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SURFACE WATER SUPPLY *of the* UNITED STATES

1939

PART 13

SNAKE RIVER BASIN

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and other agencies

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SURFACE WATER SUPPLY OF SNAKE RIVER BASIN, 1939

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, 1939. The work was begun in 1888 in connection with special studies relating to irrigation. Measurements of flow of streams and measurements of stage and contents of lakes and reservoirs have been made at about 8,240 gaging stations in the United States and also at many gaging stations in Alaska and Hawaii. In July 1939, 4,160 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. Acknowledgments for cooperation of the first kind are made in connection with the description of each station affected; cooperation of the second kind is acknowledged on page 9.

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 water flowing in a channel when the cross-sectional area is 1 square foot and the 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 flowing 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," equivalent to 43,560 cubic feet, is the quantity of water required to cover an acre to the depth of 1 foot. 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 one square mile.

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

"Control" is a term used to designate the natural section or reach of the channel or artificial structure below the gage that determines the stage-discharge relation at the gage.

EXPLANATION OF DATA

The base data collected at gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the gage heights and discharge

measurements in determining the daily flow. The records of stage are obtained either from direct readings on a nonrecording gage or from a water-stage recorder that gives a continuous record of the fluctuations. Measurements of discharge are made with a current meter by the general methods outlined in standard textbooks on the measurement of river discharge. Gaging station structures are shown on plate 1.

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

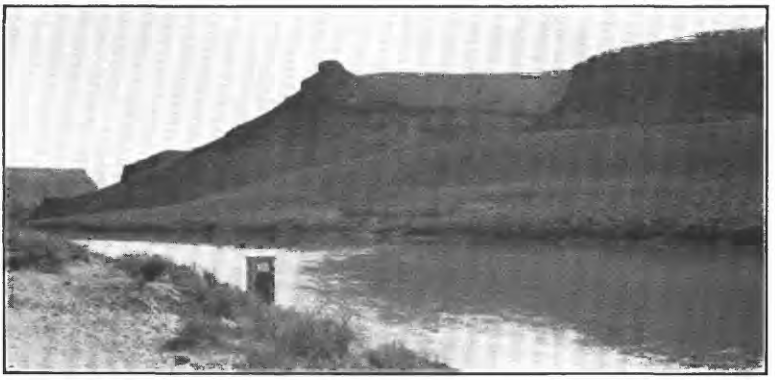
The data presented for each gaging station in the area covered by this report usually comprise a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly discharge and run-off. Skeleton rating tables are published except for those stations whose 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 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 (except when it is of no importance). Unless otherwise qualified, the maximum discharge corresponds to the crest stage, obtained by use of a water-stage recorder or a nonrecording gage read at the time of the crest. Likewise the minimum represents the lowest discharge, unless otherwise qualified. The peak discharge for the year with the time of its occurrence is given below the table of monthly discharge for some stations. Selected lower peaks are also given if the peak discharge exceeded the mean discharge for that day by more than 10 percent. This supplementary information is generally not given for stations having drainage areas of less than 10 square miles or more than 10,000 square miles.

The table of daily discharge gives, for stations equipped with nonrecording gages, the discharge in second-feet corresponding to once-daily readings of the gage or the mean of twice-daily readings. For flashy floods the mean daily 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 mean daily gage height. For stations subject to such fluctuation the mean daily gage height may not indicate the true mean daily discharge, which must be obtained by averaging the discharge for intervals of the day or by using the discharge integrator, an instrument for obtaining the mean daily discharge from a continuous gage-height graph and containing as an essential element the rating curve of the station.

In the table of monthly discharge the column headed "Second-foot-days" gives the sum for each month of the figures for that month given in the table of daily discharge. The column headed "Maximum" gives the maximum daily discharge and not the discharge when the water surface was at crest height. Likewise, in the column headed "Minimum" the quantity

A. SNAKE RIVER AT KING HILL, IDAHO.



B. SNAKE RIVER NEAR MURPHY, IDAHO.

C. SNAKE RIVER NEAR CLARKSTON, WASH.

GAGING-STATION STRUCTURES.

given is the minimum daily discharge. The column headed "Mean" gives the average flow in cubic feet per second during the month.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

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

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

Yield indicated by monthly means at some stations may vary widely from natural yield, owing to diversions, amount consumed, 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 reservoir records are included indicating the extent of the regulation, or 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, so that 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 gives a general idea of the flow at the station. The table of daily discharge allows more detailed studies of the variation in flow. It should be borne in mind, however, that the observations in each succeeding year may be expected to throw new light on data previously published, and that greater degrees of refinement in computations and records may be warranted with the increase in data and the use of improved equipment.

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 in regard to 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., 526 Federal Building.
Asheville, N. C., 220 Post Office Building.
Atlanta, Ga., Georgia School of Technology.
Augusta, Maine, Statehouse.
Boston, Mass., 945 Post Office Building.
Charlottesville, Va., House B, University Row, University of Virginia.
Chattanooga, Tenn., 442 Post Office Building.
College Park, Md., 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., 316 Federal Building.
Louisville, Ky., 641 Federal Building.
Madison, Wis., 337 N. State Capitol.
Montgomery, Ala., 507 Post Office Building.
Ocala, Fla., Post Office Building.
St. Paul, Minn., 808 New Post Office Building.
South Charleston, W. Va., Naval Ordnance Plant.
Trenton, N. J., 228 Federal Building.
Urbana, Ill., 14 Post Office Annex.

West of the Mississippi River:
Austin, Tex., 300 State Highway Building.
Boise, Idaho, 429 Federal Building.
Denver, Colo., 230 Customhouse.
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.
Los Angeles, Calif., G-31 Post Office and Courthouse.
Portland, Oreg., 606 Post Office Building.
Rolla, Mo., Missouri Geological Survey Building, Missouri School of Mines and Metallurgy.
St. Louis, Mo., 906 Customhouse, 1114 Market Street.
Salt Lake City, Utah, 303 Federal Building.
San Francisco, Calif., 208 Federal Office Building.
Santa Fe, N. Mex., 204 United States Courthouse.
Tacoma, Wash., 406 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.

Records of flow of streams in the United States have been published in the reports tabulated as follows:

Stream-flow data 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.

Stream-flow data in reports of the Geological Survey--Continued

Report	Character of data	Year
W 15.....	Descriptions, measurements, and gage heights for streams east of the Mississippi River and Missouri River and tributaries above Kansas River.	1897.
W 16.....	Descriptions, measurements, and gage heights for 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 for streams east of the Mississippi River and Missouri River and tributaries.	1898.
W 28.....	Measurements, ratings, and gage heights for 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.

Note.- The reports that contain records for years after 1901 are given in the table on page 6.

The table on the following page gives, by years and drainage basins, the numbers of the papers on surface water supply published from 1899 to 1939. 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.

Numbers of water-supply papers containing results of stream measurements, 1899-1939

(For basins included see p. 3)

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1899 a...	35	b 35, 36	36	36	36	c 36, 37	37	37	d 37, 38	38, e 39	38, f 39	38	38	38
1900 g...	47, h 48	48	48, i 49	49	49	49, j 50	50	50	50	51	51	51	51	51
1901.....	65, 75	65, 75	65, 75	65, 75	k 65, 66, 75	66, 75	k 65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902.....	82	b 82, 83	83	m 82, 83	k 83, 85	84	k 83, 84	84	85	85	85	85	85	85
1903.....	97	b 97, 98	98	97	k 98, 99, n 100	99	k 98, 99	99	100	100	100	100	100	100
1904.....	o 124, p 125, q 126	q 126, 127	128	129	k 128, 130	130, r 131	k 128, 131	132	133	133, s 134	134	135	135	135
1905.....	o 165, p 166, q 167	q 167, 168	169	170	171	172	k 169, 173	174	175, t 177	176, s 177	177	178	178	u 177, 178
1906.....	o 201, p 202, q 203	q 203, 204	205	206	207	208	k 205, 209	210	211, t 213	212, s 213	213	214	214	214
1907-8...	241	242	243	244	245	246	247	248	249	250, s 251	251	252	252	252
1909.....	261	262	263	264	265	266	267	268	269	270, s 271	271	272	272	272
1910.....	281	282	283	284	285	286	287	288	289	290	291	292	292	292
1911.....	301	302	303	304	305	306	307	308	309	310	311	312	312	312
1912.....	321	322	323	324	325	326	327	328	329	330	331	332-A	332-B	332-C
1913.....	351	352	353	354	355	356	357	358	359	360	361	362-A	362-B	362-C
1914.....	381	382	383	384	385	386	387	388	389	390	391	392	393	394
1915.....	401	402	403	404	405	406	407	408	409	410	411	412	413	414
1916.....	431	432	433	434	435	436	437	438	439	440	441	442	443	444
1917.....	451	452	453	454	455	456	457	458	459	460	461	462	463	464
1918.....	471	472	473	474	475	476	477	478	479	480	481	482	483	484
1919-20..	501	502	503	504	505	506	507	508	509	510	511	512	513	514
1921.....	521	522	523	524	525	526	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

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 junction with 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 compilation of discharge by States and drainage basins

Water-Supply Paper	Year ending	State or drainage basin and title
		STATE
107	1903	Alabama, Water powers of, with an appendix on stream measurements in Mississippi.
298	1912	California, Water resources of, part 1, Stream measurements in Sacramento River Basin.
299	1912	California, Water resources of, part 2, Stream measurements in San Joaquin River Basin.
300	1912	California, Water resources of, part 3, Stream measurements in the Great Basin and Pacific coast river basins.
447	1918	California, Surface water supply of the southern Pacific slope of.
597-E	1927	California, Surface water supply of Sacramento River Basin.
636-D	1927	California, Surface water supply of San Joaquin River Basin.
636-E	1927	California, Surface water supply of Pacific slope basins in.
637-A	1927	California, Surface water supply of minor San Francisco Bay, northern Pacific, and Great basins in.
74	1900	Colorado, Water resources of.
197	1905	Georgia, Water resources of.
415	1915	Massachusetts, Surface waters of.
230	1906	Nebraska, Surface water supply of.
370	1910	Oregon, Surface water supply of.
850	1937	Texas, Summary of records of surface waters of.
424	1916	Vermont, Surface waters of.
492	1919	Washington, Summary of hydrometric data in.
870	1935	Washington, Summary of records of surface waters of.
469	1921	Wyoming, Surface waters of, and their utilization.
		DRAINAGE BASIN
395	1914	Colorado River (Ariz., Colo., N. Mex., Utah, Wyo.) and its utilization, 1916.
617	1927	Colorado River, upper (Colo., Utah), and its utilization, 1929.
517	1920	Great Salt Lake Basin, Water powers of, 1924
618	1926	Green River (Utah, Wyo.) and its utilization, 1930.
198	1906	Kennebec River Basin (Maine), Water resources of, 1907.
		Milk River. (See St. Mary and Milk Rivers.)
536	1920	New-Kanawha River Basin (N. C., Va., W. Va.), Surface water supply of, 1925.
279	1909	Penobscot River Basin (Maine), Water resources of, 1912.
192	1906	Potomac River Basin (Md., Va., W. Va., etc.), 1907.
358	1913	Rio Grande Basin (Colo., N. Mex., Tex.), Water resources of, 1888-1913.
491	1917	St. Mary and Milk Rivers (Mont., Canada), Water supply of, 1920.
109	1904	Susquehanna River Basin (Pa., Md.), Hydrography of, 1905.

In addition to the records contained in the reports noted above, records of discharge have been published 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 compilation of records of discharge

State	Year ending	Report	Issued by
Alabama.....	1915	Bull. 17, Water powers of Alabama....	Geological Survey of Alabama.
Arkansas....	1928	Stream-gaging report 1.....	Arkansas Geological Survey.
Connecticut.	1926	Bull. 44, Water resources of Connecticut.	State Geological and Natural History Survey.
Georgia.....	1920	Bull. 38, Water powers of Georgia....	Geological Survey of Georgia.
Illinois....	1937	Stream-flow data of Illinois.....	Division of Waterways.
Do.....	1911	Water resources of Illinois.....	Rivers and Lakes Commission.
Indiana.....	1927	Pub. 72, Surface water supply of Indiana.	Department of Conservation.
Do.....	[a]1930	Pub. 112, Surface water supply of Indiana.	Do.
Iowa.....	1932	Stream-flow records of Iowa.....	Iowa State Planning Board.

a Includes records for the years 1927-30.

State reports containing compilation of records of discharge--Continued

State	Year ending	Report	Issued by
Kansas.....	[b]1919	Surface waters of Kansas.....	Kansas Water Commission.
Do.....	[c]1924	....do.....	Do.
Do.....	[d]1928	....do.....	Kansas State Board of Agriculture.
Do.....	[e]1935	Stream-flow data of Kansas.....	Do.
Kentucky...	1920	Surface waters of Kentucky.....	Kentucky Geological Survey.
Minnesota..	1912	Water-resources investigation of Minnesota.	State Drainage Commission.
Missouri...	1926	Reports of Bureau of Geology and Mines, vol. 20, 2d series, Water Resources of Missouri.	Missouri Geological Survey and Water Resources.
Nebraska...	1914	1st hydrographic report.....	Bureau of Water Power, Irrigation and Drainage.
Do.....	[f]1928	2d hydrographic report.....	Do.
New Jersey.	1928	Bull. 33, Surface water supply of New Jersey.	Department of Conservation and Development.
Do.....	[g]1934	Special Report 5, Surface water supply of New Jersey.	State Water Policy Commission.
New Mexico.	1925	Surface water supply of New Mexico.....	Office of the State Engineer.
North Carolina.	1923	Bull. 34, Discharge records of North Carolina streams.	Department of Conservation and Development.
Do.....	[h]1936	Bull. 39, Discharge records of North Carolina streams.	Do.
Oregon.....	1914	Bull. 4, Water resources of the State of Oregon.	Office of the State Engineer.
Do.....	[i]1924	Bull. 7, Water resources of the State of Oregon.	Do.
Do.....	[j]1930	Bull. 8, Water resources of the State of Oregon.	Do.
Do.....	[k]1936	Bull. 9, Water resources of the State of Oregon.	Do.
Pennsylvania	1911	Report of Water Supply Commission of Pennsylvania.	Water Supply Commission of Pennsylvania.
Do.....	[l]1932	Stream-flow records of Pennsylvania....	Department of Forests and Waters.
Tennessee..	1924	Bull. 34, Water resources of Tennessee.	Department of Education
Do.....	[m]1930	Bull. 40, Surface waters of Tennessee..	Do.
Utah.....	1905	5th Biennial Report, State Engineer....	Office of the State Engineer.
Virginia...	1927	Bull. 31, Water resources of Virginia..	Conservation and Development Commission.
Washington.	1933	Bull. 5, Monthly and yearly summaries of hydrometric data.	Department of Conservation and Development.
Wisconsin..	1914	1st report of Railroad Commission of Wisconsin to Legislature on water powers.	Railroad Commission of Wisconsin.
Do.....	[n]1923	2d report of Railroad Commission of Wisconsin to Legislature on water powers.	Do.

b Includes records for the years 1895-1919.
c Includes records for the years 1919-24.
d Includes records for the years 1924-28.
e Includes records for the years 1928-35.
f Includes records for the years 1914-28.
g Includes records for the years 1928-34.
h Includes records for the years 1889-1936; records of daily and monthly discharge are not included.
i Includes records for the years 1914-24.
j Includes records for the years 1924-30.
k Includes records for the years 1930-36.
l Includes records for the years 1928-32.
m Includes average weekly discharge for the years 1920-30.
n Includes records for the years 1914-23.

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, Idaho, Indiana, Missouri, Montana, Nebraska, New Mexico, New York (also New York City Board of Water Supply), North Dakota, Oregon, Pennsylvania, Utah, Washington, and Wyoming.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

The table on the following page 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 1938 to September 1939 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 daily discharge collected by agencies other than the Geological Survey

Stream	Location	Period
Antelope Reservoir.....	Sec. 32, T. 30 S., R. 45 E., near Danner, Oreg.	1925-27, 1930, 1932-39
Bully Creek.....	SW¼ sec. 33, T. 18 S., R. 44 E., 5 miles southwest of Vale, Oreg.	1933-39
Burnt River, South Fork of.	SW¼ sec. 27, T. 13 S., R. 36 E., near Unity, Oreg.	*1938-39
Grande Ronde River.....	NW¼ sec. 12, T. 3 S., R. 36 E., at lower reservoir site near La Grande, Oreg.	1937-39
Indian Creek.....	SE¼ sec. 33, T. 1 S., R. 40 E., above North Indian Creek, near Imbler, Oreg.	1938-39
Jack Creek.....	SE¼ sec. 25, T. 30 S., R. 44 E., 3 miles southeast of Danner, Oreg.	1925, 1930, 1932-39
Jordan Creek.....	9 miles west of Jordan Valley, Oreg..	*1930, 1932-39
Little Indian Creek....	NE¼ sec. 32, T. 1 S., R. 40 E., 9 miles northeast of Imbler, Oreg.	1938-39
Little Minam River.....	SE¼ sec. 27, T. 3 S., R. 41 E., 10 miles east of Cove, Oreg.	1938-39
Malheur River.....	Below Nevada Dam, near Vale, Oreg....	*1934, 1936-39
Do.....	SW¼ sec. 32, T. 20 S., R. 41 E., near Namorf, Oreg.....	*1931-39
Malheur River, North Fork of.	At Juntura, Oreg.....	*1926-32, 1935-39
Malheur River, South Fork of.	At Riverside, Oreg., in SW¼ sec. 27, T. 23 S., R. 37 E.	1927-29, 1928-39
Wallowa Lake Reservoir.	At outlet, near Joseph, Oreg.....	*1925-39
Wallowa River.....	Below Wallowa Lake, Oreg.....	*1926-39

*Records for some earlier years published in water-supply papers of the Geological Survey.
Note.- All the stations in the above table were operated by the State engineer of Oregon, and the records have been published in the bulletins of that office, as follows: Those for 1915-24, in Bulletin 7; those for 1925-30, in Bulletin 8, those for 1931-36 (including some to December 1936), in Bulletin 9. Records for 1937-39 have not been published.

Records of run-off have also been collected by the Soil Conservation Service from two areas of less than 250 acres each near Emmett, Idaho, and two areas of less than 100 acres each near Moscow, Idaho. These records are contained in the files of the Soil Conservation Service.

COOPERATION

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

Idaho: Department of Reclamation, R. W. Faris, succeeded Jan. 1, 1939, by James Spofford, commissioner, and the State Water Conservation Board, N. V. Sharp, chairman.

Oregon: Office of the State engineer, Charles E. Stricklin.

Washington: State Department of Conservation and Development, John Brooke Fink, director, and C. J. Bartholet, supervisor of hydraulics.

Wyoming: Office of the State engineer, John B. Quinn, succeeded by L. C. Bishop.

Financial assistance was also furnished by the Corps of Engineers, United States Army; the Office of Indian Affairs and the Bureau of Reclamation, United States Department of the Interior; the Flood Control Committee, the Weather Bureau, the Soil Conservation Service, and the Forest Service, United States Department of Agriculture; and the Works Progress Administration.

Funds for the construction, repair, and improvement of gaging stations were allocated to the Geological Survey by the Federal Emergency Administration of Public Works.

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

Idaho: City of Pocatello, Idaho Power Co., Weiser Irrigation District, Lake Irrigation District, Washington Water Power Co., Board of Control for Boise Project, Yellow Pine Co., Mesa Orchards Co., Idaho Water District No. 36, North Side Canal Co., Twin

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Falls Canal Co., Jackson Hole Light and Power 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 Inland Power & Light Co.

DIVISION OF WORK

The data for Snake River at and above Milner, Idaho, for stations on tributaries that enter Snake River above Idaho Falls (except those in the Salt River Basin in Wyoming), and for Blackfoot River near Blackfoot, Idaho, were collected and prepared for publication under the supervision of Lynn Crandall, district engineer. For all other stations in Idaho, for stations in Salmon Falls Creek Basin in Nevada, and for Snake River at Oxbow, Oreg., the data were collected and prepared for publication under the supervision of T. R. Newell, district engineer.

For all other stations in the several states the data were collected and prepared for publication under the supervision of district engineers as follows: In Oregon, G. H. Canfield, the work being done in collaboration with Charles E. Stricklin, State engineer; in Washington, G. L. Parker; in Wyoming, Robert Follansbee; and in Nevada, A. B. Purton.

SNAKE RIVER MAIN STEM

Jackson Lake at Moran, Wyo.

Location.- Staff gage, lat. 43°51', long. 110°35' in sec. 18, T. 45 N., R. 114 W., on Snake River, a short distance above lake outlet at Moran. Zero of gage is 6,700 feet above mean sea level (Bureau of Reclamation datum).

Drainage area.- 816 square miles.

Records available.- July 1908 to September 1939 (1908-10, fragmentary).

Extremes.- Maximum contents during year, 850,300 acre-feet June 19 (gage height, 69.13 feet); minimum, 312,530 acre-feet Sept. 29 (gage height, 46.32 ft.).

1908-39: Maximum contents, 857,220 acre-feet, June 23, 1937 (gage height, 69.40 feet); no usable contents on several days in period August to October 1919 (gage height, 30.00 feet).

Remarks.- In 1906 Bureau of Reclamation began construction of a log crib dam, which created a reservoir with a usable capacity of 300,000 acre-feet. This dam washed out in July 1910 and was replaced by an earth dam, creating a capacity of 380,000 acre-feet. The earth dam was raised in 1916 and the capacity thereby increased to about 790,000 acre-feet. In 1917, by dredging the outlet, the capacity was further increased to 847,000 acre-feet between gage heights 30 and 69 feet (gate sill is at gage height 28 feet). Water is used for irrigation in Snake River Valley, Idaho. Gage read once daily, at 7 a.m., and contents as given computed from gage height at that time; all available for release. Gage-height record furnished by Bureau of Reclamation.

Capacity table (gage height, in feet, and contents, in acre-feet)
(Prepared by Bureau of Reclamation from surveys made by that bureau)

30	0	35	88,070	44	263,500	58	576,750
31	17,190	36	106,390	46	305,660	61	648,400
32	34,580	38	143,860	49	370,750	64	721,560
33	52,180	40	182,520	52	437,810	67	796,270
34	70,010	42	222,430	55	506,550	69	847,000

Contents, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	398,270	424,060	450,550	479,340	506,090	533,070	558,370	627,480	847,000	846,210	636,620	386,700
2	398,490	425,180	451,910	479,260	507,010	534,000	559,550	635,420	846,210	845,700	632,050	382,050
3	398,710	426,540	453,280	481,180	507,710	534,940	560,490	643,600	846,210	843,920	627,480	377,170
4	398,710	428,570	454,640	482,100	508,640	535,870	561,440	652,520	848,000	842,140	622,200	372,300
5	398,490	430,150	455,780	483,010	510,040	536,340	562,380	661,240	848,000	840,860	614,320	366,360
6	398,490	431,050	456,690	483,930	511,660	536,810	563,560	671,170	848,000	838,320	603,810	360,000
7	398,710	431,950	457,600	484,620	512,820	537,750	564,500	678,470	846,460	835,770	593,350	354,080
8	398,710	432,850	458,510	485,320	513,750	538,680	565,440	684,810	847,000	833,230	584,340	348,170
9	399,380	433,760	459,190	486,010	514,920	539,620	566,150	692,860	848,250	829,920	576,280	341,880
10	400,280	434,430	459,870	486,700	516,080	540,790	566,850	699,460	847,230	827,120	568,500	337,320
11	401,170	435,110	460,550	488,090	517,010	541,720	567,560	708,050	846,460	824,580	561,670	334,060
12	402,070	435,780	461,010	489,470	518,170	542,430	568,270	715,420	846,210	820,070	554,370	332,110
13	402,740	436,460	461,700	490,390	519,100	543,360	569,450	722,800	846,460	813,690	546,870	330,590
14	403,410	437,140	462,160	491,320	520,730	544,060	570,620	730,960	847,230	806,870	539,150	330,370
15	404,750	437,810	462,850	492,240	522,820	544,770	572,040	739,860	848,000	799,800	531,900	330,590
16	407,210	438,720	463,530	493,160	523,750	545,470	573,920	751,020	848,250	792,000	523,980	329,940
17	409,670	439,630	464,220	494,090	524,680	546,170	575,570	763,220	848,510	782,970	514,450	329,510
18	411,240	440,540	464,910	495,010	525,610	546,870	576,750	775,450	848,250	774,700	504,470	329,290
19	411,910	441,230	465,820	496,160	526,070	547,570	577,940	786,230	850,300	763,960	494,780	328,640
20	412,580	442,140	466,740	497,320	526,540	548,280	580,310	795,260	848,250	752,760	485,320	328,420
21	413,250	443,040	467,890	498,240	527,230	548,980	583,150	801,820	848,250	744,550	476,140	328,200
22	414,140	443,950	468,800	498,930	527,930	549,680	586,240	808,900	848,250	736,400	467,660	327,770
23	415,260	444,640	469,720	499,630	528,860	550,380	590,030	815,970	848,250	726,750	459,640	326,050
24	416,160	445,320	470,640	500,090	529,560	551,080	594,300	822,030	848,250	715,470	451,000	323,470
25	417,060	446,000	471,550	500,550	530,260	551,790	598,340	825,340	848,000	704,370	442,360	321,540
26	417,970	446,680	472,470	501,010	530,960	552,490	601,190	828,140	847,000	693,350	433,080	318,540
27	418,640	447,360	473,620	501,470	531,660	553,190	604,530	829,920	848,250	682,370	423,600	316,180
28	419,540	448,050	474,990	501,930	532,360	554,130	608,110	833,230	848,510	672,620	414,590	313,170
29	420,450	448,730	476,140	503,090	-	555,070	613,370	838,320	848,000	662,930	406,320	312,530
30	421,580	449,410	477,280	504,240	-	556,020	620,770	845,190	847,000	653,250	398,710	313,170
31	422,930	-	478,430	505,400	-	556,960	-	848,760	-	644,560	392,240	-

Note.- Above table shows contents at 7 a.m., all of which is available for irrigation.

Gage height, and contents, water year October 1938 to September 1939

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	50.26	398,710	-
Oct. 31	51.34	422,930	+24,220
Nov. 30	52.51	449,410	+26,480
Dec. 31	53.78	478,430	+29,020
Calendar year 1938	-	-	+181,470
Jan. 31	54.95	505,400	+26,970
Feb. 28	56.11	532,360	+26,960
Mar. 31	57.16	556,960	+24,600
Apr. 30	59.85	620,770	+63,810
May 31	69.07	848,760	+227,990
June 30	69.00	847,000	-1,760
July 31	60.84	644,560	-202,440
Aug. 31	49.97	392,240	-252,320
Sept. 30	46.35	313,170	-79,070
Water year 1938-39	-	-	-85,540

Snake River near Moran, Wyo.

Location.- Water-stage recorder, lat. 43°51', long. 110°34', in sec. 17, T. 45 N., R. 114 W., 1½ miles downstream from Moran and Jackson Lake Dam and 3½ miles upstream from Pacific Creek.

Drainage area.- 820 square miles.

Records available.- September 1903 to September 1939.

Average discharge.- 36 years, 1,429 second-feet.

Extremes.- Maximum discharge during year, 7,370 second-feet July 19 (gage height, 6.83 feet); minimum, 23 second-feet on many days during winter.
1903-39: Maximum discharge, 15,100 second-feet June 12, 1918 (gage height, 10.41 feet); practically no flow for a few days in 1907 and 1909.

Remarks.- Records excellent except those for period when gates at dam were closed, Oct. 10 to May 22, which were computed on basis of staff-gage readings made once or twice a week and interpolations on intervening days and are good. Flow regulated by Jackson Lake (capacity, 847,000 acre-feet).

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	469	25	24	24	23	23	25	66	5,570	3,060	3,870	3,080
2	403	24	24	24	23	23	25	66	3,790	3,060	3,200	2,900
3	403	24	24	24	23	23	25	66	3,220	3,060	3,290	2,890
4	403	24	24	24	23	23	24	66	3,790	3,050	4,280	3,170
5	344	24	24	24	23	23	24	66	4,290	3,270	6,030	3,770
6	301	24	25	24	23	23	24	66	4,260	3,380	6,380	3,660
7	369	24	25	24	23	24	24	63	3,420	2,990	5,960	3,740
8	221	24	25	24	23	24	24	61	3,000	3,210	5,120	3,860
9	42	24	25	24	23	24	24	68	3,970	3,390	4,700	3,080
10	38	24	25	24	23	24	24	75	4,200	3,310	4,320	2,220
11	34	24	24	25	23	24	24	77	3,310	3,630	4,450	2,160
12	30	24	24	25	23	24	24	80	2,770	4,640	4,720	1,600
13	29	24	24	25	23	24	24	82	2,590	5,140	4,660	1,140
14	28	24	23	24	23	24	24	120	2,650	5,220	4,620	732
15	28	24	23	24	23	24	24	157	2,930	5,580	4,740	585
16	27	24	23	24	23	24	28	171	3,000	5,700	5,290	550
17	27	24	23	24	23	24	31	185	3,000	5,850	5,900	474
18	26	24	23	24	23	24	34	154	2,840	6,190	5,830	474
19	26	24	23	24	23	24	37	122	3,230	6,850	5,700	474
20	25	24	24	24	23	24	40	90	3,390	5,790	5,460	522
21	25	24	24	24	23	24	42	72	3,010	5,300	5,170	620
22	25	23	24	24	23	24	52	55	3,000	5,690	4,910	1,020
23	25	23	24	23	23	24	61	432	3,000	6,850	4,900	1,920
24	25	23	24	23	23	24	66	1,190	3,000	6,890	5,140	1,730
25	25	23	24	23	23	24	70	1,500	2,820	6,850	5,270	1,770
26	25	23	24	23	23	24	68	2,190	2,360	6,790	5,720	1,830
27	25	23	24	23	23	24	66	2,330	2,110	6,600	5,600	1,870
28	25	23	24	23	23	25	63	2,330	2,500	6,360	5,070	1,250
29	25	23	24	23	-	25	61	2,330	3,320	6,260	4,750	38
30	25	24	24	23	-	25	66	4,370	3,070	6,190	4,340	35
31	25	-	24	23	-	25	-	6,670	-	5,740	3,810	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,548	469	25	114	7,040
November	713	25	23	23.8	1,410
December	743	25	23	24.0	1,470
Calendar year 1938	491,474	7,450	23	1,347	974,700
January	738	25	23	23.8	1,460
February	644	23	23	23.0	1,280
March	742	25	23	23.9	1,470
April	1,148	70	24	38.3	2,280
May	25,370	6,670	61	818	50,320
June	97,410	5,570	2,110	3,247	193,200
July	155,890	6,890	2,990	5,029	309,200
August	153,200	6,380	3,200	4,942	303,900
September	53,164	3,860	35	1,772	105,400
Water year 1938-39	493,310	6,890	23	1,35[illegible]	978,400

Snake River above Greys River, near Alpine, Wyo.

