	124
14	342	342	325	308	b290	*275	640	640	1,340	385	81	147
15	325	360	325	308	308	275	680	640	1,280	385	81	152
16	325	360	325	308	290	275	680	600	1,340	426	81	142
17	325	360	342	308	b275	275	680	600	1,160	346	85	142
18	325	342	325	308	b275	275	680	600	1,040	346	74	147
19	325	342	325	308	b275	275	600	562	1,040		56	157
20	325	342	325	308	b275	260	562	562	936		53	195
21	342	325	325	308	b275	275	640	562	828		46	195
22	342	b308	325	308	290	275	680	562	724		53	195
23	325	b308	308	325	290	260	680	855	1,160		53	195
24	325	b308	325	308	290	275	640	1,250	1,160	a240	49	173
25	325	325	325	342	290	260	d620	1,680	1,160		46	157
26	325	*325	325	342	275	260	d600	a1,700	1,280		53	173
27	342	325	325	*325	275	260	d580	a1,900	1,160		104	173
28	342	325	308	342	290	260	d550	a1,800	1,280		167	178
29	360	325	308	342	-	275	d520	1,520	1,160		184	184
30	342	325	325	342	-	290	d520	1,460	1,160		184	178
31	325	-	b300	342	-	290	-	1,280	-	184	173	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,622	382	325	343	21,070
November	9,975	360	308	332	19,790
December	10,120	360	300	326	20,070
Calendar year 1941	100,086	1,350	35	274	198,500
January	9,695	342	275	313	19,230
February	8,444	342	275	302	16,750
March	8,390	290	260	271	16,640
April	16,989	680	342	566	33,700
May	25,431	1,900	460	820	50,440
June	40,528	2,110	724	1,350	80,390
July	15,511	1,280	184	500	30,770
August	3,065	184	46	98.9	6,080
September	4,271	195	96	142	8,470
Water year 1941-42	163,041	2,110	46	447	323,400

* Winter discharge measurement made on this day.

a No gage-height record; discharge interpolated or computed on basis of weather records and unpublished records for stations near Lemhi furnished by Bureau of Reclamation.

b Stage-discharge relation affected by ice.

d Doubtful gage-height record; discharge computed on basis of unpublished records for stations near Lemhi.

e Stage-discharge relation indefinite; discharge computed on basis of unpublished records for stations near Lemhi.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

Middle Fork of 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 1942 (no winter records for water year 1941-42).

Average discharge.- 13 years (1929-41), 197 second-feet.

Extremes.- Maximum discharge during year, 1,700 second-feet May 25 (gage height, 5.59 feet); minimum not determined, probably occurred during winter.
1928-42: Maximum discharge, 2,340 second-feet June 9, 1933 (gage height, 6.26 feet), from rating curve extended above 1,900 second-feet; minimum recorded, 35 second-feet (estimated) Nov. 26-30, 1929, but may have been less during some winters.

Remarks.- Records good except those for periods of ice effect or doubtful or no gage-height record, which are fair. No diversion above station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	103	92	111						747	533	159	109
2	103	89	261						a740	528	157	109
3	99	96	896					a350	a720	506	155	107
4	132	157	326						a800	479	150	107
5	132	117	238						a850	450	150	105
6	117	109						401	a900	421	150	103
7	109	92						417	1,330	397	147	103
8	105	92	b220					493	1,460	370	143	103
9	99	99						560	1,460	348	141	103
10	99	94						547	1,250	326	138	107
11	98	92	212					488	1,060	312	136	103
12	98	98	198					467	930	295	134	101
13	96	103	206					462	900	279	132	101
14	94	244	187					497	870	272	130	101
15	96	323	182				a310	528	960	266	127	99
16	94	226	179					475	900	253	125	98
17	94	185	172					a475	810	244	123	99
18	94	*162	167					a500	810	235	123	101
19	96	132	172					a550	758	226	119	99
20	103	113	185					a650	698	220	117	98
21	99		167					a750	632	212	117	96
22	96	b120	159					960	605	206	115	94
23	94		157					1,250	620	198	115	92
24	94		152					1,380	637	192	115	92
25	94	130						1,560	659	185	113	90
26	94	121						1,460	637	182	113	90
27	92	121						1,170	580	179	117	89
28	98	113	b130					995	542	174	125	89
29	98	111						930	528	172	119	89
30	90	113						840	528	167	117	89
31	89	-					-	758	-	162	113	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	3,099	132	89	100	0.725	0.84	6,150
November	3,904	323	69	130	.942	1.05	7,740
December	6,337	896	-	204	1.48	1.71	12,570
Calendar year 1941	78,149	1,210	-	214	1.55	21.07	155,000
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	9,300	-	-	310	2.25	2.51	18,450
May	21,313	1,560	-	688	4.99	5.74	42,270
June	24,921	1,460	528	831	6.02	6.72	49,430
July	8,989	533	162	290	2.10	2.42	17,830
August	4,035	159	113	130	.942	1.09	8,000
September	2,966	109	89	98.9	.717	.80	5,880
Water year	-	-		-	-	-	-

* Winter discharge measurement made on this day.
a Doubtful or no gage-height record; discharge computed on basis of recorded range in stage and records for Bear Valley Creek near Cape Horn and Johnson Creek at Yellow Pine.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942 (no winter records for water year 1941-42).

Average discharge.- 13 years (1928-41), 239 second-feet.

Extremes.- Maximum discharge during year, 1,670 second-feet May 25 (gage height, 4.02 feet); minimum not determined, probably occurred during winter.

1921-42: 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.

Remarks.- Records good except those for periods of ice effect, which are poor. No regulation or diversion above station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	130	130	173				b100	456	910	472	a150	102
2	145	133	248				b100	395	875	489	a145	102
3	140	143	1,330				b110	362	910	445	a140	98
4	170	353	627				b120	348	1,060	415	140	96
5	215	233	390				b130	335	1,060	386	140	94
6	176	188	386				b140	362	1,100	362	140	94
7	161	161					148	500	1,290	344	138	94
8	153	151					158	657	1,370	326	135	94
9	143	153					176	753	1,330	304	133	96
10	151	148					211	746	1,410	292	130	114
11	151	143	b270				244	573	1,130	284	126	112
12	145	148					335	550	982	275	124	106
13	143	158					440	500	910	263	124	104
14	135	440					555	585	875	255	121	102
15	133	847	240				478	627	910	244	121	102
16	133	516	240				420	621	982	236	119	100
17	130	362	229				435	603	826	233	117	102
18	128	b250	208				395	609	779	225	114	102
19	133	b230	205				430	657	792	215	110	102
20	156	b200	236				550	753	708	208	110	102
21	145	b220					740	945	657	198	108	102
22	135	*b200					945	1,170	621	188	106	102
23	133						746	1,370	603	185	108	100
24	130						627	1,540	591	179	104	98
25	128						615	1,620	591	170	102	98
26	130	b180	b200				528	1,620	657	167	100	96
27	140						484	1,370	567	164	100	96
28	140						450	1,210	528	161	106	96
29	148						425	1,130	500	a160	108	96
30	135	173					420	1,100	472	a155	108	96
31	130	-					-	982	-	a150	106	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	4,465	215	128	144	0.800	0.92	8,860
November	6,940	847	130	231	1.28	1.43	13,770
December	8,872	1,330	-	286	1.59	1.83	17,600
Calendar year 1941	106,569	1,810	-	292	1.62	22.01	211,400
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	11,655	945	100	388	2.16	2.41	23,120
May	25,049	1,620	335	808	4.49	5.18	49,680
June	25,996	1,410	472	867	4.82	5.37	51,560
July	8,150	489	150	263	1.46	1.68	16,170
August	3,739	150	100	121	.672	.77	7,420
September	2,998	114	94	100	.556	.62	5,950
Water year	-	-	-	-	-	-	-

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of records for Middle Fork of Salmon River near Cape Horn and Johnson Creek near Yellow Pine.

b Stage-discharge relation affected by ice.

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

South Fork of Salmon River near Knox, Idaho

Location.- Staff gage, lat. 44°39', long. 115°42', in NW¼ sec. 11, T. 15 N., R. 6 E., an eighth of a mile below Curtis Creek, three-quarters of a mile above Warm Lake Creek, 1¼ miles southwest of Knox, and 21 miles northeast of Cascade.

Drainage area.- 92 square miles.

Records available.- September 1928 to September 1942.

Average discharge.- 14 years, 122 second-feet.

Extremes.- Maximum discharge observed during year, 1,020 second-feet May 24 (gage height, 3.90 feet); minimum observed, 30 second-feet (discharge measurement) Nov. 22, but probably was less at other times during winter.

1928-42: Maximum discharge observed, 1,560 second-feet June 9, 1933 (gage height, 4.69 feet), 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 fair. Gage read about thrice weekly. No diversion above station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	51	56	60		64	46	65	211	625	285	70	46
2	47	57	425		62	46	80	200	660	250	70	45
3	49	58	500		61	47	90	200	720	250	68	44
4	51	61	300		61	47	100	193	790	250	66	42
5	64	61	199		61	47	120	193	800	250	65	41
6	56	61	170		61	47	120	193	800	230	65	40
7	51	61	160		61	48	121	195	900	205	64	40
8	52	58	140		60	49	140	195	900	200	60	40
9	53	56	130		60	51	170	199	790	180	59	39
10	52	56	121		59	53	199	300	625	170	57	39
11	50	58			58	57	210	263	550	160	56	40
12	50	60			57	62	250	250	500	150	55	41
13	49	120			56	67	300	240	475	144	54	41
14	48	176				68	359	256	525	130	54	41
15	47	250		(*)		68	370	270	575	121	53	41
				b70								
16	47	139	b120			69	400	270	500	115	52	40
17	46	120				70	425	260	425	113	51	39
18	46	113					400	250	410	109	51	38
19	46	115					370	270	402	109	51	38
20	47	117			b50		340	300	370	100	51	38
21	48	100				b60	318	380	338	92	50	37
22	47	*85					300	400	338	90	48	37
23	47	86	121				290	425	338	88	48	37
24	46	*b88				53	285	1,020	340	86	48	36
25	46	b90				50	270	1,000	340	84	46	36
26	46	80			*b46	50	270	900	338	81	48	36
27	48	70	b100		b46	b50	270	800	300	80	52	37
28	50	65			46	50	263	708	270	77	56	37
29	53	61			-	*46	260	650	270	77	49	37
30	54	60		67	-	50	230	600	263	75	48	37
31	55	-		66	-	56	-	600	-	72	46	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	1,542	64	46	49.7	0.540	0.62	3,060
November	2,638	250	56	87.9	.955	1.07	5,230
December	4,566	500	-	147	1.60	1.85	9,060
Calendar year 1941	51,670	735	-	142	1.54	20.90	102,500
January	2,163	-	-	69.8	.759	.87	4,290
February	1,519	64	-	54.2	.589	.61	3,010
March	1,707	-	46	55.1	.599	.69	3,390
April	7,385	425	65	246	2.67	2.99	14,650
May	12,191	1,020	193	393	4.27	4.93	24,180
June	15,477	900	263	516	5.61	6.26	30,700
July	4,423	285	72	143	1.55	1.79	8,770
August	1,713	70	46	55.3	.601	.69	3,400
September	1,180	46	36	39.3	.427	.48	2,340
Water year 1941-42	56,504	1,020	36	155	1.68	22.85	112,100

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Note.- Gage read about thrice weekly; discharge for intervening days interpolated or computed on basis of weather records and records for station near Warren and Johnson Creek at Yellow Pine.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

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South Fork of Salmon River near Warren, Idaho

Location.- Staff gage, lat. 45°09', long. 115°35', in SE¼ sec. 15, T. 21 N., R. 7 E., 500 feet downstream from Elk Creek, 900 feet north of Elk Creek power plant, and 8 miles southeast of Warren.

Drainage area.- 1,160 square miles.

Records available.- July 1931 to September 1942.

Average discharge.- 11 years, 1,599 second-feet.

Extremes.- Maximum discharge observed during year, 10,800 second-feet May 25 (gage height, 9.90 feet); minimum observed, 490 second-feet Sept. 29, 30.
1931-42: Maximum discharge observed, 20,000 second-feet June 9, 1933 (gage height, 13.16 feet), from rating curve extended above 8,000 second-feet; minimum observed, 180 second-feet Dec. 27, 1939 (gage height, 2.26 feet).

Remarks.- Records good. Gage read twice daily. No appreciable diversion or regulation.

Rating tables, water year 1941-42, except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 22-24)

Oct. 1 to May 24				May 25 to Sept. 30			
3.3	505	5.0	1,790	3.2	490	6.0	3,110
3.6	660	5.5	2,310	3.6	700	7.0	4,570
3.9	850	6.0	2,890	4.0	970	8.0	6,390
4.2	1,080	7.0	4,340	4.5	1,400	10.0	11,000
4.6	1,420	8.0	6,110	5.0	1,910		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	530	632	920	850	780	632	920	2,770	5,800	4,570	935	615
2	605	605	1,160	920	780	632	1,000	2,650	5,610	4,410	935	590
3	580	605	5,020	1,000	780	632	1,080	2,420	6,190	3,950	900	565
4	690	1,000	3,020	885	815	632	1,160	2,420	7,440	3,660	865	565
5	850	885	2,200	750	780	632	1,420	2,310	7,660	3,380	865	540
6	720	815	2,090	780	780	632	1,330	2,310	7,880	3,240	830	540
7	660	750	1,890	850	780	632	1,420	2,420	9,510	2,980	830	540
8	660	720	1,600	920	750	632	1,510	2,770	9,510	2,720	795	540
9	632	690	1,600	1,000	750	660	1,690	3,150	9,510	2,600	760	565
10	632	660	1,600	1,000	720	690	2,200	3,560	8,560	2,360	760	640
11	632	660	1,510	920	720	720	2,530	3,150	7,440	2,240	730	640
12	632	660	1,330	920	720	750	3,420	3,150	6,390	2,130	700	615
13	632	690	1,420	850	660	720	4,340	2,890	6,390	2,020	700	565
14	605	1,420	1,420	780	605	690	5,380	3,020	6,390	1,910	700	565
15	605	2,650	1,420	720	660	632	4,680	3,020	6,590	1,800	a680	565
16	580	2,420	1,510	780	690	660	4,180	3,020	6,390	1,700	670	540
17	605	1,990	1,600	885	580	660	4,020	2,890	5,610	1,700	640	540
18	580	1,600	1,420	815	505	660	3,420	2,770	5,610	1,600	640	590
19	605	1,420	1,600	750	530	632	3,420	2,890	5,610	1,500	615	590
20	760	1,160	2,420	720	660	580	4,180	3,150	5,070	1,500	615	590
21	750	1,160	2,200	660	720	605	5,020	4,510	4,730	1,400	615	565
22	660	1,080	1,790	690	690	632	6,300	6,490	4,570	1,310	590	540
23	632	780	1,690	850	632	632	5,380	9,550	4,730	1,310	590	540
24	605	920	1,600	850	660	605	4,850	9,770	4,900	1,220	590	515
25	632	*1,080	1,420	850	660	605	4,510	10,500	5,070	1,220	565	515
26	632	1,000	1,160	815	555	555	3,860	10,000	5,070	1,130	565	515
27	605	885	1,000	850	605	555	3,280	8,560	4,410	1,130	590	515
28	632	920	1,160	850	605	605	3,150	7,440	4,250	1,050	760	515
29	690	885	b1,200	850	-	632	2,890	6,800	4,250	1,050	700	490
30	660	920	b1,200	780	-	690	2,770	6,390	4,410	970	640	490
31	632	-	1,160	780	-	780	-	5,990	-	970	615	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	19,945	850	530	643	0.554	0.64	39,560
November	31,662	2,650	605	1,055	.909	1.02	62,800
December	52,330	5,020	920	1,688	1.46	1.68	103,800
Calendar year 1941	593,724	9,330	362	1,627	1.40	19.04	1,178,000
January	25,920	1,000	660	836	.721	.83	51,410
February	19,172	815	505	685	.591	.61	38,030
March	20,006	780	555	645	.556	.64	39,680
April	95,310	6,300	920	3,177	2.74	3.06	189,000
May	142,730	10,500	2,310	4,604	3.97	4.58	283,100
June	185,550	9,510	4,250	6,185	5.33	5.95	368,030
July	64,730	4,570	970	2,088	1.80	2.08	128,400
August	21,965	935	565	709	.611	.70	43,610
September	16,700	640	490	557	.480	.54	33,120
Water year 1941-42	696,040	10,500	490	1,907	1.64	22.33	1,381,000

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

East Fork of South Fork of Salmon River at Stibnite, Idaho

Location.- Water-stage recorder, lat. 44°54', long. 115°19', in about sec. 14, T. 18 N., R. 9 E., 30 feet downstream from Meadow Creek, half a mile northeast of Stibnite post office, and 10½ miles upstream from Johnson Creek.