Location.- Water-stage recorder, lat. 43°11', long. 111°00', in SW¼ sec. 21, T. 37 N., R. 118 W., three-quarters of a mile above Greys River and 2½ miles east of Alpine.

Records available.- March 1937 to March 1939 (discontinued).

Extremes.- Maximum discharge during period October to March, 2,590 second-feet Oct. 1 (gage height, 2.70 feet); minimum not determined, occurred during ice period.
1937-39: Maximum discharge, 18,600 second-feet June 23, 1938 (gage height, 8.73 feet); minimum, 898 second-feet Jan. 5, 1938 (gage height, 0.30 foot), caused by ice jam upstream.

Remarks.- Records good except those for Nov. 13 to Feb. 3, Feb. 27 to March 31 (computed on basis of staff-gage readings made three times a week and records for station near Heise) and those for period of missing gage heights, Feb. 4-26 (computed on basis of records for station near Heise), which are fair. Flow partly regulated by Jackson Lake (capacity, 847,000 acre-feet).

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,530	2,010	1,470	1,320	1,220	1,120						
2	2,370	1,910	1,490	1,340	1,200	1,120						
3	2,240	1,830	1,510	1,380	1,170	1,160						
4	2,180	1,920	1,500	1,360		1,200						
5	2,160	1,890	1,480	1,340		1,230						
6	2,130	1,680	1,480	1,300		1,260						
7	2,070	1,630	1,520	1,270		1,260						
8	2,120	1,620	1,530	1,270		1,270						
9	2,120	1,650	1,530	1,270		1,260						
10	1,980	1,670	1,540	1,300		1,250						
11	1,920	1,640	1,510	1,340		1,250						
12	1,910	1,640	1,480	1,320		1,250						
13	1,860	1,640	1,370	1,310		1,260						
14	1,820	1,630	1,260	1,300		1,250						
15	1,940	1,630	1,240	1,290		1,240						
16	2,100	1,630	1,230	1,280	1,170	1,230						
17	2,350	1,610	1,210	1,310		1,220						
18	2,200	1,580	1,200	1,360		1,250						
19	2,040	1,560	1,280	1,330		1,310						
20	1,950	1,500	1,350	1,280		1,380						
21	1,930	1,450	1,360	1,270		1,420						
22	1,910	1,440	1,380	1,220		1,480						
23	1,880	1,430	1,400	1,140		1,550						
24	1,840	1,400	1,410	1,130		1,610						
25	1,800	1,380	1,340	1,110		1,740						
26	1,780	1,360	1,270	1,200		1,860						
27	1,770	1,300	1,200	1,240	1,130	1,980						
28	1,750	1,230	1,250	1,240	1,130	2,040						
29	1,730	1,310	1,270	1,240	-	2,080						
30	1,740	1,390	1,300	1,240	-	2,050						
31	1,900	-	1,320	1,230	-	2,030						

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	62,020	2,530	1,730	2,001	123,000
November	47,560	2,010	1,230	1,585	94,330
December	42,680	1,540	1,200	1,377	84,650
Calendar year 1938	1,656,722	18,400	982	4,539	3,286,000
January	39,530	1,380	1,110	1,275	78,410
February	32,760	-	-	1,170	64,980
March	44,610	2,080	1,120	1,439	88,480
The period	-	-	-	-	533,800

Snake River at Calamity Point, near Irwin, Idaho

Location.- Water-stage recorder, lat. 43°19'35", long. 111°11'40", in SW¼ sec. 16, T. 1 S., R. 45 E., 400 feet upstream from Bear Creek, 5,600 feet upstream from Calamity Point dam site, and 7½ miles southeast of Irwin.

Records available.- April 1934 to October 1936, April to September 1939.

Extremes.- Maximum discharge during period, 18,800 second-feet June 1 (gage height, 6.56 feet); minimum, 2,690 second-feet Sept. 30 (gage height, 1.32 feet).
1934-36, 1939: Maximum daily discharge, 27,500 second-feet June 1, 1936 (gage height, 8.65 feet); minimum, 1,530 second-feet (estimated) Apr. 1-6, 1936.

Remarks.- Records good. Discharge interpolated May 20. Flow partly regulated by Jackson Lake (capacity, 847,000 acre-feet).

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	3,780	10,900	18,500	10,500	9,650	6,320
2						-	4,240	11,000	15,700	10,500	7,780	5,600
3						-	4,660	11,400	12,900	10,400	7,040	5,300
4						-	5,350	12,300	11,900	9,940	7,040	5,250
5						-	5,630	13,200	13,200	10,000	8,010	5,500
6						-	4,660	12,700	13,900	10,400	9,420	5,970
7						-	4,330	11,400	13,200	9,870	9,640	5,970
8						-	4,220	10,500	10,900	9,260	9,040	6,260
9						-	4,490	10,100	11,400	9,390	8,280	6,160
10						-	4,240	10,500	12,800	9,520	9,460	5,400
11						-	4,070	11,200	11,600	9,140	7,540	4,630
12						-	4,110	10,600	10,500	9,550	7,570	4,720
13						-	4,420	9,810	9,840	10,500	7,750	4,270
14						-	4,990	9,710	9,870	10,600	7,630	3,900
15						-	5,760	10,200	10,400	10,600	7,570	3,550
16						-	6,020	11,000	11,200	10,600	7,630	3,260
17						-	5,530	12,200	11,200	10,500	8,190	3,170
18						-	5,500	11,900	11,100	10,400	8,640	3,070
19						-	5,990	11,600	11,000	10,600	8,460	3,000
20						-	6,510	10,700	11,300	10,900	8,370	2,960
21						-	6,950	9,740	10,500	9,620	8,070	2,960
22						-	7,660	9,330	10,200	9,230	7,780	3,040
23						-	8,160	8,890	10,100	9,650	7,540	3,240
24						-	8,580	8,610	10,000	10,500	7,520	4,110
25						-	8,370	8,860	9,870	10,400	7,660	4,050
26						-	7,400	8,740	9,710	10,400	7,810	4,090
27						-	7,150	9,260	9,170	10,400	8,070	4,090
28						-	7,750	9,970	9,080	10,200	8,010	4,110
29						-	8,980	11,300	9,680	10,000	7,570	3,820
30						3,470	10,200	13,200	10,600	10,200	7,260	2,740
31						3,470	-	16,800	-	10,300	6,870	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	179,700	10,200	3,780	5,990	356,400
May	337,620	16,800	8,610	10,890	669,700
June	341,320	18,500	9,080	11,380	677,000
July	314,070	10,900	9,140	10,130	622,900
August	248,870	9,650	6,870	8,028	493,600
September	130,510	6,320	2,740	4,350	258,900
The period	-	-	-	-	3,078,000

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. Zero of gage is 5,014.90 feet above mean sea level.

Drainage area.- 5,740 square miles.

Records available.- September 1910 to September 1939 except for winter in period 1914-24.

Average discharge.- 29 years (1910-39), 6,830 second-feet.

Extremes.- Maximum discharge during year 19,400 second-feet June 1 (gage height, 7.05 feet); minimum, 1,820 second-feet Feb. 17 (gage height, 1.62 feet).

1910-39: Maximum discharge, about 60,000 second-feet May 19, 1927, result of washing out of landslide on Gros Ventre River (gage height, about 16.0 feet, present datum); minimum, 1,210 second-feet Jan. 22, 1935 (gage height, 1.15 feet).

Remarks.- Records excellent except those for periods of ice effect, Feb. 10 to Mar. 5, which were computed on basis of two discharge measurements and weather records and are good. Station is above all irrigation diversions from main river except Riley ditch (capacity, about 30 second-feet), which diverts 1 mile upstream from station. About 105,000 acres irrigated by diversions from tributaries above station in both Wyoming and Idaho. Flow partly regulated by Jackson Lake (capacity, 847,000 acre-feet).

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,940	3,670	2,800	2,490	2,440	2,160	4,640	12,600	18,800	11,200	10,500	7,290
2	3,790	3,630	2,810	2,530	2,360	2,160	5,220	12,700	17,600	11,200	9,150	6,500
3	3,690	3,460	2,860	2,600	2,270	2,220	5,650	13,100	14,200	11,200	7,840	6,080
4	3,530	3,520	2,830	2,600	2,420	2,260	6,440	14,000	13,000	10,700	7,590	5,950
5	3,520	3,590	2,800	2,580	2,440	2,240	6,940	14,900	13,400	10,600	7,960	5,920
6	3,550	3,320	2,800	2,580	2,410	2,180	6,190	14,600	14,600	10,900	9,650	6,620
7	3,480	3,100	2,800	2,450	2,410	2,220	5,450	13,400	14,400	11,000	10,000	6,620
8	3,520	3,050	2,880	2,420	2,390	2,280	5,170	12,400	12,700	9,980	9,780	6,850
9	3,520	3,090	2,910	2,330	2,240	2,260	5,370	11,500	12,000	10,000	9,030	6,990
10	3,520	3,140	2,900	2,520	2,260	2,260	5,300	11,800	13,400	10,100	8,640	6,470
11	3,440	3,100	2,860	2,680	2,200	2,260	4,950	12,600	13,200	10,000	8,180	5,470
12	3,400	3,020	2,680	2,580	2,220	2,210	4,950	12,400	12,000	9,880	8,050	5,550
13	3,320	3,000	2,390	2,530	2,330	2,220	5,240	11,500	11,100	10,900	8,300	5,200
14	3,290	2,980	2,270	2,520	2,330	2,260	5,790	11,100	10,800	11,200	8,210	4,790
15	3,290	2,950	2,470	2,520	2,240	2,210	6,620	11,400	11,100	11,100	8,110	4,280
16	3,570	2,910	2,800	2,570	2,120	2,210	7,200	12,200	11,900	11,300	8,080	3,870
17	3,890	3,030	2,680	2,570	2,150	2,240	6,820	13,400	12,500	11,100	8,390	3,690
18	3,920	3,020	2,580	2,520	2,220	2,280	6,620	13,600	12,200	11,000	9,030	3,550
19	3,650	2,910	2,580	2,530	2,320	2,340	7,020	13,200	12,200	11,000	9,030	3,460
20	3,480	2,910	2,580	2,500	2,210	2,440	7,710	12,600	12,300	11,400	8,870	3,400
21	3,400	2,930	2,650	2,500	2,210	2,550	8,140	11,400	12,000	10,700	8,710	3,380
22	3,360	2,780	2,650	2,420	2,210	2,690	8,930	10,800	11,200	9,940	8,420	3,420
23	3,320	2,680	2,570	2,280	2,160	3,020	9,610	10,400	11,000	9,910	8,180	3,500
24	3,290	2,610	2,550	2,390	2,160	3,310	9,940	9,880	10,900	10,900	8,050	4,280
25	3,250	2,800	2,600	2,470	2,200	3,610	10,100	10,100	10,800	10,900	8,240	4,550
26	3,190	2,830	2,520	2,470	2,220	3,830	9,060	9,810	10,700	10,900	8,210	4,580
27	3,180	2,660	2,420	2,450	2,120	4,110	8,580	10,400	10,300	10,900	8,670	4,580
28	3,140	2,630	2,470	2,630	2,180	4,390	8,990	10,800	9,910	10,800	8,640	4,550
29	3,160	2,660	2,680	2,530	-	4,440	10,200	11,900	10,000	10,500	8,390	4,550
30	3,160	2,690	2,630	2,450	-	4,460	11,700	13,600	11,200	10,500	8,020	3,550
31	3,340	-	2,630	2,470	-	4,530	-	16,400	-	10,900	7,770	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	107,100	3,940	3,140	3,455	212,400
November	90,670	3,670	2,610	3,022	179,800
December	82,650	2,910	2,270	2,666	163,900
Calendar year 1938	2,557,000	22,600	1,940	7,006	5,072,000
January	77,680	2,680	2,280	2,506	154,100
February	63,440	2,440	2,120	2,266	125,800
March	85,850	4,530	2,160	2,769	170,300
April	214,540	11,700	4,640	7,151	425,500
May	380,490	16,400	9,810	12,270	754,700
June	371,410	18,800	9,910	12,380	736,700
July	332,610	11,400	9,880	10,730	659,700
August	265,690	10,500	7,590	8,571	527,000
September	149,490	7,290	3,380	4,983	296,500
Water year 1938-39	2,221,620	18,800	2,120	6,087	4,406,000

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. Most of these canals are equipped with staff gages, which are read once daily; a few have water-stage recorders. Records showing combined discharge of all the canals for each irrigation season from 1919 to 1939 are available.

Records good except those for May, which are fair.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								1,470	8,260	8,160	7,830	5,970
2								1,450	8,180	8,170	7,160	5,770
3								1,700	8,140	8,220	7,080	5,590
4								1,850	8,040	8,090	7,080	5,620
5								2,470	8,020	8,000	7,060	5,740
6								3,460	8,040	7,780	6,940	6,410
7								3,970	7,990	7,800	7,420	6,340
8								4,440	7,770	7,660	7,400	6,270
9								5,300	7,650	7,680	7,160	6,070
10								5,900	7,380	7,720	7,200	5,450
11								6,730	7,200	8,070	7,100	5,400
12								6,990	6,940	8,060	6,850	5,330
13								7,550	7,140	8,150	6,980	5,170
14								7,640	7,650	8,450	6,920	5,040
15								8,140	7,740	8,410	6,550	4,610
16								8,270	7,910	8,410	6,500	4,330
17								8,230	7,460	8,390	7,040	4,230
18								8,040	6,800	8,370	7,060	4,050
19								7,860	5,270	8,450	7,070	3,940
20								7,320	5,350	8,290	7,010	3,940
21								7,130	5,490	8,310	7,020	3,810
22								6,920	5,620	7,480	6,560	3,960
23								6,960	5,830	7,360	6,620	4,000
24								7,180	6,150	7,540	6,540	4,150
25								7,100	6,410	8,020	6,440	4,440
26								7,120	6,880	8,070	6,370	4,380
27								7,240	6,870	8,180	6,360	4,420
28								7,470	7,210	8,220	6,690	4,260
29								7,690	7,480	8,190	6,560	4,300
30								7,770	8,000	8,070	6,550	4,020
31								8,050	-	7,950	6,470	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May	189,410	8,270	1,450	6,110	375,700
June	214,870	8,260	5,270	7,162	426,200
July	249,720	8,450	7,360	8,055	495,300
August	213,590	7,830	6,360	6,890	423,600
September	147,010	6,410	3,810	4,900	291,600
The period	-	-	-	-	2,012,000

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.

Drainage area.- 10,100 square miles.

Records available.- March 1915 to September 1939 (1915-31 and 1935-38, summers only).

Extremes.- Maximum discharge during year, 17,000 second-feet May 6 (gage height, 9.92 feet); minimum, 1,070 second-feet Oct. 5 (gage height, 4.27 feet).

1915-39: 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).

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

Remarks.- Records excellent except those for periods of ice effect Nov. 22-30, Dec. 14 to Mar. 17, which were computed on basis of one discharge measurement, temperature records, and records for station at Clough ranch and are fair. Discharge for May 21-23 computed on basis of records for stations near Heise and at Clough ranch. Flow partly regulated by Jackson Lake (capacity, 847,000 acre-feet) on Snake River and Henrys Lake (capacity, 79,320 acre-feet) and Island Park Reservoir (capacity, 127,300 acre-feet) on Henrys Fork. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,970	4,370	3,110	3,350	2,510	2,360	5,860	13,800	9,830	4,500	4,240	3,040
2	1,530	4,980	3,750	3,250	2,480	2,700	5,860	15,000	12,100	4,390	4,260	3,020
3	1,470	4,860	3,250	3,020	2,380	2,360	6,600	15,600	10,300	4,500	3,440	2,730
4	1,290	4,800	3,390	3,730	2,080	2,420	7,160	16,000	7,840	4,470	2,480	2,450
5	1,250	4,830	3,430	2,920	2,100	2,420	8,110	16,600	6,670	4,370	2,120	2,260
6	1,380	4,750	3,420	2,700	2,420	2,510	8,590	16,700	7,130	4,320	2,300	1,980
7	1,750	4,500	3,420	3,270	2,170	2,420	8,730	15,600	8,110	4,950	3,870	2,120
8	2,200	4,260	3,370	2,920	2,330	2,680	6,700	14,000	7,900	4,950	4,040	2,220
9	2,420	4,120	3,330	2,450	2,220	3,090	6,080	12,500	6,570	4,320	3,800	2,500
10	2,850	4,120	3,370	2,160	2,190	2,910	6,050	9,430	6,730	4,140	3,350	2,730
11	3,210	4,220	3,290	2,200	1,870	3,130	5,920	8,940	8,940	3,780	3,040	2,800
12	3,270	4,040	3,110	2,480	2,240	2,980	5,790	9,180	8,980	3,310	2,780	2,380
13	3,230	3,820	2,550	3,290	2,260	2,980	5,360	8,380	7,390	3,110	2,750	2,500
14	3,270	4,220	2,350	3,000	2,470	3,530	6,080	7,260	5,920	3,550	2,940	2,500
15	3,370	4,220	2,150	2,940	2,200	3,290	6,570	6,600	5,090	3,800	2,820	2,440
16	3,590	3,900	2,400	2,750	2,220	2,870	7,330	6,400	5,060	3,730	2,820	2,380
17	4,090	3,970	2,900	2,960	2,200	2,960	7,970	7,100	6,110	3,820	2,800	2,220
18	4,500	3,480	3,000	2,820	2,160	3,040	7,700	8,450	7,970	3,750	2,640	2,220
19	4,610	3,590	3,050	2,680	2,190	3,090	7,700	8,870	9,120	3,660	3,060	2,030
20	4,450	3,570	3,050	2,920	2,400	3,150	8,140	8,940	9,830	3,640	3,090	1,820
21	4,160	3,710	3,050	3,020	2,420	3,370	8,870	8,500	10,500	3,920	3,150	1,710
22	4,190	3,260	3,050	2,850	2,400	3,660	9,470	7,700	10,100	3,990	2,980	1,580
23	4,120	2,650	3,050	2,580	2,330	4,040	10,400	6,700	8,260	3,530	2,980	1,570
24	3,990	2,700	3,040	2,380	2,450	4,470	11,200	5,610	8,590	3,570	2,830	1,530
25	3,970	2,550	2,900	2,240	2,500	5,000	11,800	5,090	8,070	3,820	2,830	1,920
26	4,040	2,850	2,800	2,300	2,240	5,420	11,800	5,090	7,290	3,660	3,060	2,130
27	3,900	2,900	2,550	2,270	2,590	5,540	11,000	4,450	6,500	3,660	3,170	2,130
28	3,900	2,850	2,300	2,320	2,160	5,610	10,400	4,520	5,390	3,590	3,620	2,150
29	3,900	2,900	2,550	2,640	-	5,790	10,600	4,610	4,260	3,480	3,550	2,150
30	3,920	3,000	3,000	2,890	-	5,700	12,000	5,360	3,990	3,420	3,440	2,230
31	4,040	-	3,350	2,800	-	5,640	-	6,730	-	3,730	3,230	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	99,830	4,610	1,250	3,220	198,000
November	113,990	4,980	2,550	3,800	226,100
December	93,380	3,750	2,150	3,012	185,200
Calendar year 1938	2,153,910	20,600	1,100	5,901	4,272,000
January	86,100	3,730	2,160	2,777	170,800
February	64,180	2,590	1,870	2,292	127,300
March	111,130	5,790	2,360	3,585	220,400
April	246,340	12,000	5,790	8,211	488,600
May	288,710	16,700	4,450	9,313	572,600
June	231,540	12,100	3,990	7,718	459,300
July	121,430	4,950	3,110	3,917	240,900
August	97,480	4,260	2,120	3,145	193,300
September	67,440	3,040	1,530	2,248	133,800
Water year 1938-39	1,621,550	16,700	1,250	4,443	3,216,000

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

Between Shelley and Clough ranch 13 canals divert water from Snake River for irrigation. The two largest of these are equipped with recorders, the others with staff gages, which are read once daily. Records showing combined discharge of all the canals for each irrigation season from 1919 to 1939 are available.

Records good.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								2,810	3,780	3,520	2,960	2,250
2								2,810	3,720	3,490	2,880	2,180
3								2,980	3,620	3,540	2,530	2,090
4								3,210	3,600	3,520	1,370	1,510
5								3,530	3,540	3,530	1,330	1,410
6								3,570	3,400	3,490	1,200	1,410
7								3,670	3,590	3,530	1,820	1,410
8								3,590	3,540	3,470	2,650	1,800
9								3,600	3,050	3,380	2,510	1,970
10								3,610	3,350	3,380	2,470	2,110
11								3,580	3,360	3,410	2,100	2,070
12								3,610	3,320	3,270	2,080	1,700
13								3,590	3,270	2,880	2,050	1,270
14								3,530	3,300	3,050	2,180	1,580
15								3,470	3,480	3,300	2,520	1,610
16								3,510	3,510	3,270	2,520	1,600
17								3,620	3,500	3,420	2,560	1,530
18								3,610	2,940	3,440	2,560	1,540
19								3,450	2,530	3,510	2,590	1,550
20								3,400	2,460	3,120	2,590	1,500
21								3,290	2,590	3,060	2,570	1,420
22								3,260	2,700	3,070	2,550	1,430
23								3,360	2,770	2,580	2,110	1,390
24								3,390	2,770	2,560	2,140	1,350
25								3,300	2,920	2,600	2,070	1,560
26								3,280	3,080	2,820	2,040	1,880
27								3,270	3,200	2,910	2,380	2,000
28								3,330	3,360	2,680	2,400	2,030
29								3,380	3,320	2,920	2,490	2,040
30								3,560	3,380	2,740	2,450	2,040
31								3,700	-	2,940	2,330	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	105,870	3,700	2,810	3,415	210,000
June	96,950	3,780	2,460	3,232	192,300
July	98,400	3,540	2,560	3,174	195,200
August	71,000	2,960	1,200	2,290	140,800
September	51,230	2,250	1,270	1,708	101,600
The period	-	-	-	-	839,900

Snake River at Clough ranch, near Blackfoot, Idaho

Location.- Water-stage recorder, lat. 43°07', long. 112°31', in sec. 31, T. 3 S., R. 34 E., a quarter of a mile downstream from Blackfoot River and 14 miles southwest of Blackfoot.

Drainage area.- 11,700 square miles.

Records available.- June 1910 to September 1939.

Extremes.- Maximum daily discharge during year, 13,000 second-feet May 6 (gage height, 7.80 feet); minimum, 166 second-feet July 14, 15 (gage height, 0.64 foot).

1910-39: 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. Discharge interpolated Dec. 14, Feb. 15, 21, 22, 28, May 14, 16. Flow partly regulated by Jackson Lake (capacity, 847,000 acre-feet) on Snake River, Henrys Lake (capacity, 79,320 acre-feet) and Island Park Reservoir (capacity, 127,300 acre-feet) on Henrys Fork, and Blackfoot Marsh Reservoir (capacity, 413,000 acre-feet) on Blackfoot River. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	175	3,890	3,350	3,160	2,580	2,060	5,680	10,400	3,400	670	866	805
2	187	4,370	3,260	3,040	2,400	2,060	5,700	11,700	6,620	835	1,150	691
3	268	4,760	3,590	3,110	2,290	2,300	6,160	12,400	7,340	820	1,050	768
4	280	4,710	3,570	2,790	2,060	2,220	6,720	12,400	4,940	805	947	820
5	336	4,650	3,690	3,230	2,000	2,200	7,340	12,400	3,540	850	812	768
6	504	4,610	3,590	2,830	2,120	2,260	8,270	12,700	3,180	740	733	649
7	628	4,450	3,670	2,710	2,120	2,410	7,800	12,300	4,170	990	1,290	492
8	1,030	4,270	3,550	2,610	2,050	2,290	6,980	11,200	4,570	1,510	1,500	390
9	1,570	4,040	3,550	2,240	2,000	2,400	6,460	8,790	4,250	1,130	1,390	355
10	2,010	4,060	3,570	2,010	1,820	2,610	6,190	6,670	3,370	812	1,080	609
11	2,480	4,080	3,540	1,960	1,960	2,660	6,160	5,680	4,760	504	1,020	733
12	2,830	4,250	3,300	2,290	1,850	2,850	5,820	5,840	6,280	296	775	740
13	2,950	3,600	2,660	2,720	1,940	2,930	5,660	5,770	4,990	184	552	1,110
14	2,910	4,100	2,330	2,950	2,060	2,820	5,840	4,750	3,210	166	628	1,120
15	3,040	4,490	2,000	2,910	1,980	2,880	6,100	3,730	1,940	166	450	1,090
16	3,260	4,430	2,170	2,820	1,890	2,880	6,770	3,500	1,640	284	292	1,120
17	3,670	4,290	2,610	2,580	2,020	2,830	7,490	3,280	2,090	288	223	1,080
18	4,230	4,040	3,080	2,850	1,990	2,960	7,800	4,100	4,210	272	200	964
19	4,530	3,830	3,280	2,800	2,160	2,980	7,460	5,340	6,510	190	181	882
20	4,490	3,830	3,040	2,800	2,130	3,040	7,560	5,570	7,460	178	272	670
21	4,310	3,830	3,280	2,790	2,110	3,100	7,900	5,540	7,980	272	365	576
22	4,080	3,620	3,160	2,740	2,080	3,380	8,490	4,530	8,110	656	370	450
23	4,040	2,770	3,010	2,660	2,060	3,640	9,050	3,210	7,130	828	456	417
24	3,930	2,630	3,320	2,290	2,130	4,020	9,990	2,530	6,300	761	576	380
25	3,830	2,460	2,980	1,890	2,340	4,650	10,400	1,780	5,700	956	504	336
26	3,930	2,610	2,870	1,880	2,200	5,090	10,800	1,620	4,920	663	628	406
27	3,730	2,910	2,630	1,940	2,200	5,400	10,200	1,300	3,740	649	642	380
28	3,590	2,830	2,290	2,240	2,130	5,380	8,850	972	2,610	670	805	318
29	3,590	2,880	2,130	2,290	-	5,770	8,190	874	1,350	649	981	318
30	3,590	3,010	2,950	2,670	-	5,770	8,540	947	782	528	947	336
31	3,730	-	3,010	2,820	-	5,680	-	1,630	-	633	842	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	83,728	4,530	175	2,701	166,100
November	114,300	4,760	2,460	3,810	226,700
December	95,030	3,690	2,000	3,065	188,500
Calendar year 1938	1,728,830	19,300	157	4,737	3,429,000
January	80,620	3,230	1,880	2,601	159,900
February	58,670	2,580	1,820	2,095	116,400
March	103,520	5,770	2,060	3,339	205,300
April	226,370	10,800	5,660	7,546	449,000
May	183,453	12,700	874	5,918	363,900
June	137,092	8,110	782	4,570	271,900
July	18,957	1,510	166	612	37,600
August	22,527	1,500	181	727	44,680
September	19,773	1,120	318	659	39,220
Water year 1938-39	1,144,040	12,700	166	3,134	2,269,000

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. Zero of gage is at mean sea level (by levels of Bureau of Reclamation).
Drainage area.- 14,000 square miles.
Records available.- March 1926 to September 1939.
Extremes.- Maximum contents during year, 1,722,020 acre-feet May 8 (gage height, 4,354.89 feet); minimum, 247,370 acre-feet Sept. 28 (gage height, 4,316.86 feet).
1926-39: Maximum contents, 1,726,580 acre-feet June 10, 1938 (gage height, 4,354.97 feet); minimum, 3,240 acre-feet Aug. 30, 1926 (gage height, 4,296.82 feet).
Remarks.- Dam was completed by Bureau of Reclamation in 1926. Capacity of reservoir 1,700,000 acre-feet between elevations 4,295.66 feet (bottom of outlet gate) and 4,354.50 feet (top of radial gates). Spillway crest is at elevation 4,343.2 feet and top of radial gates is at elevation 4,354.50 feet. Contents as given computed from mean gage height; all available for release. Water is used on lands irrigated by several canals diverting from Snake River at Minidoka and Milner Dams. Gage-height record furnished by Bureau of Reclamation.

Contents, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	680,650	918,340	1,225,060	1,492,360	1,637,700	1,674,780	1,680,380	1,702,240	1,508,070
2	677,330	931,690	1,233,210	1,501,790	1,639,910	1,670,870	1,687,110	1,707,280	1,504,930
3	677,000	942,220	1,237,530	1,508,070	1,641,570	1,666,450	1,692,150	1,712,330	1,501,270
4	676,670	955,990	1,249,040	1,518,170	1,642,120	1,659,810	1,690,470	1,711,760	1,495,510
5	673,020	971,010	1,256,710	1,526,690	1,643,230	1,654,290	1,700,000	1,705,600	1,486,080
6	672,690	982,280	1,264,010	1,532,550	1,644,890	1,648,760	1,701,120	1,713,470	1,476,130
7	672,350	994,690	1,271,320	1,537,870	1,646,550	1,648,760	1,698,320	1,717,460	1,467,760
8	673,020	1,007,570	1,280,090	1,542,660	1,648,200	1,658,160	1,691,590	1,722,020	1,459,900
9	674,680	1,018,720	1,286,420	1,547,990	1,648,760	1,668,110	1,684,310	1,719,170	1,451,620
10	677,670	1,029,970	1,295,670	1,552,240	1,650,970	1,673,660	1,682,060	1,717,460	1,446,990
11	679,990	1,041,860	1,308,870	1,555,970	1,650,970	1,669,210	1,677,580	1,716,890	1,439,790
12	684,380	1,048,900	1,318,770	1,559,170	1,652,630	1,664,240	1,669,760	1,710,080	1,434,650
13	692,920	1,061,230	1,329,170	1,562,360	1,652,070	1,658,710	1,668,110	1,703,920	1,433,110
14	701,120	1,074,080	1,337,580	1,566,710	1,654,290	1,654,290	1,671,970	1,698,320	1,427,960
15	711,030	1,083,550	1,343,030	1,572,680	1,654,290	1,649,860	1,677,580	1,689,910	1,416,650
16	721,780	1,093,920	1,349,960	1,578,120	1,656,500	1,644,890	1,689,910	1,679,260	1,405,340
17	734,770	1,105,640	1,357,430	1,583,010	1,657,600	1,641,570	1,694,400	1,670,320	1,394,750
18	748,110	1,116,480	1,366,000	1,587,900	1,658,710	1,641,020	1,701,120	1,661,470	1,383,660
19	761,730	1,125,240	1,376,090	1,592,790	1,659,810	1,641,570	1,707,840	1,646,550	1,383,150
20	776,150	1,128,930	1,386,680	1,596,590	1,660,920	1,642,120	1,712,330	1,647,650	1,384,660
21	789,930	1,140,450	1,396,260	1,600,940	1,662,580	1,643,230	1,711,200	1,639,360	1,388,700
22	803,280	1,149,210	1,405,340	1,605,830	1,664,240	1,645,440	1,708,400	1,629,960	1,392,730
23	815,880	1,157,510	1,414,600	1,609,640	1,665,340	1,648,200	1,706,720	1,624,990	1,391,220
24	828,600	1,164,490	1,423,340	1,613,440	1,666,450	1,650,970	1,703,920	1,617,250	1,393,240
25	840,800	1,172,960	1,430,020	1,616,700	1,667,550	1,654,840	1,710,640	1,608,010	1,386,180
26	854,140	1,182,380	1,440,820	1,618,910	1,669,760	1,658,710	1,711,200	1,596,050	1,384,160
27	864,490	1,191,800	1,449,560	1,622,220	1,671,420	1,662,580	1,710,080	1,581,380	1,376,090
28	875,470	1,201,690	1,455,220	1,624,430	1,673,660	1,667,000	1,706,160	1,567,250	1,368,530
29	886,460	1,210,670	1,464,090	1,628,300	-	1,669,760	1,700,000	1,553,840	1,357,430
30	896,260	1,220,260	1,473,520	1,632,170	-	1,671,970	1,699,440	1,535,740	1,344,020
31	911,470	-	1,483,460	1,634,940	-	1,676,460	-	1,521,370	-

Day	July	Aug.	Sept.
1	1,330,160	858,710	411,640
2	1,313,820	846,510	398,050
3	1,300,540	833,940	390,620
4	1,283,490	820,320	380,350
5	1,270,350	806,610	370,590
6	1,255,750	788,820	358,750
7	1,243,760	778,320	350,690
8	1,231,290	762,810	340,920
9	1,219,300	749,520	331,900
10	1,206,400	735,120	321,220
11	1,191,800	719,670	312,590
12	1,176,260	706,590	304,090
13	1,160,280	690,530	296,050
14	1,142,760	676,010	288,420
15	1,125,700	660,730	285,750
16	1,106,990	645,550	281,520
17	1,091,660	628,150	278,410
18	1,077,680	611,540	275,510
19	1,060,790	594,660	272,170
20	1,036,570	578,310	268,920
21	1,024,300	560,440	265,460
22	1,008,420	545,300	261,140
23	990,400	528,580	257,030
24	975,180	514,240	254,860
25	960,580	501,430	253,560
26	944,720	488,850	250,970
27	929,670	474,740	247,580
28	913,490	459,520	247,370
29	897,440	446,320	249,060
30	884,100	433,870	252,050
31	871,940	422,830	-

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	4,332.09	684,720	-
Oct. 31	38.25	911,470	+226,750
Nov. 30	45.24	1,220,260	+308,790
Dec. 31	50.51	1,483,460	+263,200
Calendar year 1938	-	-	+533,310
Jan. 31	53.33	1,634,940	+151,480
Feb. 28	54.03	1,673,660	+38,720
Mar. 31	54.08	1,676,460	+2,800
Apr. 30	54.49	1,699,440	+22,980
May 31	51.23	1,521,370	-178,070
June 30	47.78	1,344,020	-177,350
July 31	37.25	871,940	-472,080
Aug. 31	23.26	422,830	-449,110
Sept. 30	16.08	252,050	-170,780
Water year 1938-39	-	-	-432,670

Capacity table, (gage height, in feet, and contents, in acre-feet)
(Prepared by Bureau of Reclamation using surveys made by that bureau)

4,296	730	4,320	340,920	4,344	1,161,660
4,300	18,900	4,324	442,280	4,348	1,354,910
4,304	53,600	4,328	554,690	4,352	1,562,360
4,308	104,610	4,332	681,650	4,355	1,728,290
4,312	170,580	4,336	824,030		
4,316	250,320	4,340	983,530		

Snake River at Neeley, Idaho

Location.- Water-stage recorder, lat. 42°45', long. 112°54', in sec. 31 T. 7 S., R. 31 E., about a mile below American Falls Dam. Records show flow at former site in sec. 11, T. 8 S., R. 30 E., 3 miles downstream and half a mile north of Neeley and were obtained by adding inflow of 40 second-feet to discharge measurements made at present site.

Records available.- March 1906 to September 1939.

Extremes.- Maximum discharge during year, 15,000 second-feet May 8, 9 (gage height, 6.62 feet); minimum, 203 second-feet Dec. 26 (gage height, 1.01 feet).
1906-39: Maximum daily discharge, 48,400 second-feet June 20, 1918 (gage height, 13.5 feet, former site and datum); minimum, 124 second-feet several days during November and December 1932 (gage height, 0.50 foot).

Remarks.- Records excellent. Flow regulated by American Falls Reservoir (capacity, 1,700,000 acre-feet). About 700,000 acres of land irrigated by water diverted from river and its tributaries above station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,760	1,060	2,170	954	4,420	5,080	6,480	10,800	10,300	10,600	10,400	8,970
2	3,690	1,040	2,360	972	4,460	7,090	6,480	10,900	10,300	10,800	10,500	8,930
3	3,340	1,050	2,640	973	4,170	7,600	6,520	12,700	10,300	11,000	10,600	8,890
4	3,950	1,050	2,630	1,530	4,120	8,280	7,360	15,000	10,500	11,400	10,700	8,240
5	4,010	1,000	2,680	2,490	4,160	8,320	9,420	13,000	10,700	11,400	10,800	8,280
6	4,010	1,000	2,230	2,990	4,220	8,360	10,400	11,900	10,700	10,700	10,800	8,680
7	3,620	1,010	2,150	2,690	4,170	908	12,300	12,000	10,400	10,500	10,900	8,440
8	3,430	1,030	2,180	2,430	4,130	265	12,400	14,000	10,200	10,100	11,200	8,280
9	3,490	1,020	2,180	2,450	4,170	265	12,400	13,900	10,200	10,100	11,300	8,040
10	3,490	1,010	654	2,810	4,170	5,580	12,300	10,400	9,710	10,500	11,300	7,920
11	3,510	1,010	659	3,060	4,140	8,320	12,300	10,400	9,420	11,100	11,200	8,000
12	2,120	1,040	1,200	3,200	4,270	8,320	10,800	10,300	9,420	11,300	11,100	8,000
13	1,630	1,040	1,310	3,230	4,150	8,320	8,020	10,100	9,420	11,200	11,100	7,560
14	1,600	1,040	1,310	3,200	4,210	8,320	5,820	10,200	9,420	11,200	11,100	6,590
15	1,220	1,050	1,310	2,080	4,200	8,280	5,820	10,600	9,670	11,100	11,000	6,300
16	1,030	1,540	1,130	3,260	4,130	8,240	5,890	10,600	9,800	11,100	11,100	5,930
17	675	1,850	877	3,240	4,120	7,030	5,890	10,800	9,800	11,100	11,300	5,460
18	331	2,650	856	3,240	4,100	5,600	5,930	10,800	9,800	11,100	11,300	5,110
19	270	2,690	784	3,240	4,120	5,570	7,200	10,900	8,800	11,400	11,400	5,760
20	270	2,690	760	3,300	4,120	5,570	9,970	10,500	8,200	11,700	11,400	5,250
21	270	2,630	918	3,290	4,100	5,600	11,300	10,300	8,200	11,600	11,400	5,360
22	270	2,010	973	3,300	4,100	5,600	11,300	10,300	8,520	11,600	11,500	5,440
23	270	1,430	1,400	3,300	4,110	5,570	11,300	10,100	9,050	11,600	11,300	5,020
24	270	1,360	1,080	3,310	4,120	5,570	11,400	9,840	9,760	11,500	10,900	4,050
25	273	764	1,090	3,300	4,080	6,000	12,400	10,000	10,400	11,500	10,600	4,050
26	998	714	678	3,290	4,030	6,440	14,000	10,700	10,700	11,500	10,400	4,040
27	1,020	702	1,120	3,310	4,080	6,440	14,000	10,900	10,900	11,500	10,600	3,950
28	1,020	713	1,010	3,220	4,040	6,440	14,000	10,600	10,700	11,400	10,700	3,080
29	1,020	720	969	3,230	-	7,240	12,800	10,400	10,200	11,100	10,400	2,170
30	1,030	1,100	962	3,480	-	6,480	11,200	10,400	10,400	10,600	9,500	1,170
31	1,050	-	954	4,410	-	6,480	-	10,400	-	10,400	9,130	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	58,937	5,760	270	1,901	116,900
November	39,013	2,690	702	1,300	77,380
December	43,224	2,680	654	1,394	85,730
Calendar year 1938	2,423,703	24,700	270	6,640	4,807,000
January	88,779	4,410	954	2,864	176,100
February	116,410	4,460	4,030	4,158	230,900
March	193,178	8,360	265	6,232	383,200
April	297,400	14,000	5,820	9,913	589,900
May	343,740	15,000	9,340	11,090	681,800
June	295,890	10,900	8,200	9,863	586,900
July	343,700	11,700	10,100	11,090	681,700
August	336,930	11,500	9,130	10,870	668,300
September	186,960	8,970	1,170	6,232	370,800
Water year 1938-39	2,344,161	15,000	265	6,422	4,650,000

Lake Walcott near Minidoka, Idaho

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

Drainage area.- 15,700 square miles.

Records available.- April 1909 to September 1917 (gage heights only), October 1917 to September 1939.

Extremes.- Maximum contents during year, 98,560 acre-feet June 10 (gage height, 45.28 feet); minimum, 61,830 acre-feet Nov. 20 (gage height, 42.05 feet).

1909-39: Maximum contents, 110,740 acre-feet Aug. 8, 1922 (gage height, 46.28 feet); minimum, -9,040 acre-feet Nov. 1, 1913 (gage height, 35.00 feet).

Remarks.- Dam completed by Bureau of Reclamation in 1909. Capacity of reservoir 96,700 acre-feet between gage heights 36.00 feet (bottom of outlet gates) and 45.13 feet (crest of spillway). Dead storage unknown. Water stored below gage height 36 feet cannot be withdrawn for irrigation through canals that divert from lake. Gage read twice daily, at 6:00 a.m. and 4:00 p.m.; contents as given computed from mean gage height, all available for release. Water is used for irrigation of lands on Minidoka project of Bureau of Reclamation. Gage-height record furnished by Bureau of Reclamation.

Capacity table (gage height, in feet, and contents, in acre-feet)
(Prepared by Bureau of Reclamation from maps or surveys of that bureau)

35	-9,040	39	29,590	43	72,260
36	0	40	39,960	44	83,540
37	9,540	41	50,520	45	95,180
38	19,440	42	61,280	46	107,240

Contents, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	79,590	70,730	64,360	66,990	69,630	71,610	75,530	95,910	93,550	95,430	93,790	94,600
2	78,580	70,840	64,360	66,550	70,070	74,970	75,650	95,910	94,370	94,840	94,950	93,320
3	77,790	70,950	65,010	66,330	70,180	76,210	75,200	96,510	94,250	94,840	94,720	95,310
4	77,680	69,410	66,330	66,660	70,070	77,230	73,730	95,790	93,550	94,370	94,720	95,180
5	77,110	69,960	66,110	67,650	69,740	76,890	75,200	94,250	94,250	95,910	94,720	94,840
6	77,230	68,970	66,220	66,990	70,070	76,770	78,580	95,180	95,670	96,630	93,790	93,550
7	77,110	68,310	65,120	67,430	69,960	72,830	80,720	95,180	97,110	97,720	94,490	94,370
8	77,900	67,870	65,670	66,550	70,510	66,770	81,620	96,630	97,110	97,840	93,900	94,370
9	80,380	67,320	65,450	65,890	69,630	65,230	81,280	95,910	97,350	97,590	94,490	94,370
10	82,300	66,990	65,230	65,560	69,630	65,120	82,520	95,910	98,560	96,510	94,720	93,790
11	83,770	66,990	65,230	66,330	69,950	72,940	82,190	96,270	98,080	96,390	94,600	93,200
12	86,330	66,990	65,230	67,100	70,070	76,440	81,400	96,150	97,590	95,910	94,720	93,440
13	85,170	67,430	65,890	68,090	69,850	77,450	84,240	95,910	97,110	96,150	94,720	93,440
14	84,010	67,540	66,330	68,750	69,850	77,450	84,940	95,670	96,630	95,910	94,840	94,370
15	82,190	66,770	66,770	67,650	70,180	77,110	85,400	95,910	95,180	95,670	94,490	95,070
16	81,740	66,110	66,770	66,770	69,740	76,890	89,940	94,950	95,180	94,950	94,490	95,180
17	80,720	64,580	66,770	68,090	69,850	76,770	91,230	95,670	95,070	95,430	94,020	94,600
18	79,480	63,370	66,220	68,750	69,850	74,630	92,160	95,670	95,670	95,670	93,670	93,550
19	77,680	61,940	66,110	68,970	69,960	74,070	91,340	94,250	98,080	95,180	94,020	93,200
20	75,980	61,830	65,670	68,970	70,070	73,840	94,720	96,150	97,840	93,900	94,490	92,620
21	74,070	64,360	65,450	69,410	70,950	73,620	95,310	95,670	97,590	95,550	93,900	91,810
22	72,600	66,110	65,450	68,970	71,610	73,390	94,840	95,430	96,630	95,670	94,250	90,990
23	71,500	66,440	65,670	69,080	71,390	73,390	94,250	95,910	94,720	95,790	94,950	90,290
24	70,510	67,210	66,330	69,190	71,500	73,390	94,020	95,310	95,070	96,390	93,070	88,200
25	69,190	67,430	65,780	68,970	71,500	73,170	95,180	94,490	93,550	97,110	94,490	87,270
26	69,190	66,990	66,330	69,080	71,830	73,840	95,430	94,020	94,950	97,350	94,720	86,330
27	69,410	66,880	65,890	69,190	71,500	73,840	95,070	94,250	95,910	97,470	94,600	84,940
28	69,960	66,660	65,890	69,190	71,610	74,290	94,720	94,950	97,230	97,110	94,600	82,860
29	69,960	66,550	66,330	68,530	-	74,520	94,720	95,180	96,990	97,350	93,180	80,490
30	70,510	66,220	66,440	68,090	-	75,200	95,910	94,020	95,910	97,590	93,310	76,770
31	71,170	-	66,550	68,750	-	74,970	-	94,250	-	96,510	93,310	-

Gage height, and contents, water year October 1938 to September 1939

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	43.64	79,480	-
Oct. 31	42.90	71,170	-8,310
Nov. 30	42.45	66,220	-4,950
Dec. 31	42.48	66,550	+330
Calendar year 1938	-	-	-440
Jan. 31	42.68	68,750	+2,200
Feb. 28	42.94	71,610	+2,860
Mar. 31	43.24	74,970	+3,360
Apr. 30	45.06	95,910	+20,940
May 31	44.92	94,250	-1,660
June 30	45.06	95,910	+1,660
July 31	45.11	96,510	+600
Aug. 31	45.01	95,310	-1,200
Sept. 30	43.40	76,770	-18,540
Water year 1938-39	-	-	-2,710

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.

Records available.- April 1910 to September 1939. August 1895 to December 1899 and May 1901 to December 1910 at site at Montgomery Ferry, 6 miles downstream.

Extremes.- Maximum discharge during year, 13,300 second-feet Apr. 10 (gage height, 9.07 feet); minimum, 370 second-feet Oct. 26 (gage height, 2.60 feet).
1910-39: 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 and Lake Walcott reservoirs (capacities, 1,700,000 and 96,700 acre-feet, respectively) and greatly reduced by diversions, 1 mile upstream, for irrigation on Minidoka Project.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,300	710	2,550	1,130	4,160	4,300	6,550	8,310	7,930	7,850	8,360	6,580
2	2,930	721	2,060	1,120	4,330	6,060	6,740	8,340	7,820	7,960	8,360	6,720
3	2,260	874	2,160	1,120	4,400	7,070	6,480	9,350	7,660	8,170	8,310	6,530
4	2,300	1,110	2,260	1,160	4,360	8,310	6,060	12,200	7,690	8,360	8,230	6,320
5	2,630	1,090	2,430	2,480	4,290	8,470	8,060	11,000	7,820	8,200	8,150	5,680
6	2,750	1,090	2,580	2,950	4,310	8,250	9,030	9,230	7,770	8,010	8,340	6,690
7	2,670	1,020	2,310	2,990	4,310	6,240	10,700	9,380	7,710	7,880	8,250	6,450
8	1,980	829	2,140	3,060	4,510	2,510	11,500	11,000	7,660	7,900	8,310	6,240
9	1,670	811	2,060	2,910	4,270	1,140	11,800	12,000	7,820	8,010	8,440	6,190
10	1,630	698	1,030	2,720	4,270	2,040	12,500	7,850	7,580	8,060	8,390	6,190
11	1,670	693	644	2,740	4,220	5,440	11,900	7,900	7,550	8,250	8,280	6,190
12	1,630	698	733	2,810	4,290	7,820	9,610	7,800	7,630	8,420	8,230	6,010
13	1,590	688	887	3,080	4,360	8,400	6,450	7,470	7,520	8,250	8,090	5,760
14	1,620	693	1,050	3,300	4,290	8,400	4,600	7,630	7,420	8,280	8,040	5,320
15	1,600	970	1,290	3,200	4,290	8,440	4,160	7,800	7,520	8,280	8,060	4,850
16	1,380	1,440	1,270	3,120	4,300	8,360	3,860	7,710	7,550	8,360	8,060	5,060
17	1,120	2,260	1,220	3,340	4,300	8,310	4,050	7,900	7,710	8,250	8,230	4,850
18	817	2,860	1,180	3,380	4,310	6,980	4,310	8,150	7,710	8,150	8,310	4,420
19	721	2,770	1,140	3,470	4,330	6,450	4,960	8,010	7,090	8,170	8,200	4,380
20	733	1,680	1,090	3,570	3,970	6,320	7,070	7,960	6,800	8,720	8,170	4,510
21	757	1,400	1,080	3,420	3,950	6,160	9,490	7,610	6,880	8,470	8,280	4,690
22	660	1,200	1,070	3,380	4,200	6,040	9,380	7,740	7,090	8,360	8,280	4,800
23	511	1,140	1,080	3,320	4,200	5,910	9,290	7,900	7,440	8,390	8,200	4,760
24	516	1,040	1,120	3,510	4,290	5,860	9,000	8,060	7,610	8,420	8,090	3,470
25	460	963	1,140	3,470	4,300	5,910	9,350	7,980	8,060	8,310	8,040	3,220
26	416	763	1,120	3,490	4,300	6,370	11,400	8,170	7,800	8,360	8,010	3,200
27	478	763	1,100	3,490	4,300	6,480	11,400	8,060	7,580	8,420	8,010	3,240
28	469	710	1,090	3,660	4,300	6,580	11,200	7,740	7,550	8,310	7,980	3,260
29	483	698	1,040	3,760	-	6,530	10,400	7,550	7,580	8,200	7,820	3,010
30	455	1,230	1,060	3,700	-	6,580	8,610	7,740	7,710	8,170	7,170	2,700
31	541	-	1,090	3,890	-	6,500	-	7,850	-	8,280	6,580	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	42,747	3,300	416	1,379	84,790
November	33,612	2,860	688	1,120	66,670
December	44,074	2,580	644	1,422	87,420
Calendar year 1938	2,015,852	22,300	416	5,523	3,998,000
January	92,740	3,890	1,120	2,992	183,900
February	119,710	4,510	3,950	4,275	237,400
March	198,230	8,470	1,140	6,395	393,200
April	249,910	12,500	3,860	8,330	495,700
May	263,390	12,200	7,470	8,496	522,400
June	227,260	8,060	6,800	7,575	450,800
July	255,220	8,720	7,850	8,233	506,200
August	251,270	8,440	6,580	8,105	498,400
September	151,290	6,720	2,700	5,043	300,100
Water year 1938-39	1,929,453	12,500	416	5,286	3,827,000

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.

Records available.- May 1909 to September 1939.

Extremes.- Maximum discharge during year, 11,000 second-feet Apr. 8 (gage height, 13.93 feet); minimum, 5 second-feet June 15-17 (gage height, 1.32 feet).
1909-39: Maximum discharge, 44,400 second-feet June 12, 1909 (gage height, 20.10 feet, former site); minimum, 2 second-feet Mar. 17-28, 1936 (gage height, 1.18 feet).

Remarks.- Records good. Flow regulated by American Falls and Lake Walcott reservoirs (capacities, 1,700,000 and 96,700 acre-feet, respectively) and greatly reduced by diversions for irrigation at Minidoka Dam and at Milner Dam. Station is below all irrigation diversions from upper Snake River. Flow includes some stored water used downstream by Idaho Power Co.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	272	421	1 910	307	2,930	3,580	5,220	988	8	7	9	9
2	285	453	1,560	307	3,260	4,260	5,600	479	9	7	9	9
3	277	483	1,320	304	3,460	5,930	5,330	798	11	6	9	9
4	555	475	2,130	304	3,560	6,780	4,270	4,190	7	6	9	10
5	982	483	1,650	763	3,350	7,780	4,600	3,410	6	18	9	9
6	1,230	479	1,880	2,260	3,350	8,020	7,200	1,140	6	15	9	9
7	1,290	483	1,800	2,480	3,370	6,610	7,280	1,660	6	13	8	9
8	949	479	1,950	1,580	3,580	3,190	9,230	2,570	6	8	8	9
9	918	479	1,580	2,290	3,020	1,110	8,280	4,630	6	7	8	9
10	875	475	656	2,270	2,910	276	9,730	1,110	6	7	11	9
11	618	475	394	1,980	3,820	3,590	9,580	47	6	7	12	9
12	280	479	307	2,190	3,900	6,470	7,050	58	6	7	13	9
13	269	479	307	1,990	3,750	7,740	3,520	26	6	9	10	9
14	267	475	304	2,710	3,960	8,150	922	20	6	8	10	11
15	269	475	307	2,240	3,410	7,990	922	20	5	8	9	244
16	264	475	304	2,020	3,920	7,690	1,020	15	5	7	8	282
17	267	464	304	1,900	3,680	7,900	144	72	5	7	8	282
18	267	483	307	2,410	3,530	6,910	97	277	6	7	8	280
19	267	479	307	2,800	3,250	5,790	92	269	27	8	8	280
20	267	457	307	2,540	3,490	5,670	480	269	12	8	8	280
21	261	472	307	2,740	3,300	5,550	3,820	267	7	9	8	293
22	269	472	307	2,570	3,330	5,330	3,410	267	6	9	8	324
23	264	491	307	2,400	3,460	5,280	2,960	267	6	9	8	324
24	269	518	307	2,540	3,460	5,110	2,110	267	6	9	9	326
25	272	526	301	2,750	3,410	5,060	2,360	277	6	9	9	324
26	288	518	304	2,520	3,470	5,330	4,130	282	7	9	8	326
27	288	518	310	2,840	3,630	5,810	4,450	282	9	11	11	326
28	344	518	304	2,750	3,630	6,450	4,120	33	8	15	9	326
29	421	518	304	2,950	-	6,230	2,960	16	9	11	9	324
30	425	633	304	3,000	-	6,290	1,460	10	7	10	9	324
31	425	-	304	2,960	-	5,300	-	8	-	9	9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	14,194	1,290	261	453	28,150
November	14,635	633	421	483	29,030
December	22,943	2,130	301	740	45,510
Calendar year 1938	738,166	17,700	5	2,022	1,464,000
January	65,665	3,000	304	2,118	130,200
February	97,190	3,960	2,910	3,471	192,800
March	177,176	8,150	276	5,715	351,400
April	122,347	9,730	92	4,073	242,700
May	24,024	4,630	8	775	47,650
June	226	27	5	7.5	448
July	280	18	6	9.0	555
August	280	13	8	9.0	555
September	4,994	326	9	166	9,910
Water year 1938-39	543,954	9,730	5	1,490	1,079,000

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 1939.

Average discharge.- 16 years, 2,313 second-feet.

Extremes.- Maximum discharge during year, 11,800 second-feet Apr. 8 (gage height, 15.10 feet), from rating curve extended above 6,000 second-feet; minimum discharge recorded, 28 second-feet June 10 (gage height, 1.26 feet).

1923-39: Maximum discharge, 27,200 second-feet July 4, 1927 (gage height, 14.76 feet, former site and datum); minimum, undetermined leakage through Twin Falls power plant at times since Nov. 23, 1935.

Remarks.- Records good except those for periods of missing or incomplete gage-height record, Mar. 12-15, Apr. 18-20, May 23, 26, May 28 to June 1, which were computed on basis of records for stations at Milner and near Twin Falls and are fair. Practically entire flow is diverted at Milner during irrigation season; no diversions between Milner and Kimberly.

Rating table, water year 1938-39 (gage height in feet, and discharge, in second-feet)

2.5	110	4.5	420	8.0	2,030	12.0	5,830
3.0	169	5.0	545	9.0	2,690	13.0	7,540
3.5	240	6.0	930	10.0	3,430	14.0	9,450
4.0	324	7.0	1,450	11.0	4,480	15.1	11,730

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	775	916	1,790	672	3,400	3,920	5,440	1,350	360	401	389	420
2	686	926	2,440	545	3,780	4,280	5,840	1,160	300	153	404	367
3	862	898	1,720	731	3,900	6,290	5,710	898	353	559	420	366
4	795	903	2,480	767	4,020	7,100	4,730	3,550	325	199	399	372
5	1,200	898	2,450	781	3,810	8,380	4,360	4,090	337	536	389	368
6	1,720	955	2,250	2,110	3,760	8,850	7,670	2,240	351	409	377	381
7	1,990	903	2,430	2,770	3,760	7,560	7,630	1,600	312	398	395	442
8	1,700	960	2,340	2,240	3,900	4,550	9,930	2,460	349	378	394	441
9	1,540	955	2,430	2,610	3,530	2,070	9,230	4,900	341	381	397	473
10	1,530	1,000	1,720	2,750	2,960	1,160	10,500	2,820	378	382	400	453
11	1,440	995	1,030	2,570	4,040	2,730	10,500	699	326	365	397	421
12	1,040	970	1,000	2,530	4,440	6,700	8,090	366	366	367	401	458
13	812	890	739	2,430	3,870	8,200	4,630	416	347	372	400	445
14	718	930	683	2,930	4,120	8,800	2,100	243	346	358	408	526
15	844	955	723	2,940	3,740	8,600	1,530	342	345	359	395	539
16	746	926	668	2,320	4,130	8,320	1,250	340	354	342	390	574
17	787	1,000	691	2,660	3,960	8,720	1,020	327	382	368	429	647
18	742	985	569	2,450	3,810	7,980	600	395	353	396	394	723
19	700	980	664	3,230	3,590	6,360	400	559	425	363	432	766
20	664	760	731	3,160	3,870	6,040	500	598	439	364	402	767
21	724	960	771	3,020	3,620	5,920	2,890	563	378	367	414	764
22	800	935	787	3,030	3,530	5,720	3,910	600	367	397	416	780
23	724	916	787	2,860	3,770	5,640	3,430	605	363	363	412	793
24	742	995	735	3,030	3,740	5,480	2,910	609	392	373	420	790
25	737	995	421	3,170	3,700	5,380	2,840	590	351	412	421	791
26	711	995	799	3,140	3,750	5,590	4,040	580	315	389	422	800
27	738	955	687	3,120	3,910	6,070	4,960	572	351	402	426	800
28	765	965	664	3,300	3,990	6,870	4,560	500	358	398	418	796
29	965	975	813	3,360	-	6,600	4,090	375	394	394	395	822
30	707	1,000	767	3,500	-	6,810	2,370	370	351	384	398	802
31	812	-	723	3,400	-	5,860	-	365	-	396	413	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	29,716	1,990	664	959	58,940
November	28,396	1,000	760	947	56,320
December	37,502	2,480	421	1,210	74,380
Calendar year 1938	892,561	18,500	-	2,445	1,770,000
January	78,126	3,500	545	2,520	155,000
February	106,400	4,440	2,960	3,800	211,000
March	192,550	6,850	1,160	6,211	381,900
April	137,660	10,500	400	4,589	273,000
May	35,082	4,900	243	1,132	69,580
June	10,709	439	300	357	21,240
July	11,725	559	153	378	23,260
August	12,567	432	377	405	24,930
September	17,887	822	366	596	35,480
Water year 1938-39	698,320	10,500	153	1,913	1,385,000

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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 1939.

Average discharge.- 25 years (1911-16, 1919-39), 3,901 second-feet.

Extremes.- Maximum discharge during year, 12,100 second-feet Apr. 8 (gage height, 8.38 feet); minimum, 335 second-feet (estimated) July 3 (gage height, 1.84 feet).
1911-17, 1919-39: Maximum discharge, 32,200 second-feet June 10, 1914 (gage height, 13.3 feet); minimum, 250 second-feet (estimated) Apr. 16, 1936.