Drainage area.- 19.5 square miles.

Records available.- June 1928 to September 1942 (no winter records during water year 1941-42).

Average discharge.- 13 years (1928-41), 23.2 second-feet.

Extremes.- Maximum discharge during year, 211 second-feet June 7 (gage height, 3.84 feet); minimum not determined.
1928-42: Maximum discharge recorded, 369 second-feet June 14, 1933 (gage height, 4.49 feet); minimum discharge, 2 second-feet Oct. 29, 1936 (gage height, 1.71 feet).

Remarks.- Records good except those for May 30 to June 16, which are fair, and those for Oct. 1 to Nov. 4, Nov. 20-30, which are poor. Slight regulation by reservoir on South Fork of Meadow Creek (capacity, about 700 acre-feet) and by diversion of about a third of a second-foot from Meadow Creek for transporting mine tailings.

Cooperation.- Gage-height record furnished by Bradley Mining Co.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a13	a14					-	-	79	69	21	16
2	a13	a14					-	-	79	69	20	14
3	h13	a17					-	-	82	67	19	14
4	a16	a17					-	-	96	63	19	15
5	a16	17					-	-	101	60	19	14
6		16					-	-	114	57	18	14
7		15					-	-	162	50	17	14
8		16					-	-	152	53	17	14
9		17					-	-	169	51	16	16
10		18					-	-	138	48	16	16
11		19					-	-	114	47	16	15
12		23					-	-	107	45	16	14
13		22					-	-	109	44	18	14
14		24					-	-	106	41	18	14
15		40					-	-	116	40	18	14
16		42		†15			50	-	a112	39	16	12
17		32					45	-	110	36	15	13
18	a14	30					43	-	109	36	16	14
19		28					56	-	100	34	16	14
20		b25					64	-	90	33	15	13
21		b22					67	-	84	30	16	13
22		a19					74	-	80	30	17	13
23		*b16					-	-	80	29	17	13
24							-	-	79	28	17	12
25					†14		-	-	84	27	17	12
26		a16					-	-	80	26	16	12
27							-	-	77	26	15	12
28						†13	-	-	70	25	18	12
29							-	-	70	24	18	12
30							-	81	70	24	17	12
31		-					-	80	-	23	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	435	16	-	14.0	863
November	615	42	-	20.5	1,220
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 16-22	399	74	43	57.0	791
May	-	-	-	-	-
June	3,009	162	70	100	5,970
July	1,274	69	23	41.1	2,530
August	530	21	16	17.1	1,050
September	407	16	12	13.6	807
Water year	-	-	-	-	-

* Winter discharge measurement made on this day.
† Result of discharge measurement.
a No gage-height record; discharge computed on basis of one discharge measurement, weather records, and records for station near Yellow Pine and Johnson Creek at Yellow Pine.
b Stage-discharge relation affected by ice.
h Computed from staff-gage reading.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. To convert war time to standard time, subtract 1 hour.

East Fork of South Fork of Salmon River near Yellow Pine, Idaho

Location.- Water-stage recorder, lat. 44°58', long. 115°27', in NE¼ sec. 27, T. 19 N., R. 8 E., 200 feet upstream from Forest Service highway bridge, 1½ miles east of Yellow Pine, 1½ miles upstream from Quartz Creek, 2 miles downstream from Profile Creek, and 2.8 miles upstream from Johnson Creek.

Drainage area.- 104 square miles.

Records available.- August 1928 to September 1942 (no winter records during water year 1941-42).

Average discharge.- 13 years (1928-41), 135 second-feet.

Extremes.- Maximum discharge during year, 919 second-feet June 7 (gage height, 3.80 feet); minimum not determined.

1928-42: Maximum discharge, 2,050 second-feet June 14, 1933 (gage height, 5.26 feet), from rating curve extended above 1,100 second-feet; minimum recorded, 25 second-feet Oct. 23, 1935, but may have been less during periods of ice effect.

Remarks.- Records good except those for periods of no gage-height record or ice effect, which are fair. Slight regulation by Bradley Mining Co.'s power plant on this stream and small reservoir on South Fork of Meadow Creek.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a63	63					-	208	413	406	116	78
2	a64	63					-	196	417	394	a112	76
3	65	65					-	188	465	384	a108	77
4	85	80					-	182	589	366	a104	72
5	77	72					-	173	619	345	a102	68
6	71	72					-	170	679	321	a100	67
7	70	67					-	182	848	305	99	67
8	70	67					-	199	812	285	97	67
9	67	67					-	235	806	266	97	71
10	68	65					-	254	723	251	97	76
11	67	64					-	241	624	238	94	70
12	65	67					-	235	544	229	92	68
13	65	67					-	223	534	220	96	64
14	64	112					-	226	524	208	97	63
15	64	165					-	232	574	205	96	63
16	60	165		†78			-	226	579	196	90	62
17	64	127					-	217	534	190	87	64
18	63	114					-	211	529	182	87	65
19	65	99					-	217	506	179	85	63
20	68	83					-	232	465	170	85	63
21	64	a78					-	302	440	165	87	62
22	63	a74					-	453	440	160	85	63
23	64	a72					-	630	461	151	83	62
24	63	*a71					-	668	465	141	83	59
25	60	a71			†62		-	746	478	139	82	58
26	65						260	701	465	134	80	58
27	63						244	569	425	129	80	55
28	65	a71				†64	235	515	406	129	92	55
29	67				-		223	478	406	124	83	55
30	63				-		214	453	409	122	78	54
31	64	-			-		-	428	-	120	78	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	2,046	85	60	66.0	0.635	0.73	4,060
November	2,485	185	-	82.8	.796	.89	4,930
December	-	-	-	-	-	-	-
Calendar year	-	-	-	-	-	-	-
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April 26-30	1,176	260	214	235	2.26	.42	2,330
May	10,210	746	170	329	3.16	3.65	20,250
June	16,179	648	406	539	5.18	5.79	32,090
July	6,854	406	120	221	2.12	2.45	13,590
August	2,852	116	78	92.0	.885	1.02	5,660
September	1,945	78	54	64.8	.623	.70	3,860
Water year	-	-	-	-	-	-	-

* Winter discharge measurement made on this day.
† Result of discharge measurement.
a No gage-height record, or stage-discharge relation affected by ice; discharge computed on basis of one discharge measurement, weather records, and records for nearby stations.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942.

Average discharge.- 14 years, 289 second-feet.

Extremes.- Maximum discharge during year, 2,520 second-feet May 25 (gage height, 5.14 feet); minimum, 77 second-feet Sept. 29 (gage height, 1.15 feet).
1928-42: 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 except those for periods of no gage-height record, which are fair. During late fall of 1936, the Bureau of Reclamation cut transmountain channel to divert a small flow from a tributary of Johnson Creek to Deadwood River Basin to supplement storage in Deadwood Reservoir. Discharge measurement of May 28 indicated flow in diversion of 20.3 second-feet; July 1, 24.1 second-feet; Sept. 2, 2.0 second-feet (estimated).

Rating table, water year 1941-42 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used July 19 to Sept. 30)

1.1	64	2.4	463	4.0	1,470
1.4	118	2.8	665	4.5	1,890
1.7	196	3.2	905	5.0	2,370
2.0	296	3.6	1,175		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	94	106	162	a150	132	108	120	575	1,180	732	146	94
2	102	104	212	a140	134	106	118	525	1,210	698	141	94
3	100	108	970	a170	130	106	132	496	1,280	648	139	93
4	125	187	535	a140	130	104	146	477	1,630	595	134	91
5	154	159	392	a120	125	104	162	454	1,550	555	130	87
6	139	151	379	a130	125	104	162	472	1,630	510	127	85
7	a130	127	334	a150	123	89	176	545	2,020	472	127	85
8	a125	120	300	a170	123	130	193	665	1,980	436	120	85
9	a120	125	282	176	123	118	234	780	2,020	405	118	87
10	a115	120	289	164	114	120	307	810	1,760	375	114	104
11	a115	120	257	162	125	120	384	687	1,470	354	110	104
12	112	120	230	154	120	120	540	682	1,280	334	108	94
13	110	127	253	149	106	118	648	621	1,280	315	108	91
14	108	264	253	139	102	118	780	676	1,240	296	106	89
15	106	540	253	136	123	114	665	687	1,320	282	106	85
16	106	440	260	149	116	112	616	676	1,240	274	104	84
17	106	326	247	159	a100	112	648	621	1,100	260	102	85
18	104	274	240	144	a95	116	585	621	1,100	250	100	89
19	110	244	253	136	a100	108	648	670	1,070	240	98	89
20	139	179	323	130	a110	a105	810	774	938	234	96	89
21	130	215	292	125	a120	a105	1,070	1,070	872	221	94	85
22	118	184	260	132	a120	a105	1,240	1,470	840	212	94	84
23	112	151	260	149	a120	a105	970	1,980	872	202	94	84
24	110	173	247	144	118	a105	840	2,170	872	190	93	82
25	110	193	218	139	110	a105	780	2,370	938	184	91	80
26	110	170	184	141	104	a105	704	2,120	905	176	91	80
27	108	159	a180	141	108	a105	648	1,710	780	170	93	78
28	112	164	a210	141	104	102	610	1,510	738	162	106	78
29	118	162	230	136	-	96	575	1,320	732	159	106	77
30	110	162	221	123	-	102	550	1,240	732	154	102	78
31	106	-	205	132	-	110	-	1,180	-	151	96	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	3,564	154	94	115	0.540	0.62	7,070
November	5,674	540	104	189	.887	.99	11,250
December	8,931	970	162	288	1.35	1.56	17,710
Calendar year 1941	116,363	2,270	74	319	1.50	20.29	230,800
January	4,471	176	120	144	.676	.78	8,870
February	3,260	134	95	116	.545	.57	6,470
March	3,377	130	89	109	.512	.59	6,700
April	16,061	1,240	118	535	2.51	2.80	31,860
May	30,654	2,370	454	989	4.64	5.35	60,800
June	36,579	2,020	732	1,219	5.72	6.39	72,550
July	10,246	732	151	331	1.55	1.79	20,320
August	3,394	146	91	109	.512	.59	6,730
September	2,610	104	77	87.0	.408	.46	5,180
Water year 1941-42	128,821	2,370	77	353	1.66	22.49	255,500

a No gage-height record; discharge computed on basis of weather records, recorded range in stage, and records for other stations in Salmon River Basin.
Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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 1942 (incomplete).

Extremes.- Maximum discharge during year, 244 second-feet May 23 (gage height, 2.96 feet), from rating curve extended above 50 second-feet; minimum not determined, probably occurred during winter.
1938-42: Maximum discharge, that of May 23, 1942; minimum not determined.

Remarks.- Records good except those below 3 second-feet, which are fair. No regulation. Small diversion to Weiser River Basin about 350 feet below station.

Rating tables, water year 1941-42 (gage height, in feet, and discharge, in second-feet

Oct. 1 to Nov. 19		Apr. 16 to Sept. 30			
0.7	1.2	0.7	0.4	1.6	51
1.0	7.6	1.0	6.8	2.0	100
1.3	20	1.3	20	2.8	218

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	1.7					-	26	62	13	3.5	2.0
2	1.8	1.7					-	22	60	12	3.2	2.0
3	1.8	2.4					-	20	66	12	3.2	1.8
4	2.0	3.0					-	19	70	11	3.0	1.8
5	2.0	2.4					-	18	70	10	3.0	1.8
6	2.0	2.3					-	19	70	9.7	3.0	1.8
7	2.0	2.8					-	22	75	9.0	2.8	1.5
8	2.0	3.0					-	32	69	8.7	2.8	1.5
9	2.0	2.0					-	47	67	8.1	2.8	1.8
10	2.0	1.8					-	58	58	7.4	2.5	2.0
11	2.0	1.8					-	53	50	7.1	2.5	1.8
12	1.8	1.8					-	50	42	6.8	2.5	1.8
13	1.8	2.6					-	46	39	6.5	2.2	1.8
14	1.8	5.0					-	46	36	6.2	2.2	1.8
15	1.7	9.4					-	47	37	6.0	2.2	1.8
16	1.7	8.3					40	46	32	6.0	2.0	1.5
17	1.7	6.4					40	43	28	6.0	2.0	1.5
18	1.7	5.3					36	43	27	5.7	2.0	1.5
19	1.7	4.7					38	46	24	5.4	2.0	1.5
20	1.7	-					48	51	21	5.4	2.0	1.5
21	1.7	-					68	68	19	5.1	2.0	1.5
22	1.6	-					79	98	19	4.8	2.0	1.5
23	1.6	-					68	191	18	4.6	1.8	1.5
24	1.6	-					58	179	16	4.3	1.8	1.5
25	1.6	-					49	168	18	4.3	1.8	1.4
26	1.6	-					40	134	19	4.0	1.8	1.4
27	1.6	-					35	110	18	4.0	3.0	1.4
28	2.1	-					32	91	16	3.8	3.2	1.4
29	2.0	-					29	80	15	3.8	2.5	1.4
30	1.7	-					27	72	13	3.5	2.2	1.4
31	1.7	-					-	67	-	3.5	2.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	55.8	2.1	1.6	1.80	0.277	0.32	111
November 1-19	68.4	9.4	1.7	3.60	.554	.39	136
December	-	-	-	-	-	-	-
Calendar year	-	-	-	-	-	-	-
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April 16-30	687	79	27	45.8	7.05	3.93	1,360
May	2,012	191	18	64.9	9.98	11.51	3,990
June	1,174	75	13	39.1	6.02	6.72	2,330
July	207.7	13	3.5	6.70	1.03	1.19	412
August	75.5	3.5	1.8	2.44	.375	.43	150
September	48.9	2.0	1.4	1.63	.251	.28	97
Water year	-	-	-	-	-	-	-

Time basis: Mountain standard time prior to 2 a.m., Feb. 9, 1942; mountain war time thereafter. 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., 2¾ 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 1942. November 1903 to September 1915 at Hilgard, 4 miles upstream.

Average discharge.- 28 years (1905-9, 1910-11, 1912-15, 1918-20, 1921-22, 1925-42), 346 second-feet.

Extremes.- Maximum discharge during year, 2,870 second-feet Apr. 5 (gage height, 5.71 feet); minimum, 22 second-feet Sept. 26-30 (gage height, 1.56 feet).
1903-15, 1918-23, 1925-42: Maximum discharge, 8,880 second-feet Mar. 18, 1932 (gage height, 8.90 feet); minimum, 3.9 second-feet Aug. 26, 1940 (gage height, 1.23 feet).

Remarks.- Records fair except those for periods of ice effect, which are poor. Some discharge measurements made at cable 3 miles above gage. Small diversions above station for irrigation.