Remarks.- Records good except those for periods of missing gage heights, May 19, 20, May 25 to June 7, which were computed on basis of records for stations at Milner and near Kimberly and are fair. 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 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	952	1,040	1,610	886	3,720	4,300	5,810	1,410	530	566	620	685
2	944	1,090	2,610	808	4,150	4,520	6,160	1,270	530	456	633	692
3	995	1,060	1,920	741	4,300	6,580	6,140	1,000	540	556	626	706
4	1,020	1,070	2,430	830	4,520	7,400	5,280	2,880	550	481	620	727
5	1,160	1,060	2,720	862	4,260	8,700	4,720	4,500	550	633	620	720
6	1,730	1,080	2,270	1,570	4,210	9,270	7,620	2,660	560	727	614	692
7	2,060	1,080	2,600	2,930	4,210	8,290	7,840	1,690	570	633	620	727
8	1,990	1,120	2,400	2,770	4,340	5,230	10,000	2,130	578	614	626	727
9	1,730	1,140	2,710	2,500	4,040	2,000	9,590	4,860	572	608	626	720
10	1,680	1,180	1,970	2,920	3,090	1,420	10,500	3,610	572	608	620	741
11	1,640	1,170	1,340	2,800	4,380	1,170	10,800	1,110	554	602	646	748
12	1,380	1,130	1,140	2,600	5,000	6,760	8,810	633	572	560	646	741
13	1,080	1,100	1,020	2,660	4,300	8,420	5,150	566	572	554	646	734
14	961	1,060	936	2,980	4,580	8,960	2,510	465	549	578	646	748
15	1,000	1,110	886	3,340	4,240	9,140	1,460	414	527	578	640	862
16	970	1,090	894	2,460	4,500	8,620	1,240	432	538	578	640	755
17	1,090	1,160	878	2,820	4,360	8,940	1,210	432	572	578	633	927
18	1,030	1,140	815	2,400	4,190	8,290	886	480	549	566	633	936
19	978	1,130	800	3,590	4,000	6,740	532	680	596	578	633	961
20	902	1,050	870	3,590	4,170	6,370	465	700	626	572	620	986
21	870	1,010	894	3,220	3,980	6,250	2,310	666	614	602	626	995
22	986	1,100	944	3,430	3,810	6,100	4,230	706	584	584	652	995
23	995	1,080	961	3,090	4,110	5,940	3,790	720	522	584	640	1,010
24	894	1,130	952	3,170	4,110	5,860	3,140	727	538	584	633	1,010
25	894	1,140	785	3,450	4,110	5,700	2,800	730	560	596	652	1,000
26	918	1,140	699	3,480	4,090	5,880	3,920	730	566	602	678	1,030
27	927	1,110	936	3,170	4,260	6,320	5,320	730	538	596	646	1,030
28	894	1,080	927	3,680	4,360	7,110	4,920	650	516	596	666	1,020
29	1,000	1,100	862	3,640	-	6,970	4,460	530	527	602	692	1,030
30	1,040	1,130	878	3,880	-	7,090	2,550	520	560	602	666	1,040
31	978	-	918	3,720	-	6,250	-	520	-	602	666	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	35,688	2,060	870	1,151	70,790
November	33,080	1,180	1,010	1,103	65,610
December	42,575	2,720	699	1,373	84,450
Calendar year 1938	986,936	19,400	386	2,704	1,958,000
January	83,987	3,880	741	2,709	166,600
February	117,390	5,000	3,090	4,192	232,800
March	200,590	9,270	1,170	6,471	397,900
April	144,163	10,800	465	4,805	285,900
May	39,151	4,860	414	1,263	77,650
June	16,732	626	516	558	33,190
July	18,176	727	456	586	36,050
August	19,825	692	614	640	39,320
September	25,695	1,040	685	856	50,970
Water year 1938-39	777,052	10,800	414	2,129	1,541,000

Snake River near Hagerman, Idaho

Location.- Water-stage recorder, lat. 42°46', long. 114°53', in NW¼ sec. 1, T. 8 S., R. 13 E., just upstream from Upper Salmon Falls, an eighth of a mile upstream from Owsley Bridge, 4 miles south of Hagerman, and 11 miles upstream from Big Wood River. Zero of gage is 2,873.46 feet above mean sea level.

Records available.- August 1912 to June 1917, July 1919 to September 1939.

Average discharge.- 23 years (1912-15, 1919-39), 8,105 second-feet.

Extremes.- Maximum discharge during year, about 15,300 second-feet Apr. 10 (gage height, 6.68 feet), determined by comparison with records for station at Lower Salmon Falls; minimum, about 4,600 second-feet May 16 (gage height, 4.45 feet).

1912-17, 1919-39: Maximum discharge, 35,100 second-feet June 10, 1914; maximum gage height, 9.12 feet June 7, 1936; minimum discharge, 4,030 second-feet July 15 to Aug. 2, 1915 (gage height, 3.1 feet). Data in 1916 and 1917 insufficient for determination of maximum and minimum discharge.

Remarks.- Records good. Discharge for periods of missing gage heights or doubtful stage-discharge relation, Jan. 11 to Apr. 30, May 5, 10, computed on basis of three discharge measurements, available gage heights, and records for station below Lower Salmon Falls. Stage-discharge relation doubtful during period when gates in dam were changed, Mar. 14 to Apr. 1, and on days when discharge was above 8,000 second-feet. Practically entire flow of river diverted at Milner during irrigation season; only minor diversions below Milner.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,500	6,640	6,420	6,250	8,500	8,900	9,700	6,740	5,200	5,160	5,550	5,900
2	6,560	6,640	7,340	6,250	8,500	8,900	10,300	6,110	5,130	5,200	5,550	5,900
3	6,560	6,460	7,540	6,140	8,800	10,300	10,800	5,860	5,100	5,020	5,620	5,970
4	6,700	6,360	7,200	6,080	9,100	11,400	10,100	5,830	5,200	5,340	5,620	6,040
5	6,740	6,320	7,790	6,180	9,000	12,500	9,000	8,500	5,340	5,480	5,620	6,040
6	7,060	6,250	7,480	6,250	8,900	13,200	10,700	7,930	5,200	5,860	5,580	5,860
7	7,400	6,250	7,540	7,760	8,900	13,300	12,100	6,460	5,270	5,800	5,620	5,940
8	7,620	6,420	7,540	7,900	8,850	11,600	13,300	6,560	5,300	5,660	5,580	6,140
9	7,480	6,600	7,650	7,370	8,900	8,000	14,100	7,820	5,410	5,620	5,580	6,140
10	7,260	6,670	7,440	7,760	8,150	7,000	13,900	9,200	5,410	5,620	5,580	6,180
11	7,200	6,640	6,950	7,850	8,350	6,350	14,900	6,460	5,440	5,520	5,620	6,220
12	7,060	6,420	6,500	7,600	9,300	8,400	14,200	5,440	5,410	5,410	5,660	6,280
13	*6,950	6,420	6,360	7,750	9,100	12,500	11,100	5,060	5,440	5,380	5,660	6,360
14	*6,850	6,390	6,110	7,930	9,100	13,200	8,600	4,990	5,410	5,340	5,660	6,320
15	6,740	6,420	6,180	8,180	9,100	13,700	6,700	4,850	5,300	5,340	5,660	6,360
16	6,740	6,420	6,250	7,650	8,900	13,100	6,500	4,780	5,380	5,340	5,620	6,280
17	6,920	6,360	6,280	7,700	9,150	13,300	6,150	4,820	5,550	5,380	5,620	6,360
18	6,880	6,360	6,280	7,500	9,000	13,500	5,860	4,820	5,720	5,380	5,580	6,560
19	6,640	6,390	6,250	8,200	8,800	12,100	5,350	4,990	5,720	5,380	5,620	6,500
20	6,500	6,420	6,250	8,300	8,650	11,300	5,100	5,100	5,800	5,340	5,620	6,460
21	6,360	6,250	6,250	7,900	8,850	11,100	5,000	5,160	5,690	5,380	5,620	6,500
22	6,390	6,250	*6,270	8,000	8,550	10,900	8,100	5,340	5,550	5,380	5,690	6,460
23	6,460	6,220	*6,300	7,900	8,650	10,600	6,250	5,380	5,380	5,410	5,720	6,460
24	6,460	6,180	6,320	7,900	8,750	10,500	7,960	5,440	5,270	5,410	5,760	6,420
25	6,280	6,220	6,250	8,100	8,750	10,200	7,300	5,440	5,300	5,440	5,720	6,390
26	6,180	6,320	5,860	8,300	8,700	10,200	7,650	5,380	5,340	5,440	5,800	6,420
27	6,140	6,320	5,940	7,860	8,750	10,800	9,200	5,340	5,340	5,440	5,800	6,420
28	6,080	6,320	6,220	8,400	8,950	11,300	9,200	5,340	5,240	5,440	5,630	6,420
29	6,080	6,360	6,320	8,400	-	11,500	8,800	5,200	5,160	5,480	5,860	6,420
30	6,500	6,390	6,250	8,600	-	11,100	7,760	5,020	5,130	5,480	5,660	6,460
31	6,560	-	6,250	8,550	-	10,900	-	4,990	-	5,550	5,860	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	207,850	7,620	6,080	6,705	412,300
November	191,680	6,670	6,180	6,389	380,200
December	205,580	7,790	5,860	6,632	407,800
Calendar year 1938	2,802,510	22,300	5,000	7,678	5,559,000
January	236,510	8,600	6,080	7,629	469,100
February	247,000	9,300	8,150	8,821	489,900
March	341,650	13,700	6,350	11,020	677,700
April	277,680	14,900	5,000	9,256	550,800
May	180,350	9,200	4,780	5,818	357,700
June	161,130	5,800	5,100	5,371	319,600
July	168,420	5,660	5,020	5,433	334,100
August	175,740	5,860	5,550	5,669	348,600
September	188,160	6,560	5,860	6,273	373,200
Water year 1938-39	2,581,770	14,900	4,780	7,073	5,121,000

*Interpolated.

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 1939.

Extremes.- Maximum discharge during year, 15,800 second-feet Apr. 10 (gage height, 10.93 feet); minimum, 4,060 second-feet (regulated) June 1 (gage height, 5.58 feet), from rating curve extended below 6,000 second-feet.

1938-39: Maximum discharge during period, 23,800 second-feet May 6 (gage height, 13.93 feet); minimum, about 3,800 second-feet (regulated) Mar. 28, 29 (gage height, 5.40 feet), from rating curve extended below 6,000 second-feet.

Remarks.- Records excellent. Flow regulated by operation of 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 1938 to September 1939

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

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	226,900	8,360	6,720	7,319	450,000
November	210,380	7,300	6,800	7,013	417,300
December	222,120	8,520	6,380	7,165	440,600
Calendar year 1938	2,992,200	22,800	5,200	8,198	5,935,000
January	252,720	9,120	6,520	8,152	501,300
February	261,420	9,660	8,680	9,336	518,500
March	357,300	14,200	6,860	11,530	708,700
April	292,640	15,400	5,540	9,755	580,400
May	198,140	9,700	5,320	6,392	393,000
June	180,800	6,480	5,700	6,027	358,600
July	187,860	6,520	5,720	6,060	372,600
August	192,800	6,420	6,120	6,219	382,400
September	206,900	7,220	6,440	6,897	410,400
Water year 1938-39	2,789,980	15,400	5,320	7,644	5,534,000

Snake River at King Hill, Idaho

Location.- Water-stage recorder, lat. 43°00', long. 115°11', in SW¼ sec. 7, 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 1939.

Average discharge.- 30 years, 10,740 second-feet.

Extremes.- Maximum discharge during year, 17,800 second-feet Apr. 11 (gage height, 9.34 feet); minimum, 6,060 second-feet June 1 (gage height, 5.32 feet).
1909-39: Maximum discharge, 47,200 second-feet June 22, 1918 (gage height, 16.3 feet); minimum, 4,760 second-feet July 7-9, Aug. 15, 16, 1910 (gage height, 4.5 feet.

Remarks.- Records excellent. Discharge for periods of missing gage heights, Sept. 11-16, 18-24, computed on basis of records for stations below Lower Salmon Falls (near Hagerman) and near Murphy; that for Sept. 17 computed on basis of once-daily staff-gage reading. Practically entire flow at Milner diverted during irrigation season, so that flow at King Hill is derived largely from springs and from seepage entering below Milner.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 3 to Sept. 30)

5.2	5,880	6.8	9,800	8.4	14,610
5.6	6,780	7.2	10,910	8.8	15,950
6.0	7,730	7.6	12,090	9.2	17,340
6.4	8,740	8.0	13,320	9.6	18,770

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,640	8,900	8,640	8,300	10,700	11,300	13,900	8,920	6,800	7,150	7,390	7,610
2	8,950	9,050	9,130	8,300	10,600	11,200	14,100	7,960	6,850	6,870	7,320	7,610
3	8,920	8,870	10,200	8,260	10,900	12,100	14,600	7,680	6,830	7,010	7,320	7,630
4	9,000	8,950	9,850	8,130	11,100	13,400	14,300	7,470	6,780	6,940	7,320	7,680
5	9,030	8,710	10,200	8,180	11,300	14,300	12,700	9,660	7,010	7,180	7,350	7,780
6	9,230	8,580	10,200	8,280	11,200	15,100	12,700	10,400	6,940	7,680	7,320	7,680
7	9,660	8,530	9,850	9,080	11,100	15,400	14,200	8,790	6,960	7,660	7,300	7,540
8	10,000	8,610	10,100	10,000	11,100	13,900	14,600	8,200	7,060	7,510	7,300	7,830
9	10,100	8,840	9,960	9,720	11,200	10,900	16,500	8,900	7,180	7,420	7,300	7,830
10	9,720	8,900	10,100	9,880	10,800	9,310	16,200	11,200	7,200	7,390	7,270	7,780
11	9,640	8,900	9,310	10,200	10,400	8,740	17,400	9,160	7,230	7,370	7,300	7,900
12	9,480	8,770	8,690	9,960	11,400	9,990	17,000	7,470	7,300	7,300	7,350	8,000
13	9,260	8,660	8,430	9,850	11,600	14,700	14,200	6,870	7,300	7,200	7,300	8,050
14	9,000	8,640	8,260	9,750	11,300	15,600	11,600	6,730	7,300	7,180	7,320	8,100
15	8,950	8,690	8,180	10,400	11,400	15,900	9,530	6,640	7,230	7,180	7,300	8,100
16	9,080	8,710	8,260	10,200	11,200	15,600	9,180	6,480	7,370	7,180	7,270	8,100
17	9,180	8,660	8,300	9,530	11,400	16,100	8,840	6,500	7,710	7,150	7,300	8,060
18	9,290	8,580	8,330	9,690	11,300	16,000	8,460	6,480	7,880	7,180	7,270	8,200
19	9,030	8,770	8,300	9,800	11,100	15,900	7,630	6,620	7,780	7,180	7,270	8,300
20	8,870	8,920	8,280	10,700	10,900	15,200	7,080	6,760	7,710	7,200	7,250	8,250
21	8,690	8,950	8,300	10,500	11,100	14,700	6,990	6,870	7,660	7,180	7,250	8,200
22	8,710	8,820	8,330	10,400	10,800	14,900	9,050	7,010	7,490	7,180	7,270	8,200
23	8,770	8,580	8,360	10,400	10,800	14,800	10,400	7,060	7,350	7,150	7,350	8,200
24	8,820	8,380	8,330	10,000	11,300	14,700	10,100	7,130	7,130	7,270	7,350	8,150
25	8,580	8,480	8,380	10,200	11,300	14,500	9,560	7,110	7,150	7,540	7,370	8,130
26	8,460	8,560	8,160	10,400	11,100	14,300	9,500	7,060	7,180	7,490	7,390	8,160
27	8,360	8,580	7,880	10,400	11,100	14,800	11,000	6,990	7,180	7,270	7,470	8,180
28	8,330	8,530	8,130	10,400	11,300	15,100	11,400	6,940	7,110	7,200	7,490	8,180
29	8,280	8,480	8,360	10,700	-	14,800	11,000	6,920	7,030	7,250	7,510	8,200
30	8,580	8,560	8,330	10,700	-	14,300	10,200	6,760	6,990	7,270	7,560	8,330
31	8,870	-	8,300	10,900	-	14,800	-	6,660	-	7,350	7,560	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	279,480	10,100	8,280	9.015	554,300
November	261,160	9,050	8,380	8 705	518,000
December	273,430	10,200	7,880	8 820	542,300
Calendar year 1938	3,697,350	27,000	7,010	10,130	7,333,000
January	303,210	10,900	8,130	9.781	601,400
February	310,800	11,600	10,400	11,100	616,500
March	432,340	16,100	8,740	13.950	857,500
April	353,920	17,400	6,990	11,800	702,000
May	235,400	11,200	6,480	7,594	466,900
June	216,690	7,880	6,780	7,223	429,800
July	225,080	7,680	6,870	7,261	446,400
August	227,690	7,560	7,250	7,345	451,600
September	239,960	8,330	7,540	7,999	476,000
Water year 1938-39	3,359,160	17,400	6,480	9.203	6,663,000

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 7½ miles northeast of Murphy.

Drainage area.- 41,900 square miles.

Records available.- August to October 1912, August 1913 to September 1939.

Average discharge.- 26 years (1913-39), 10,780 second-feet.

Extremes.- Maximum discharge during year, 19,400 second-feet Mar. 19 (gage height, 7.63 feet); minimum, 5,450 second-feet July 2 (gage height, 3.13 feet).
1912-39: Maximum discharge, 47,300 second-feet June 22, 1918 (gage height, 13.95 feet, former site and datum); minimum discharge observed, 3,950 second-feet (discharge measurement) July 20, 1934, when stage was below inlet pipe.

Remarks.- Records excellent. Large diurnal fluctuations of short duration are caused by operation of gates and power plant at dam. Several diversions by pumping between this station and station at King Hill.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8,630	9,510	9,130	8,660	11,100	11,500	16,100	10,800	7,140	7,200	7,300	7,750
2	8,810	9,990	9,180	8,660	11,000	11,400	15,100	9,750	7,390	7,250	7,470	7,640
3	8,980	9.720	9,900	8,660	10,800	11,500	15,500	8,870	7,250	7,090	7,440	7,550
4	9,010	9,660	10,700	8,720	11,200	12,300	16,100	8,580	7,390	7,140	7,360	7,780
5	9,070	9,780	10,200	8,460	11,500	13,700	15,500	8,430	7,250	7,090	7,360	7,860
6	9,070	9,420	10,800	8,520	11,500	14,600	13,800	10,500	7,470	7,360	7,300	7,750
7	9,270	9,300	10,700	8,720	11,400	15,300	13,900	10,900	7,410	7,720	7,300	7,830
8	9,810	9,180	10,400	9,390	11,300	15,800	15,300	9,420	7,500	7,720	7,250	7,750
9	10,100	9,300	10,600	10,200	11,400	14,100	15,900	8,920	7,470	7,580	7,300	7,970
10	10,100	9,450	10,500	9,840	11,500	11,200	17,400	9,630	7,580	7,470	7,280	7,920
11	9,780	9,420	10,300	10,100	10,800	9,750	17,400	11,600	7,670	7,530	7,090	8,060
12	9,780	9,510	9,720	10,400	10,600	9,180	18,400	9,750	7,640	7,390	7,390	8,170
13	9,540	9,330	9,100	10,200	11,700	10,800	17,600	8,290	7,640	7,360	7,390	8,260
14	9,450	9,270	8,940	10,100	11,700	15,300	14,900	7,720	7,690	7,440	7,330	8,290
15	9,330	9,270	8,660	10,000	11,500	16,100	12,400	7,610	7,640	7,140	7,410	8,290
16	9,040	9,390	8,720	10,700	11,700	16,400	10,400	7,720	7,470	7,090	7,280	8,340
17	9,420	9,390	8,750	10,400	11,400	16,200	9,840	7,440	7,640	7,220	7,390	8,340
18	9,450	9,180	8,810	9,810	11,700	17,900	9,300	7,300	7,780	7,140	7,220	8,260
19	9,510	9,180	8,720	10,100	11,400	19,000	8,870	7,530	8,030	7,200	7,360	8,580
20	9,300	9,330	8,840	10,000	11,300	18,300	8,230	7,360	8,060	7,300	7,410	8,550
21	9,100	9,450	8,750	10,900	11,000	17,600	7,920	7,580	7,810	7,090	7,440	8,400
22	9,010	9,390	8,750	10,700	11,200	17,300	7,860	7,670	7,830	7,250	7,280	8,490
23	8,980	9,330	8,720	10,500	11,000	17,600	9,510	7,690	7,720	7,170	7,440	8,430
24	9,100	9,070	8,750	10,500	11,100	17,400	10,700	7,810	7,410	7,200	7,500	8,550
25	9,300	8,950	8,690	10,200	11,400	17,100	10,500	7,810	7,300	7,220	7,470	8,490
26	9,100	9,070	8,750	10,400	11,400	16,600	9,960	7,830	7,250	7,530	7,530	8,490
27	8,900	9,100	8,630	10,700	11,200	16,500	9,930	7,750	7,390	7,530	7,610	8,460
28	8,980	9,040	8,110	10,500	11,300	16,900	11,500	7,610	7,360	7,410	7,550	8,340
29	8,840	9,040	8,600	10,700	-	16,900	11,700	7,610	7,410	7,390	7,670	8,430
30	8,870	9,040	8,810	10,800	-	16,200	11,500	7,610	7,170	7,330	7,580	8,460
31	9,270	-	8,750	10,900	-	15,600	-	7,470	-	7,390	7,670	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	286,900	10,100	8,630	9,255	569,100
November	280,060	9,990	8,950	9,335	555,500
December	287,880	10,800	8,110	9,286	571,000
Calendar year 1938	3,926,680	27,800	7,200	10,760	7,789,000
January	308,440	10,900	8,460	9,950	611,800
February	316,100	11,700	10,600	11,290	627,000
March	466,030	19,000	9,180	15,030	924,400
April	383,020	18,400	7,860	12,770	759,700
May	262,560	11,600	7,300	8,470	520,800
June	225,760	8,060	7,140	7,525	447,800
July	226,940	7,720	7,090	7,321	450,100
August	229,370	7,670	7,090	7,399	454,900
September	245,480	8,580	7,550	8,183	486,900
Water year 1938-39	3,518,640	19,000	7,090	9,640	6,979,000

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 wagon bridge at Weiser. Zero of gage is 2,087.09 feet (revised) above mean sea level (general adjustment of 1929).

Records available.- October 1910 to September 1939. Fragmentary gage-height record obtained by U. S. Weather Bureau since 1895.

Average discharge.- 28 years (1911-39), 17,480 second-feet.

Extremes.- Maximum discharge during year, 39,500 second-feet Mar. 26 (gage height, 8.84 feet); minimum, 7,980 second-feet July 3 (gage height, 2.42 feet).
1910-39: Maximum discharge, 83,100 second-feet May 23, 1921 (gage height, 13.60 feet); minimum, 5,100 second-feet Aug. 5, 1924 (gage height, 1.35 feet).
Maximum stage known, 15.7 feet on old Weather Bureau gage (discharge, about 100,000 second-feet) Mar. 3, 1910, but flood of June 1894 headed a considerably higher stage.

Remarks.- Records excellent. Discharge interpolated Feb. 21. Flow regulated by storage in reservoirs above station and by operation of Swan Falls power plant. Some diversions below Murphy for irrigation. Gage-height record collected in cooperation with U. S. Weather Bureau.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11,100	12,700	12,700	11,900	13,600	14,000	32,500	22,700	13,100	8,160	8,510	9,050
2	11,900	13,100	12,700	11,900	13,600	14,400	35,600	23,300	12,300	8,340	8,340	9,050
3	12,300	13,100	12,700	11,900	13,600	14,000	36,900	22,700	12,300	8,340	8,690	9,230
4	12,700	13,600	13,600	11,900	13,600	14,000	36,900	22,700	11,900	8,690	8,510	9,230
5	13,100	14,800	14,400	11,900	14,000	14,400	37,600	22,200	11,500	8,670	8,690	9,600
6	12,700	14,400	14,400	11,900	14,400	16,200	35,600	22,200	11,100	9,230	8,510	9,420
7	12,700	13,600	14,400	11,500	14,400	17,200	28,300	23,300	11,100	9,780	8,340	9,230
8	13,100	13,100	14,800	11,500	14,400	18,100	27,700	23,800	11,100	9,600	8,510	9,230
9	13,600	13,100	14,400	11,900	14,000	18,100	27,700	21,700	10,700	9,420	8,510	9,420
10	13,600	13,100	14,400	13,100	14,000	17,200	27,200	19,600	10,700	9,230	8,510	9,420
11	13,600	13,600	14,400	13,100	14,000	14,800	27,200	19,600	10,700	9,230	8,690	9,600
12	13,100	13,600	14,400	13,100	14,000	12,700	27,200	21,100	10,500	9,050	8,510	9,780
13	13,100	13,100	13,100	13,100	13,100	16,200	26,300	19,100	10,400	8,870	8,690	10,200
14	12,700	13,100	12,300	13,100	14,800	18,100	27,200	16,700	9,970	8,690	8,690	10,700
15	13,100	13,100	12,300	12,700	15,300	20,600	23,800	15,800	9,780	8,690	8,690	11,500
16	13,100	13,100	11,900	12,700	15,300	20,600	20,600	15,300	9,780	8,510	8,690	11,100
17	13,100	13,100	11,900	13,100	15,300	22,700	18,100	16,200	9,970	8,510	8,510	11,100
18	13,600	13,100	11,900	13,600	14,400	24,900	16,700	16,700	10,400	8,690	8,510	11,100
19	13,600	13,100	12,300	12,300	14,800	28,900	15,800	16,700	10,700	8,510	8,340	10,700
20	13,600	13,100	11,900	12,700	14,400	31,300	15,800	17,200	11,100	8,510	8,340	10,700
21	13,600	12,700	11,900	12,300	14,000	32,500	15,300	16,700	11,100	8,690	8,510	10,700
22	13,100	12,700	11,900	13,600	13,600	31,900	15,300	16,200	10,700	8,510	8,690	10,700
23	12,700	12,300	11,900	13,100	14,000	31,900	15,800	15,800	10,400	8,690	8,510	10,500
24	12,300	12,300	11,900	12,700	14,000	34,400	16,700	14,800	9,970	8,510	8,690	10,400
25	12,700	12,300	11,900	13,100	14,000	37,600	18,600	14,400	9,230	8,510	8,690	10,200
26	12,700	12,300	11,500	12,700	14,000	38,900	17,600	13,600	9,230	8,690	8,870	10,200
27	12,300	12,300	11,500	13,100	14,000	38,200	16,700	12,700	8,870	8,690	8,870	9,970
28	12,300	12,300	11,500	14,000	14,000	36,900	16,200	12,700	8,690	8,690	9,050	9,780
29	11,900	12,300	11,100	14,000	-	35,000	18,600	12,300	8,690	8,690	8,870	9,780
30	11,900	12,700	11,500	13,600	-	33,700	21,100	12,300	8,690	8,340	9,050	9,780
31	11,900	-	11,900	14,000	-	32,500	-	12,700	-	8,340	9,050	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	396,800	13,600	11,100	12,800	787,000
November	390,800	14,800	12,300	13,030	775,100
December	393,400	14,800	11,100	12,690	780,300
Calendar year 1938	7,473,720	67,200	8,690	20,480	14,820,000
January	395,100	14,000	11,500	12,750	783,700
February	396,600	15,300	13,100	14,160	786,600
March	751,900	38,900	12,700	24,250	1,491,000
April	718,600	37,600	15,300	23,950	1,425,000
May	552,800	23,800	12,300	17,830	1,096,000
June	314,670	13,100	8,690	10,490	624,100
July	271,270	9,780	8,160	8,751	538,100
August	267,630	9,050	8,340	8,633	530,800
September	301,370	11,500	9,050	10,050	597,800
Water year 1938-39	5,150,940	38,900	8,160	14,110	10,220,000

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 1939.

Average discharge.- 16 years, 15,790 second-feet.

Extremes.- Maximum discharge during year, 42,800 second-feet Mar. 26 (gage height, 15.3 feet); minimum, 8,210 second-feet Aug. 19, 20; minimum gage height, 7.61 feet Aug. 19. 1923-39: 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. Discharge for periods of missing gage heights, Nov. 26 to Dec. 4, Apr. 6-10, computed on basis of records for Snake River at Weiser; that for Dec. 14, 15, Feb. 1-5 interpolated. Flow regulated by irrigation and operation of power plants above station.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to March 26)

7.6	8,210	9.2	13,280	10.8	19,800	12.5	27,650	14.5	38,220
8.0	9,290	9.6	14,820	11.2	21,570	13.0	30,120	15.0	41,090
8.4	10,510	10.0	16,430	11.6	23,390	13.5	32,710	15.5	44,010
8.8	11,850	10.4	18,090	12.0	25,260	14.0	35,420		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11,200	12,200	13,500	12,600	13,800	14,000	34,300	23,800	13,700	8,740	8,470	9,010
2	11,500	12,900	13,500	12,200	13,900	14,400	36,000	24,800	13,300	8,470	8,740	9,010
3	12,200	13,300	13,500	12,200	14,000	14,400	38,200	24,800	12,900	8,470	8,740	9,290
4	12,600	13,700	14,000	12,200	14,200	14,400	37,600	24,800	12,900	8,740	8,740	9,290
5	12,900	14,400	14,800	12,600	14,300	14,400	39,400	24,300	12,600	9,010	8,740	9,290
6	12,900	14,800	14,800	12,600	14,400	15,600	39,000	24,300	11,800	9,290	8,740	9,290
7	12,900	14,000	14,400	12,200	14,800	16,800	35,000	23,800	11,500	9,580	8,470	9,290
8	12,900	13,300	14,800	12,200	14,400	17,700	32,000	25,300	11,500	9,880	8,470	9,290
9	13,300	13,300	14,800	11,800	14,000	18,500	30,000	24,300	11,500	9,880	8,740	9,290
10	13,700	13,300	14,400	12,900	14,000	18,500	29,500	21,600	11,200	9,580	8,740	9,290
11	13,700	13,300	14,400	13,700	14,000	17,200	29,600	20,700	11,200	9,290	8,740	9,580
12	13,300	13,700	14,400	13,300	14,400	14,800	29,600	21,600	11,200	9,290	8,740	9,580
13	12,900	13,300	14,400	13,300	13,700	15,200	29,600	22,500	11,200	9,010	8,470	9,880
14	12,900	13,300	13,800	13,700	14,000	19,400	30,600	18,900	10,800	8,740	8,740	10,500
15	12,900	13,300	13,200	13,300	15,200	20,700	28,600	17,700	10,500	8,740	8,740	11,200
16	13,300	13,300	12,600	13,300	15,200	22,500	24,800	16,800	10,500	8,740	8,740	11,500
17	13,300	13,300	12,200	12,900	15,200	23,800	22,000	16,800	10,500	8,470	8,470	11,500
18	13,300	13,700	12,200	13,700	14,800	27,200	19,800	17,700	10,500	8,470	8,470	11,200
19	13,700	13,700	12,600	13,300	14,800	30,100	18,900	17,200	11,200	8,740	8,210	11,200
20	13,700	13,300	12,600	12,900	14,800	34,300	18,100	17,700	11,500	8,740	8,210	11,200
21	13,700	12,900	12,200	12,900	14,400	36,000	18,100	17,700	11,500	8,740	8,470	11,200
22	13,300	12,900	12,200	13,300	14,400	35,400	17,200	16,800	11,500	8,740	8,470	11,200
23	12,900	12,900	12,200	13,700	14,000	35,400	17,200	16,400	11,200	8,740	8,470	10,800
24	12,900	12,600	12,200	13,300	14,400	36,500	17,700	16,000	10,500	9,010	8,470	10,800
25	12,600	12,900	12,200	13,300	14,000	38,800	19,800	15,600	10,200	8,740	8,740	10,500
26	12,600	13,000	12,200	13,300	14,000	41,700	20,200	14,800	9,580	8,740	8,740	10,500
27	12,600	13,000	11,500	13,300	14,400	41,700	19,400	14,000	9,290	8,740	8,740	10,200
28	12,600	13,000	11,800	13,700	14,400	40,500	18,500	13,700	9,010	9,010	8,740	9,880
29	12,200	13,000	11,800	14,400	-	38,800	18,900	13,700	9,010	8,740	8,740	9,880
30	12,200	13,500	11,500	13,700	-	37,100	22,000	13,300	8,740	8,740	8,740	9,880
31	12,200	-	11,800	13,700	-	35,400	-	13,300	-	8,470	9,010	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	398,900	13,700	11,200	12,870	791,200
November	399,100	14,800	12,200	13,300	791,600
December	406,500	14,800	11,500	13,110	806,300
Calendar year 1938	7,847,460	71,500	8,740	21,500	15,560,000
January	405,500	14,400	11,800	13,080	804,300
February	401,900	15,200	13,700	14,350	797,200
March	801,200	41,700	14,000	25,850	1,589,000
April	791,600	39,400	17,200	26,390	1,570,000
May	594,700	25,300	13,300	19,180	1,180,000
June	332,530	13,700	8,740	11,080	659,600
July	276,280	9,880	8,470	8,912	548,000
August	267,450	9,010	8,210	8,627	530,500
September	304,520	11,500	9,010	10,150	604,000
Water year 1938-39	5,380,180	41,700	8,210	14,740	10,670,000

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. Zero 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 and August 1928 to September 1935 (at site at Riparia, 66 miles downstream) and October 1935 to September 1939 in reports of Geological Survey. October 1909 to September 1933 (at former site) in State Water-Supply Bulletin 5. All records equivalent.

Average discharge.- 30 years (1909-39), 47,970 second-feet.

Extremes.- Maximum discharge during year, 149,000 second-feet May 4 (gage height, 26.89 feet); minimum, 13,000 second-feet Aug. 24 (gage height, 8.97 feet).

1909-39: Maximum discharge observed, 270,000 second-feet May 20, 1921 (gage height, 19.0 feet, at Riparia; minimum, possibly as low as 9,000 second-feet sometime during period of ice effect, Jan. 6 to Feb. 20, 1937.

Highest stage known, 24.7 feet, at Riparia, June 5, 1894 (discharge, about 409,000 second-feet).

Remarks.- Records excellent. Small diversions by pumping between this station and station at Oxbow. Considerable diurnal fluctuation as a result of pondage for power on Clearwater River at Lewiston.

Rating tables, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 17				Feb. 16 to Sept. 30		Nov. 18 to Feb. 15			
9.0	13,000	13.0	29,500	20.0	77,500	10.8	20,700	13.0	30,500
10.0	16,300	14.0	34,800	22.0	96,000	11.0	21,500	14.0	35,500
11.0	20,000	16.0	46,700	25.0	127,000	12.0	25,500		
12.0	24,500	18.0	60,500	27.0	150,000				

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17,400	20,800	22,300	22,700	23,500	23,500	84,700	134,000	73,000	31,000	16,700	14,600
2	18,100	21,200	23,500	23,100	22,700	23,000	91,000	134,000	66,100	30,000	16,300	14,600
3	18,500	22,600	24,300	23,500	21,900	23,500	96,000	139,000	61,300	29,000	16,300	14,600
4	19,200	23,500	24,700	23,900	22,300	23,500	97,000	144,000	59,100	29,000	16,000	14,600
5	20,000	25,000	24,700	23,900	21,900	23,500	96,000	143,000	57,700	30,500	16,300	14,900
6	20,800	25,000	26,000	23,500	22,700	23,000	90,100	131,000	54,900	30,500	16,000	14,600
7	20,800	24,500	27,500	23,100	23,100	24,500	82,900	119,000	51,400	31,000	15,600	14,900
8	21,200	23,000	27,000	22,700	23,500	25,500	73,900	111,000	48,600	29,500	15,600	14,900
9	20,800	22,100	32,500	22,300	22,300	26,500	69,400	109,000	46,700	28,500	15,600	14,900
10	20,400	22,100	32,500	21,900	21,500	28,000	72,100	106,000	47,300	27,500	15,600	14,900
11	21,200	22,100	30,500	22,300	21,500	27,500	68,500	103,000	46,100	26,000	15,300	14,600
12	23,000	22,100	28,000	23,900	22,300	29,000	68,500	101,000	44,300	25,000	15,300	14,900
13	24,500	21,700	25,100	23,900	23,100	32,100	67,700	100,000	43,700	24,500	15,300	14,900
14	23,500	21,200	22,700	23,900	23,500	34,800	66,100	101,000	43,100	23,500	14,900	16,000
15	23,000	21,200	21,100	23,900	26,000	36,000	65,300	102,000	42,500	22,600	14,900	18,100
16	22,100	22,100	21,500	23,500	27,500	36,500	62,900	107,000	43,100	21,700	14,900	19,600
17	23,000	25,500	22,700	23,100	27,000	38,300	60,500	110,000	44,900	21,200	14,600	19,200
18	22,600	28,000	22,700	23,100	26,000	44,900	59,800	109,000	42,500	20,400	14,600	17,700
19	22,600	26,000	22,700	23,900	25,500	55,600	63,700	107,000	43,700	20,000	14,300	17,700
20	22,100	25,100	22,700	23,500	25,000	66,900	70,300	104,000	44,300	20,000	14,300	17,400
21	22,100	24,700	22,300	22,700	24,500	78,400	76,600	91,000	46,100	19,200	14,000	17,000
22	21,700	24,300	21,900	22,300	23,500	86,500	85,600	84,700	44,900	19,600	14,000	17,000
23	21,700	23,100	22,300	21,900	23,000	90,100	93,000	80,200	42,500	19,200	14,300	16,700
24	21,200	21,900	22,700	21,900	23,000	94,000	94,000	75,700	41,900	18,500	14,000	16,300
25	20,800	20,700	22,700	21,900	23,500	100,000	90,100	72,100	39,500	18,100	14,300	16,300
26	20,400	20,700	22,700	21,900	23,500	109,000	85,600	69,400	37,100	18,100	14,300	16,000
27	20,400	21,100	21,500	21,900	23,500	106,000	82,000	69,400	35,400	17,700	14,300	15,600
28	20,400	20,700	20,700	22,300	24,000	99,000	85,600	71,200	33,700	17,700	14,300	15,600
29	20,400	20,700	21,100	23,100	-	92,000	102,000	73,900	32,600	17,400	14,300	15,300
30	20,000	21,100	21,900	23,900	-	87,400	122,000	81,100	32,100	17,400	14,300	15,300
31	20,800	-	22,300	23,500	-	82,900	-	82,900	-	17,000	14,300	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	654,700	24,500	17,400	21,120	1,299,000
November	683,800	28,000	20,700	22,790	1,356,000
December	746,800	32,500	20,700	24,090	1,481,000
Calendar year 1938	19,045,300	214,000	16,700	52,180	37,770,000
January	712,900	23,900	21,900	23,000	1,414,000
February	661,300	27,500	21,500	23,620	1,312,000
March	1,671,400	109,000	23,000	53,920	3,315,000
April	2,422,900	122,000	59,800	80,760	4,806,000
May	3,165,600	144,000	69,400	102,100	6,279,000
June	1,390,100	73,000	32,100	46,340	2,757,000
July	721,300	31,000	17,000	23,270	1,431,000
August	464,800	16,700	14,000	14,990	921,900
September	478,700	19,600	14,600	15,960	949,500
Water year 1938-39	13,774,300	144,000	14,000	37,740	27,320,000

Flat Creek near Jackson, Wyo.

Location.- Staff gage, lat. 43°33', long. 110°37', in SW¼ sec. 35, T. 42 N., R. 115 W., just downstream from power plant of Jackson Hole Light & Power Co., 9 miles northeast of Jackson.

Records available.- June 1933 to September 1939, except for winters.

Extremes.- Maximum discharge observed during periods, 156 second-feet June 2 (gage height, 1.42 feet); minimum, 22 second-feet April 22 (gage height, 0.42 foot).

1933-39: Maximum discharge observed, 438 second-feet June 15, 1935 (gage height, 348 feet, former site and datum); minimum observed, 7 second-feet Apr. 15-18, 1935, but may have been less during winters, when no records were obtained.

Remarks.- Records good. Discharge interpolated October 12. No regulation. Staff gage read twice daily. Gage-height record furnished by Jackson Hole Light & Power Co.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	28					-	36	143	95	43	28
2	32	28					-	28	156	97	41	29
3	32	27					-	30	156	100	40	29
4	32	28					-	32	147	100	41	28
5	32	27					-	38	139	95	41	28
6	32	27					-	41	139	94	39	27
7	32	27					-	53	135	95	41	29
8	32	27					-	58	135	92	41	30
9	32	27					-	68	133	86	39	30
10	31	-					-	69	123	85	39	30
11	31	-					-	70	114	78	40	30
12	31	-					-	73	114	75	41	29
13	31	-					-	75	114	73	38	28
14	31	-					-	75	114	69	38	28
15	31	-					-	78	116	71	37	27
16	32	-					-	79	119	69	36	28
17	31	-					-	81	119	69	36	27
18	30	-					23	89	119	65	36	27
19	30	-					24	99	118	61	36	26
20	30	-					23	105	109	58	35	26
21	29	-					23	109	107	56	33	24
22	29	-					22	109	107	56	31	24
23	30	-					23	109	105	52	31	24
24	30	-					24	99	94	52	30	24
25	29	-					26	95	94	52	30	24
26	29	-					25	89	97	50	29	24
27	28	-					25	86	99	51	29	24
28	28	-					24	81	99	50	29	23
29	27	-					25	78	100	52	29	23
30	28	-					25	86	99	50	28	23
31	28	-					-	102	-	47	28	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	944	34	27	30.5	1,870
November 1-9	246	28	27	27.3	488
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 18-30	312	26	22	24.0	619
May	2,310	109	26	74.5	4,580
June	3,563	156	94	119	7,070
July	2,195	100	47	70.8	4,350
August	1,105	43	28	35.6	2,190
September	801	30	23	26.7	1,590
Water year	-	-	-	-	-

Greys River near Alpine, Wyo.

Location.- Water-stage recorder, lat. 43°09', long. 111°00', in sec. 33, T. 37 N., R. 118 W., 1½ miles upstream from mouth and 3 miles southeast of Alpine.

Records available.- July 1917 to September 1918, March 1937 to March 1939 (discontinued).

Extremes.- Maximum discharge during period, 462 second-feet March 30 (gage height, 1.02 foot); minimum discharge observed, 183 second-feet Dec. 12 (gage height, 0.42 foot). 1917-18, 1937-39: Maximum discharge observed, 5,200 second-feet June 14, 1918 (gage height, 4.85 feet, former gage); minimum discharge, 156 second-feet Feb. 17, 1938 (gage height, 0.37 foot).

Remarks.- Records excellent except those for periods of ice effect, Jan. 10-14, 16-21, Jan. 24 to Mar. 17, which were computed on basis of weather records and observers' notes and are fair. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	304	342	269	213								
2	304	318	260	220								
3	309	300	264	232								
4	304	318	244	228								
5	309	286	248	220								
6	314	240	244	220								
7	304	269	252	190								
8	352	256	252	194								
9	347	300	244	194		195						
10	328	269	244	220								
11	314	256	244	220								
12	314	256	183	220								
13	304	252	183	220								
14	300	252	198	220								
15	314	220	232	220								
16	337	244	264	220								
17	388	252	252	220								
18	337	256	224	228		194						
19	314	224	236	224		194						
20	304	248	244	220		205						
21	300	216	244	220		216						
22	295	205	236	202		236						
23	295	205	224	202		264						
24	291	213	228			300						
25	291	232	209			357						
26	286	228	198			393						
27	286	228	190	215		419						
28	282	224	216			419						
29	282	240	216			440						
30	291	260	216			451						
31	328	-	209			451						

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,628	347	282	311	19,100
November	7,609	342	205	254	15,090
December	7,167	269	183	231	14,220
Calendar year	-	-	-	-	-
January	6,687	232	190	216	13,260
February	5,740	-	-	205	11,380
March	7,854	451	-	253	15,580
April	-	-	-	-	-
May	-	-	-	-	-
June	-	-	-	-	-
July	-	-	-	-	-
August	-	-	-	-	-
September	-	-	-	-	-
The period	-	-	-	-	88,630

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 1939.

Extremes.- Maximum discharge during year, 184 second-feet May 5 (gage height, 2.52 feet); minimum daily discharge, 4.0 second-feet Sept. 30.
1932-39: Maximum discharge, 430 second-feet May 15, 1936 (gage height, 3.15 feet), minimum not determined.

Remarks.- Records good except those for period of ice effect or missing gage heights, Nov. 6 to Apr. 7, which were computed on basis of three discharge measurements and weather records and are fair. A few diversions above station for irrigation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.8	14	9.1	8.0	6.8	6.2	13	155	103	34	20	7.5
2	9.8	13	9.0	7.9	7.0	6.4	16	160	90	33	20	7.8
3	11	13	9.0	8.0	7.0	6.7	17	164	83	33	19	7.8
4	12	13	9.1	7.8	6.7	6.8	17	174	82	33	16	7.8
5	14	13	9.4	7.8	6.7	6.5	17	180	84	30	15	8.2
6	14	9.0	9.2	7.6	6.6	6.6	18	176	76	30	14	7.5
7	13	8.4	8.3	7.2	6.6	6.9	23	168	66	30	13	7.8
8	15	8.9	8.6	6.8	6.4	7.1	28	156	60	31	12	9.0
9	15	9.3	8.3	6.6	6.2	6.9	28	156	66	30	9.8	8.2
10	15	9.8	8.0	6.9	6.0	7.2	26	156	60	27	9.4	7.8
11	14	9.6	8.1	7.4	6.2	7.3	24	151	58	26	9.0	7.8
12	14	9.0	7.6	8.0	6.2	7.2	26	138	57	23	9.4	7.5
13	14	8.4	7.2	7.4	6.5	7.0	32	128	56	22	10	7.5
14	14	8.2	7.4	7.2	6.7	7.0	41	122	54	20	11	6.8
15	15	8.8	7.8	7.2	7.0	6.7	63	129	54	18	12	6.8
16	16	9.4	7.9	7.3	7.1	7.0	69	135	54	18	11	6.2
17	17	9.5	7.8	7.4	7.0	7.8	60	133	49	18	11	6.5
18	15	9.0	7.2	7.6	6.6	7.8	69	122	49	18	11	5.8
19	14	8.6	7.0	7.5	6.6	8.0	84	108	50	16	9.8	5.8
20	14	9.0	7.2	7.3	6.0	7.8	98	96	49	16	9.0	5.8
21	14	8.0	7.6	7.2	5.8	8.1	111	95	47	16	8.6	5.5
22	13	7.4	7.8	7.0	5.7	8.6	129	92	47	15	7.5	5.2
23	13	7.0	7.2	6.9	5.5	8.4	131	87	46	14	7.8	5.5
24	13	7.6	6.8	6.8	5.7	9.2	131	86	43	14	8.2	5.8
25	13	7.8	7.4	6.7	5.8	8.7	111	77	43	16	9.0	6.2
26	13	7.8	7.2	6.8	5.9	9.0	95	73	41	18	8.6	6.5
27	13	7.8	7.2	7.0	6.0	9.8	93	72	40	18	8.2	5.8
28	12	7.8	7.4	6.8	6.2	10	103	73	39	18	8.2	5.2
29	13	8.3	7.6	6.8	-	11	128	84	38	18	8.2	4.5
30	13	9.0	7.8	6.7	-	11	140	96	36	19	8.6	4.0
31	15	-	7.9	6.6	-	11	-	117	-	22	8.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	417.6	17	6.8	13.5	828
November	279.4	14	7.0	9.31	554
December	245.1	9.4	6.8	7.91	486
Calendar year 1938	16,668.9	266	4.8	45.7	33,080
January	224.2	8.[illegible]	6.6	7.23	445
February	178.5	7.1	5.5	6.38	354
March	245.7	11	6.2	7.93	487
April	1,941	140	13	64.7	3,850
May	3,859	180	72	124	7,650
June	1,720	103	36	57.3	3,410
July	694	34	14	22.4	1,380
August	342.5	20	7.5	11.0	679
September	200.1	9.0	4.0	6.67	397
Water year 1938-39	10,347.1	180	4.0	28.3	20,520

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 1939. July 1917 to September 1918 at site 4 miles upstream; records not equivalent.

Extremes.- Maximum discharge during year, 1,500 second-feet Apr. 25 (gage height, 3.23 feet); minimum daily discharge, 334 second-feet Mar. 9.
1934-39: Maximum discharge, 3,520 second-feet May 6, 1936 (gage height, 4.64 feet); minimum, 216 second-feet May 17, 1934 (gage height, 1.30 feet).

Remarks.- Records excellent except those for period of missing gage heights, Jan. 30 to Feb. 6, which were computed on basis of weather records and are good. Diversions above station for irrigation.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

1.6	330	2.0	540	3.2	1,470
1.7	370	2.5	880		
1.8	420	3.0	1,280		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	621	740	614	516	485	390	922	1,450	649	607	558	468
2	628	733	614	510	490	395	1,050	1,410	600	591	552	468
3	594	719	628	516	475	390	1,170	1,390	582	591	534	462
4	576	766	642	528	455	390	1,370	1,390	570	623	534	474
5	588	768	656	540	455	390	1,360	1,370	564	643	588	486
6	600	698	656	546	450	380	1,130	1,330	552	643	588	480
7	614	677	649	558	450	390	1,070	1,250	552	635	588	504
8	628	663	628	558	462	380	1,090	1,200	558	614	534	510
9	635	670	614	510	456	334	1,100	1,170	607	583	516	504
10	642	663	614	456	462	375	1,050	1,150	649	583	510	498
11	628	663	614	486	462	375	1,050	1,140	642	570	510	498
12	621	649	628	498	462	375	1,060	1,130	635	553	498	510
13	614	656	656	504	468	375	1,130	1,080	614	553	498	516
14	614	649	576	516	462	375	1,180	1,010	607	559	498	528
15	628	642	504	522	444	380	1,300	998	614	540	498	522
16	649	649	546	516	468	390	1,290	966	649	523	486	516
17	705	649	558	516	468	395	1,210	943	740	546	486	510
18	677	628	552	516	468	405	1,200	894	866	552	492	510
19	649	628	546	522	456	405	1,240	887	915	553	486	510
20	635	621	546	528	480	432	1,270	873	887	546	474	504
21	628	594	540	528	468	438	1,320	845	859	534	474	498
22	621	570	534	546	486	462	1,370	831	831	516	474	504
23	628	558	522	510	486	492	1,410	782	789	522	468	504
24	621	552	522	492	492	522	1,440	775	761	547	462	510
25	621	564	510	528	468	552	1,450	761	747	564	438	522
26	614	594	522	528	480	594	1,320	754	726	594	438	534
27	614	576	516	468	395	656	1,260	747	712	588	450	534
28	649	607	480	504	400	740	1,300	726	677	558	456	522
29	642	628	486	474	-	789	1,370	705	649	528	456	528
30	649	621	498	480	-	838	1,430	698	628	528	468	516
31	705	-	510	485	-	859	-	691	-	570	474	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	19,538	705	576	630	38,750
November	19,397	768	552	647	38,470
December	17,681	656	480	570	35,070
Calendar year 1938	290,153	2,200	387	795	575,500
January	15,905	558	456	513	31,550
February	12,953	492	395	463	25,690
March	14,663	859	334	473	29,080
April	36,912	1,450	922	1,230	73,210
May	31,346	1,450	691	1,011	62,170
June	20,431	915	552	681	40,520
July	17,664	642	516	570	35,040
August	15,486	588	438	500	30,720
September	15,150	534	462	505	30,050
Water year 1938-39	237,126	1,450	334	650	470,300

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 square miles.

Records available.- May 1933 to September 1939.

Extremes.- Maximum discharge during year, 147 second-feet May 31 (gage height, 2.02 feet); minimum daily discharge, 11 second-feet Feb. 11-19.
1933-39: Maximum discharge observed, 424 second-feet June 17, 18, 1933 (gage height, 2.76 feet, former datum); minimum daily discharge, 8.5 second-feet Feb. 28 to Mar. 2, 1935.

Remarks.- Records good except those for period of ice effect, Nov. 27 to Feb. 7, which were computed on basis of one discharge measurement and weather records and are fair. One small diversion above station. Flow regulated by storage in Cottonwood Lake.

Rating table, water year 1938-39 except period of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Feb. 8 to Mar. 10, June 4 to July 29, and Sept. 9-30)

0.9	9	1.4	44	1.9	119
1.0	13	1.5	55	2.0	142
1.1	19	1.6	68	2.1	167
1.2	26	1.7	83		
1.3	34	1.8	99		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	25	21	19	15	12	21	88	140	83	53	31
2	28	24	20	19	15	13	22	93	128	83	52	30
3	28	23	20	19	15	13	23	94	126	80	51	30
4	27	23	20	19	15	13	25	107	124	77	50	29
5	27	22	20	19	14	13	26	117	137	74	48	29
6	26	22	19	19	13	13	25	115	135	70	47	28
7	25	22	19	16	12	13	25	111	121	65	46	30
8	27	22	19	15	12	14	25	109	113	64	44	29
9	26	22	19	15	12	14	25	113	109	60	43	27
10	26	22	19	17	12	13	25	115	97	59	43	28
11	26	22	18	18	11	13	24	115	94	58	41	28
12	26	22	18	18	11	13	24	111	94	56	41	28
13	25	22	18	17	11	13	24	111	94	55	42	28
14	25	22	19	17	11	13	25	115	96	54	44	28
15	25	22	19	17	11	13	26	119	97	53	42	27
16	27	22	19	17	11	13	28	126	101	53	40	25
17	28	22	17	17	11	13	29	130	97	53	43	25
18	26	21	17	16	11	13	31	130	97	54	46	25
19	25	21	18	16	11	13	34	133	96	53	45	25
20	24	21	18	16	12	14	41	126	94	53	39	24
21	23	20	18	16	12	14	47	113	91	53	36	24
22	23	20	18	16	12	15	53	105	88	54	36	24
23	23	20	16	15	12	16	53	101	74	53	36	23
24	23	20	16	15	12	17	55	97	85	51	35	23
25	23	20	17	15	12	18	53	101	86	51	33	24
26	23	20	16	15	12	20	52	103	88	56	33	23
27	23	20	16	15	12	20	51	103	86	58	32	23
28	23	21	17	14	12	20	55	107	86	56	32	22
29	23	21	18	14	-	20	64	119	85	55	32	22
30	23	21	18	14	-	20	76	130	85	55	32	22
31	25	-	19	14	-	19	-	144	-	54	31	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	780	28	23	25.2	1,550
November	647	25	20	21.6	1,280
December	566	21	16	18.3	1,120
Calendar year 1938	18,872	289	11	51.7	37,440
January	509	19	14	16.4	1,010
February	342	15	11	12.2	678
March	461	20	12	14.9	914
April	1,087	76	21	36.2	2,160
May	3,501	144	88	113	6,940
June	3,044	140	74	101	6,040
July	1,853	83	51	59.8	3,680
August	1,268	53	31	40.9	2,520
September	784	31	22	26.1	1,560
Water year 1938-39	14,842	144	11	40.7	29,450

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 1939.

Extremes.- Maximum discharge during year, 225 second-feet May 31 (gage height, 3.06 feet); minimum daily discharge, 30 second-feet Feb. 15.

1932-39: Maximum discharge observed, 675 second-feet June 25, 1932 (gage height, 3.00 feet, former site and datum), from rating curve extended above 300 second-feet; minimum not determined.

Remarks.- Records good. One small diversion above station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59	42	39	38	36	33	44	90	192	102	71	62
2	59	42	39	38	36	33	44	94	158	98	71	62
3	59	39	39	36	36	33	44	102	141	98	69	62
4	59	39	39	36	36	33	47	111	152	100	70	60
5	59	40	39	36	36	33	46	128	160	102	69	60
6	59	40	39	36	36	33	46	152	145	100	69	59
7	59	40	39	38	36	33	46	139	134	99	69	59
8	59	40	39	38	36	33	46	132	125	96	66	59
9	57	40	39	36	36	33	46	132	136	92	64	59
10	56	40	39	38	36	33	44	136	132	90	67	59
11	56	40	39	38	36	33	44	139	136	90	70	57
12	55	40	39	36	36	33	43	136	136	88	71	59
13	53	39	39	36	36	33	42	130	136	87	74	57
14	53	39	39	36	36	33	43	132	141	86	76	57
15	53	38	39	36	30	33	46	137	137	86	73	57
16	53	39	39	36	39	33	48	152	132	84	71	56
17	52	39	39	36	36	31	48	174	121	84	70	53
18	51	39	39	36	35	31	48	176	110	82	70	53
19	51	39	39	36	35	31	48	164	102	80	66	53
20	48	39	39	36	35	31	51	145	105	78	66	52
21	48	39	39	36	35	31	55	127	111	76	66	53
22	48	39	38	36	34	35	60	127	118	77	66	55
23	47	39	38	36	34	38	66	123	116	76	64	55
24	47	39	38	36	34	38	74	111	119	74	64	55
25	44	39	38	36	34	38	71	104	125	74	64	55
26	44	39	38	36	34	35	66	110	123	73	64	53
27	43	39	38	36	34	40	63	111	119	73	64	51
28	44	39	38	36	34	40	64	127	119	71	64	51
29	44	39	38	36	-	42	73	162	114	70	64	50
30	43	39	38	36	-	42	86	205	110	71	63	50
31	44	-	38	36	-	43	-	210	-	73	62	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,606	59	43	51.8	3,190
November	1,183	42	38	39.4	2,350
December	1,199	39	38	38.7	2,380
Calendar year 1938	25,664	276	25	70.3	50,920
January	1,150	38	36	36.5	2,240
February	987	39	30	35.2	1,960
March	1,074	43	31	34.6	2,130
April	1,592	86	42	53.1	3,160
May	4,218	210	90	136	8,370
June	3,905	192	102	130	7,750
July	2,633	102	70	84.9	5,220
August	2,097	76	62	67.6	4,160
September	1,683	62	50	56.1	3,340
Water year 1938-39	23,307	210	30	63.9	46,250

Henrys Lake near Lake, Idaho

Location.- Staff gage, lat. 44°36', long. 111°21', in SW¼ sec. 26, T. 15 N., R. 43 E., at dam on Henrys Fork 4 miles south of Lake post office. Zero of gage is 6,457.1 feet above mean sea level (levels by Bureau of Reclamation).
Drainage area.- 104 square miles (including that of Dry Creek).
Records available.- July 1923 to September 1939.
Extremes.- Maximum contents observed during year, 53,418 acre-feet July 7 and 8 (gage height, 10.76 feet); minimum observed, 25,864 acre-feet Oct. 11 (gage height, 5.82 feet).
1923-39: Maximum contents observed, 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 feet).
Remarks.- Dam completed by North Fork Reservoir Co. in 1922. Total usable capacity, 79,320 acre-feet between gage heights 0 and 15 feet; top of flashboards is at gage height 15 feet, crest of spillway at 10.5 feet and gage sill at -5 feet. Table shows contents available for release. Gage-height record furnished by North Fork Reservoir Co.

Capacity table (gage height, in feet, and contents, in acre-feet)
(From surveys by North Fork Reservoir Co.)

0	31	4	16,577	8	37,633	12	60,786
1	3,557	5	21,580	9	43,238	13	66,862
2	7,597	6	26,804	10	48,970	14	73,050
3	11,889	7	32,155	11	54,822	15	79,351

Contents, in acre-feet, water year October 1938 to September 1939

Oct. 11	25,864	July 8	53,418	Sept. 7	49,555
May 26	49,848	20	52,774	23	49,204
June 8	51,428	Aug. 2	52,188		
July 7	53,418	15	51,077		

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 basin of Dry Creek).
Records available.- September 1922 to September 1939. May 1920 to September 1922 at site 3 miles downstream and below mouth of Dry Creek, whose floodwaters have been diverted into Henrys Lake since 1923; records equivalent.
Extremes.- Maximum discharge during year, 36 second-feet June 8, 9; minimum, 3 second-feet (estimated) Oct. 1 to Mar. 31 (leakage through reservoir gates).
1920-39: Maximum discharge, 907 second-feet June 13, 1926 (gage height, 5.40 feet); minimum, 0.1 second-foot Oct. 3-31, 1937.
Remarks.- Monthly records fair October to May, others good. Flow controlled by Henrys Lake (capacity, 79,320 acre-feet). Outlet gates remained unchanged during the year except on June 8, when they were opened slightly to increase the discharge from 7 to 36 second-feet. Fluctuations in flow after June 8 due to debris caught in gates.