Rating tables, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Jan. 5

1.8	57	3.0	510
2.0	95	3.3	690
2.2	152	3.6	890
2.4	225	4.0	1,200
2.7	355		

Feb. 3 to Sept. 30

1.6	26	2.2	141	4.0	1,150
1.7	37	2.5	253	4.5	1,570
1.8	51	3.0	485	5.0	2,060
2.0	88	3.5	790	5.6	2,740

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	170	319	b170	b290	148	2,040	1,440	1,210	672	65	28
2	53	166	370	245	b290	148	2,040	1,370	1,080	576	61	27
3	56	166	742	380	295	144	1,980	1,330	986	502	58	25
4	78	237	729	253	336	135	2,020	1,410	902	445	58	24
5	162	249	742	237	367	165	2,730	1,370	818	420	60	24
6	202	270	696	b250	340	155	2,510	1,320	755	362	58	24
7	180	257	630	b280	322	148	2,360	1,330	741	322	54	24
8	187	245	558	b360	304	190	2,190	1,540	672	291	50	24
9	176	241	482	b400	318	278	2,040	1,730	660	261	48	25
10	159	225	477	b380	326	846	2,030	2,060	618	237	45	33
11	146	210	395	b320	336	1,480	2,090	1,870	546	233	40	35
12	142	198	380	b300	313	1,700	2,370	1,660	490	225	37	30
13	142	187	360	b280	295	1,240	2,300	1,460	450	209	36	28
14	130	225	360	b260	*237	979	2,260	1,370	425	190	36	27
15	120	648	*346	b250	256	769	2,000	1,520	460	175	35	25
16	115	1,020	445	b320	237	748	1,710	1,520	455	213	34	24
17	110	890	445	b300	186	624	1,800	1,380	385	221	32	24
18	105	781	455	b280	165	600	1,610	1,280	362	186	32	24
19	133	684	904	b260	179	524	1,450	1,250	376	179	30	26
20	159	564	1,220	b250	221	460	1,400	1,230	326	144	29	26
21	142	516	1,020	b240	225	524	1,440	1,220	300	129	30	25
22	133	415	848	b250	217	524	1,450	1,370	278	118	29	24
23	123	400	768	b260	205	496	1,300	1,590	253	107	29	23
24	118	440	684	b260	202	450	1,140	1,440	241	100	28	23
25	112	385	588	b270	183	425	1,030	1,400	278	93	27	23
26	108	332	494	b290	138	372	923	1,450	641	88	27	22
27	102	296	306	b320	168	440	818	1,360	1,360	84	26	22
28	123	301	494	b380	168	588	881	1,320	1,250	80	28	22
29	195	292	522	b350	-	818	951	1,210	979	74	32	22
30	180	301	482	b320	-	1,210	1,180	1,140	804	72	32	23
31	173	-	380	b300	-	1,660	-	1,190	-	68	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,114	202	50	133	8,160
November	11,311	1,020	166	377	22,440
December	17,641	1,220	306	569	34,990
Calendar year 1941	130,604	2,220	38	358	259,100
January	9,015	400	170	291	17,880
February	7,129	367	138	255	14,140
March	18,988	1,700	135	613	37,660
April	52,043	2,730	818	1,735	103,200
May	44,130	2,060	1,140	1,424	87,530
June	19,101	1,360	241	637	37,890
July	7,076	672	68	228	14,040
August	1,216	65	26	39.2	2,410
September	756	35	22	25.2	1,500
Water year 1941-42	192,520	2,730	22	527	381,800

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

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., 500 feet downstream from Wallowa River, at Rondowa. 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 1942.

Average discharge.- 16 years, 1,839 second-feet.

Extremes.- Maximum discharge during year, 8,060 second-feet sometime during period May 22-24 (gage height, 5.65 feet); minimum, 439 second-feet Sept. 28-30 (gage height, 1.16 feet).

1926-42: 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 periods of ice effect or no gage-height record, which are fair. Many diversions above station for irrigation. Flow slightly regulated by Wallowa Lake Reservoir.

Rating table, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.1	400	1.9	1,060	3.0	2,430	4.5	5,260
1.3	535	2.2	1,380	3.5	3,270	5.0	6,370
1.6	775	2.6	1,870	4.0	4,220	5.6	7,910

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	784	970	1,290	b750	1,610	970	4,080	4,040	5,280	4,630	741	528
2	802	950	1,580	a780	1,660	1,000	4,240	4,040	5,130	4,710	716	529
3	784	1,000	2,590	a900	1,740	980	4,320	4,020	5,010	4,570	690	521
4	1,000	1,250	2,620	a800	2,480	980	4,480	4,060	4,970	4,380	682	500
5	1,040	1,170	2,570	a780	2,310	1,010	6,140	4,080	4,880	4,380	802	493
6	1,040	1,190	2,560	a900	2,220	1,030	5,880	4,040	5,050	4,000	766	465
7	1,090	1,170	2,430	a1,000	2,040	1,040	5,880	4,100	5,770	3,640	716	465
8	1,120	1,140	2,250	a1,100	1,910	1,090	5,830	4,200	5,480	3,290	690	479
9	1,100	1,120	2,070	*b1,160	1,840	1,380	5,830	4,690	5,370	2,850	707	493
10	1,070	1,080	1,950	b1,200	1,790	3,020	5,960	5,660	5,200	2,590	698	595
11	1,050	1,050	1,820	1,250	1,800	3,680	6,160	5,480	4,550	2,540	674	618
12	1,050	1,020	1,720	1,180	1,740	4,020	6,890	5,350	3,980	2,250	642	580
13	1,070	1,070	1,660	1,130	1,640	3,750	6,890	5,130	3,770	2,070	634	572
14	1,020	1,310	1,670	1,080	1,510	3,360	7,430	4,940	3,750	1,920	642	572
15	990	1,910	1,700	1,010	1,500	2,970	7,020	4,990	4,240	1,820	610	558
16	970	2,700	2,040	1,030	1,450	2,720	6,530	4,880	4,080	1,960	602	535
17	950	2,750	2,310	1,040	1,270	2,480	7,380	4,690	3,560	1,840	595	528
18	884	2,560	2,590	1,020	1,110	2,320	6,670	4,500	3,430	1,690	565	550
19	950	2,320	3,310	1,010	932	2,210	6,230	4,440	3,090	1,570	550	550
20	980	2,030	3,810	932	922	2,040	6,070	4,550	2,890	1,490	542	550
21	1,000	1,900	3,720	856	1,030	2,000	6,390	5,160	2,770	1,370	528	528
22	970	1,690	3,290	884	1,140	2,030	6,670	a6,000	2,780	1,290	521	521
23	950	1,460	3,000	1,000	1,100	1,990	6,050	a7,000	2,900	1,220	514	521
24	922	1,440	2,720	990	1,070	1,910	5,550	a7,800	2,940	1,140	514	493
25	903	1,510	2,460	1,020	1,070	1,830	5,090	7,680	3,580	1,050	493	472
26	894	1,450	2,170	1,090	970	1,740	4,690	7,590	3,960	950	486	465
27	874	1,370	1,770	1,390	980	1,750	4,340	6,700	4,060	884	507	452
28	922	1,300	1,670	1,560	941	1,880	4,140	6,140	4,200	847	535	446
29	1,030	1,290	1,720	1,610	-	2,140	4,100	5,700	4,280	802	565	446
30	990	1,300	1,770	1,520	-	2,570	3,940	5,590	4,420	775	565	446
31	980	-	1,600	1,490	-	3,110	-	5,440	-	758	550	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	30,179	1,120	784	974	59,860
November	44,470	2,750	950	1,482	88,200
December	70,430	3,810	1,290	2,272	139,700
Calendar year 1941	669,472	6,070	500	1,834	1,328,000
January	33,452	1,610	750	1,079	66,350
February	41,775	2,480	922	1,492	82,860
March	65,000	4,020	970	2,097	128,900
April	170,870	7,430	3,940	5,696	338,900
May	162,680	7,800	4,020	5,248	322,700
June	125,370	5,770	2,770	4,179	248,700
July	69,276	4,710	758	2,235	137,400
August	19,042	802	486	614	37,770
September	15,470	618	446	516	30,680
Water year 1941-42	848,014	7,800	446	2,323	1,682,000

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records, range in stage, and records for station at La Grande.

b Stage-discharge relation affected by ice.

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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 SE¼ 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 1942.

Average discharge.- 19 years (1911-12, 1918-19, 1925-42), 117 second-feet.

Extremes.- Maximum discharge during year, 678 second-feet Apr. 17 (gage height, 3.14 feet); minimum, 21 second-feet Jan. 1 (gage height, 0.70 foot).
1906-7, 1911-12, 1915, 1918-19, 1925-42: 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 fair 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 table, water year 1941-42, except periods of ice effect
(gage height, in feet, and discharge, in second-feet)

0.8	27	1.4	97	2.3	316
.9	35	1.6	133	2.6	424
1.0	44	1.8	176	3.0	600
1.2	67	2.0	226		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	45	60	40	92	53	237	266	368	240	55	34
2	45	43	104	b50	97	54	254	254	357	232	53	33
3	43	48	193	b50	104	*52	281	254	354	221	51	33
4	80	57	158	b60	124	53	294	257	347	208	52	32
5	66	54	*146	b58	113	54	326	248	347	198	60	32
6	61	50	135	b60	111	55	340	254	364	181	53	31
7	65	48	124	b68	100	55	375	269	405	165	51	31
8	66	45	114	81	94	57	386	290	386	150	50	31
9	65	44	109	83	94	63	413	357	364	139	51	33
10	65	43	102	74	86	78	464	386	343	133	46	35
11	63	43	94	77	b80	104	520	372	303	129	44	33
12	63	42	87	94	b74	125	585	364	275	118	44	31
13	62	47	91	100	*b70	127	590	347	272	111	43	31
14	65	55	92	125	b74	120	600	343	269	102	42	31
15	56	94	109	b130	80	111	524	361	303	99	42	31
16	54	92	137	150	71	106	477	350	275	107	41	30
17	53	95	135	125	70	97	576	336	240	94	39	31
18	52	87	139	b94	b62	92	520	323	240	89	38	32
19	56	*83	158	b80	b58	86	493	323	218	84	37	31
20	53	70	195	b72	b58	83	524	340	205	80	37	30
21	51	78	188	b66	b62	81	600	405	200	75	37	29
22	48	b68	172	b68	66	81	595	528	200	71	37	29
23	47	b60	161	b72	68	81	510	556	208	68	36	28
24	46	b56	146	b72	65	78	432	528	205	67	36	27
25	45	b58	127	65	61	78	368	524	257	65	35	26
26	46	61	112	73	b56	75	326	533	275	63	37	26
27	44	57	b80	*116	57	75	294	472	269	62	36	26
28	44	57	b115	124	54	83	281	428	248	60	38	26
29	46	57	b120	112	-	99	260	397	234	59	40	26
30	45	63	100	100	-	133	246	416	234	57	37	27
31	46	-	81	94	-	181	-	386	-	55	35	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,684	80	43	54.3	3,340
November	1,800	95	42	60.0	3,570
December	3,884	195	60	125	7,700
Calendar year 1941	45,470	474	32	125	90,190
January	2,663	150	40	85.9	5,280
February	2,204	124	54	78.7	4,370
March	2,670	181	52	86.1	5,300
April	12,691	500	237	423	25,170
May	11,467	556	248	370	22,740
June	8,565	405	200	286	16,990
July	3,582	240	55	116	7,100
August	1,333	60	35	43.0	2,640
September	906	35	26	30.2	1,800
Water year 1941-42	53,449	600	26	146	106,000

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

East Fork of Wallowa River near Joseph, Oreg.

Location.- Staff gage, lat. 45°16', long. 117°13', in SW¼ sec. 29, T. 3 S., R. 45 E., a quarter of a mile upstream from mouth, 1 mile upstream from Wallowa 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 1942.

Average discharge.- 18 years, 11.8 second-feet.

Extremes.- Maximum discharge observed during year, 104 second-feet July 5 (gage height, 2.00 feet); minimum observed, 1.0 second-foot Mar. 5, 9-11.

1924-42: 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 Wallowa 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. Wallowa Falls power plant of Pacific Power & Light Co. (licensee succeeding Inland Power & Light Co.) diverts water 1 mile above station.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.1	6.4	6.5	a7.4	6.8	a2.3	2.8	8.8	32	58	22	9.3
2	5.5	5.8	13	a6.8	3.8	a1.2	2.6	a10	29	62	22	9.3
3	5.5	10	23	b6.1	4.7	a1.4	3.0	8.8	30	77	18	8.9
4	7.0	9.6	16	a5.2	4.7	a1.2	3.3	5.5	32	92	18	8.0
5	9.2	8.8	14	a4.9	5.2	*1.0	5.2	7.2	32	90	19	8.0
6	3.4	7.9	13	a5.7	5.2	1.3	3.3	8.0	36	78	17	10
7	5.5	7.0	12	a4.8	6.5	2.1	3.3	8.0	53	76	16	10
8	5.2	6.4	11	b4.5	7.2	a3.9	3.3	8.8	53	76	16	7.7
9	5.8	7.0	9.2	b3.8	4.7	1.6	4.7	14	49	76	16	8.0
10	6.4	5.2	8.4	b2.9	4.7	1.7	5.8	16	47	70	16	9.6
11	6.7	5.8	9.6	a2.9	2.4	1.6	7.2	11	47	67	14	8.9
12	10	4.3	b9.0	a4.7	3.5	1.8	11	12	47	a68	13	9.3
13	7.0	5.8	8.4	a5.1	3.0	3.0	11	12	46	53	13	10
14	7.0	9.2	b9.6	4.7	b2.3	1.8	11	12	51	49	11	8.6
15	5.5	14	9.2	a4.7	b2.8	3.5	9.2	12	51	46	13	7.4
16	5.5	12	10	a5.8	1.3	a2.8	9.6	16	50	46	13	7.4
17	6.4	*6.6	9.6	a6.4	b1.3	a11	11	12	47	44	13	a14
18	6.7	4.7	9.6	4.7	b1.5	a11	9.2	12	47	46	12	a18
19	a8.2	4.7	11	4.0	b1.5	a7.9	12	9.2	44	42	12	a17
20	7.0	b5.5	12	b7.1	b1.5	2.6	11	14	42	38	13	a16
21	5.2	b4.3	12	b7.1	a1.5	2.4	14	20	42	32	11	a16
22	5.2	4.2	8.8	b6.9	a2.5	3.5	17	34	44	32	11	a13
23	5.2	b5.0	9.2	b7.1	a1.3	3.1	16	40	44	31	13	7.1
24	4.6	b3.9	8.8	b6.9	a1.5	4.7	13	42	44	31	10	6.8
25	5.5	4.5	b8.4	a8.4	a1.3	5.0	12	42	49	31	11	6.3
26	6.7	6.1	b8.6	3.0	a1.2	6.8	13	38	51	31	9.6	6.0
27	5.2	6.1	b7.9	5.0	a1.6	2.4	9.2	36	51	31	9.3	6.8
28	5.8	6.1	b7.9	6.5	a1.4	3.1	10	32	51	30	10	5.1
29	4.6	7.2	b7.7	6.1	-	3.8	10	34	51	24	12	5.7
30	5.8	8.4	8.0	6.1	-	2.0	11	41	51	22	13	6.5
31	4.3	-	b7.2	5.8	-	2.4	-	37	-	20	9.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	187.7	10	3.4	6.05	372
November	202.5	14	3.9	6.75	402
December	318.6	23	6.5	10.3	632
Calendar year 1941	4,431.8	54	1.4	12.1	8,790
January	171.9	8.4	2.9	5.55	341
February	86.9	7.2	1.2	3.10	172
March	103.9	11	1.0	3.35	206
April	263.7	17	2.6	8.79	523
May	613.3	42	5.5	19.8	1,220
June	1,343	53	29	44.8	2,660
July	1,569	92	20	50.6	3,110
August	426.2	22	9.3	13.7	845
September	284.7	18	5.1	9.49	565
Water year 1941-42	5,571.4	92	1.0	15.3	11,050

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records and records of Wallowa Falls power-plant tailrace near Joseph.

b Stage-discharge relation affected by ice.

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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 junction with West Fork of Wallowa River 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 1942.

Average discharge.- 18 years, 7.41 second-feet.

Extremes.- Maximum discharge observed during year, 15.3 second-feet Feb. 14 (gage height, 0.94 foot); no flow at times.
1924-42: 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 power-house. Water diverted at dam on East Fork of Wallowa River into a conduit 1 mile above powerhouse, and discharged into West Fork a quarter of a mile downstream.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10.2	8.6	8.8	8.1	7.3	7.7	8.1	8.8	9.5	8.8	9.0	9.5
2	10.4	8.4	8.6	8.2	9.2	8.8	7.8	8.2	9.5	8.8	7.1	9.5
3	10.2	9.8	8.8	8.4	7.9	8.6	7.8	8.4	9.2	8.1	9.7	9.7
4	9.2	9.8	9.0	8.8	7.7	8.8	7.8	9.2	8.8	7.6	9.5	9.7
5	8.2	10.2	8.6	8.6	6.1	8.6	6.3	8.8	9.0	6.9	9.5	9.5
6	10.4	10.0	8.8	7.3	5.9	8.6	8.1	8.5	9.0	9.7	9.5	7.4
7	10.8	10.0	8.6	7.7	6.1	8.6	8.1	8.8	7.6	9.5	9.5	9.2
8	10.2	9.4	9.4	7.5	8.2	7.4	8.1	9.0	9.2	9.2	9.2	9.5
9	9.4	8.2	9.0	7.7	7.5	8.6	8.1	8.1	8.8	9.5	6.9	9.7
10	9.0	9.6	8.8	8.6	6.6	8.6	8.1	6.0	8.8	9.0	9.2	9.7
11	8.8	9.6	9.2	8.6	9.4	8.6	8.1	9.0	8.1	8.5	10.0	9.5
12	8.0	10.4	8.8	6.8	9.8	8.4	6.7	9.0	8.1	6.1	9.7	9.5
13	9.4	10.2	9.2	5.9	9.2	8.4	8.1	8.8	8.8	9.0	9.5	7.1
14	9.2	10.4	8.6	6.2	9.2	8.4	8.5	8.1	6.9	9.2	9.5	9.7
15	10.0	9.8	9.0	6.8	8.2	7.7	8.5	8.5	8.8	9.0	9.0	9.5
16	10.0	9.2	9.2	6.2	9.2	8.4	8.8	7.1	8.8	9.0	6.9	9.7
17	9.6	9.8	8.6	6.1	9.0	0	8.8	7.4	8.5	9.2	9.5	5.8
18	9.8	9.8	8.6	8.4	9.0	0	8.4	9.7	8.5	9.0	9.5	0
19	7.9	10.2	8.4	9.4	9.0	3.2	6.3	10.0	8.4	6.9	9.5	0
20	10.0	9.0	8.4	6.4	9.0	8.5	9.2	10.0	8.5	9.7	9.2	0
21	10.0	10.2	8.6	6.4	9.0	8.4	9.7	9.5	6.5	9.5	9.2	0
22	9.6	10.0	9.0	6.6	8.0	7.1	9.0	9.5	9.2	9.5	9.0	2.4
23	10.0	9.2	8.0	6.4	9.2	8.5	8.5	9.7	9.7	9.5	7.4	8.4
24	9.6	10.2	8.4	6.6	9.0	8.5	8.8	8.1	9.0	8.8	9.5	8.5
25	9.6	9.6	8.6	5.1	9.2	8.4	8.1	10.7	9.5	8.5	9.2	8.5
26	8.8	8.4	8.4	9.4	8.8	8.4	6.3	10.0	9.5	6.9	9.5	8.4
27	10.2	8.2	8.6	7.9	8.4	8.5	9.0	9.7	8.5	9.5	9.2	6.7
28	10.4	8.4	8.6	7.1	8.6	8.5	9.2	9.2	6.5	9.5	9.5	9.2
29	10.6	8.2	8.8	7.0	-	7.1	8.5	8.5	9.2	9.2	9.0	8.8
30	10.2	8.2	8.4	7.3	-	8.4	9.7	7.4	9.2	9.2	6.9	8.4
31	10.2	-	8.5	7.1	-	8.5	-	6.9	-	9.2	9.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	299.9	10.8	7.9	9.67	595
November	283.0	10.4	8.2	9.43	561
December	270.6	9.4	8.0	8.73	537
Calendar year 1941	3,278.0	11.0	4.9	8.98	6,500
January	228.6	9.4	5.1	7.37	453
February	233.5	9.6	5.9	8.34	463
March	236.2	8.8	0	7.62	468
April	246.5	9.7	6.3	8.22	489
May	270.6	10.7	6.0	8.73	537
June	259.6	9.7	6.5	8.65	515
July	272.0	9.7	6.1	8.77	540
August	279.3	10.0	6.9	9.01	554
September	223.5	9.7	0	7.45	443
Water year 1941-42	3,103.3	10.8	0	8.50	6,160

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

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 3½ miles southwest of Joseph.

Drainage area.- 31 square miles.

Records available.- April to September 1915, April 1924 to September 1942.

Average discharge.- 15 years (1927-42), 63.7 second-feet.

Extremes.- Maximum discharge during year, 377 second-feet May 23 (gage height, 2.74 feet); minimum, 16 second-feet Mar. 20, 24, 27 (gage height, 1.25 feet).
1915, 1924-42: Maximum discharge, 716 second-feet May 26, 1928 (gage height, 2.65 feet, site and datum then in use); minimum, 3.4 second-feet Feb. 10, 1938 (gage height, 0.91 foot).

Remarks.- Records good. No diversion above station.

Rating tables, water year 1941-42 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 15		Nov. 16 to May 22				May 23 to Sept. 30			
1.5	38	1.4	26	2.2	160	1.4	29	2.0	116
1.6	50	1.6	46	2.4	225	1.6	49	2.2	166
1.7	63	1.8	72	2.6	307	1.8	77	2.5	273
		2.0	108						

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	39	38	a30	28	22	25	69	126	302	81	37
2	46	38	74	a37	27	23	25	65	130	310	76	36
3	46	45	127	42	26	22	27	65	138	302	74	35
4	56	45	74	37	26	22	30	64	148	310	76	35
5	50	45	64	37	26	22	34	62	165	310	79	35
6	48	44	62	38	26	22	36	64	224	298	71	34
7	49	42	57	40	26	21	38	68	273	298	68	34
8	46	42	56	40	26	22	42	75	262	281	68	34
9	46	40	53	39	26	23	50	94	265	246	66	41
10	46	40	52	38	25	22	58	98	239	224	65	47
11	46	40	50	38	26	22	68	88	187	207	62	38
12	46	40	47	38	26	22	85	83	162	178	62	36
13	45	42	47	37	25	22	88	80	174	168	59	34
14	45	48	47	37	24	22	104	78	200	168	57	34
15	44	69	48	37	26	21	85	78	243	171	57	33
16	44	61	51	36	25	22	78	75	197	171	56	33
17	44	52	47	35	23	21	56	72	178	154	54	33
18	43	48	48	35	22	21	78	74	178	140	50	32
19	45	45	51	35	23	21	78	80	160	140	48	32
20	46	43	52	34	25	20	94	115	154	135	47	31
21	45	44	48	34	25	21	127	200	160	130	47	31
22	44	40	46	33	25	20	140	326	184	123	46	30
23	44	38	47	32	25	20	113	306	218	116	46	29
24	43	44	46	30	25	20	102	273	221	110	45	29
25	43	44	45	30	24	20	92	277	258	103	42	29
26	42	43	39	30	24	20	86	228	221	99	42	28
27	42	42	37	30	23	20	82	178	181	97	41	28
28	44	40	39	29	23	20	78	151	190	93	41	28
29	42	40	44	28	-	21	74	140	221	91	41	28
30	40	39	44	28	-	22	71	135	265	86	39	28
31	40	-	42	28	-	24	-	130	-	82	38	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	1,398	56	40	45.1	1.45	1.68	2,770
November	1,322	69	38	44.1	1.42	1.59	2,620
December	1,622	127	37	52.3	1.69	1.95	3,220
Calendar year 1941	24,106	265	15	66.0	2.13	28.92	47,800
January	1,072	42	28	34.6	1.12	1.29	2,130
February	701	28	22	25.0	.806	.84	1,390
March	663	24	20	21.4	.690	.80	1,320
April	2,174	140	25	72.5	2.34	2.61	4,310
May	3,891	326	62	126	4.06	4.67	7,720
June	5,922	273	126	197	6.35	7.10	11,750
July	5,643	310	82	182	5.87	6.77	11,190
August	1,744	81	38	56.3	1.82	2.09	3,460
September	992	47	28	33.1	1.07	1.19	1,970
Water year 1941-42	27,144	326	20	74.4	2.40	32.58	53,850

a No gage-height record; discharge computed on basis of weather records and records for Lostine River near Lostine and Bear Creek near Wallowa.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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 NW¼ sec. 34, T. 1 S., R. 45 E., 3½ 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 1942.

Average discharge.- 15 years (1912-13, 1928-42), 172 second-feet.

Extremes.- Maximum discharge during year, 1,280 second-feet May 23 (gage height, 5.48 feet); minimum, 25 second-feet Mar. 7 (gage height, 0.75 foot).
1912-14, 1915, 1925-41: Maximum discharge, 2,540 second-feet May 27, 1913; minimum, 10 second-feet Nov. 28-30, 1936.

Remarks.- Records good except those for periods of ice effect, which are poor. No large diversions above station. Flow regulated slightly by Minam Lake Reservoir.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	77	62	b53	50	36	65	188	358	988	139	46
2	96	73	125	b57	50	37	63	174	372	1,100	132	45
3	98	98	345	b59	*50	37	68	171	400	984	123	43
4	157	114	231	b53	51	36	82	168	442	1,150	126	42
5	130	102	202	b54	52	36	110	161	499	1,150	138	42
6	118	104	193	b55	51	36	114	168	661	979	116	42
7	116	92	171	b56	49	34	124	185	876	902	107	69
8	114	87	160	b56	49	36	134	223	826	801	101	77
9	106	84	147	57	49	40	157	294	662	675	96	78
10	105	82	138	56	48	49	197	318	794	598	90	97
11	104	81	127	58	48	46	231	276	601	566	86	76
12	107	78	116	59	47	*45	294	253	490	445	81	67
13	98	157	116	b57	46	43	307	233	526	410	75	62
14	95	107	110	b54	45	42	372	233	596	398	71	58
15	91	169	111	b55	47	41	312	231	762	398	67	52
16	90	195	127	b57	44	42	278	219	647	415	64	46
17	86	160	118	b58	b41	40	323	206	562	348	68	44
18	85	*141	116	b60	b38	39	278	201	571	303	62	42
19	92	133	130	62	40	39	269	219	484	276	59	40
20	a94	117	139	b60	40	37	305	314	460	257	56	38
21	95	117	124	b57	40	39	408	569	475	247	58	36
22	92	101	117	b58	41	39	481	970	553	253	56	34
23	89	b98	111	62	40	38	385	1,140	654	251	54	32
24	86	b96	105	58	40	36	321	979	696	223	56	31
25	85	95	98	58	40	37	282	966	832	206	54	31
26	83	92	b90	57	42	36	253	790	762	195	54	31
27	83	86	b92	58	42	37	229	595	613	185	54	30
28	89	84	b97	56	40	39	217	478	566	176	56	30
29	90	83	86	53	-	44	202	420	640	169	57	31
30	80	85	84	51	-	49	190	405	815	157	52	32
31	80	-	78	50	-	55	-	378	-	149	50	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,030	157	80	97.7	6,010
November	3,188	195	73	106	6,320
December	4,086	345	78	132	8,100
Calendar year 1941	63,766	832	33	175	126,500
January	1,754	62	50	56.6	3,480
February	1,260	52	38	45.0	2,500
March	1,240	55	34	40.0	2,460
April	7,051	491	63	235	13,990
May	12,125	1,140	161	391	24,050
June	18,401	878	358	613	36,500
July	15,356	1,150	149	495	30,460
August	2,460	139	50	79.4	4,880
September	1,424	97	30	47.5	2,820
Water year 1941-42	71,375	1,150	30	196	141,600

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942. 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.- 13 years (1929-42), 96.0 second-feet.

Extremes.- Maximum discharge during year, 886 second-feet May 22, from rating curve extended above 470 second-feet; maximum gage height, 2.71 feet May 22; minimum discharge, 8.4 second-feet Sept. 26-29 (gage height, 0.61 foot).

1915, 1924-42: 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 fair except those for periods of ice effect or no gage-height record, which are poor. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	46	60	b35	a42	a31	107	165	274	364	26	11
2	36	43	72	b42	a40	a30	114	165	287	364	24	11
3	38	65	172	b48	a44	a30	127	165	306	330	24	11
4	95	86	145	b44	a49	a29	143	165	316	316	24	11
5	76	82	136	b45	a48	a29	207	159	336	297	29	11
6	68	80	134	b46	a44	a29	225	172	386	265	24	10
7	67	72	114	b47	a38	a30	230	211	410	239	22	10
8	67	67	104	a48	a34	a33	235	250	392	212	21	9.6
9	62	65	97	a48	a33	a42	250	314	392	172	20	10
10	64	60	92	a50	*31	56	282	344	364	152	19	13
11	67	57	84	a48	a36	75	314	314	306	152	18	11
12	68	56	76	a48	a34	75	387	304	265	124	17	10
13	65	62	76	a47	a33	73	387	270	278	104	17	10
14	62	84	72	a46	a32	a70	436	255	306	93	16	9.6
15	60	152	72	a47	a35	a63	356	245	380	89	16	9.6
16	60	199	86	a47	a34	a59	314	230	342	104	14	9.2
17	59	175	88	a48	a31	a61	344	211	297	83	14	9.6
18	59	*158	95	a48	a28	*48	320	203	292	73	14	9.6
19	64	136	120	a49	a30	43	304	207	248	65	13	9.6
20	67	112	168	a47	a30	42	320	265	239	58	13	9.2
21	65	107	168	a46	a30	42	394	429	244	52	13	9.2
22	60	90	149	a45	a30	42	436	635	265	48	12	8.8
23	67	84	136	a46	a30	42	356	561	287	45	12	8.8
24	54	82	117	a44	a30	42	298	526	283	42	12	8.8
25	53	74	102	a45	a30	42	250	512	336	40	12	8.8
26	51	68	82	a52	a31	42	211	446	330	36	12	8.4
27	50	65	84	a54	a35	42	191	398	297	34	12	8.4
28	56	62	b88	a53	a33	42	179	320	283	32	13	8.4
29	53	60	78	a50	-	45	165	287	302	31	13	8.4
30	50	64	67	a47	-	56	159	283	336	29	12	8.8
31	47	-	60	a45	-	79	-	278	-	27	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,837	95	36	59.3	3,640
November	2,613	199	43	87.1	5,180
December	3,194	172	60	103	6,340
Calendar year 1941	39,191	458	13	107	77,720
January	1,455	54	35	46.9	2,890
February	975	49	28	34.8	1,930
March	1,464	79	29	47.2	2,900
April	8,041	436	107	268	15,950
May	9,289	635	159	300	18,420
June	9,379	410	239	313	18,600
July	4,072	364	27	131	8,080
August	520	29	12	16.8	1,030
September	291.8	13	8.4	9.73	579
Water year 1941-42	43,130.8	635	8.4	118	85,540

* Winter discharge measurement made on this day.

a No gage-height record; discharge computed on basis of weather records and records for Lostine River near Lostine and Hurricane Creek near Joseph.

b Stage-discharge relation affected by ice.

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Average discharge.- 13 years,(1929-42), 3,149 second-feet.