Discharge measurements, in second-feet, for water year 1938-39

Date	Discharge	Date	Discharge	Date	Discharge
June 8	36	July 20	16	Aug. 24	33
July 7	32	Aug. 2	25	Sept. 7	20
8	29	15	24	23	20

Monthly discharge, water year October 1938 to September 1939

Month	Mean (sec.-ft.)	Run-off (acre-feet)
October	*3	184
November	*3	179
December	*3	184
Calendar year 1938	33.1	23,940
January	*3	184
February	*3	167
March	*3	184
April	*4	238
May	*6	369
June	†27.4	1,630
July	†23.9	1,470
August	†26.3	1,620
September	†20.1	1,200
Water year 1938-39	10.5	7,610

*Computed on basis of record of gate operations.
†Computed by interpolating discharge between days of discharge measurements and taking into account the change in outlet gates on June 8.

Henrys Fork at Coffee Pot Rapids, near Island Park, Idaho

Location.- Water-stage recorder, lat. 44°30', long. 111°24', in SE¼ sec. 32, T. 14 N., R. 43 E., 10 miles upstream from Island Park Dam, 6 miles upstream from Hotel Creek, and 5 miles northwest of Island Park.

Records available.- April 1935 to September 1939.

Extremes.- The maximum and the minimum daily discharge for water years 1934-35 to 1938-39 are given in the following table:

Water year	Maximum			Minimum		
	Date	Discharge (sec.-ft.)	Gage height (feet)	Date	Discharge (sec.-ft.)	Gage height (feet)
1934-35	May 11	1,070	3.21	Sept. 20	226	1.63
1935-36	May 1	1,020	3.14	On many days	209	-
1936-37	May 9	1,030	3.15	Dec. 26-31	236	1.66
1937-38	May 4	1,050	3.18	On many days	233	1.65
1938-39	Apr. 24	940	3.03	On many days	287	1.80

*Determined from rating curve extended above 600 second-feet.

1935-39: Maximum daily discharge, 1,070 second-feet May 11, 1935 (gage height, 3.21 feet), from rating curve extended above 600 second-feet; minimum discharge, 209 second-feet on many days in 1935 and 1936.

Remarks.- Records good. Flow regulated by storage in Henrys Lake (capacity, 79,320 acre-feet). Records for water years 1934-35 to 1937-38 furnished by Bureau of Reclamation. Gage-height record for 1939 collected in cooperation with Bureau of Reclamation.

Discharge, in second-feet, 1935-39

1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	324	404	284	559	250
2							-	328	400	298	565	250
3							-	302	378	277	512	247
4							-	309	373	29[illegible]	533	247
5							-	352	369	291	488	247
6							-	382	348	30[illegible]	450	243
7							-	464	336	32[illegible]	378	257
8							-	582	344	336	306	264
9							-	694	336	33[illegible]	306	247
10							-	909	328	32[illegible]	306	247
11							-	1,070	320	36[illegible]	306	247
12							-	1,050	320	42[illegible]	306	247
13							-	775	316	43[illegible]	306	247
14							-	646	309	44[illegible]	306	233
15							-	570	302	45[illegible]	306	236
16							-	582	295	47[illegible]	306	236
17							-	502	291	48[illegible]	288	230
18							-	478	288	47[illegible]	284	230
19							-	469	291	48[illegible]	267	230
20							-	445	291	48[illegible]	257	226
21							-	441	288	48[illegible]	250	233
22							-	441	284	48[illegible]	267	243
23							-	464	284	48[illegible]	270	257
24							-	474	284	48[illegible]	267	257
25							-	459	281	48[illegible]	270	257
26							-	436	277	48[illegible]	267	260
27							264	418	264	61[illegible]	267	277
28							277	409	274	52[illegible]	264	253
29							295	395	277	52[illegible]	264	250
30							328	395	274	52[illegible]	260	250
31							-	404	-	52[illegible]	260	-

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Discharge, in second-feet, of Henrys Fork at Coffee Pot Rapids, near Island Park, Idaho, 1935-39--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	243	209	216	216	216	*216	*209	1,020	352	418	517	382
2	233	209	216	216	216	*216	*209	801	352	432	517	386
3	219	209	209	216	216	*216	*209	821	332	432	507	391
4	240	209	209	216	216	*216	*209	795	324	436	497	395
5	240	209	209	216	216	216	*209	646	332	450	497	332
6	233	209	209	216	216	213	*209	528	356	455	382	281
7	226	216	209	216	216	*213	*209	483	348	450	306	281
8	230	216	209	216	216	*213	*209	450	344	450	295	277
9	236	216	209	216	216	*213	209	450	344	450	284	277
10	236	216	209	216	216	*213	209	450	328	459	284	277
11	240	216	209	216	216	*213	219	450	324	459	284	277
12	274	216	216	216	216	*213	223	450	306	459	302	277
13	240	216	216	216	216	*213	230	450	306	459	298	277
14	250	216	216	216	216	*213	230	450	302	459	281	277
15	257	216	216	216	216	*213	230	450	302	459	277	277
16	236	216	213	216	216	*213	233	450	298	459	277	277
17	236	216	213	216	216	*213	240	450	291	455	277	277
18	236	223	213	216	*216	*213	274	427	288	436	277	277
19	236	223	213	216	*216	*213	316	404	284	436	277	277
20	236	223	213	216	*216	*213	364	386	281	436	277	277
21	236	223	213	216	*216	*213	413	378	277	436	277	277
22	236	223	213	216	*216	*213	483	364	274	436	277	277
23	236	223	213	216	*216	*213	543	352	270	436	277	274
24	236	223	209	216	*216	*213	565	344	267	492	277	274
25	236	219	209	216	*216	213	646	336	264	548	277	274
26	236	219	209	216	*216	209	725	332	260	554	277	274
27	236	219	209	216	*216	*209	769	328	260	528	277	274
28	236	216	209	216	*216	*209	821	324	274	502	277	274
29	236	216	209	216	*216	*209	688	313	352	497	277	274
30	236	216	209	216	-	*209	888	313	404	502	324	274
31	236	-	209	216	-	*209	-	306	-	528	378	-

*Estimated.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	274	274	243	240	240	243	247	306	348	313	559	404
2	274	270	243	240	240	*243	247	352	328	340	554	395
3	274	270	243	240	240	*243	247	413	324	340	548	386
4	274	270	243	240	240	*243	247	469	348	395	528	378
5	274	267	243	240	240	*247	247	517	332	533	483	277
6	274	264	243	240	240	*247	247	634	324	628	450	270
7	274	257	243	240	240	247	247	707	316	646	450	270
8	274	253	243	240	240	*247	250	909	313	646	450	270
9	274	250	243	240	240	*247	250	1,030	316	646	450	264
10	274	243	243	240	240	*247	250	923	340	502	450	264
11	274	243	243	240	240	*243	253	775	328	492	450	257
12	274	243	243	240	240	*243	253	775	382	364	441	250
13	274	243	240	240	240	*243	253	565	469	332	436	247
14	274	243	240	240	240	243	253	497	395	328	450	247
15	274	243	240	240	240	*243	253	478	356	332	459	277
16	274	243	240	240	240	*243	253	464	348	332	512	320
17	274	243	240	240	240	*243	257	459	336	328	517	309
18	274	243	240	240	240	*243	257	450	324	328	570	324
19	274	243	240	240	240	*247	257	450	320	328	565	316
20	274	243	240	240	240	*247	257	450	316	328	554	313
21	274	243	240	240	240	*247	257	422	309	332	576	309
22	274	243	240	240	240	247	267	413	306	409	576	332
23	274	243	240	240	240	*247	281	400	298	478	554	332
24	274	243	240	240	240	*247	281	382	291	507	502	320
25	274	243	240	240	240	*247	284	369	288	554	483	306
26	274	243	236	240	240	*247	306	360	284	616	455	295
27	274	243	236	240	243	*247	306	360	281	616	432	295
28	274	243	236	240	243	247	316	340	277	616	422	291
29	274	243	236	240	-	*247	309	332	277	593	404	*291
30	274	243	236	240	-	*247	306	332	274	582	404	*291
31	274	-	236	240	-	*247	-	332	-	570	413	-

*Estimated.

Discharge, in second-feet, of Henrys Fork at Coffee Pot Rapids, near Island Park, Idaho, 1935-39--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*291	247	236	240	233	233	233	801	483	382	378	441
2	*290	247	236	240	233	233	233	923	459	413	378	441
3	*285	247	236	240	233	233	233	1,030	450	427	422	441
4	*275	247	236	240	233	233	233	1,050	441	369	422	441
5	*265	247	240	236	233	233	233	801	432	373	450	441
6	250	243	240	236	233	233	233	664	422	348	483	445
7	250	243	240	236	233	233	233	604	418	336	483	445
8	250	243	240	236	233	233	233	576	413	328	469	445
9	247	243	240	236	233	233	236	616	404	320	469	445
10	247	243	240	236	233	236	236	738	404	324	469	441
11	247	243	240	236	233	236	236	725	395	328	512	464
12	247	243	243	236	233	236	240	664	386	332	512	441
13	247	243	243	236	233	236	240	616	382	336	628	441
14	247	243	243	236	233	236	240	587	373	340	707	309
15	247	243	243	236	233	236	240	576	360	344	738	291
16	247	243	243	236	233	236	247	548	356	348	738	284
17	247	243	240	236	233	236	260	604	352	352	750	284
18	247	243	240	236	233	236	270	548	348	356	688	291
19	247	243	240	236	233	236	277	512	344	360	670	291
20	247	240	240	236	233	236	288	483	340	364	652	291
21	247	240	240	236	233	236	306	483	336	369	634	291
22	247	240	240	236	233	233	320	483	332	373	616	288
23	247	240	240	236	233	233	340	483	328	378	598	288
24	247	240	240	233	233	233	360	497	328	382	593	284
25	247	240	240	233	233	233	378	497	328	382	582	284
26	247	240	240	233	233	233	395	497	324	386	582	284
27	247	240	240	233	233	233	418	497	324	386	582	284
28	247	240	240	233	233	233	436	497	320	382	628	284
29	247	240	240	233	-	233	497	497	320	382	441	284
30	247	236	240	233	-	233	587	488	360	382	441	284
31	247	-	240	233	-	233	-	497	-	378	441	-

*Estimated.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	287	368	291	291	291	287	315	714	372	352	315	299
2	287	343	291	291	291	287	327	666	368	352	307	295
3	287	331	291	291	291	287	339	620	368	348	303	295
4	287	319	291	291	291	287	356	614	368	343	303	299
5	287	311	291	291	291	287	364	620	368	348	307	299
6	287	307	291	291	291	287	348	598	364	356	303	299
7	287	307	291	291	291	287	348	566	364	343	303	299
8	287	307	*291	291	291	287	343	535	364	343	303	295
9	287	307	*291	291	291	291	343	521	397	335	307	295
10	287	303	*291	291	287	291	343	511	402	335	307	295
11	287	295	291	291	287	291	343	496	393	331	307	291
12	287	287	291	291	287	291	352	478	385	331	307	299
13	287	291	291	291	287	291	352	469	376	327	307	295
14	297	291	291	291	287	291	348	464	372	323	307	295
15	360	291	291	291	287	291	368	460	368	323	307	295
16	393	295	291	291	287	291	393	460	372	319	307	291
17	335	295	291	291	287	291	389	487	389	319	307	291
18	311	295	291	291	287	291	402	478	402	323	307	291
19	*311	295	291	291	287	291	437	469	406	315	307	*291
20	*311	295	291	291	287	291	483	460	414	307	303	291
21	311	291	291	291	287	291	550	446	406	*307	303	291
22	303	291	291	291	287	291	760	432	389	307	303	291
23	303	291	291	291	287	291	886	419	376	303	299	291
24	303	291	291	291	287	291	940	414	368	303	299	291
25	299	287	291	291	287	291	793	410	368	303	299	295
26	299	287	291	291	287	295	799	397	364	303	299	295
27	299	287	291	291	287	295	786	393	360	303	299	295
28	303	291	291	291	287	295	786	389	356	303	295	295
29	303	291	291	291	-	311	786	385	352	307	299	303
30	307	291	291	291	-	315	702	381	352	307	299	295
31	343	-	291	291	-	311	-	376	-	327	299	-

*Interpolated.

Discharge, in second-feet, of Henrys Fork at Coffee Pot Rapids, near Island Park, Idaho, 1935-39--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 1935	15,969	1,070	302	515	31,670
June	9,426	404	264	314	18,700
July	13,128	528	277	423	26,040
August	10,241	565	250	330	20,310
September	7,398	277	226	247	14,670
The period	-	-	-	-	111,400
October 1935	7,373	274	219	238	14,620
November	6,496	223	209	217	12,880
December	6,553	216	209	211	13,010
Calendar year	-	-	-	-	-
January 1936	6,696	216	216	216	13,280
February	6,264	216	216	216	12,420
March	6,594	216	209	213	13,080
April	11,190	888	209	373	22,200
May	14,501	1,020	306	468	28,760
June	9,296	404	260	310	18,440
July	14,408	554	418	465	28,580
August	10,108	517	277	326	20,050
September	8,795	395	274	293	17,440
Water year 1935-36	108,274	1,020	209	296	214,800
October 1936	8,494	274	274	274	16,850
November	7,478	274	243	249	14,830
December	7,452	243	236	240	14,780
Calendar year 1936	111,276	1,020	209	304	220,700
January 1937	7,440	240	240	240	14,760
February	6,726	243	240	240	13,340
March	7,609	247	243	245	15,090
April	7,938	316	247	265	15,740
May	15,665	1,030	306	505	31,070
June	9,748	469	274	325	19,330
July	14,354	646	313	463	28,470
August	15,097	576	404	487	29,940
September	9,100	404	247	303	18,050
Water year 1936-37	117,101	1,030	236	321	232,200
October 1937	7,837	291	247	253	15.540
November	7,273	247	236	242	14.430
December	7,439	243	236	240	14,760
Calendar year 1937	116,226	1,030	236	318	230,500
January 1938	7,308	240	233	236	14,500
February	6,524	233	233	233	12,940
March	7,259	236	233	234	14,400
April	8,911	587	233	297	17,670
May	19,082	1,050	483	616	37,850
June	11,262	483	320	375	22,340
July	11,260	427	320	363	22,330
August	17,056	750	378	550	33,830
September	10,668	464	284	356	21,160
Water year 1937-38	121,879	1,050	233	334	241,800
October 1938	9,412	393	287	304	18,670
November	9,031	368	287	301	17,910
December	9,021	291	291	291	17,890
Calendar year 1938	126,794	1,050	233	347	251,500
January 1939	9,021	291	291	291	17,890
February	8,072	291	287	288	16,010
March	9,065	315	287	292	17,980
April	15,081	940	315	503	29,910
May	15,128	714	376	488	30,010
June	11,303	414	352	377	22,420
July	10,046	356	303	324	19,930
August	9,417	315	295	304	18,680
September	8,842	303	291	295	17,540
Water year 1938-39	123,439	940	287	338	244,800

Island Park Reservoir near Island Park, Idaho

Location.- Mercury pressure gage, lat. 44°25', long. 111°24' W., between secs. 28 and 29, T. 13 N., R. 43 E., in outlet gatehouse at dam on Henrys Fork, 2 miles west of Island Park. Zero of gage is at mean sea level.

Records available.- November 1938 to September 1939.

Extremes.- Maximum contents during year, 136,905 acre-feet May 5-6 (elevation 6,303.21 feet); none prior to Nov. 15.

Remarks.- Dam was completed by Bureau of Reclamation and storage began Nov. 15, 1938. Water is used for supplemental irrigation on about 100,000 acres of land in the Ashton-Rexburg area. Total usable capacity of reservoir, 127,265 acre-feet between elevations 6,239 feet (lower outlet) and 6,302 feet (spillway crest). Records of contents are computed from once-daily gage readings made at about 8 a.m. Gage readings and capacity table furnished by Bureau of Reclamation.

Capacity table (elevation in feet, and contents, in acre-feet)
(Prepared by the Bureau of Reclamation from surveys by that bureau)

6,239	0	6,255	3,076	6,270	12,100	6,285	37,560	6,300	112,240
6,245	780	6,260	4,915	6,275	17,875	6,290	54,800	6,302	127,265
6,250	1,759	6,265	7,800	6,280	25,840	6,295	79,615	6,304	143,430

Contents, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	12,250	33,940	55,465	74,740	95,630	135,205	133,670	132,077	101,370	67,290
2		-	12,910	34,630	56,055	75,965	96,620	136,095	133,350	131,677	100,015	65,945
3		-	13,675	35,425	56,650	76,360	97,410	136,420	133,030	131,677	99,010	64,580
4		-	14,440	36,120	57,380	76,805	98,275	136,665	132,950	131,273	97,675	63,280
5		-	15,060	36,835	58,605	77,655	99,345	136,905	132,870	131,115	96,685	61,870
6		-	15,720	37,615	59,095	78,400	100,220	136,905	132,870	131,195	95,695	60,720
7		-	16,480	38,185	59,765	79,095	101,165	136,745	132,790	131,273	94,390	59,450
8		-	17,375	38,935	60,625	79,845	101,980	136,500	132,710	131,115	93,225	58,520
9		-	17,900	39,675	61,130	80,430	102,870	136,340	132,790	131,033	91,810	57,420
10		-	18,675	40,250	61,780	81,075	103,765	136,175	132,710	131,035	91,175	56,395
11		-	19,425	41,110	62,385	81,665	104,665	135,610	132,790	130,245	89,910	55,340
12		-	20,155	41,670	63,090	82,435	105,360	135,530	132,790	129,695	88,965	54,260
13		-	20,830	42,395	63,805	83,150	106,685	135,530	132,710	128,830	88,030	53,650
14		-	21,310	42,975	64,725	83,870	107,595	135,450	132,470	127,963	87,100	53,045
15		0	21,815	43,730	65,405	84,475	108,660	135,205	132,470	126,875	86,850	52,925
16		882	22,595	44,630	66,095	85,140	109,585	135,125	132,550	125,320	85,930	52,685
17		1,897	23,220	45,175	66,840	85,685	110,655	135,285	132,710	123,860	84,840	52,565
18		2,669	23,965	46,075	67,340	86,360	111,520	135,365	132,790	122,410	83,750	52,445
19		3,537	24,935	46,670	68,205	86,915	112,530	135,285	132,950	120,740	82,675	52,365
20		4,128	25,650	47,205	68,870	87,595	114,205	135,205	133,110	118,860	81,490	52,285
21		4,871	26,425	47,850	69,490	88,340	115,815	134,720	133,030	117,740	80,310	52,285
22		5,745	27,035	48,545	70,115	89,030	117,815	134,555	132,950	116,335	79,150	52,365
23		6,130	27,730	49,250	70,800	89,660	119,760	134,640	132,790	114,865	78,115	52,445
24		7,110	28,360	49,965	71,485	90,290	122,490	134,395	132,790	113,330	77,030	52,605
25		7,870	29,040	50,460	72,070	90,920	125,320	134,235	132,630	111,520	76,020	52,605
26		8,465	29,810	41,075	72,935	91,620	127,575	133,910	132,550	110,440	75,020	52,725
27		9,180	30,560	51,735	73,645	92,320	129,535	133,670	132,550	108,660	73,590	52,725
28		9,605	31,135	52,405	74,135	93,030	131,275	133,750	132,390	106,893	72,340	52,685
29		10,840	31,870	53,325	-	93,675	132,550	133,670	132,310	105,150	70,955	52,605
30		11,450	32,540	54,180	-	94,325	133,990	133,750	132,390	103,420	69,960	52,685
31		-	33,230	54,925	-	95,040	-	133,750	-	102,390	68,665	-

Elevation, and contents, water year October 1938 to September 1939

Date	Elevation (feet)	Contents (acre-ft.)	Change in contents during month (acre-feet)
Sept. 30	-	0	0
Oct. 31	-	0	0
Nov. 30	6,269.34	11,450	+11,450
Dec. 31	6,283.37	33,230	+21,780
Calendar year 1938	-	-	+33,230
Jan. 31	6,290.03	54,925	+21,695
Feb. 28	6,294.03	74,135	+19,210
Mar. 31	6,297.50	95,040	+20,905
Apr. 30	6,302.85	133,990	+38,950
May 31	6,302.82	133,750	-240
June 30	6,302.65	132,390	-1,360
July 31	6,298.60	102,390	-30,000
Aug. 31	6,293.00	68,665	-33,725
Sept. 30	6,289.48	52,685	-15,980
Water year 1938-39	-	-	+52,685

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. Prior to Oct. 31, 1938, gage was set to independent datum.

Records available.- January 1933 to September 1939.

Extremes.- Maximum discharge during year, 1,220 second-feet May 4 (gage height, 4.33 feet, present datum); minimum, 1 second-foot Nov. 16 to Dec. 7.
1933-39: Maximum discharge, 1,590 second-feet May 9, 1937 (gage height, 6.08 feet, former datum); minimum, that of Nov. 16 to Dec. 7, 1938.

Remarks.- Records good except those for periods when recorder was not in operation, Oct. 25-30, Nov. 8, 18-19, Dec. 3, June 16, which were computed on basis of records for station near Warm River and are fair. Flow regulated by Island Park Reservoir (capacity, 127,300 acre-feet), in which storage began Nov. 15. Water began to flow over spillway of reservoir April 26, and outlet gates were first opened June 30 for release of stored water. Results of 16 discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	444	522	1	3	7	6	11	835	517	645	1,000	1,130
2	444	531	1	3	7	6	11	952	503	569	1,010	1,130
3	444	531	1	3	7	8	11	1,030	498	531	1,010	1,130
4	432	512	1	4	7	8	11	1,070	494	494	1,020	1,120
5	419	484	1	4	7	8	11	1,060	470	475	1,010	1,120
6	419	470	1	4	7	8	11	1,110	465	484	1,010	1,030
7	419	465	1	4	8	8	11	1,080	465	475	1,010	989
8	487	470	2	4	8	8	11	1,030	465	484	1,010	984
9	523	475	2	5	8	8	11	999	470	559	1,010	984
10	462	416	2	5	8	8	11	963	470	564	1,010	978
11	449	512	2	5	8	8	11	921	470	569	1,010	978
12	440	376	2	5	8	8	11	900	484	727	1,010	890
13	453	508	2	6	8	9	11	885	489	926	1,000	796
14	453	480	2	6	8	9	11	860	465	947	1,000	683
15	483	200	2	6	8	9	11	835	494	1,020	1,000	569
16	581	1	2	6	8	10	11	830	503	1,120	1,000	522
17	558	1	2	7	8	10	11	850	512	1,140	1,000	494
18	501	1	2	7	8	10	11	840	531	1,140	999	475
19	386	1	2	7	8	10	11	850	541	1,140	999	452
20	581	1	2	7	8	10	11	796	550	1,140	994	416
21	483	1	2	7	8	10	11	762	545	1,140	994	411
22	457	1	2	7	8	10	11	737	541	1,140	999	424
23	444	1	2	7	8	10	12	722	531	1,140	994	429
24	444	1	2	7	8	10	12	683	489	1,140	994	434
25	375	1	2	7	8	10	12	650	475	1,140	989	434
26	500	1	2	7	8	10	38	611	456	1,140	1,100	438
27	444	1	2	7	8	10	137	588	442	1,160	1,140	461
28	444	1	3	7	8	11	300	578	429	1,190	1,140	461
29	444	1	3	7	-	11	484	569	416	1,170	1,140	456
30	444	1	3	7	-	11	645	555	550	1,170	1,130	452
31	494	-	3	7	-	11	-	531	-	1,150	1,130	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	14,351	581	375	463	28,460
November	6,967	531	1	232	13,820
December	59	3	1	1.9	117
Calendar year 1938	192,164	1,580	1	526	381,200
January	178	7	3	5.7	353
February	218	8	7	7.8	432
March	287	11	8	9.3	569
April	1,882	645	11	62.7	3,730
May	25,702	1,110	531	829	50,980
June	14,730	550	416	491	29,220
July	27,829	1,190	475	898	55,200
August	31,862	1,140	989	1,028	63,200
September	21,270	1,130	411	709	42,190
Water year 1938-39	145,335	1,190	1	398	288,300

Henrys Fork at De Winers ranch, near Island Park, Idaho

Location.- Water-stage recorder, lat. 44°24', long. 111°24', in SW¼ sec. 8, T. 12 N., R. 43 E., 3 miles downstream from Buffalo River and 4 miles southwest of Island Park.

Records available.- May 1935 to September 1939.

Extremes.- The maximum and the minimum daily discharge for water years 1934-35 to 1938-39 are given in the following table:

Water year	Maximum			Minimum		
	Date	Discharge (sec.-ft.)	Gage height (feet)	Date	Discharge (sec.-ft.)	Gage height (feet)
1934-35	May 11	1,580	2.56	Sept. 14-18, 20-22, 30	535	1.56
1935-36	Apr. 26	1,740	2.72	Jan. 17	482*	1.50
1936-37	May 9	1,660	2.72	Mar. 24-26, Apr. 4	490*	1.53
1937-38	May 4	1,920	2.96	Dec. 8	440†	-
1938-39	May 4	1,580	2.66	Nov. 16, 17	188	1.02

*Recorded.
†Estimated.

1935-39: Maximum daily discharge, 1,920 second-feet May 4 (gage height, 2.96 feet); minimum daily, 188 second-feet Nov. 16, 17 (gage height, 1.02 feet).

Remarks.- Records for 1935 to 1937 good, for 1938 fair, and for 1939 excellent. Flow regulated by Henrys Lake (capacity, 79,320 acre-feet) and since Nov. 15, 1938 by Island Park Reservoir (capacity, 127,300 acre-feet). Gage-height record and results of 42 discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, 1935-39

1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	1,150	638	812	550
2								-	1,110	638	822	550
3								-	1,110	647	831	550
4								-	1,100	647	803	558
5								-	1,100	638	750	558
6								-	1,090	622	715	550
7								-	1,090	638	656	558
8								-	1,090	647	614	566
9								-	1,100	647	606	566
10								1,480	1,070	638	614	550
11								1,580	1,050	724	606	550
12								1,520	1,030	733	598	543
13								1,420	1,030	733	598	543
14								1,310	976	733	598	535
15								1,200	916	733	582	535
16								1,200	868	759	590	535
17								1,060	840	777	574	535
18								1,180	803	759	574	535
19								1,160	785	777	574	543
20								1,180	777	777	582	535
21								1,160	759	777	606	535
22								1,180	759	777	606	535
23								1,270	733	777	614	558
24								1,270	706	768	614	558
25								1,270	690	759	614	542
26								1,260	672	768	614	542
27								1,230	664	759	606	550
28								1,170	647	822	598	550
29								1,110	647	812	590	542
30								1,060	638	812	582	535
31								1,160	-	812	566	-

Discharge, in second-feet, of Henrys Fork at De Winers ranch, near Island Park, Idaho, 1935-39--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	535	520	535	528		512	505	1,680	887	724	*825	
2	535	520	535	-		512	505	1,470	877	724	*806	
3	535	520	535	-		505	512	1,450	896	715	777	
4	542	528	535	-		505	*512	1,500	812	706	759	
5	528	528	535	-		505	*512	1,510	794	733	759	
6	535	528	535	-		*505	*512	1,390	794	741	647	
7	535	535	535	-		*505	*512	1,300	777	750	614	
8	528	535	528	-		*505	512	1,190	759	750	604	
9	528	535	528	-		*505	*516	1,170	741	768	574	
10	528	528	528	-		505	*516	1,200	794	768	582	
11	528	528	528	-		*505	*522	1,260	724	777	590	
12	528	528	528	-		*505	*528	1,300	715	768	638	
13	528	512	528	-		*505	*534	1,300	706	759	606	
14	512	512	528	-		505	542	1,300	706	768	590	
15	550	520	528	-		505	535	1,300	706	768	574	
16	550	520	528	-		505	550	1,240	698	768	574	
17	535	520	528	482		505	574	1,160	690	768	574	
18	535	520	535	-		505	622	1,080	664	750	574	
19	535	512	535	-		505	690	1,040	664	750	574	
20	535	512	535	-		505	777	1,020	656	759	574	
21	535	512	535	498		505	926	966	656	759	558	
22	528	512	535	-		505	1,080	926	638	759	558	
23	528	512	535	-		498	1,240	896	630	759	558	
24	528	520	535	-		498	1,350	877	622	*834	558	580
25	535	520	535	-		498	1,600	868	630	*882	558	
26	528	520	535	-		505	1,740	859	630	*887	558	
27	520	520	528	-		*505	1,640	868	630	*872	558	
28	528	528	528	-		*505	1,670	850	647	*849	558	
29	528	528	528	-		*505	1,500	822	690	*858	558	
30	512	535	528	-		*505	1,590	812	724	*877	558	
31	512	-	528	-		*505	-	812	-	*844	558	

*Computed on basis of records for station near Island Park.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	566	*550	535			-	512	768	859	638	906	647
2	566	*550	535			-	520	906	822	690	916	630
3	566	*550	542			-	*505	1,110	812	690	868	630
4	566	*550	535			-	490	1,230	831	706	859	606
5	566	*550	535			-	498	1,320	785	785	850	574
6	566	*550	535			-	498	1,320	733	916	822	558
7	566	*550	520			-	498	1,380	698	916	794	550
8	566	*550	528			-	498	1,590	715	916	750	550
9	566	558	528			-	498	1,660	733	926	785	550
10	566	542	520			-	498	1,560	768	906	759	550
11	558	542	528			-	512	1,360	794	785	750	550
12	558	542	528			-	512	1,160	896	706	750	550
13	558	542	528			-	520	1,090	976	681	733	550
14	558	550	528			-	520	1,090	916	664	724	542
15	558	550	528			-	528	1,100	877	672	741	550
16	558	558	528			-	542	1,100	822	690	768	582
17	558	558	528			-	535	1,110	812	672	759	590
18	558	558	528			-	542	1,140	794	656	812	590
19	566	558	528			-	574	1,180	777	647	831	598
20	558	558	528			-	582	1,170	759	664	868	606
21	558	558	528			-	598	1,110	741	698	850	614
22	550	558	528			-	622	1,050	724	741	831	614
23	550	558	528			-	614	1,050	715	840	831	638
24	550	558	528			490	590	1,030	698	868	785	630
25	550	558	528			490	622	1,010	690	877	750	606
26	550	542	528			490	672	*990	664	916	741	590
27	550	542	528			498	777	*970	664	916	724	590
28	550	542	528			490	812	*950	638	896	*715	582
29	550	542	528			498	741	*920	622	887	*705	582
30	550	542	528			498	724	887	614	877	*695	582
31	550	-	528			498	-	868	-	887	664	-

*Computed on basis of records for station near Island Park.