Extremes.- Maximum discharge during year, 19,500 second-feet May 26 (gage height, 10.02 feet); minimum, 497 second-feet Sept. 29 (gage height, 2.63 feet).
1929-42: 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 periods of ice effect, which are fair. No diversion.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,550	1,510	2,220	b1,400	1,290	1,000	2,600	5,680	9,320	5,920	1,170	651
2	1,730	1,480	2,370	b1,600	1,280	1,040	2,840	5,320	9,000	5,560	1,110	628
3	1,610	1,490	3,820	b1,800	1,250	1,100	3,100	5,100	9,980	5,210	1,060	604
4	2,520	2,010	3,640	b1,750	1,260	1,050	3,270	4,980	12,100	4,760	1,020	589
5	3,010	2,010	3,180	b1,700	1,310	1,060	4,330	4,760	11,800	4,540	992	575
6	2,440	2,370	3,100	b1,700	1,260	1,100	4,980	4,870	11,400	4,220	982	553
7	2,300	2,150	3,100	b1,750	1,240	1,090	5,320	5,320	12,500	3,820	954	546
8	2,370	2,010	2,840	b1,800	1,230	1,120	5,440	6,040	11,000	3,540	916	546
9	2,370	1,880	2,680	b1,850	1,240	1,400	5,680	7,220	11,400	3,270	898	567
10	2,300	1,810	2,760	b1,880	1,210	2,300	6,820	8,690	11,000	3,010	870	800
11	2,300	1,770	2,520	b1,800	1,200	2,440	8,380	7,940	9,650	3,100	834	723
12	2,220	1,770	2,440	1,720	1,220	2,300	11,400	7,640	8,380	2,840	808	635
13	2,150	1,880	2,370	1,620	1,180	2,080	12,500	7,080	7,500	2,520	782	604
14	2,080	2,920	2,440	1,510	1,160	1,940	12,900	7,080	7,500	2,370	774	628
15	2,010	4,120	2,370	1,450	1,150	1,780	11,800	7,360	9,000	2,220	774	651
16	2,010	5,680	2,520	1,610	1,160	1,680	9,650	7,220	9,980	2,220	748	604
17	2,010	4,870	2,600	1,690	898	1,610	9,320	6,950	8,080	2,220	723	620
18	1,940	4,220	2,520	*1,500	651	1,580	8,380	6,680	7,790	2,150	707	666
19	1,940	3,730	2,680	1,410	b900	1,510	8,080	6,550	7,940	1,940	682	643
20	2,010	3,270	3,730	b1,300	b1,100	1,440	8,690	6,820	7,220	1,880	666	604
21	1,940	3,100	3,730	b1,200	*b1,150	1,420	11,000	8,380	6,550	1,740	658	582
22	1,880	2,920	3,360	b1,200	b1,100	1,430	13,300	12,100	6,300	1,660	651	560
23	1,780	2,440	3,180	b1,300	b1,030	1,430	11,400	16,100	6,300	1,570	643	546
24	1,730	2,680	3,010	b1,350	b1,020	1,420	9,650	16,900	6,420	1,500	682	539
25	1,680	2,600	2,760	b1,350	b1,010	1,370	8,690	16,900	6,550	1,440	674	531
26	1,640	2,440	2,150	1,420	1,000	1,340	7,640	18,200	7,640	1,380	635	517
27	1,610	2,300	1,880	1,350	1,000	1,320	6,820	14,900	6,420	1,340	682	510
28	1,580	2,220	2,220	1,400	1,000	1,340	6,420	12,900	6,550	1,290	782	504
29	1,640	2,150	2,520	1,360	-	1,440	6,040	11,400	6,300	1,260	757	504
30	1,540	2,150	2,520	1,290	-	1,630	5,680	10,300	6,040	1,220	707	510
31	1,490	-	2,220	1,240	-	2,010	-	9,320	-	1,200	674	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	61,380	3,010	1,490	1,980	1.31	1.51	121,700
November	77,950	5,680	1,480	2,598	1.72	1.92	154,600
December	85,450	3,820	1,880	2,756	1.83	2.10	169,500
Calendar year 1941	954,129	14,500	372	2,614	1.73	23.48	1,892,000
January	47,300	1,880	1,200	1,526	1.01	1.16	93,820
February	31,499	1,310	651	1,125	.745	.78	62,480
March	46,770	2,440	1,000	1,509	.999	1.15	92,770
April	232,120	12,900	2,600	7,737	5.12	5.72	460,400
May	276,700	18,200	4,760	8,926	5.91	6.82	548,800
June	257,610	12,500	6,040	8,587	5.69	6.34	511,000
July	82,910	5,920	1,200	2,675	1.77	2.04	164,400
August	25,015	1,170	635	807	.534	.62	49,620
September	17,740	800	504	591	.391	.44	35,190
Water year 1941-42	1,242,444	18,200	504	3,404	2.25	30.60	2,464,000

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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 1942. March 1904 to November 1906, August 1910 to October 1911 at practically same site.
Average discharge.- 14 years (1928-42), 57.4 second-feet.
Extremes.- Maximum discharge observed during year, 416 second-feet Dec. 3 (gage height, 2.32 feet); minimum observed, 25 second-feet Aug. 22 and Sept. 5 (gage height, 0.60 foot).
1904-6, 1910-11, 1928-42: 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, which are poor. Gage read twice daily. Diversion for irrigation amounts to considerable percentage of low flow. No regulation.
Cooperation.- Gage-height record and one discharge measurement furnished by Washington Water Power Co.

Rating tables, water year 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 17				Apr. 18 to Sept. 30			
0.6	29	1.2	99	0.7	33	1.4	147
.7	38	1.4	134	.8	44	1.6	202
.8	47	1.6	177	.9	56		
.9	58	1.9	261	1.0	69		
1.0	71	2.2	368	1.2	103		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	35	41	68	62	43	73	82	144	54	31	28
2	34	36	g71	b67	*58	45	76	78	139	53	31	27
3	32	37	g345	b64	61	44	79	78	132	51	31	26
4	40	45	246	b63	69	45	81	93	125	48	31	26
5	36	39	160	b62	66	46	86	90	123	48	31	26
6	36	38	132	b61	64	45	94	90	113	48	31	26
7	36	37	117	b61	66	44	97	88	119	46	30	26
8	36	36	105	b61	63	44	97	103	109	44	30	26
9	36	36	96	b62	61	45	97	125	105	44	30	28
10	36	36	91	(*)b62	58	54	109	214	99	44	30	31
11	35	36	83	b61	58	63	115	226	97	44	30	30
12	36	36	79	57	56	63	136	205	92	41	30	29
13	36	36	73	54	54	66	139	173	86	42	29	29
14	35	g72	72	52	54	66	148	162	83	41	28	28
15	34	80	72	50	54	61	139	152	82	41	26	29
16	36	88	96	53	54	60	126	147	78	48	26	28
17	34	77	110	52	46	58	139	132	75	44	26	28
18	34	68	114	52	45	57	137	121	72	41	26	28
19	35	62	154	48	47	56	132	115	71	41	26	28
20	35	66	224	b45	50	55	123	111	68	39	26	27
21	35	54	194	b47	48	54	121	109	65	38	26	28
22	34	51	156	b52	47	55	137	123	62	37	26	28
23	34	48	134	53	43	66	134	176	61	36	26	28
24	34	47	119	50	47	56	119	173	58	35	26	26
25	34	46	104	50	47	54	107	173	66	34	27	27
26	34	45	90	61	44	53	103	176	74	35	26	27
27	34	43	83	80	45	52	96	154	66	34	28	27
28	38	43	84	63	45	54	90	142	62	34	30	28
29	38	42	81	58	-	54	90	130	60	33	30	28
30	36	42	77	57	-	55	83	130	67	33	30	28
31	36	-	71	56	-	61	-	137	-	33	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,091	40	32	35.2	2,160
November	1,446	88	35	48.2	2,870
December	3,674	345	41	119	7,290
Calendar year 1941	21,587	345	29	59.1	42,810
January	1,772	80	45	57.2	3,510
February	1,512	69	43	54.0	3,000
March	1,663	66	43	53.6	3,300
April	3,302	148	73	110	6,550
May	4,208	226	78	136	8,350
June	2,643	144	57	88.1	5,240
July	1,284	54	33	41.4	2,550
August	884	31	26	28.5	1,750
September	829	31	26	27.6	1,640
Water year 1941-42	24,308	345	26	66.6	48,210

* Winter discharge measurement made this day.
b Stage-discharge relation affected by ice.
g Computed from graph based on gage readings.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Average discharge.- 16 years, 13,780 second-feet.

Extremes.- Maximum discharge during year, 53,500 second-feet May 26; maximum gage height recorded, 14.2 feet Jan. 9 (ice jam); minimum discharge, 2,040 second-feet Sept. 30 (gage height, 2.51 feet).

1926-42: Maximum discharge, 172,000 second-feet Dec. 23, 1933 (gage height, 23.19 feet), from rating curve extended above 100,000 second-feet by logarithmic plotting; minimum, probably less than 500 second-feet Jan. 9, 1937, during period of ice effect.

Maximum stage known, 25.6 feet Jan. 5, 1928 (site and datum then in use), during severe ice jam.

Remarks.- Records excellent except those based on staff-gage readings, which are good, and those for period of ice effect, which are fair. Small diversions from lower tributaries; no regulation.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,480	5,410	h8,660	h7,220	6,600	5,050	h11,900	23,200	29,500	h18,500	4,590	2,820
2	5,170	h5,780	8,670	5,400	7,200	5,050	h15,800	25,000	28,200	h17,100	4,480	2,730
3	5,780	h5,660	h16,600	7,200	7,200	5,530	h15,800	22,600	27,500	h16,200	4,370	2,640
4	5,910	h6,290	h24,600	6,900	8,900	5,660	h15,800	22,600	28,800	h15,000	4,260	2,550
5	h11,200	7,710	h23,500	6,500	10,500	5,530	h17,500	24,300	30,900	h14,200	4,040	2,460
6	9,720	h8,070	h15,800	5,600	9,700	5,780	h21,400	22,600	29,500	h14,200	4,040	2,370
7	8,020	8,340	15,900	*6,200	8,600	5,780	h22,500	22,000	30,200	h12,600	4,040	2,280
8	8,340	h7,500	h14,200	6,400	8,000	5,910	h22,500	22,600	30,200	h11,900	3,920	2,280
9	9,010	h6,950	13,200	6,600	8,000	7,710	h22,500	24,300	28,200	10,800	3,720	2,280
10	8,670	6,570	12,800	7,300	8,000	h15,800	h25,800	29,500	30,900	10,400	3,620	2,460
11	8,020	6,440	12,400	7,700	8,000	h17,100	h28,700	32,300	h29,300	10,100	3,510	3,410
12	7,710	6,170	11,200	8,000	7,200	h17,100	h36,900	28,800	h26,300	11,600	3,310	3,510
13	7,710	6,170	10,800	7,200	7,410	h15,000	42,000	30,200	h23,000	9,720	3,210	2,920
14	7,560	h8,660	10,400	6,800	7,120	h13,000	45,200	27,500	h21,400	9,010	3,210	2,640
15	7,120	h16,200	h10,900	6,300	6,840	h11,200	48,400	30,200	h21,900	8,340	3,110	2,640
16	6,840	h25,800	h12,300	5,500	6,840	h10,200	40,500	32,300	h32,400	8,340	3,110	2,640
17	6,700	h23,000	h14,200	5,700	6,170	h9,580	36,700	28,800	h27,500	9,010	3,020	2,640
18	6,570	h18,500	h13,500	6,500	4,590	h8,960	35,200	26,200	h23,500	9,010	2,920	2,640
19	6,570	h15,800	h15,800	6,200	4,370	h8,660	30,900	25,000	h26,900	8,340	2,820	2,820
20	h6,950	h13,800	h20,400	5,700	5,290	h8,070	30,200	23,700	h24,600	7,410	2,820	2,640
21	h7,500	h12,300	h21,900	5,000	6,040	h7,780	33,800	25,600	h21,900	6,980	2,730	2,550
22	h6,820	h11,600	h18,500	4,500	6,040	h7,780	41,200	30,200	h20,900	6,570	2,640	2,460
23	6,300	h10,600	h16,600	5,000	*5,530	h8,070	41,200	40,500	h19,400	6,300	2,640	2,370
24	6,040	h8,960	h15,800	5,800	5,290	h7,780	36,200	46,800	h19,400	5,910	2,640	2,280
25	5,780	h9,900	h14,200	6,400	5,290	h7,500	31,600	46,000	h18,900	5,660	2,640	2,280
26	5,660	h9,900	h12,600	6,500	5,170	h7,080	29,500	49,300	h21,900	5,530	2,730	2,200
27	5,530	h9,270	h9,580	6,500	5,050	6,840	26,800	47,500	h20,900	5,410	2,640	2,200
28	5,410	h8,360	h8,960	7,100	5,050	6,700	25,000	42,000	h21,400	5,290	2,730	2,120
29	5,780	*8,340	h10,900	7,500	-	6,980	25,600	37,400	h21,900	5,050	3,020	2,120
30	6,300	8,020	h11,200	7,100	-	7,710	23,700	33,800	h19,400	4,940	3,020	2,040
31	5,660	-	h10,600	6,500	-	h9,270	-	30,200	-	4,700	2,920	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	214,830	11,200	4,480	6,930	0.724	0.83	426,100
November	306,070	25,800	5,410	10,200	1.07	1.19	607,100
December	436,970	24,600	8,660	14,100	1.47	1.70	866,700
Calendar year 1941	3,806,160	37,400	2,370	10,430	1.09	14.78	7,549,000
January	198,920	8,000	4,600	6,417	.671	.77	394,600
February	189,990	10,500	4,370	6,785	.709	.74	376,800
March	270,160	17,100	6,050	8,715	.911	1.05	535,900
April	879,800	48,400	11,900	29,330	3.06	3.42	1,745,000
May	953,100	49,300	22,000	30,750	3.21	3.70	1,890,000
June	756,700	32,400	18,900	25,220	2.64	2.94	1,501,000
July	294,120	18,500	4,700	9,488	.991	1.14	583,400
August	102,370	4,590	2,640	3,302	.345	.40	203,000
September	75,990	3,510	2,040	2,533	.265	.30	150,700
Water year 1941-42	4,679,020	49,300	2,040	12,820	1.34	18.18	9,280,000

* Winter discharge measurement made on this day.
h Computed from twice-daily staff-gage readings at Spalding Bridge, 2,300 feet above station.
Note.- Stage-discharge relation affected by ice Jan. 2 to Feb. 12.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. 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., 300 feet upstream from highway bridge at Kamiah and 6 miles downstream from South Fork.
Drainage area.- 4,850 square miles.
Records available.- August 1910 to September 1942.
Average discharge.- 32 years, 7,893 second-feet.
Extremes.- Maximum discharge during year, 37,100 second-feet May 26 (gage height, 12.10 feet); minimum, 1,050 second-feet Sept. 26-30 (gage height, 3.08 feet).
1910-42: Maximum discharge observed, 81,400 second-feet June 10, 1933 (gage height, 16.53 feet), 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 except those for period of ice effect, which are fair. Practically no diversion or regulation above station.
Cooperation.- Gage-height record collected in cooperation with U. S. Weather Bureau.

Rating table, water year 1941-42, except period of ice effect (gage height, in feet, and discharge, in second-feet)

3.0	960	5.0	4,250	9.0	18,100
3.3	1,320	5.5	5,390	10.0	23,400
3.6	1,730	6.0	6,740	11.0	29,600
4.0	2,350	7.0	9,970	12.0	36,400
4.5	3,240	8.0	13,700		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,960	3,240	4,920	3,240	2,800	2,350	5,770	14,500	19,100	11,800	2,520	1,370
2	3,630	3,240	4,800		3,000	2,520	7,030	14,500	18,100	11,400	2,440	1,330
3	3,530	3,140	8,610		3,000	2,780	7,330	12,900	19,100	10,700	2,290	1,280
4	4,920	3,940	9,620		3,500	2,690	7,480	14,500	21,200	9,970	2,210	1,230
5	7,030	4,250	7,800		4,360	2,690	9,280	14,500	21,700	9,620	2,130	1,200
6	5,770	4,800	7,180		3,830	2,870	11,000	13,300	20,600	8,940	2,130	1,160
7	5,150	4,580	7,330		3,630	2,690	12,200	13,300	22,300	8,120	2,060	1,140
8	5,270	4,140	6,600	3,750	3,530	2,960	12,200	14,100	20,600	7,480	1,960	1,110
9	5,150	3,940	6,040		3,830	3,830	12,200	15,800	20,100	6,840	1,860	1,150
10	4,920	3,730	6,040		3,630	6,170	14,100	19,600	21,700	6,310	1,820	1,410
11	4,800	3,630	5,900		3,430	6,450	16,700	18,600	19,600	6,450	1,740	a1,800
12	4,690	3,530	5,520		3,530	6,450	22,300	18,100	17,200	6,600	1,670	a1,600
13	4,690	3,730	5,270		3,140	5,520	25,200	17,600	15,400	5,770	1,630	a1,400
14	4,470	5,340	5,390		3,050	5,040	27,000	16,700	15,000	5,270	1,600	1,280
15	4,250	10,000	5,390		3,050	4,470	25,800	18,600	16,700	4,920	1,580	1,320
16	4,140	13,300	5,640		2,960	4,250	21,700	18,600	21,200	4,800	1,530	1,300
17	4,040	11,800	6,310		2,440	3,940	21,200	16,700	17,600	5,040	1,490	a1,310
18	4,040	9,620	5,900		1,850	3,830	19,100	15,800	16,200	4,920	1,450	a1,310
19	4,040	8,610	6,600		2,080	3,630	17,600	15,000	17,600	4,470	1,400	a1,300
20	4,250	7,480	8,280		2,600	3,430	18,100	14,500	15,800	4,140	1,380	a1,280
21	4,250	6,840	8,940		*2,780	3,340	21,200	16,700	14,500	3,940	1,330	a1,270
22	3,940	6,450	7,800		2,780	3,340	27,000	21,700	13,700	3,730	1,310	a1,230
23	3,730	5,520	7,330	3,000	2,520	3,430	23,400	29,600	13,300	3,530	1,320	a1,170
24	3,630	5,390	7,030		2,440	3,340	20,100	32,800	12,900	3,340	1,330	1,140
25	3,530	5,640	6,450		2,440	3,240	18,600	31,500	12,900	3,140	1,400	1,140
26	3,430	5,520	5,040		2,350	3,140	17,200	35,000	15,400	3,050	1,330	1,090
27	3,340	*5,040	4,140		2,330	3,050	15,800	29,600	13,700	2,960	1,320	1,060
28	3,240	4,800	4,580		2,330	3,050	14,500	26,400	13,700	2,870	1,490	1,060
29	3,730	4,690	5,270		-	3,240	15,400	22,900	13,300	2,690	1,620	1,050
30	3,530	4,690	5,520		-	3,630	14,100	21,200	12,500	2,600	1,530	1,060
31	3,240	-	4,920		-	4,360	-	19,100	-	2,520	1,420	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	131,330	7,030	2,960	4,236	0.873	1.01	260,500
November	170,630	13,300	3,140	5,687	1.17	1.30	338,400
December	196,160	9,620	4,140	6,328	1.30	1.50	389,100
Calendar year 1941	2,045,736	24,600	916	5,605	1.16	15.68	4,058,000
January	103,740	-	--	3,346	.690	.80	205,800
February	83,210	4,360	1,850	2,972	.613	.64	165,000
March	115,720	6,450	2,350	3,733	.770	.89	229,500
April	500,590	27,000	5,770	16,690	3.44	3.84	992,900
May	603,700	35,000	12,900	19,470	4.01	4.62	1,197,000
June	512,700	22,300	12,500	17,090	3.52	3.93	1,017,000
July	177,930	11,800	2,520	5,740	1.18	1.36	352,900
August	52,310	2,520	1,310	1,687	.348	.40	103,800
September	37,550	1,800	1,050	1,252	.258	.29	74,480
Water year 1941-42	2,685,560	35,000	1,050	7,358	1.52	20.58	5,326,000

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for North Fork of Clearwater River near Ahsahka.
Note.- Stage-discharge relation affected by ice Jan. 2 to Feb. 4 (no gage-height record Jan. 6-17; discharge computed on basis of weather records and records for North Fork of Clearwater River near Ahsahka).
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

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Lochsa River near Lowell, Idaho

Location.- Water-stage recorder, lat. 46°09', long. 115°35', in SW¼SE¼ 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 1¼ 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 1942.

Average discharge.- 13 years (1929-42), 2,393 second-feet.

Extremes.- Maximum discharge during year, 11,800 second-feet May 26 (gage height, 7.55 feet); minimum, 333 second-feet Sept. 29, 30 (gage height, 1.36 feet).
1929-42: 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 period of ice effect, which are fair. No diversion.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,180	1,160	1,760	1,330	946	739	1,810	4,410	5,920	3,660	835	448
2	1,300	1,140	1,960	1,450	995	782	1,960	4,220	5,570	3,480	790	434
3	1,240	1,190	4,120	1,600	956	826	2,030	3,930	5,920	3,230	756	415
4	2,240	1,570	3,840	1,500	975	756	2,240	3,840	6,510	2,990	730	397
5	2,450	1,560	3,320	1,400	1,020	756	2,830	3,750	6,990	2,910	705	391
6	1,960	1,680	3,070	1,350	966	773	3,070	3,840	6,390	2,750	756	379
7	1,900	1,520	2,990	1,400	937	756	3,230	4,020	6,990	2,520	689	373
8	1,960	1,410	2,680	1,400	946	808	3,400	4,410	6,270	2,310	665	373
9	1,900	1,360	2,520	1,500	975	1,020	3,660	5,130	6,270	2,100	641	379
10	1,840	1,310	2,520	1,500	928	1,800	4,220	6,030	6,510	1,960	618	543
11	1,820	1,280	2,310	1,400	908	1,670	5,350	5,460	6,030	2,100	595	508
12	1,780	1,280	2,310	1,350	928	1,560	7,740	5,250	5,350	2,030	572	467
13	1,760	1,370	2,100	1,300	890	1,450	7,990	4,920	4,710	1,780	550	428
14	1,670	2,520	2,170	1,200	853	1,360	9,040	4,920	4,510	1,650	543	415
15	1,620	3,570	2,170	1,180	880	1,240	8,250	5,460	5,570	1,540	543	409
16	1,570	4,310	2,310	1,150	862	1,190	6,990	5,240	6,750	1,580	529	403
17	1,560	3,660	2,380	1,200	625	1,130	6,510	4,820	5,570	1,640	508	409
18	1,560	3,150	2,310	1,100	618	1,120	5,800	4,610	5,240	1,590	494	434
19	1,510	2,830	2,450	*1,000	745	1,060	5,460	4,410	5,680	1,440	480	409
20	1,520	2,520	3,150	950	844	1,000	5,680	4,510	5,020	1,340	467	397
21	1,450	2,380	3,070	900	*826	995	7,240	5,460	4,510	1,270	460	385
22	1,370	2,240	2,750	900	826	1,020	8,770	6,990	4,220	1,190	454	373
23	1,310	1,900	2,680	1,000	764	a1,020	7,240	8,770	4,120	1,130	448	367
24	1,260	2,030	2,520	1,100	739	975	6,270	10,400	4,020	1,060	460	361
25	1,220	2,030	2,310	1,110	756	956	5,800	9,850	4,020	1,020	460	355
26	1,190	1,960	1,850	1,090	739	918	5,350	11,000	4,820	985	448	350
27	1,160	1,780	1,700	1,060	730	908	4,820	9,310	4,310	966	454	344
28	1,170	*1,700	1,960	1,110	739	946	4,610	8,250	4,410	946	487	339
29	1,330	1,690	2,100	1,080	-	1,000	4,610	7,240	4,120	899	501	333
30	1,200	1,700	2,100	975	-	1,170	4,310	6,510	3,840	862	480	333
31	1,130	-	1,780	918	-	1,410	-	6,030	-	844	460	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	48,130	2,460	1,130	1,553	1.32	1.52	95,460
November	59,800	4,310	1,140	1,993	1.69	1.88	118,600
December	77,260	4,120	1,700	2,492	2.11	2.44	153,200
Calendar year 1941	700,007	8,770	434	1,918	1.63	22.08	1,388,000
January	37,503	1,600	900	1,210	1.03	1.18	74,390
February	23,919	1,020	618	854	.724	.75	47,440
March	33,114	1,800	739	1,068	.905	1.04	65,680
April	156,280	9,040	1,810	5,209	4.41	4.93	310,000
May	182,980	11,000	3,750	5,903	5.00	5.77	362,900
June	160,160	6,990	3,840	5,339	4.52	5.05	317,700
July	55,772	3,660	844	1,799	1.52	1.76	110,600
August	17,578	835	448	567	.481	.55	34,870
September	11,951	543	333	398	.337	.38	23,700
Water year 1941-42	864,447	11,000	333	2,368	2.01	27.25	1,715,000

* Winter discharge measurement made on this day.
a No gage-height record; discharge computed on basis of records for Selway River near Lowell.
Note.- Stage-discharge relation affected by ice Jan. 2-24.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

South Fork of Clearwater River near Grangeville, Idaho

Location.- Staff gage, lat. 45°55', long. 116°01', in SE¼NW¼ 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 1942.
Average discharge.- 23 years (1912-16, 1923-42), 798 second-feet.
Extremes.- Maximum discharge observed during year, 4,670 second-feet Apr. 14 (gage height, 7.80 feet); minimum observed, 153 second-feet Sept. 8, 9, 28, 29 (gage height, 2.84 feet).
1910-16, 1923-42: Maximum discharge observed, 9,830 second-feet May 30, 1912 (gage height, 9.7 feet), from rating curve extended above 6,500 second-feet; practically no flow for parts of Aug. 24, 26, 1935.
Remarks.- Records good except those for periods of ice effect or missing or doubtful gage-height record, which are fair. 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 1941-42, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

2.8	142	4.0	649	6.0	2,270
3.0	199	4.5	960	7.0	3,490
3.3	307	5.0	1,340	8.0	4,990
3.6	441	5.5	1,780		

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	336	a441	678	350	a430	380	1,260	2,270	2,600	1,690	358	190
2	594	a441	706	380	441	394	1,340	2,270	2,600	1,510	349	187
3	516	441	1,100	400	441	390	1,600	2,270	2,490	1,510	320	175
4	1,030	622	960	390	441	372	1,690	2,380	2,490	1,340	315	175
5	1,030	568	765	380	466	394	2,070	2,720	2,380	1,260	320	164
6	860	568	a736	370	441	394	2,270	2,600	2,600	1,260	307	158
7	706	516	a707	400	441	418	2,490	2,600	2,600	1,100	291	158
8	706	a491	678	430	441	441	2,380	2,600	2,490	1,030	295	225
9	678	a466	678	450	441	466	2,490	2,720	2,490	960	276	153
10	622	441	706	450	418	622	2,720	2,720	2,720	892	268	209
11	594	441	594	440	441	736	3,220	2,840	2,490	926	250	315
12	a581	418	678	430	441	827	3,490	2,960	2,380	960	243	219
13	568	441	a678	410	418	765	3,770	2,720	2,270	827	225	184
14	516	649	a678	400	441	678	4,670	2,960	2,170	765	229	187
15	490	1,180	678	370	418	622	3,910	3,090	2,600	706	219	212
16	490	1,690	736	400	400	568	3,490	2,960	2,960	736	219	184
17	466	1,340	765	410	230	594	3,490	2,960	2,490	765	212	178
18	a460	1,180	736	400	220	568	3,350	2,720	2,270	622	209	246
19	a460	1,030	706	*390	320	541	3,220	2,720	2,720	649	202	254
20	678	926	a1,000	350	*375	490	2,960	2,600	2,600	622	193	225
21	d600	860	a900	350	380	490	2,960	2,840	2,170	568	196	222
22	516	a800	765	370	380	516	3,490	3,090	2,070	541	193	193
23	490	a740	706	435	362	541	3,220	3,770	2,070	490	181	169
24	466	678	765	480	362	490	2,720	4,360	1,970	466	187	169
25	a450	796	649	480	367	490	2,720	4,060	1,880	466	193	169
26	a434	765	441	441	354	441	2,600	3,910	2,270	441	187	169
27	418	*649	d350	466	394	418	2,490	3,220	2,070	418	175	169
28	441	649	a450	568	390	490	2,270	2,960	1,970	394	264	153
29	541	a640	594	490	-	541	2,490	2,960	1,880	390	276	153
30	516	a650	594	466	-	649	2,270	2,840	1,780	376	219	158
31	441	-	500	a440	-	892	-	2,720	-	380	209	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	17,694	1,030	336	571	0.660	0.76	35,100
November	21,517	1,690	418	717	.829	.93	42,680
December	21,677	1,100	350	699	.808	.93	43,000
Calendar year 1941	269,540	3,770	147	738	.853	11.57	534,700
January	12,986	568	350	419	.484	.56	25,760
February	11,094	466	220	396	.458	.48	22,000
March	16,618	892	372	536	.620	.71	32,960
April	83,110	4,670	1,260	2,770	3.27	3.57	164,800
May	90,410	4,360	2,270	2,916	3.37	3.89	179,300
June	70,540	2,960	1,780	2,351	2.72	3.03	139,900
July	25,060	1,690	376	808	.934	1.08	49,710
August	7,580	358	175	245	.283	.33	15,030
September	5,722	315	153	191	.221	.25	11,350
Water year 1941-42	384,008	4,670	153	1,052	1.22	16.52	761,600

* Winter discharge measurement made on this day.
a No gage-height record; discharge interpolated or computed on basis of records for nearby stations.
d Doubtful gage-height record; discharge computed on basis of records for nearby stations.
Note.- Stage-discharge relation affected by ice Dec. 31 to Jan. 23, Feb. 16-22.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

North Fork of 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 1942.
Average discharge.- 16 years, 5,217 second-feet.
Extremes.- Maximum discharge during year, 23,000 second-feet Apr. 14 (gage height, 15.56 feet), caused by breaking of log jam upstream; minimum, 940 second-feet Sept. 30 (gage height, 2.50 feet).
1926-42: 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 periods of ice effect or no gage-height record, which are fair. No diversion or regulation above station.