Discharge, in second-feet, of Henrys Fork at De Winers ranch, near Island Park, Idaho, 1935-39--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	566	542	*480	512	550	*520	528	1,880	1,590	966	803	785
2	566	550	520	520	550	*520	*535	1,890	1,560	1,030	794	785
3	558	550	512	520	528	*520	*535	1,910	1,510	1,150	803	785
4	550	542	505	520	512	520	*535	1,920	1,480	1,170	822	777
5	542	535	498	520	505	512	*535	1,840	1,440	1,120	831	777
6	542	535	498	520	498	512	*535	1,690	1,420	976	840	777
7	542	542	505	490	505	512	*535	1,520	1,400	1,040	859	768
8	542	535	*440	490	520	512	*535	1,370	1,370	976	859	785
9	542	535	582	490	*525	520	*535	1,350	1,350	916	868	803
10	535	528	542	498	535	520	*535	1,420	1,290	877	868	803
11	550	535	574	498	520	520	*535	1,490	1,200	859	859	803
12	542	*470	614	498	505	528	*535	1,490	1,160	840	859	794
13	542	630	558	528	505	558	535	1,450	1,130	831	877	794
14	542	574	566	*510	*510	558	566	1,450	1,120	812	946	785
15	566	566	574	505	*510	*560	574	1,460	1,100	785	1,010	698
16	566	550	566	520	*510	566	582	1,490	1,070	785	1,050	656
17	574	550	558	520	*510	558	606	1,540	1,060	777	1,040	647
18	542	520	542	520	*510	528	622	1,610	1,050	768	1,040	647
19	542	*450	535	520	*510	528	664	1,540	1,020	768	1,020	647
20	535	*490	520	512	*510	542	690	*1,440	976	785	1,030	647
21	535	*530	528	512	*510	512	*720	1,340	966	785	1,030	647
22	535	*540	535	528	*510	535	724	1,300	956	794	1,030	*647
23	535	535	542	520	*510	520	777	1,310	926	803	1,030	*647
24	535	528	*510	512	*510	535	840	1,330	906	822	1,030	*647
25	535	528	*520	550	512	520	956	1,380	896	822	986	647
26	535	535	550	528	512	520	1,100	1,440	877	822	966	656
27	535	535	550	558	512	*520	1,230	1,470	877	822	936	647
28	528	*540	535	542	[illegible]	*520	1,370	1,520	877	822	936	638
29	528	*540	528	528	-	*520	1,600	1,570	868	822	868	647
30	528	*520	520	490	-	*520	*1,760	1,590	896	822	840	656
31	542	-	520	558	-	520	-	1,600	-	812	822	-

*Computed on basis of records for station near Island Park.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	647	733	199	199			*220	*1,190	803	831	1,230	1,370
2	647	733	199	199			*230	1,330	777	768	1,240	1,370
3	638	715	199	199			*250	1,390	768	750	1,240	1,370
4	622	690	199	199			268	1,440	759	715	1,240	1,370
5	614	656	199	204			268	1,460	741	698	1,240	1,370
6	622	647	199	204			263	1,470	733	724	1,240	1,290
7	622	664	199	199		200	241	1,440	724	706	1,230	1,250
8	681	664	199				241	1,370	715	706	1,230	1,240
9	664	664	199				246	1,330	741	777	1,230	1,240
10	656	618	199				252	1,280	733	794	1,230	1,240
11	647	698	199				258	1,230	724	803	1,230	1,240
12	638	586					263	1,200	733	896	1,230	1,150
13	647	706				204	263	1,180	733	1,140	1,230	1,050
14	656	681				*204	280	1,150	698	1,150	1,230	926
15	706	421				*199	337	1,120	715	1,220	1,230	803
16	794	188				199	356	1,120	*728	1,300	1,230	759
17	777	188				204	349	1,140	741	1,330	1,230	741
18	715	194				204	368	1,120	768	1,320	1,220	715
19	563	194		200		204	406	1,140	785	1,320	1,220	698
20	785	194				209	406	1,070	803	1,330	1,220	656
21	690	194	199			209	381	1,020	794	1,330	1,220	656
22	664	194				209	362	996	777	1,340	1,220	664
23	656	194				214	356	996	768	1,330	1,220	681
24	656	195					387	956	715	1,350	1,220	681
25	594	195					400	926	706	1,350	1,220	681
26	681	196					381	896	698	1,350	1,320	690
27	656	198				214	461	877	698	1,380	1,370	698
28	638	199					647	859	681	1,390	1,370	698
29	638	199					868	859	681	1,380	1,370	690
30	647	199					1,050	840	768	1,390	1,370	690
31	681	-					-	822	-	1,390	1,370	-

*Computed on basis of records for station near Island Park.

Discharge, in second-feet, of Henrys Fork at De Winers ranch, near Island Park, Idaho, 1935-39--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 10-31, 1935	27,430	1,580	1,060	1,247	54,410
June	27,000	1,150	638	900	53,550
July	22,548	822	622	727	44,720
August	19,709	831	566	636	39,090
September	16,392	566	535	546	32,510
The period	-	-	-	-	224,300
October 1935	16,447	550	512	531	32,620
November	15,668	535	512	522	31,080
December	16,480	535	528	532	32,690
Calendar year	-	-	-	-	-
January 1936	-	-	-	-	-
February	-	-	-	-	-
March	15,648	512	498	505	31,040
April	25,324	1,740	505	844	50,230
May	35,416	1,680	812	1,142	70,250
June	21,557	896	622	719	42,760
July	24,194	887	706	780	47,990
August	18,953	825	558	611	37,590
September	-	-	-	-	-
Water year	-	-	-	-	-
October 1936	17,306	566	550	558	34,330
November	16,516	558	542	551	32,760
December	16,401	542	520	529	32,530
Calendar year	-	-	-	-	-
January 1937	-	-	-	-	-
February	-	-	-	-	-
March 24-31	3,952	498	490	494	7,840
April	17,154	812	490	572	34,020
May	35,179	1,660	768	1,135	69,780
June	22,949	976	614	765	45,520
July	24,329	926	638	785	48,260
August	24,336	916	664	785	48,270
September	17,581	647	542	586	34,870
Water year	-	-	-	-	-
October 1937	16,857	574	528	544	33,440
November	16,060	630	450	535	31,850
December	16,527	614	440	533	32,780
Calendar year	-	-	-	-	-
January 1938	16,037	558	490	517	31,810
February	14,424	550	498	515	28,610
March	16,356	566	512	528	32,440
April	22,329	1,760	528	744	44,290
May	47,600	1,920	1,300	1,535	94,410
June	34,341	1,590	868	1,145	68,110
July	27,179	1,170	768	877	53,910
August	28,552	1,050	794	921	56,630
September	21,442	803	638	715	42,530
Water year 1937-38	277,704	1,920	440	761	550,800
October 1938	20,542	794	563	663	40,740
November	12,797	733	188	427	25,380
December	6,169	-	-	199	12,240
Calendar year 1938	267,768	1,920	188	734	531,100
January 1939	6,203	-	-	200	12,300
February	5,600	-	-	*200	11,110
March	6,371	214	199	206	12,640
April	11,058	1,050	220	369	21,930
May	35,217	1,470	822	1,136	69,850
June	22,208	803	681	740	44,050
July	34,258	1,390	698	1,105	67,950
August	38,890	1,370	1,220	1,255	77,140
September	28,677	1,370	656	956	56,880
Water year 1938-39	227,990	1,470	188	625	452,200

*Estimated.

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 from Warm River railroad station.

Drainage area.- 660 square miles.

Records available.- September 1910 to March 1915 and April 1918 to September 1939.

Extremes.- Maximum discharge during year, 1,790 second-feet May 6 (gage height, 5.68 feet); minimum, 232 second-feet Nov. 21 (gage height, 3.23 feet).
1910-15, 1918-39: Maximum discharge, 3,540 second-feet May 18, 1927 (gage height, 7.55 feet); minimum, that of Nov. 21, 1938.

Remarks.- Records good except those for periods of missing gage heights, which are fair. Flow regulated by Henrys Lake (capacity, 79,320 acre-feet) and Island Park Reservoir (capacity, 127,300 acre-feet). Some water diverted above station for irrigation of meadows on headwaters.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	785	896	387	350	346	358	400	*1,360	1,010	994	1,420	1,500
2	792	908	383	339	327	362	422	*1,430	987	922	1,360	1,500
3	*783	908	366	346	350	354	448	1,530	980	902	1,360	1,500
4	*775	902	*366	343	354	374	477	*1,650	974	876	1,360	1,500
5	767	844	*366	358	379	366	501	1,770	967	870	1,360	1,500
6	749	811	*366	339	362	331	467	1,760	941	889	1,360	1,470
7	743	804	366	354	327	366	458	1,730	941	889	1,360	1,390
8	755	824	*374	*354	331	366	453	1,660	934	856	1,360	1,380
9	863	818	383	*354	305	362	458	1,620	954	908	1,380	1,350
10	804	811	374	*354	354	370	463	1,560	974	954	1,370	1,380
11	779	749	331	*354	395	374	467	1,520	902	908	1,370	1,380
12	761	743	301	*354	395	*374	501	1,460	915	987	1,370	1,390
13	749	856	294	*354	383	*374	511	1,440	902	1,170	1,360	1,280
14	767	844	343	354	383	*374	517	1,400	889	1,260	1,360	1,220
15	870	844	379	*353	370	374	626	*1,380	856	1,320	1,360	1,080
16	902	463	366	*352	339	374	678	1,350	915	1,380	1,370	974
17	915	339	374	*351	362	379	660	1,410	934	1,440	1,370	934
18	870	343	366	350	379	383	678	*1,390	994	1,440	1,370	922
19	798	354	366	354	366	387	761	*1,370	1,010	1,440	1,370	889
20	830	354	350	362	374	391	818	1,340	1,040	1,430	1,370	863
21	*814	258	362	358	339	391	785	*1,310	974	1,440	1,370	818
22	798	327	*358	346	366	395	773	*1,280	960	1,440	1,370	824
23	779	327	*354	354	366	400	755	1,260	902	1,440	1,370	824
24	779	362	350	350	354	400	811	1,220	882	1,440	1,370	837
25	731	358	350	358	374	391	915	1,180	870	1,440	1,370	837
26	811	370	354	358	362	391	837	1,140	856	1,440	1,380	830
27	792	362	366	358	350	391	818	1,090	844	1,450	†1,470	844
28	779	354	366	379	316	391	1,000	1,080	837	1,480	†1,500	850
29	785	370	370	366	-	395	1,220	1,070	824	1,480	†1,500	844
30	798	379	362	354	-	395	*1,290	1,060	824	1,490	1,500	837
31	837	-	358	350	-	391	-	1,040	-	1,540	1,500	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	24,760	915	731	799	49,110
November	17,882	908	258	596	35,470
December	11,151	387	294	360	22,120
Calendar year 1938	336,302	2,540	258	921	667,000
January	10,960	379	339	354	21,740
February	10,008	395	305	357	19,850
March	11,724	400	331	378	23,250
April	19,968	1,290	400	666	39,610
May	42,860	1,770	1,040	1,383	85,010
June	27,792	1,040	824	926	55,120
July	37,915	1,540	856	1,223	75,200
August	43,060	1,500	1,360	1,389	85,410
September	33,747	1,500	818	1,125	66,940
Water year 1938-39	291,827	1,770	258	800	578,800

*Gage height missing; discharge interpolated.
†Gage height missing; discharge computed on basis of records for station near Island Park.

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.

Drainage area.- 1,030 square miles.

Records available.- August 1902 to June 1909 and April 1920 to September 1939.

Extremes.- Maximum discharge during year, 3,630 second-feet May 4 (gage height 7.30 feet); minimum, 215 second-feet March 20 (gage height, 5.06 feet), owing to regulation by power plant; minimum daily discharge, 464 second-feet Nov. 22.
1902-9, 1920-39: Maximum discharge, 6,220 second-feet May 7, 1925; minimum, 65 second-feet Oct. 16, 1935 (gage height, 4.59 feet), owing to regulation by power plant; minimum daily discharge, 440 second-feet Dec. 5, 1931 (gage height, 5.29 feet).

Remarks.- Records excellent. Flow regulated at power plant above station and by Henrys Lake and Island Park Reservoirs (capacities, 79,320 and 127,300 acre-feet, respectively). Some water diverted above station for irrigation of meadows on headwaters.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,050	1,280	560	705	617	610	1,020	2,630	1,480	1,370	1,790	1,850
2	1,070	1,250	706	640	586	679	820	2,830	1,400	1,310	1,700	1,850
3	1,070	1,220	719	647	621	585	1,120	2,760	1,400	1,250	1,670	1,830
4	1,070	1,250	675	645	660	678	1,180	2,830	1,370	1,250	1,690	1,810
5	1,040	1,180	652	641	642	594	1,190	2,800	1,350	1,200	1,700	1,830
6	1,050	1,070	672	609	647	621	989	2,720	1,290	1,250	1,690	1,830
7	1,070	1,110	672	616	600	677	988	2,580	1,280	1,250	1,670	1,690
8	1,070	1,090	680	584	577	648	956	2,430	1,290	1,220	1,690	1,690
9	1,260	1,120	698	565	539	649	661	2,370	1,420	1,220	1,690	1,670
10	1,120	1,090	700	605	607	637	1,020	2,320	1,430	1,260	1,690	1,670
11	1,120	975	629	698	678	664	938	2,300	1,340	1,290	1,690	1,690
12	1,080	1,030	493	664	658	653	988	2,200	1,290	1,350	1,690	1,700
13	1,070	962	480	666	662	661	1,030	2,120	1,310	1,480	1,670	1,600
14	1,070	1,150	608	659	678	656	1,060	2,060	1,310	1,620	1,670	1,510
15	1,340	1,120	691	660	635	650	1,190	2,020	1,260	1,700	1,690	1,340
16	1,290	874	659	636	588	586	1,310	1,980	1,290	1,780	1,690	1,200
17	1,310	513	642	657	588	688	1,260	2,100	1,380	1,850	1,670	1,200
18	1,250	580	655	629	674	617	1,320	2,020	1,510	1,830	1,670	1,180
19	1,090	644	691	633	668	500	1,400	2,020	1,550	1,830	1,670	1,130
20	1,030	722	635	645	581	777	1,550	1,940	1,600	1,810	1,670	1,110
21	1,190	534	642	645	547	750	1,530	1,830	1,510	1,830	1,670	1,070
22	1,080	464	665	555	717	692	1,560	1,790	1,380	1,830	1,650	1,070
23	1,090	504	631	619	622	762	1,550	1,780	1,350	1,830	1,670	1,090
24	1,070	560	711	626	615	777	1,650	1,730	1,340	1,830	1,650	1,090
25	1,080	591	516	624	648	742	1,810	1,690	1,260	1,830	1,670	1,090
26	1,050	562	575	614	670	636	1,570	1,600	1,260	1,830	1,670	1,080
27	1,090	579	592	635	649	980	1,480	1,560	1,230	1,830	1,850	1,090
28	1,070	595	662	688	607	835	1,870	1,550	1,230	1,830	1,850	1,090
29	1,070	609	672	652	-	718	2,140	1,500	1,190	1,870	1,850	1,110
30	1,110	778	670	675	-	898	2,410	1,460	1,200	1,870	1,830	1,110
31	1,190	-	665	652	-	826	-	1,480	-	1,890	1,850	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	34,610	1,340	1,040	1,116	68,650
November	26,006	1,280	464	867	51,580
December	19,918	719	480	643	39,510
Calendar year 1938	476,917	4,040	464	1,307	945,900
January	19,789	705	555	638	39,250
February	17,481	717	539	624	34,670
March	21,446	980	500	692	42,540
April	39,760	2,410	820	1,325	78,860
May	65,050	2,830	1,460	2,098	129,000
June	40,500	1,600	1,190	1,350	80,330
July	49,390	1,890	1,200	1,593	97,960
August	52,970	1,850	1,650	1,709	105,100
September	42,270	1,850	1,070	1,409	83,840
Water year 1938-39	429,190	2,830	464	1,176	851,300

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

Between Ashton and St. Anthony gaging stations eight canals* divert water from Henrys Fork for irrigation. Records available for part of each irrigation season from 1919 to 1939. Records of discharge of canals computed from daily readings of staff gages and combined to show total diverted flow.

Records good except those for May and June, which are fair.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								844	1,330	1,150	996	758
2								855	1,250	1,130	951	760
3								837	1,230	1,120	926	761
4								899	1,210	1,040	959	764
5								1,000	1,190	968	876	751
6								991	1,110	985	877	749
7								1,000	1,080	80[illegible]	862	742
8								1,020	1,070	78[illegible]	857	735
9								1,090	953	77[illegible]	852	729
10								1,130	929	72[illegible]	795	664
11								1,200	964	74[illegible]	798	657
12								1,230	1,010	81[illegible]	798	597
13								1,240	971	81[illegible]	805	616
14								1,250	954	89[illegible]	840	610
15								1,210	1,000	92[illegible]	884	588
16								1,040	1,020	92[illegible]	915	579
17								1,270	1,020	98[illegible]	960	550
18								1,260	890	95[illegible]	965	544
19								1,220	793	1,11[illegible]	968	537
20								1,270	792	1,13[illegible]	970	529
21								1,270	679	1,09[illegible]	1,000	437
22								1,280	6[illegible]	1,07[illegible]	948	437
23								1,270	714	1,06[illegible]	933	440
24								1,270	836	1,08[illegible]	930	446
25								1,260	813	1,08[illegible]	927	452
26								1,260	868	1,06[illegible]	893	449
27								1,250	893	1,11[illegible]	903	441
28								1,340	1,040	1,12[illegible]	846	440
29								1,340	1,060	1,13[illegible]	800	442
30								1,340	873	1,14[illegible]	738	442
31								1,350	-	1,06[illegible]	728	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	36,086	1,350	837	1,164	71,580
June	29,142	1,330	600	971	57,800
July	30,772	1,150	721	993	61,040
August	27,500	1,000	728	887	54,550
September	17,646	764	437	588	35,000
The period	-	-	-	-	280,000

*Cross Cut canal was completed in 1938 and put in full operation during irrigat'on season of 1939.

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.

Records available.- March 1919 to September 1939 (irrigation seasons only).

Extremes.- Maximum discharge recorded during year, 5,490 second-feet May 2 (gage height, 5.50 feet); minimum daily discharge, 554 second-feet July 9 (gage height, 2.96 feet).
1919-39: Maximum discharge observed, 9,030 second-feet May 8, 1925 (gage height, 6.70 feet); minimum daily discharge, 413 second-feet July 22, 1931 (gage height, 2.78 feet).

Remarks.- Records good. Diversions for irrigation above station. Flow regulated by operation of power plant 17 miles upstream and by storage in Henrys Lake (capacity, 79,320 acre-feet) and Island Park Reservoir (capacity, 127,300 acre-feet).

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								4,830	2,290	908	1,020	1,260
2								4,910	1,840	951	951	1,250
3								4,750	1,430	730	919	1,240
4								4,670	1,260	600	897	1,210
5								4,530	1,330	585	972	1,240
6								3,980	1,260	693	962	1,250
7								3,680	1,100	739	962	1,140
8								3,300	940	625	972	1,140
9								3,200	1,260	554	1,010	1,150
10								3,110	2,360	608	1,050	1,190
11								3,060	1,940	659	1,060	1,210
12								2,890	1,610	642	1,070	1,240
13								2,750	1,260	693	1,050	1,290
14								2,720	1,150	806	1,020	1,280
15								2,940	972	806	972	1,120
16								3,130	856	856	940	1,010
17								3,500	1,020	908	876	972
18								3,260	1,630	908	876	930
19								3,080	1,800	856	876	908
20								2,610	2,140	786	866	887
21								2,080	2,140	786	876	856
22								1,840	1,820	796	876	876
23								1,710	1,580	816	919	908
24								1,610	1,400	826	919	897
25								1,420	1,220	826	930	897
26								1,290	1,120	836	972	887
27								1,240	836	816	1,120	887
28								1,340	667	796	1,180	897
29								1,470	625	816	1,200	940
30								1,730	786	816	1,210	919
31								2,190	-	930	1,250	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	88,820	4,910	1,240	2,865	176,200
June	41,642	2,290	625	1,388	82,600
July	23,973	951	554	773	47,550
August	30,773	1,250	866	993	61,040
September	31,881	1,290	856	1,063	63,230
The period	-	-	-	-	430,600

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 1939. Records of discharge of canals computed from daily readings of staff gages and combined to show total diverted flow.

Records good except those for May and June, which are fair.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								836	1,210	864	681	631
2								884	1,090	863	671	621
3								901	1,010	797	745	609
4								931	1,010	70[illegible]	759	598
5								1,020	946	627	786	589
6								1,010	926	617	778	581
7								1,060	878	64[illegible]	723	565
8								1,070	838	64[illegible]	731	551
9								1,090	921	618	709	537
10								1,070	869	614	715	522
11								1,110	740	67[illegible]	695	508
12								1,130	762	62[illegible]	701	488
13								1,140	805	63[illegible]	695	420
14								1,160	836	82[illegible]	695	410
15								1,170	819	82[illegible]	706	401
16								1,160	836	85[illegible]	723	395
17								1,270	848	86	727	388
18								1,240	773	84[illegible]	693	380
19								1,230	625	83[illegible]	639	383
20								1,210	563	81[illegible]	608	385
21								1,210	526	86[illegible]	620	386
22								1,190	679	84[illegible]	620	385
23								1,160	699	83[illegible]	685	393
24								1,150	710	84	695	401
25								1,140	715	83[illegible]	678	410
26								1,110	718	82[illegible]	689	418
27								1,210	724	83[illegible]	667	425
28								1,250	679	81[illegible]	654	412
29								1,180	764	83[illegible]	629	399
30								1,250	858	83[illegible]	632	399
31								1,220	-	68[illegible]	638	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	34,762	1,270	836	1,121	68,950
June	24,377	1,210	526	813	48,350
July	23,802	864	614	768	47,210
August	21,387	786	608	690	42,420
September	13,990	631	380	466	27,750
The period	-	-	-	-	234,700

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.

Drainage area.- 3,010 square miles.

Records available.- April 1909 to September 1939.

Extremes.- Maximum discharge during year, 5,060 second-feet May 2, 3 (gage height, 8.15 feet); minimum, 548 second-feet July 29 (gage height, 2.58 feet).
1909-39: Maximum discharge, 9,490 second-feet June 29, 1927 (gage height, 9.90 feet); minimum, 183 second-feet March 24-28, 1934 (gage height, 1.45 feet).

Remarks.- Records good except those for period of ice effect, Dec. 14-19, 25, 27-31, Jan. 1, 8-31, Feb. 1 to Mar. 17, which were estimated and are fair. Flow regulated by operation of power plant at Ashton and by storage in Henrys Lake (capacity, 79,320 acre-feet) and Island Park Reservoir (capacity, 127,300 acre-feet). Diversions for irrigation above station. No diversions from Henrys Fork below station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	710	2,150	1,530	1,300			2,340	4,480	1,660	730	868	1,140
2	745	2,340	1,400	1,370			2,740	4,920	1,770	830	945	1,150
3	786	2,300	1,470	1,370			2,860	5,030	1,510	874	857	1,140
4	791	2,260	1,490	1,320			3,000	4,950	1,220	775	786	1,140
5	852	2,320	1,400	1,360			3,180	4,900	1,140	760	786	1,130
6	1,010	2,230	1,410	1,350			2,920	4,820	1,190	808	796	1,150
7	1,080	2,130	1,440	1,320			2,350	4,470	1,170	1,040	818	1,110
8	1,100	2,180	1,440				2,060	4,060	1,110	1,020	802	1,080
9	1,220	2,180	1,440				1,890	3,490	1,030	896	846	1,110
10	1,520	2,220	1,450			1,300	1,790	3,300	1,740	802	862	1,160
11	1,570	2,140	1,440				1,770	3,180	2,400	730	918	1,170
12	1,540	2,060	1,270				1,700	3,040	2,150	660	918	1,240
13	1,500	2,030	1,100				1,720	2,900	1,720	605	901	1,370
14	1,450	2,050	1,000				1,830	2,710	1,340	620	874	1,450
15	1,610	2,140	1,100				1,910	2,670	1,200	630	813	1,430
16	2,080	2,130	1,260				2,100	2,740	962	620	760	1,320
17	2,270	1,890	1,270				2,200	3,010	956	650	710	1,250
18	2,280	1,610	1,280			1,460	2,140	3,260	1,500	670	675	1,210
19	2,150	1,570	1,280			1,430	2,180	3,140	2,250	665	665	1,190
20	1,980	1,610	1,290	1,250		1,460	2,350	2,880	2,640	615	695	1,150
21	1,940	1,580	1,290			1,700	2,610	2,320	2,960	566	710	1,130
22	1,970	1,350	1,280			1,890	2,800	1,850	2,980	558	710	1,110
23	1,870	1,240	1,280			2,060	3,090	1,580	2,640	562	695	1,130
24	1,860	1,260	1,260			2,380	3,160	1,430	2,350	566	725	1,130
25	1,820	1,330	1,200			2,590	3,430	1,320	2,060	566	730	1,120
26	1,810	1,390	1,140			2,710	3,730	1,110	1,790	566	755	1,110
27	1,820	1,350	1,050			2,720	3,530	978	1,490	566	824	1,090
28	1,840	1,360	1,200			2,760	3,300	846	1,150	553	972	1,060
29	1,820	1,350	1,250			2,680	3,650	890	912	548	1,050	1,060
30	1,800	1,390	1,250			2,580	4,110	994	760	576	1,090	1,080
31	1,890	-	1,250			2,550	-	1,260	-	680	1,120	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	48,684	2,280	710	1,570	96,560
November	55,140	2,340	1,240	1,838	109,400
December	40,210	1,530	1,000	1,297	79,760
Calendar year 1938	713,777	6,170	476	1,956	1,416,000
January	39,390	-	-	1,271	78,130
February	35,840	-	-	1,280	71,090
March	53,070	2,760	-	1,712	105,300
April	78,440	4,110	1,700	2.615	155,600
May	88,528	5,030	846	2,856	175,600
June	49,750	2,980	760	1,658	98,680
July	21,307	1,040	548	687	42,260
August	25,676	1,120	665	828	50,930
September	35,110	1,450	1,060	1,170	69,640
Water year 1938-39	571,145	5,030	548	1,565	1,133,000

Sheridan Creek near Island Park, Idaho

Location.- Water-stage recorder, lat. 44°25', long. 111°38', half a mile west of southeast corner of sec. 27, T. 13 N., R. 41 E., 1 mile downstream from Willow Creek and 12 miles west of Island Park.

Records available.- May 1935 to September 1939.

Remarks.- Records fair. Diversions for irrigation above station. Records for 1935 to 1938 and gage-height record and results of seven discharge measurements for 1939 furnished by Bureau of Reclamation.

Discharge, in second-feet, 1935-39

Day	1935						1936				1937				
	May	June	July	Aug.	Sept.	Oct.	May	June	July	Aug.	May	June	July	Aug.	Sept.
1	-	131	6	13	6	6	-	44	19	10		51	0	12	1
2	-	138	4	13	6	6	-	44	18	8	35	39	0	12	2
3	-	145	4	12	5	6	-	37	16	8		28	0	12	5
4	-	155	0	12	5	6	164	33	14	8		28	0	12	8
5	-	167	0	12	5	9	-	30	12	8	45	22	0	12	8
6	-	171	0	11	5	9	-	30	12	8	48	18	0	12	8
7	-	175	0	11	5	9	150	28	11	7	52	14	0	12	8
8	-	171	9	11	5	10	130	30	11	8	57	14	6	9	8
9	71	168	5	10	5	10	132	39	11	-	67	17	5	9	8
10	97	163	12	10	5	10	144	27	11	-	74	19	0	9	8
11	87	160	14	10	5	10	178	19	14	-	88	15	0	6	8
12	84	158	13	9	5	5	191	16	18	-	88	23	0	4	8
13	80	138	13	8	5	5	185	15	17	-	99	20	0	3	0
14	70	129	15	28	5	7	159	14	16	-	120	32	0	4	0
15	62	105	13	32	5	7	161	13	18	-	135	32	0	0	0
16	83	88	14	31	6	-	159	12	19	-	152	28	0	0	0
17	103	80	13	32	5	-	122	12	19	-	207	27	0	0	0
18	107	61	13	52	5	-	95	11	19	-	253	22	0	8	0
19	110	52	15	56	5	-	83	10	19	-	234	18	0	8	0
20	113	44	13	46	5	-	76	20	18	-	204	14	0	8	2
21	128	33	11	44	4	-	63	22	15	-	167	10	0	8	2
22	148	28	10	49	5	-	55	24	15	-	152	10	0	8	0
23	155	19	11	49	5	-	54	23	15	-	152	7	0	8	0
24	165	15	9	28	5	-	51	23	14	-	141	3	0	8	2
25	168	15	6	33	5	-	49	23	14	-	134	0	0	8	3
26	163	9	9	25	7	-	45	23	14	-	122	0	11	8	5
27	160	9	9	19	8	-	43	23	14	-	118	5	11	8	1
28	162	9	9	17	5	-	41	23	14	-	108	0	11	8	4
29	163	8	10	12	5	-	35	23	14	-	96	0	11	2	6
30	163	8	5	10	5	-	30	20	14	-	77	0	11	4	6
31	164	-	13	10	-	-	26	-	14	-	58	-	11	2	-

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Discharge, in second-feet, of Sheridan Creek near Island Park, Idaho, 1935-39--Continued

Day	1938 May	1938 June	1938 July	1938 Aug.	1938 Sept.	1938 Oct.	1939 Apr.	1939 May	1939 June	1939 July	1939 Aug.	1939 Sept.
1	228	350	160	43	14	10		269	31	13	*9	11
2	228	379	233	40	14	9		284	28	13	9	11
3	206	345	311	37	13	9		286	26	12	11	11
4	204	332	159	36	13	8		304	21	11	15	11
5	194	323	152	36	13	8		330	18	*11	14	11
6	183	311	130	35	13	9		296	15	*11	14	11
7	172	293	96	31	13	9	*15	253	14	*11	14	11
8	161	282	159	30	12	9		215	*14	11	14	11
9	150	235	142	28	12	10		206	14	*10	14	11
10	140	190	132	27	12	10		*185		*10	14	11
11	129	169	121	25	12	*10		162		*9	14	11
12	118	164	104	26	10	*10		167		*8	14	11
13	126	206	96	21	10	9		*160	10	*7	13	11
14	142	143	104	22	10	9	*30	*150		*7	12	11
15	158	128	100	22	11	12	*50	*140		6	12	11
16	162	181	93	22	11	13	*100	*135		*6	12	11
17	167	172	88	22	11	12	*100	*130	16	*6	17	11
18	162	160	84	22	11	*12	*200	*125	14	*6	16	11
19	186	145	77	22	10	*10	*300	117	15	*6	16	10
20	150	133	71	21	11	8	*300	*90	18	*6	16	10
21	148	125	71	20	11	8	*250	*70	19	6	15	9
22	158	108	68	20	11	7	*250	59	17	*6	16	9
23	182	113	68	20	11	7	*250	48	17	*7	16	9
24	199	106	64	19	11	7	*250	37	13	*8	15	9
25	218	104	59	21	11	7	*200	24	12	*9	14	9
26	408	101	54	19	11	9	*200	20	12	*10	14	9
27	423	98	53	17	11	9	*200	18	7	11	15	9
28	437	93	64	17	12	9	*200	24	*7	*11	15	9
29	437	116	56	17	9	8	188	19	11	*10	14	9
30	425	96	54	17	10	9	203	27	14	*10	13	10
31	447	-	47	17	-	11	-	31	-	*9	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 9-31, 1935	2,806	168	62	122	5,570
June	2,752	175	8	91.7	5,460
July	278	15	0	8.97	551
August	715	56	8	23.1	1,420
September	157	8	4	5.23	311
The period	-	-	-	-	13,310
October 1-15, 1935	115	10	5	7.67	228
May 7-31, 1936	2,457	191	26	98.3	4,870
June	711	44	10	23.7	1,410
July	469	19	11	15.1	930
August 1-8	65	10	7	8.12	129
May 1937	3,388	253	-	109	6,720
June	516	51	0	17.2	1,020
July	77	11	0	2.48	153
August	224	12	0	7.23	444
September	111	8	0	3.70	220
The period	-	-	-	-	8,560
May 1938	6,848	447	118	221	13,580
June	5,701	379	93	190	11,310
July	3,270	311	47	105	6,490
August	772	43	17	24.9	1,530
September	344	14	9	11.5	682
The period	-	-	-	-	33,590
October 1938	287	13	7	9.26	569
November	300	-	-	*10	595
December	310	-	-	*10	615
Calendar year	-	-	-	-	-
January 1939	279	-	-	*9	553
February	252	-	-	*9	500
March	279	-	-	*9	553
April	3,466	-	-	*116	6,870
May	4,381	330	18	141	8,690
June	443	31	7	14.8	879
July	277	13	6	8.94	549
August	429	17	9	13.8	851
September	309	11	9	10.3	613
Water year 1938-39	11,012	-	-	30.2	21,840

*Estimated

Buffalo River near Island Park, Idaho

Location.- Water-stage recorder, lat. 44°25', long. 111°23', in SE¼ sec. 28, T. 13 N., R. 43 E., half a mile upstream from mouth and 1 mile southwest of Island Park.