Rating table, water year 1941-42, except period of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Apr. 14				Apr. 15 to Sept. 30			
3.3	1,490	7.0	5,780	2.5	940	7.0	5,460
3.6	1,730	8.0	7,210	3.0	1,250	8.0	6,830
4.0	2,080	10.0	10,400	3.5	1,590	9.0	8,300
4.5	2,590	12.0	14,200	4.0	2,000	10.0	9,930
5.0	3,160	14.0	18,800	5.0	3,000	12.0	13,600
6.0	4,430			6.0	4,170	14.0	17,900

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,490	1,860	3,040	3,000	2,380	2,040	5,080	7,700	7,850	5,100	1,830	1,220
2	1,690	1,940	3,980	3,200	2,590	2,080	6,060	7,550	7,550	4,940	1,750	1,180
3	1,690	1,940	11,500	3,600	2,640	2,180	6,060	7,110	7,400	4,680	1,710	1,150
4	2,280	2,640	10,600	3,500	2,810	2,130	6,060	6,830	7,250	4,420	1,670	1,120
5	3,400	2,760	8,450	3,500	3,520	2,040	7,060	6,830	7,110	4,170	1,630	1,120
6	2,480	2,920	7,510	3,350	3,400	2,080	7,810	6,830	6,970	4,050	1,710	1,090
7	2,280	2,700	7,060	3,200	3,100	2,040	8,290	6,830	a7,200	3,810	1,630	1,060
8	2,980	2,430	6,340	3,200	3,040	2,040	8,450	7,110	a7,000	3,570	1,560	1,060
9	3,280	2,330	5,780	3,700	3,160	2,480	8,770	7,850	a7,000	3,450	1,520	1,090
10	2,920	2,280	5,500	3,850	3,100	5,360	10,100	8,940	a7,400	3,220	1,480	1,250
11	2,700	2,180	5,220	3,950	2,920	5,360	11,200	8,940	7,110	3,450	1,450	1,750
12	2,590	2,130	4,820	3,700	2,920	5,220	14,000	8,460	6,410	3,930	1,420	1,420
13	2,640	2,180	4,430	3,200	2,760	4,820	14,400	8,300	5,850	3,220	1,380	1,220
14	2,480	5,010	4,430	3,000	2,590	4,430	16,800	8,000	5,590	3,000	1,380	1,150
15	2,330	7,360	4,560	2,600	2,640	3,910	16,100	9,100	6,270	2,840	1,380	1,120
16	2,280	9,430	5,080	2,300	2,590	3,650	13,600	8,780	8,300	3,000	1,350	1,120
17	2,230	7,660	5,640	*2,530	2,180	3,400	12,400	8,000	6,970	3,450	a1,310	1,120
18	2,230	6,060	5,500	2,900	1,650	3,280	11,300	7,550	6,550	3,220	a1,290	1,120
19	2,180	5,220	6,480	2,700	1,940	3,100	10,400	7,400	7,400	2,840	a1,270	1,150
20	2,330	4,560	8,770	2,430	2,330	2,920	10,600	7,250	6,830	2,620	a1,250	1,090
21	2,230	4,170	8,610	2,080	2,430	2,860	11,500	7,850	6,270	2,520	1,220	1,060
22	2,230	3,910	7,510	2,040	*2,380	2,980	14,200	8,940	a6,000	2,370	1,220	1,060
23	2,040	3,400	6,910	2,330	2,180	3,160	a13,000	10,600	a5,400	2,270	1,180	1,030
24	1,990	3,160	6,340	2,810	2,080	2,920	a12,000	11,500	a5,200	2,180	1,180	1,030
25	1,900	3,280	5,780	2,810	2,080	2,810	a11,000	11,500	h5,200	2,140	1,180	1,030
26	1,900	3,280	a5,000	2,700	2,080	2,700	a10,000	12,100	a6,500	2,040	1,220	1,000
27	1,860	3,040	a4,000	2,590	2,040	2,690	a9,500	11,500	a6,000	2,090	1,250	960
28	1,810	2,860	a4,500	2,980	2,040	2,640	a9,000	10,600	a6,200	2,040	1,280	960
29	1,990	*2,810	a5,000	2,860	-	2,810	a8,500	9,420	a5,600	1,960	1,280	960
30	2,080	2,810	a5,500	2,590	-	3,160	8,000	8,620	a5,300	1,870	1,250	960
31	1,810	-	a5,000	2,430	-	3,910	-	8,150	-	1,830	1,220	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	70,320	3,400	1,490	2,268	0.930	1.07	139,500
November	108,310	9,430	1,860	3,610	1.48	1.65	214,800
December	188,840	11,500	3,040	6,092	2.50	2.88	374,600
Calendar year 1941	1,409,320	11,500	-	3,861	1.58	21.47	2,795,000
January	91,630	3,950	2,040	2,956	1.21	1.40	181,700
February	71,470	3,520	1,650	2,552	1.05	1.09	141,800
March	97,100	5,360	2,040	3,132	1.28	1.48	192,600
April	311,240	16,800	5,080	10,370	4.25	4.74	617,300
May	266,140	12,100	6,830	8,585	3.52	4.06	527,900
June	197,680	8,300	5,200	6,589	2.70	3.01	392,100
July	96,290	5,100	1,830	3,106	1.27	1.47	191,000
August	43,450	1,830	1,180	1,402	.575	.66	86,180
September	33,650	1,750	960	1,122	.460	.51	66,740
Water year 1941-42	1,576,120	16,800	960	4,318	1.77	24.02	3,126,000

* 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.
h Computed from staff-gage reading.
Note.- Stage-discharge relation affected by ice Jan. 1-19.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

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 1942.

Extremes.- 1940-41: Maximum discharge during period December to September, 89 second-feet (revised) Feb. 27 (gage height, 2.83 feet, corrected datum); minimum not determined, probably occurred during periods of ice effect.
1941-42: Maximum discharge during year, 111 second-feet May 4; maximum gage height, 3.24 feet Mar. 9 (ice jam); minimum daily discharge, 0.1 second-foot Sept. 22, 25-30.

Remarks.- Records good except those for periods of ice effect and those below 1 second-foot, which are poor.

Cooperation.- Records collected in cooperation with Bureau of Reclamation during water year 1941. Ten discharge measurements for water year 1941 and one for water year 1942 were furnished by this organization.

Revisions.- Revised figures of discharge for period December 1940, to September 1941, superseding those published in Water-Supply Paper 933, are given herein.

Discharge, in second-feet, 1940-42

1940-41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					(*)	30	9.5	6.4	26	17	1.4	0.7
2						23	21	5.8	20	16	1.2	.7
3						16	16	6.9	22	15	1.1	.8
4						12	14	6.4	17	16	1.1	.8
5					b1.5	9.9	14	12	16	11	1.1	.9
6						9.9	11	7.6	14	9.5	.9	.9
7						9.5	9.9	6.9	34	9.1	.8	.6
8						9.9	9.1	11	43	7.6	.8	.5
9						8.7	9.5	7.2	27	6.4	.7	.5
10				b1.0		8.0	19	6.1	21	5.8	.7	.6
11			(*)			7.6	24	5.3	18	5.3	.7	.6
12						b6.0	19	5.3	16	4.8	1.1	.8
13						b6.0	17	6.9	18	4.3	1.0	.8
14						*b6.0	14	5.6	14	3.9	.7	.8
15			b1.0		b2.5	*6.1	12	4.8	19	3.5	.7	1.7
16						5.8	12	5.0	17	3.1	.7	1.1
17			(*)			6.4	12	9.1	27	2.9	.5	.7
18						6.9	9.9	7.2	25	2.9	.5	1.1
19						6.4	8.7	5.6	44	2.9	.5	2.0
20						6.1	8.0	5.0	27	4.3	.5	1.4
21						5.8	6.9	4.5	21	2.5	.5	1.1
22						6.7	6.4	4.1	18	2.3	.5	.9
23						7.2	6.1	3.7	16	2.1	.6	.8
24					b6.0	6.1	5.8	3.7	14	2.1	.7	.7
25			b3.0			5.8	5.6	4.1	13	1.9	.8	.7
26				b2.0		6.4	5.0	3.9	12	1.8	1.4	.7
27					*20	6.4	6.1	6.9	11	2.0	1.7	.7
28					37	6.4	4.8	5.8	21	3.3	1.1	.7
29					-	8.3	4.3	8.3	53	2.3	1.0	.6
30					-	17	4.1	25	21	1.7	2.0	.7
31					-	11	-	26	-	1.5	1.1	-

* Winter discharge measurement made on this day.
b Stage-discharge relation affected by ice.

Discharge, in second-feet, of Mission Creek near Winchester, Idaho, 1940-42--Continued

1941-42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	2.1	6.1		1.9	1.1	54	17	19	4.3	0.8	0.3
2	1.2	1.9	9.9		1.9	1.4	44	15	16	3.9	.7	.3
3	1.3	2.9	14		2.0	1.4	40	16	15	3.7	.7	.2
4	4.3	3.5	8.6		2.4	1.3	40	56	15	3.3	.6	.2
5	2.4	2.7			2.7	1.3	48	50	14	4.3	.5	.2
6	1.8	2.4			2.3	1.3	48	35	12	3.1	.5	.2
7	2.1	2.5			2.3	1.4	42	30	15	2.7	.5	.2
8	2.3	2.5		a2.5	2.1	b1.5	37	28	12	2.7	.4	.2
9	2.1	2.1	b5.0		2.1		33	30	16	2.7	.4	.2
10	1.8	2.0			b2.0		30	58	13	2.4	.3	.7
11	1.7	2.1			2.0		28	60	14	3.1	.3	.4
12	2.3	2.0			2.0		36	50	11	2.4	.3	.2
13	2.3	2.5			b2.0	b7.0	26	42	9.9	2.1	.3	.2
14	1.9	8.2	5.3		b2.0		48	36	9.2	1.9	a.3	.2
15	1.7	28	5.8	*2.4	1.9		37	60	14	1.9	a.3	.2
16	1.5	14	b6.0				28	68	9.6	4.1	a.3	.2
17	1.5	11	b6.5				40	48	8.6	2.7	a.2	.3
18	1.4	9.2	6.9			7.2	30	39	11	2.0	a.2	.3
19	1.4	8.6	18		b1.5	7.5	26	34	9.6	1.8	a.2	.3
20	1.7		22			b7.0	22	31	8.2	1.5	.2	.2
21	1.4	b7.0	14	a2.5		b7.0	20	26	7.5	1.4	.2	.2
22	1.3		11		1.8	7.2	27	24	6.7	1.2	.2	.1
23	1.2		9.9		*1.5	7.9	21	53	6.4	1.1	.2	.2
24	1.2		9.2		1.5	b7.0	19	27	6.1	1.1	.3	.2
25	1.1	6.4			1.4	*b6.0	23	24	8.2	1.1	.2	.1
26	1.1			*2.0	1.2	b6.0	20	27	8.9	1.0	.3	.1
27	1.1	a6.5	b5.0	3.1	1.2	b6.0	17	24	8.2	1.0	.3	.1
28	2.0			3.3	1.1	11	16	29	6.9	1.0	.4	.1
29	3.3			2.3	-	18	18	23	5.8	.9	.5	.1
30	2.0	*6.7		2.3	-	31	15	22	5.0	.9	.3	.1
31	1.9	-		2.0	-	36	-	20	-	.8	.3	-

* 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 streams.
b Stage-discharge relation affected by ice.

Monthly discharge, in second-feet, 1940-42

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November	-	-	-	-	-
December 11-31, 1940	45.0	-	-	2.14	89
Calendar year	-	-	-	-	-
January 1941	42.0	-	-	1.35	83
February	133.0	37	-	4.75	264
March	287.3	30	5.8	9.27	570
April	324.7	24	4.1	10.8	644
May	232.1	26	3.7	7.49	460
June	665	53	11	22.2	1,320
July	174.8	17	1.5	5.64	347
August	28.1	2.0	.5	.91	56
September	25.6	2.0	.5	.85	51
The period	-	-	-	-	3,880
October 1941	55.4	4.3	1.1	1.79	110
November	184.3	28	1.9	6.14	366
December	233.2	22	-	7.52	463
Calendar year 1941	2,443.2	67	-	6.69	4,840
January 1942	77.4	3.3	-	2.50	154
February	50.3	2.7	1.1	1.80	100
March	238.5	36	1.1	7.69	473
April	933	54	15	31.1	1,850
May	1,102	68	15	35.5	2,190
June	321.8	19	5.0	10.7	638
July	68.1	4.3	.8	2.20	135
August	11.2	.8	.2	.36	22
September	6.5	.7	.1	.22	13
Water year 1941-42	3,281.7	68	.1	8.99	6,510

Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

South Fork of Palouse River at Pullman, Wash.

Location.- Water-stage recorder and 6-foot Cippoletti weir in low overflow dam, lat. 46°43'50", long. 117°11'00", in NE¼ sec. 6, T. 14 N., R. 45 E., at State Street crossing in Pullman, 600 feet upstream from Missouri Flat Creek.

Drainage area.- 132 square miles.

Records available.- February 1934 to September 1942 (discontinued).

Extremes.- Maximum discharge during year, 780 second-feet Jan. 27 (gage height, 3.98 feet); minimum, 0.1 second-foot Sept. 23.
1934-42: Maximum discharge, 968 second-feet Mar. 21, 1939 (gage height, 4.01 feet); minimum, that of Sept. 23, 1942.

Remarks.- Records fair except those for period of no gage-height record, which are poor. No important diversions. Slight regulation by Robinson Park Dam on headwaters and by Moscow sewage-disposal plant on Paradise Creek.

Discharge, in second-feet, water year October 1941 to September 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	2.3	4.4	11	298	33	40	19	20	4.0	0.7	a0.3
2	1.5	2.3	23	9.5	162	57	32	20	16	3.5	.9	a.3
3	1.8	2.8	160	10	137	57	30	f18	13	3.2	.9	a.3
4	3.0	3.4	36	10	399	53	31	f15	12	2.8	.7	a.3
5	3.4	2.8	20	9.5	225	60	27	f12	11	2.5	.6	a.3
6	2.5	2.7	73	8.8	145	39	25	11	9.7	2.3	.5	a.3
7	2.5	2.5	54	8.4	118	34	21	9.5	12	2.4	.5	.4
8	2.4	2.3	25	8.8	120	36	20	9.3	13	2.3	.5	.4
9	2.0	2.2	18	8.8	127	63	20	12	11	2.3	.4	.6
10	2.0	1.9	16	9.3	93	93	20	31	9.7	2.0	.5	.7
11	1.8	2.0	13	9.7	100	87	18	24	8.6	2.2	.4	.7
12	1.9	2.7	12	10	62	97	18	20	7.4	2.4	.5	.7
13	f2.0	7.9	11	10	57	68	17	27	6.8	2.2	.5	.6
14	f2.0	26	20	10	62	91	23	20	6.0	2.2	.5	.6
15	1.9	30	45	10	75	79	20	18	6.6	2.0	.5	.5
16	2.0	26	168	9.7	57	115	17	17	7.0	3.1	.5	.6
17	2.0	15	164	9.5	21	104	37	16	6.2	2.8	.5	.5
18	1.9	10	262	9.7	20	123	24	13	6.2	1.9	.4	.3
19	2.0	8.4	292	10	19	97	17	12	6.8	1.9	.7	.3
20	2.0	6.8	180	9.7	18	74	16	11	6.2	1.5	.6	.4
21	2.2	5.8	91	9.5	21	72	15	10	5.2	1.3	.6	.4
22	2.2	5.2	74	9.7	21	64	15	9.5	4.7	1.2	.5	.5
23	2.2	4.7	77	11	18	56	14	10	4.4	1.1	.5	.4
24	2.2	4.4	53	20	19	48	13	12	4.2	1.0	.4	.3
25	2.4	4.9	32	67	21	45	14	12	4.9	1.0	.4	.4
26	2.3	5.1	17	75	20	38	14	49	6.6	.9	a.7	.6
27	2.2	4.7	16	484	24	37	13	32	6.8	.9	a.7	.6
28	2.4	4.5	14	186	23	34	13	21	6.4	.8	a.7	.8
29	2.7	4.4	13	85	-	30	21	17	5.8	.8	a.7	.8
30	2.4	4.5	13	49	-	27	21	27	4.7	.8	a.7	.9
31	2.3	-	13	49	-	26	-	20	-	.8	a.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	67.8	3.4	1.5	2.19	0.017	0.02	134
November	208.2	30	1.9	6.94	.053	.06	413
December	2,009.4	292	4.4	64.8	.491	.57	3,990
Calendar year 1941	11,531.0	498	-	31.6	.239	3.25	22,880
January	1,237.6	484	8.4	39.9	.302	.35	2,450
February	2,482	399	18	88.6	.671	.70	4,920
March	1,937	123	26	62.5	.473	.55	3,840
April	626	40	13	20.9	.158	.18	1,240
May	554.3	49	9.3	17.9	.136	.16	1,100
June	248.9	20	4.2	8.30	.063	.07	494
July	60.1	4.0	.8	1.94	.015	.02	119
August	17.9	.9	.4	.58	.0044	.005	36
September	14.8	.9	-	.49	.0037	.004	29
Water year 1941-42	9,464.0	484	-	25.9	.196	2.69	18,760

a No gage-height record; discharge computed on basis of recorded range in stage, weather records, and records for Asotin Creek near Asotin.
f Discharge computed on basis of partly estimated gage heights.
Time basis: Pacific standard time prior to 2 a.m., Feb. 9, 1942; Pacific war time thereafter. To convert war time to standard time, subtract 1 hour.

In addition to the records of stream flow obtained at gaging stations and reported in the preceding pages, measurements of flow were made at the points in the Snake River Basin indicated in the following table:

Miscellaneous discharge measurements in Snake River Basin during water year October 1941 to September 1942

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
Snake River main stem, Idaho				
Mar. 5	Snake River	Columbia River	NW¼ 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.	7,140
Apr. 10	do	do	do	5,700
22	do	do	do	10,300
24	do	do	do	14,400
25	do	do	do	18,200
June 8	do	do	do	5,770
July 16	do	do	do	5,640
Aug. 24	do	do	do	6,040
Big Lost River Basin, Idaho				
Mar. 9	Big Lost River	Snake River	Sec. 18, T. 3 N., R. 27 E., 1,000 feet southeast of Mower Ranch house, 600 feet northwest of mouth of canyon, and 3 miles southeast of Arco.	28.0
Apr. 23	do	do	do	196
June 13	do	do	do	187
July 29	do	do	do	23.9
Aug. 10	do	do	do	18.4
Tributaries between Portneuf River and Salmon Falls Creek, Idaho				
Oct. 11	Blue Lakes Outlet	Snake River	SW¼SW¼ sec. 28, T. 9 S., R. 17 E., at mouth, 4 miles north of Twin Falls.	218
Dec. 16	do	do	do	217
Mar. 7	do	do	do	212
June 14	do	do	do	210
July 21	do	do	do	210
Aug. 23	do	do	do	214
Sept. 29	do	do	do	251
Big Wood River Basin, Idaho				
May 23	Broadford Slough	Big Wood River	Sec. 26, T. 2 N., R. 18 E., 100 feet below diversion No. 36 and 1½ miles northwest of Bellevue.	21.8
June 19	do	do	do	10.4
20	do	do	do	14.9
Aug. 6	do	do	do	8.61
Sept. 7	do	do	do	5.76
7	do	do	do	5.71
June 20	do	do	Sec. 26, T. 2 N., R. 18 E., above diversion No. 36, 1½ miles northwest of Bellevue.	3.43
May 23	Rockwell bypass canal.	Broadford Slough	Sec. 22, T. 2 N., R. 18 E., at head, 2 miles southeast of Hailey.	25.1
June 19	do	do	do	17.1
20	do	do	do	15.8
Aug. 6	do	do	do	17.4
Sept. 7	do	do	do	7.92
May 23	do	do	Sec. 22, T. 2 N., R. 18 E., below gate No. 34, 2.1 miles southeast of Hailey.	25.1
23	do	do	Sec. 26, T. 2 N., R. 18 E., at outlet, 1⅛ miles northwest of Bellevue.	24.4
June 19	do	do	do	2.27
20	do	do	do	15.4
Aug. 6	do	do	do	11.4
Sept. 7	do	do	do	7.09
May 23	Diversion No. 34	Rockwell bypass canal.	Sec. 22, T. 2 N., R. 18 E., 200 feet below wasteway, 2.1 miles southeast of Hailey.	0
June 19	do	do	do	0
20	do	do	do	0
Aug. 6	do	do	do	4.73
May 23	Diversion No. 34-A	do	Sec. 22, T. 2 N., R. 18 E., at headgate, 2.6 miles southeast of Hailey.	0
June 19	do	do	do	0
20	do	do	do	0
Aug. 6	do	do	do	†.04
May 23	Diversion No. 34-B	do	Sec. 27, T. 2 N., R. 18 E., at headgate, 2 miles northwest of Bellevue.	0
June 19	do	do	do	0
20	do	do	do	0
Aug. 6	do	do	do	0
May 23	Diversion No. 36	Broadford Slough	Sec. 26, T. 2 N., R. 18 E., at headgate, 1⅛ miles northwest of Bellevue.	2.27
June 19	do	do	do	4.40
20	do	do	do	3.74
Aug. 6	do	do	do	2.39
Sept. 7	do	do	do	.26

† Estimated.

Miscellaneous discharge measurements in Snake River Basin during water year October 1941 to September 1942--Continued

Salmon Falls Creek Basin, Nev.

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
Apr. 11	Shoshone Creek	Salmon Falls Creek.	Sec. 23, T. 47 N., R. 64 E., at mouth, 5 miles north of San Jacinto.	502

Tributaries and diversions between Big Wood River and Owyhee River, Idaho

Apr. 21	Ake Lateral No. 2	Mountain Home feeder canal.	Sec. 36, T. 2 S., R. 6 E., at head, 5 miles north of Mountain Home.	6.28
July 17	....do	....do	....do	†2.0
23	....do	....do	....do	2.65
Aug. 25	....do	....do	....do	2.21

† Estimated.

Boise River Basin, Idaho

May 12	South Fork of Boise River.	Boise River	NE¼ sec. 5, T. 2 N., R. 10 E., above backwater line of Anderson Ranch reservoir, 6 miles north of Pine.	1,300
15	....do	....do	....do	1,250
Aug. 17	....do	....do	....do	219
27	....do	....do	....do	204
May 15	....do	....do	NW¼ sec. 14, T. 1 S., R. 8 E., below Anderson Ranch reservoir, 500 feet below Dixie Creek, and 2½ miles northwest of Bennett.	1,660
Aug. 18	....do	....do	....do	235
27	....do	....do	....do	235
27	....do	....do	....do	231
May 15	Dog Creek	South Fork of Boise River.	NE¼ sec. 7, T. 2 N., R. 10 E., at highway crossing, 4½ miles north of Pine.	30.8
14	Deer Creek	....do	SW¼ sec. 32, T. 2 N., R. 10 E., 300 feet below road crossing and ¼ mile east of Pine.	21.0
Aug. 17	....do	....do	....do	†.25
May 14	Lime Creek	....do	SW¼ sec. 17, T. 1 N., R. 10 E., at road crossing, 1,000 feet above mouth and 3 miles south of Pine.	157
Aug. 17	....do	....do	....do	12.0
27	....do	....do	....do	12.2
May 14	Fall Creek	....do	Sec. 9, T. 1 N., R. 9 E., 1½ miles above Castle Creek, 2 miles above mouth, and 5 miles southwest of Pine.	125
Aug. 17	....do	....do	....do	17.0
27	....do	....do	....do	14.1
26	Diversion No. 2	....do	Sec. 7, T. 1 N., R. 10 E., on right bank, 2.2 miles south of Pine.	2.99
26	Diversion No. 3	....do	Sec. 31, T. 2 N., R. 10 E., at head on right bank, ½ mile north of Pine.	21.3
26	....do	....do	Sec. 6, T. 1 N., R. 10 E., at tail on right bank, 1 mile south of Pine.	9.77
27	Diversion No. 4	....do	Sec. 6, T. 1 N., R. 10 E., on left bank, 1 mile south of Pine.	7.47
May 22	Cottonwood Gulch	Boise River	SE¼SW¼ sec. 2, T. 3 N., R. 2 E., on U. S. Military Reservation, 1 mile east of Boise post office.	13.8
23	....do	....do	...do	7.99
23	....do	....do	...do	44.1

† Estimated.

Malheur River Basin, Oreg.

Sept. 27	North Fork of Malheur River.	Malheur River	NE¼ sec. 17, T. 21 S., R. 38 E., at former gaging station at Juntura.	39.6
Apr. 7	Warmsprings Creek	North Fork of Malheur River.	SE¼ sec. 1, T. 19 S., R. 37 E., near Beulah.	123
May 29	....do	....do	....do	16.2

Weiser River Basin, Idaho

Oct. 10	Weiser River	Snake River	Sec. 2, T. 19 N., R. 1 W., below Price Valley dam site, 3½ miles northwest of Tamarack.	4.49
Nov. 16	....do	....do	....do	12.9
Jan. 21	....do	....do	....do	7.25
Feb. 20	....do	....do	....do	7.78
Mar. 24	....do	....do	....do	11.0
May 17	....do	....do	....do	49.2
June 13	....do	....do	....do	21.0
July 29	....do	....do	....do	5.75
Aug. 19	....do	....do	....do	4.60
Sept. 20	....do	....do	....do	3.45
Oct. 7	North Fork of Hornet Creek.	Hornet Creek	Sec. 14, T. 17 N., R. 2 W., ¼ mile above mouth and 5½ miles west of Fruitvale.	.69
Nov. 15	....do	....do	....do	2.91
Dec. 12	....do	....do	....do	4.28
Oct. 8	Johnson Park Creek	Johnson Creek	SE¼ sec. 36, T. 17 N., R. 3 W., at mouth, 10 miles northwest of Council.	.51
Mar. 14	....do	....do	....do	.80
20	....do	....do	....do	16.4

Miscellaneous discharge measurements in Snake River Basin during water year October 1941 to September 1942--Continued

Weiser River Basin, Idaho--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
June 16	Johnson Park Creek....	Johnson Creek.....	SE¼ sec. 36, T. 17 N., R. 3 W., at mouth, 10 miles northwest of Council.	4.43
July 1	....do.....	....do.....	....do.....	2.02
21	....do.....	....do.....	....do.....	1.14
Aug. 16	....do.....	....do.....	....do.....	.23
Oct. 6	Grays Creek.....	Little Weiser River	Sec. 25, T. 15 N., R. 1 W., at Cole Ranch, 3 miles southeast of Mesa.	.26
Nov. 14	....do.....	....do.....	....do.....	.29
Dec. 12	....do.....	....do.....	....do.....	.69
Jan. 25	....do.....	....do.....	....do.....	2.55
Feb. 23	....do.....	....do.....	....do.....	2.91
Mar. 21	....do.....	....do.....	....do.....	7.88
Apr. 10	....do.....	....do.....	....do.....	31.9
May 21	....do.....	....do.....	....do.....	16.2
June 17	....do.....	....do.....	....do.....	8.99
Oct. 6	Grays Creek ditch.....	Grays Creek.....	Sec. 25, T. 15 N., R. 1 W., at Cole Ranch, 3 miles southeast of Mesa.	.64
Nov. 14	....do.....	....do.....	....do.....	.54
Dec. 12	....do.....	....do.....	....do.....	.89
Oct. 5	South Fork of Crane Creek.	Crane Creek.....	Sec. 3, T. 11 N., R. 2 W., at bridge near South Crane school, 14 miles southeast of Midvale.	0
Nov. 13	....do.....	....do.....	....do.....	0
Dec. 10	....do.....	....do.....	....do.....	†.01
Jan. 29	....do.....	....do.....	....do.....	84.4
Apr. 9	....do.....	....do.....	....do.....	5.07
May 22	....do.....	....do.....	....do.....	†.1
June 29	....do.....	....do.....	....do.....	†1.0
Oct. 3	Monroe Creek.....	Weiser River.....	NW¼SW¼ 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.	1.30
Nov. 11	....do.....	....do.....	....do.....	1.20
Dec. 10	....do.....	....do.....	....do.....	†1.5
Jan. 26	....do.....	....do.....	....do.....	22.3
28	....do.....	....do.....	....do.....	58.2
Feb. 17	....do.....	....do.....	....do.....	10.0
22	....do.....	....do.....	....do.....	14.0
Mar. 20	....do.....	....do.....	....do.....	38.3
Apr. 9	....do.....	....do.....	....do.....	64.0
May 22	....do.....	....do.....	....do.....	5.71
June 29	....do.....	....do.....	....do.....	.90
July 16	....do.....	....do.....	....do.....	†.5
Aug. 14	....do.....	....do.....	....do.....	.28
Sept. 17	....do.....	....do.....	....do.....	†1.0

† Estimated.

Powder River Basin, Oreg.

Aug. 11	Pine Creek.....	Powder River.....	NW¼ sec. 26, T. 8 S., R. 38 E., near Baker.	8.5

Salmon River Basin, Idaho

Oct. 3	East Fork of South Fork of Salmon River	South Fork of Salmon River.	Sec. 34, T. 19 N., R. 9 E., 200 feet downstream from Sugar Creek, 8½ miles upstream from Johnson Creek, and 3 miles north of Stibnite.	26.5
Nov. 23	....do.....	....do.....	....do.....	34.8
Jan. 16	....do.....	....do.....	....do.....	27.2
Feb. 25	....do.....	....do.....	....do.....	25.8
Mar. 28	....do.....	....do.....	....do.....	28.9
28	Tailrace of Sugar Creek power plant.	East Fork of South Fork of Salmon River.	Sec. 34, T. 19 N., R. 9 E., 3 miles north of Stibnite.	14.6
Oct. 9	Wind River.....	Salmon River.....	Sec. 35, T. 25 N., R. 4 E., at Falkner's ranch, ¼ mile above mouth and 5 miles northeast of French Creek post office.	48.5
23	....do.....	....do.....	....do.....	52.8
23	....do.....	....do.....	Sec. 26, T. 25 N., R. 4 E., at McMeekin Ranch, 2 miles above mouth, 1,000 feet below Meadow Creek, and 5 miles northeast of French Creek post office.	52.8
10	Mud Creek.....	Little Salmon River	Sec. 9, T. 19 N., R. 1 E., 0.5 mile upstream from Little Mud Creek and 3¼ miles northeast of Tamarack.	1.84
Nov. 17	....do.....	....do.....	....do.....	7.02
Dec. 17	....do.....	....do.....	....do.....	2.15
Mar. 23	....do.....	....do.....	....do.....	6.71
Apr. 15	....do.....	....do.....	....do.....	166
19	....do.....	....do.....	....do.....	97.6
May 19	....do.....	....do.....	....do.....	29.4
June 13	....do.....	....do.....	....do.....	13.3
July 20	....do.....	....do.....	....do.....	3.08
Aug. 19	....do.....	....do.....	....do.....	1.50
Sept. 20	....do.....	....do.....	....do.....	1.15

Miscellaneous discharge measurements in Snake River Basin during water year October 1941 to September 1942--Continued

Grande Ronde River Basin, Oreg.

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
Aug. 7	Fivepoint Creek.....	Grande Ronde River.	SE¼ sec. 31, T. 2 S., R. 37 E., at mouth, near Hilgard.	4.5
9	Chesnimnus Creek.....	Joseph Creek.....	NW¼ sec. 27, T. 3 N., R. 47 E., at Thomason Meadow Ranch, near Imnaha.	1.5

Clearwater River Basin, Idaho

Oct. 13	Lapwai Creek.....	Clearwater River...	Sec. 14, T. 35 N., R. 4 W., at Sweetwater, 100 feet below county road bridge and 1,000 feet below Sweetwater Creek.	29.7
Nov. 30	....do.....	....do.....	....do.....	90.4
Jan. 16	....do.....	....do.....	....do.....	42.4
Feb. 23	....do.....	....do.....	....do.....	57.5
23	....do.....	....do.....	....do.....	54.7
Mar. 25	....do.....	....do.....	....do.....	75.9
Apr. 5	....do.....	....do.....	....do.....	164
May 20	....do.....	....do.....	....do.....	271
July 8	....do.....	....do.....	....do.....	18.2
Aug. 20	....do.....	....do.....	....do.....	19.8
Sept. 24	....do.....	....do.....	....do.....	8.59
Oct. 13	Webb Creek.....	Sweetwater Creek...	Sec. 33, T. 35 N., R. 4 W., 500 feet above mouth and 4 miles southwest of Sweetwater.	6.53
Nov. 30	....do.....	....do.....	....do.....	12.7
Jan. 15	....do.....	....do.....	....do.....	7.51
Feb. 23	....do.....	....do.....	....do.....	10.7
23	....do.....	....do.....	....do.....	11.3
Mar. 25	....do.....	....do.....	....do.....	6.39
Apr. 5	....do.....	....do.....	....do.....	38.7
May 20	....do.....	....do.....	....do.....	75.4
July 8	....do.....	....do.....	....do.....	3.28
Aug. 20	....do.....	....do.....	....do.....	1.21
Sept. 24	....do.....	....do.....	....do.....	1.15

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