Records available.- May 1935 to September 1939.

Extremes.- Previously unpublished figures of maximum and minimum daily discharge for water years 1934-35 to 1938-39 are given in the following table.

Water year	Maximum			Minimum		
	Date	Discharge (sec.-ft.)	Gage height (feet)	Date	Discharge (sec.-ft.)	Gage height (feet)
*1934-35	May 7	276	1.00	Sept. 24, 26-30	150	0.57
1935-36	Apr. 26	461	.89	Oct. 30 to Nov. 2, Dec. 1-31	146	.56
1936-37	May 5	368	1.05	Sept. 25-29	150	.66
1937-38	Apr. 30	638	1.39	Jan. 5	150	-
1938-39	May 4	430	1.16	Feb. 10	177	.68

*For period May 7 to Sept. 30.

1935-39: Maximum daily discharge, 638 second-feet Apr. 30, 1938 (gage height, 1.39 feet); minimum daily discharge, 146 second-feet Oct. 30 to Nov. 2, Dec. 1-31, 1935 (gage height, 0.56 feet).

Remarks.- Records fair. Gage-height record and results of 46 discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, 1935-39

1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	220	162	162	162
2								-	215	162	162	162
3								-	210	167	158	162
4								-	200	158	158	162
5								-	191	158	158	162
6								-	200	162	158	162
7								*276	196	162	158	156
8								-	200	162	158	154
9								-	205	162	158	162
10								-	196	158	162	162
11								-	191	158	162	158
12								-	196	158	162	158
13								-	191	158	162	156
14								-	186	158	162	158
15								241	186	158	167	†158
16								252	181	158	162	†158
17								257	176	162	162	†158
18								268	176	162	167	†158
19								262	†175	162	158	†158
20								268	†173	162	162	†158
21								268	172	162	167	158
22								257	176	162	162	158
23								268	181	162	162	162
24								262	176	162	162	150
25								246	167	162	162	154
26								246	162	162	167	150
27								241	167	162	162	150
28								236	162	158	162	150
29								220	167	158	158	150
30								220	167	162	162	150
31								226	-	162	162	-

*Discharge measurement.
†Gage height missing; discharge estimated.

Discharge, in second-feet, of Buffalo River near Island Park, Idaho, 1935-39--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	150	146	146	-		-	154	320				
2	150	146	146	-		-	154	333				
3	154	150	146	-		-	154	308				
4	154	154	146	-		-	154	308				
5	154	154	*146	-		†154	154	314				
6	154	154	*146	-		-	154	314				
7	154	154	*146	-		-	154	308				
8	154	158	*146	-		-	154	246			†149	
9	154	154	*146	-		-	154	262				
10	154	154	*146	-		-	154	274				
11	154	154	*146	-		-	154	285				
12	158	154	*146	-		-	154	291				
13	158	154	*146	-		-	154	274				
14	162	154	*146	-		-	154	268				
15	162	154	*146	-		-	167	257				
16	158	154	*146	-		-	162	252				
17	158	154	*146	154		-	167	236				
18	158	154	*146	-		-	186	226				
19	158	154	*146	-		-	205	226				
20	158	154	*146	-		-	226	226				
21	154	154	146	154		154	268	215		†167		
22	158	154	146	-		*154	378	205	†172			
23	158	154	146	-		154	371	200				
24	154	154	146	-		154	371	196				†159
25	154	154	146	-		154	433	191				
26	154	154	146	-		154	461	181				
27	154	154	146	-		154	384	181				
28	154	154	146	-		154	333	176				
29	154	154	146	-		154	339	176				
30	146	154	146	-		154	320	176				
31	146	-	146	-		154	-	176				

*Gage height missing; discharge estimated.
†Discharge measurement.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			172	-		-		180	*198	177	167	155
2			172	-		-		220	*196	180	164	157
3		*170	172	-		-		260	*193	180	164	155
4			172	-		-	*157	330	*190	180	164	155
5			172	-		-		368	*187	182	164	155
6		170	170	-		-		310	*184	180	164	155
7		170	170	-		-		330	182	174	164	154
8		170	167	-		-	157	304	182	174	164	154
9		170	167	-		-	*157	265	185	177	164	154
10		170	167	-		-	*157	278	195	177	164	154
11		167	167	-		-		260	195	177	164	154
12		167	167	-		-		240	225	177	164	154
13		167	167	-		-	*160	240	225	177	162	154
14		167	167	-		-		250	202	177	162	152
15		170	167	-		-	162	250	198	177	162	152
16		170	167	-		-	162	250	192	174	160	154
17		170	172	-		-	162	250	192	174	160	154
18		172	172	-		-	162	250	189	174	160	154
19		172	172	-		-	170	245	185	174	160	154
20		172	172	-		-	167	240	185	177	160	154
21		172	172	162		-	170	225	182	174	160	154
22		172	172	-		162	170	225	182	177	160	152
23		172	172	-		-	167	225	180	180	157	154
24		172	172	-		-	167	220	180	180	157	152
25		172	172	-		-	167	*217	180	177	157	150
26		172	172	-		†157	177	*214	180	174	157	150
27		172	172	162		-	180	*212	180	172	157	150
28		172	172	-		-	182	*209	180	170	160	150
29		172	172	-		-	177	*206	177	167	160	150
30		172	172	-		-	172	*204	180	167	160	154
31		-	172	-		-	-	*201	-	170	160	-

*Gage height missing; discharge estimated.
†Discharge measurement.

Discharge, in second-feet, of Buffalo River near Island, Park, Idaho, 1935-39--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	154	157			155	155	157	473	250	195	198	189
2	154	157		*150	155	155	157	375	245	202	198	192
3	154	157			155	155	157	*370	240	202	195	192
4	154	157			155	155	157	*370	235	198	195	192
5	154	157	*154	150	154	155	157	*340	235	195	192	195
6	154	157			154	155	157	*310	220	195	192	192
7	154	157			154	155	157	284	220	195	192	189
8	155	157			154	155	157	291	225	198	195	189
9	155	157	157		154	157	162	291	215	195	195	189
10	155	157	160	*150	154	154	162	345	215	195	195	189
11	160	157	162		154	154	162	345	212	195	195	192
12	157	157	162		154	155	162	345	205	195	195	192
13	155	157	162		154	157	164	338	208	195	195	192
14	155	157	162	155	154	157	164	382	202	198	195	189
15	157	157	162	155	154	157	172	382	208	192	195	189
16	160	157	160	155	154	157	172	368	202	202	195	189
17	157	157	160	155	154	155	182	*360	195	202	195	189
18	155	157	160	154	154	155	195	*350	192	202	195	189
19	155	155	157	155	154	155	202	*340	195	202	192	189
20	157	154	*156	155	154	155	215	*330	195	198	192	189
21	155	154	155	155	154	155	215	*325	189	195	189	189
22	155	154	*158	157	154	155	215	*320	195	195	192	185
23	157	154	162	157	154	155	*220	*315	192	195	192	185
24	157	154	162	157	154	155	*225	*310	189	195	195	182
25	157	154	162	155	154	155	*235	*305	195	195	195	182
26	157	154	154	155	154	155	*250	*300	195	195	198	180
27	157	154	155	154	154	155	265	298	195	195	195	182
28	157	154	155	154	154	155	390	291	195	198	195	182
29	157	154	155	154	-	155	566	284	189	198	189	182
30	157	154	155	154	-	155	638	272	198	202	189	185
31	157	-	155	154	-	155	-	260	-	202	189	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	185	202	185	185			208	*409	235	198	192	195
2	185	*198	189	185			*209	*416	230	202	192	195
3	189	*195	189	*187	*180		*211	*423	220	205	192	192
4	189	192	189	189		*182	*212	430	125	202	189	192
5	189	185	189	192			*214	414	212	202	189	192
6	189	182	189	189			215	390	205	205	189	192
7	189	182	189	185	*177	182	215	352	212	202	189	185
8		182	*187	182			220	324	212	202	192	189
9		189	185	189			220	317	225	205	192	189
10		189	182	185	177		225	304	212	198	192	189
	189					*182						
11		182	182	*185			230	298	215	202	192	189
12		182	182	*186			225	291	225	202	192	189
13			182	*187			225	278	*224	202	195	189
14	189		182	*188	*179		245	265	*223	202	195	185
15	*189		182	*189		182	304	265	*222	198	192	185
		*182										
16	*190		182	189		180	324	265	*221	195	192	185
17	*191		182	189	180	*182	317	272	220	195	192	185
18	*192	182	182	185		*184	360	255	215	198	195	182
19	*193	182	185	185		*186	405	255	225	198	195	180
20	*194	182	185	185		*188	405	240	220	198	195	180
21	195	182	189	185	*180	*190	368	235	215	195	195	180
22	*194	182		182		*192	330	235	212	195	195	182
23	*193	182		*181			338	245	208	189	195	182
24	*192	182		*180			360	235	208	192	198	182
25	*191	182	*189	178			*367	230	205	192	198	182
26	*190	*181		178	*182		*374	220	202	192	198	182
27	189	*181		178	*182	*192	*381	220	198	189	198	182
28	*189	180	189	180	182		*388	220	198	189	198	182
29	*192	182	189	180	—		*395	220	198	189	198	182
30	*195	182	189	180	—		*402	220	198	189	195	182
31	*198	-	185	182	—		-	220	-	192	195	-

*Gage height missing; discharge estimated.

Discharge, in second-feet, of Buffalo River near Island Park, Idaho, 1935-39--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 1935	-	-	-	-	-
May 15-31	4,238	268	220	249	8,410
June	5,561	220	162	185	11,030
July	4,983	167	158	161	9,880
August	5,006	167	158	161	9,930
September	4,720	162	150	157	9,360
The period	-	-	-	-	48,610
October 1935	4,802	162	146	155	9,520
November	4,604	158	146	153	9,130
December	4,526	146	146	146	8,980
Calendar year	-	-	-	-	-
January	4,712	-	-	*152	9,350
February	4,466	-	-	*154	8,860
March	4,774	-	-	*154	9,470
April 1936	6,927	461	154	231	13,740
May	7,601	333	176	245	15,080
June	5,220	-	-	*174	10,350
July	5,177	-	-	*167	10,270
August	4,960	-	-	*160	9,840
September	4,740	-	-	*158	9,400
Water year 1935-36	62,509	-	-	171	124,000
October 1936	5,115	-	-	*165	10,150
November	5,114	172	167	170	10,140
December	5,283	172	167	170	10,480
Calendar year 1936	64,089	-	-	175	127,100
January 1937	5,022	-	-	*162	9,960
February	4,480	-	-	*160	8,890
March	4,960	-	-	*160	9,840
April	4,924	182	-	164	9,770
May	7,678	368	180	248	15,230
June	5,681	225	177	189	11,270
July	5,447	182	167	176	10,800
August	5,002	167	157	161	9,920
September	4,600	157	150	153	9,120
Water year 1936-37	63,306	368	150	173	125,600
October 1937	4,834	160	154	156	9,590
November	4,675	157	154	156	9,270
December	4,880	162	154	157	9,680
Calendar year 1937	62,183	368	150	170	123,300
January 1938	4,740	157	150	153	9,400
February	4,316	155	154	154	8,560
March	4,813	157	154	155	9,550
April	6,589	638	157	220	13,070
May	10,269	473	260	331	20,370
June	6,246	250	189	208	12,390
July	6,116	202	192	197	12,130
August	6,009	198	189	194	11,920
September	5,641	195	180	188	11,190
Water year 1937-38	69,128	638	150	189	137,100
October 1938	5,905	198	185	190	11,710
November	5,532	202	180	184	10,970
December	5,774	189	182	186	11,450
Calendar year 1938	71,950	638	150	197	142,700
January 1939	5,720	192	178	185	11,350
February	5,025	182	177	179	9,970
March	5,760	192	180	186	11,420
April	8,892	405	208	296	17,640
May	8,963	430	220	289	17,780
June	6,430	235	198	214	12,750
July	6,114	205	189	197	12,130
August	6,006	198	189	194	11,910
September	5,577	195	180	186	11,060
Water year 1938-39	75,703	430	177	207	150,100

*Estimated.

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 1939. 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 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	150	193	177	58
2								0	154	193	156	57
3								0	152	18[illegible]	153	58
4								0	162	14[illegible]	150	57
5								0	164	18[illegible]	150	56
6								0	136	181	140	56
7								0	148	18[illegible]	138	56
8								0	152	18[illegible]	128	61
9								0	150	18[illegible]	121	62
10								0	152	18[illegible]	121	52
11								0	149	18[illegible]	105	45
12								0	140	18[illegible]	105	45
13								0	166	185	104	38
14								0	165	19[illegible]	104	25
15								0	156	19[illegible]	122	25
16								0	161	18[illegible]	117	32
17								0	168	18[illegible]	117	31
18								0	160	19[illegible]	100	32
19								0	140	19[illegible]	100	31
20								0	149	19[illegible]	92	36
21								0	46	19[illegible]	92	35
22								0	42	19[illegible]	79	30
23								0	52	19[illegible]	79	29
24								30	155	19[illegible]	80	29
25								36	165	19[illegible]	80	29
26								69	176	19[illegible]	83	29
27								77	175	19[illegible]	83	29
28								92	178	19[illegible]	82	24
29								116	187	19[illegible]	82	24
30								126	189	19[illegible]	82	23
31								143	-	19[illegible]	82	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	689	143	0	22.2	1,370
June	4,429	189	42	148	8,780
July	5,798	195	149	187	11,500
August	3,404	177	79	110	6,750
September	1,193	62	23	39.8	2,370
The period	-	-	-	-	30,770

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 and May 1918 to September 1939. August 1902 to December 1903, at Wilson's sawmill, 3 miles upstream.

Average discharge.- 21 years (1918-39), 735 second-feet.

Extremes.- Maximum daily discharge observed during year, 2,670 second-feet May 17 (gage height, 3.12 feet); minimum daily discharge, 378 second-feet Feb. 24-28.
1904-9, 1918-39: 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. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	537	697	*520	475	*420	*380	561	2,510	2,190	1,080	513	505
2	569	628	521	460	*420	*390	578	2,540	2,070	882	490	475
3	569	628	521	475	*420	*390	644	2,520	1,570	751	490	475
4	537	662	521	475	*420	*390	733	2,430	1,540	751	482	475
5	529	662	513	475	*420	*390	751	2,170	1,710	706	482	475
6	537	561	505	475	*420	*400	644	1,880	1,710	715	475	475
7	569	561	505	430	*420	*410	628	1,880	1,460	679	490	475
8	553	561	505	*430	*420	*420	610	1,800	1,130	653	490	490
9	653	561	498	430	417	*424	610	1,860	1,620	628	490	490
10	619	561	*480	*440	417	*424	610	1,920	2,040	594	498	482
11	619	561	*475	*450	*417	424	610	1,860	1,540	594	505	475
12	561	513	*450	*450	*417	438	610	1,860	1,460	585	505	537
13	537	498	*440	*455	*417	438	679	1,920	1,250	561	490	537
14	537	498	*460	*455	*417	438	679	1,920	1,300	553	475	537
15	760	521	*470	460	*417	438	820	2,070	1,280	545	468	553
16	688	521	*475	460	*400	438	840	2,480	1,280	521	460	537
17	653	521	*475	460	*400	424	840	2,670	1,170	513	460	490
18	602	538	*475	430	*400	424	982	2,620	1,350	513	468	490
19	585	*525	*475	445	*400	452	1,170	2,360	1,430	498	475	482
20	569	*520	*475	445	*400	452	1,300	1,990	1,670	490	475	460
21	569	*500	475	445	*400	468	1,390	1,690	1,750	482	475	475
22	553	*490	475	430	*380	482	1,530	1,690	1,420	475	475	475
23	521	*480	475	445	*380	529	1,470	1,690	1,370	468	475	498
24	521	*480	475	*430	378	545	1,570	1,530	1,210	468	475	475
25	521	*500	475	430	*378	545	1,510	1,390	1,140	460	475	490
26	521	*510	417	430	*378	561	1,460	1,420	1,070	460	475	482
27	521	*520	445	*430	*378	577	1,500	1,440	994	460	475	475
28	521	*520	490	*430	*378	594	1,680	1,580	994	460	475	475
29	521	*520	490	*430	-	610	2,140	1,870	994	475	490	475
30	521	*520	490	*430	-	594	2,240	2,200	1,110	460	475	475
31	670	-	475	*420	-	561	-	2,560	-	505	505	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	17,743	760	521	572	35,190
November	16,338	697	480	545	32,410
December	14,941	521	440	482	29,640
Calendar year 1938	316,590	3,050	341	867	627,900
January	13,825	475	420	446	27,420
February	11,329	420	378	405	22,470
March	14,450	610	380	466	28,660
April	31,389	2,240	561	1,046	62,260
May	62,320	2,670	1,390	2,010	123,600
June	42,822	2,190	994	1,427	84,940
July	17,985	1,080	460	580	35,670
August	14,951	513	460	482	29,650
September	14,710	553	460	490	29,180
Water year 1938-39	272,803	2,670	378	747	541,100

*Stage-discharge relation affected by ice; discharge computed on basis of weather records, observer's notes, and records for periods preceding and following those affected by ice.

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 1939. Records of discharge of canals computed from daily readings of staff gages and combined to show total diverted flow.

Records good except those for May and June, which are fair.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								103	849	673	515	391
2								166	876	214	480	387
3								230	802	553	488	383
4								315	815	547	488	379
5								295	815	540	484	376
6								311	818	592	476	377
7								345	818	589	480	381
8								362	865	591	478	384
9								163	891	577	479	380
10								206	393	589	463	376
11								304	390	611	465	370
12								261	771	609	465	376
13								297	829	593	455	380
14								233	824	615	452	357
15								241	859	610	427	336
16								331	855	581	428	332
17								340	811	606	426	308
18								354	712	626	419	307
19								354	619	620	421	315
20								642	619	533	422	314
21								801	614	535	422	335
22								792	627	527	398	357
23								771	688	520	386	354
24								790	716	521	383	359
25								806	738	523	391	356
26								831	730	514	388	374
27								831	709	528	386	374
28								859	757	522	389	357
29								896	640	537	395	341
30								909	646	536	380	341
31								825	-	540	386	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	14,964	909	103	483	29,680
June	22,096	891	390	737	43,850
July	17,272	673	214	557	34,260
August	13,515	515	380	436	26,810
September	10,757	391	307	359	21,340
The period	-	-	-	-	155,900

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.

Records available.- April 1920 to September 1939 (irrigation seasons only).

Extremes.- Maximum discharge during period, 2,800 second-feet May 1 (gage height, 4.50 feet); minimum, 23 second-feet July 16-17 (gage height, 0.97 feet).
1920-39: Maximum discharge, 6,380 second-feet June 27, 1927 (gage height, 6.60 feet); minimum, 9 second-feet Aug. 7, 1923 (gage height, 1.01 feet).

Remarks.- Records good. Station is below all diversions for irrigation from Fall River.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								2,800	1,920	532	87	189
2								2,770	1,460	748	82	170
3								2,650	1,080	465	82	162
4								2,580	850	319	72	162
5								2,470	894	305	75	166
6								2,080	921	290	76	159
7								1,920	790	212	87	162
8								1,740	594	142	96	185
9								1,850	833	111	87	177
10								1,990	1,680	85	103	166
11								2,050	1,310	67	122	185
12								1,990	1,070	52	122	224
13								1,920	765	46	117	361
14								1,950	638	35	108	404
15								2,180	594	24	114	319
16								2,310	506	23	111	305
17								2,600	483	23	103	276
18								2,450	715	32	108	262
19								2,150	975	33	122	258
20								1,710	1,240	29	114	240
21								1,340	1,250	27	111	196
22								1,260	1,070	25	125	200
23								1,170	939	27	152	216
24								1,070	807	28	152	208
25								1,010	676	28	155	208
26								1,000	513	27	155	192
27								1,000	426	27	159	189
28								1,060	377	29	155	216
29								1,170	388	38	173	236
30								1,470	477	40	159	212
31								1,890	-	70	185	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	57,600	2,800	1,000	1,858	114,200
June	26,241	1,920	377	875	52,050
July	3,939	748	23	127	7,810
August	3,669	185	72	118	7,280
September	6,605	404	159	220	13,100
The period	-	-	-	-	194,400

Teton River near Driggs, Idaho

Location.- Staff gage, lat. 43°45', long. 111°12', in SE¼ sec. 13, T. 5 N., R. 44 E., 4 miles downstream from Teton Creek and 5 miles northwest of Driggs.

Records available.- May 1935 to September 1939 (except winters).

Extremes.- The maximum and the minimum discharge observed for the water years 1934-35 to 1938-39 are given in the following table:

Water year	Maximum			Minimum		
	Date	Discharge (sec.-ft.)	Gage height (feet)	Date	Discharge (sec.-ft.)	Gage height (feet)
1934-35	June 15	768	2.20	May 5	165	1.34
1935-36	2	1,480	3.83	Nov. 19, 24	132	1.60
1936-37	Apr. 16	770	2.58	Nov. 27	163	1.64
1937-38	July 7	1,440	3.66	Apr. 2	141	1.10
1938-39	Apr. 4	753	2.38	Mar. 17	186	1.07

1935-39: Maximum discharge observed, 1,480 second-feet June 2, 1936 (gage height. 3.83 feet); minimum observed, 132 second-feet Nov. 19, 24, 1935; minimum gage height observed, 1.07 feet Mar. 17, 1939.

Remarks.- Records good except those for August to November 1938, which are fair. Gage-height record and results of 36 discharge measurements furnished by Bureau of Reclamation.

Discharge, in second-feet, 1935-39

1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								*200	252	504	430	332
2								207	252	504	402	346
3								218	241	496	402	346
4								176	230	474	373	346
5								165	241	474	373	332
6								252	241	452	366	332
7								252	252	452	366	332
8								207	288	47[illegible]	353	332
9								186	312	452	339	319
10								186	423	438	353	312
11								186	511	387	332	300
12								196	511	380	319	326
13								207	619	408	312	300
14								196	751	402	312	288
15								196	768	394	294	288
16								186	619	36[illegible]	294	276
17								196	557	40[illegible]	306	264
18								252	452	39[illegible]	366	264
19								252	452	39[illegible]	380	264
20								224	526	38[illegible]	373	241
21								224	572	40[illegible]	360	241
22								224	526	45[illegible]	353	241
23								207	619	38[illegible]	380	294
24								230	603	38[illegible]	402	319
25								207	511	38[illegible]	373	288
26								202	519	39[illegible]	373	258
27								207	549	38[illegible]	353	246
28								218	557	37[illegible]	353	252
29								241	557	33[illegible]	339	258
30								218	557	33[illegible]	332	246
31								252	-	38[illegible]	332	-

*Estimated.

Discharge, in second-feet, of Teton River near Driggs, Idaho, 1935-39--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	235	*202					*150	481	1,260	530	471	348
2	235	202					170	456	1,480	525	520	344
3	235	*216					156	433	1,080	520	486	352
4	241	230					141	410	914	515	471	344
5	246	*210					141	505	902	505	456	348
6	241	191					141	640	858	500	471	348
7	235	207					146	505	868	481	452	340
8	230	207					166	405	885	495	423	325
9	224	†207					168	401	885	495	414	328
10	224	†207					170	401	775	490	438	318
11	191	†207					186	456	704	495	461	307
12	213	†207					203	505	758	500	452	293
13	235	†207					314	556	819	582	466	289
14	224	†207					371	609	931	541	476	289
15	218	†207					456	662	948	500	466	296
16	246	†207					582	715	908	471	428	286
17	276	207					598	770	852	481	403	282
18	246	170					691	824	830	471	414	286
19	224	132					994	858	770	461	392	282
20	224	202					1,110	885	720	456	380	*279
21	218	191					948	942	667	452	371	*276
22	224	191					736	841	640	442	363	*273
23	230	155					683	736	614	428	359	*269
24	246	132					630	731	598	456	355	*265
25	270	155					678	836	630	471	375	262
26	260	†160					423	819	625	442	380	262
27	260	†160					419	874	536	428	380	262
28	250	†160					414	994	536	428	359	256
29	250	†160					456	948	541	433	340	252
30	240	†160					505	994	536	452	340	249
31	210	-					-	1,090	-	452	348	-

*Missing gage height; discharge estimated.
†Stage-discharge relation affected by ice; discharge estimated.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	246	215				-	192	259	269	363	392	249
2	246	215				-	233	265	269	359	325	246
3	249	212				-	212	240	262	352	328	276
4	249	209				-	197	233	279	348	310	265
5	252	197				-	197	236	269	340	314	259
6	252	200				-	200	230	276	438	310	256
7	256	197				-	192	230	272	414	282	249
8	252	195				-	195	240	279	510	286	276
9	246	184				-	227	236	296	490	276	276
10	246	178				-	269	230	310	428	269	265
11	246	186				-	296	230	289	397	269	249
12	246	184				-	272	230	363	384	265	249
13	243	184				-	296	224	355	566	265	243
14	240	184				-	582	221	328	530	265	240
15	240	186				-	609	227	318	500	259	233
16	233	195				-	770	227	507	438	262	236
17	230	197				186	603	259	318	405	265	233
18	233	195				181	667	325	340	388	259	233
19	259	186				189	635	325	340	384	269	233
20	252	184				184	481	289	348	375	276	252
21	243	186				184	753	227	414	352	269	256
22	236	186				178	438	218	520	363	256	265
23	236	184				181	318	212	536	380	249	276
24	221	184				178	303	215	466	380	252	252
25	215	176				176	293	246	405	355	252	246
26	209	173				181	405	282	401	359	246	246
27	209	163				181	355	276	348	344	259	246
28	206	173				178	321	384	352	332	249	240
29	203	*173				173	276	392	355	325	252	243
30	206	*173				173	246	293	363	352	259	243
31	212	-				170	-	265	-	367	249	-

*Missing gage height; discharge estimated.

Discharge, in second-feet, of Teton River near Driggs, Idaho, 1935-39--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	243	209	189			-	160	510	1,030	1,060	495	500
2	236	209	192			-	141	500	936	1,000	495	428
3	236	206	178			-	166	414	954	1,060	486	414
4	265	203	160			-	168	380	959	1,070	481	405
5	293	200	-			-	163	388	1,060	1,060	461	388
6	286	209	-			-	176	423	988	1,220	433	375
7	262	209	-			-	184	388	994	1,440	423	375
8	252	203	-			-	195	388	1,010	1,170	438	367
9	236	200	-			158	224	307	896	1,130	461	392
10	233	200	-			166	259	348	753	1,120	447	384
11	236	197	-			163	230	332	662	1,070	438	375
12	233	192	-			168	293	371	640	1,000	476	367
13	236	189	-			178	363	355	667	914	433	363
14	230	200	-			206	419	371	699	824	447	371
15	348	212	-			186	572	384	662	802	442	359
16	332	212	-			178	694	397	683	775	433	384
17	307	209	-			286	775	614	736	742	428	332
18	246	206	-			206	1,120	561	868	683	423	328
19	233	218	-			215	*950	476	715	683	414	318
20	236	348	-			215	775	461	715	656	410	279
21	227	355	-			221	561	392	786	635	405	272
22	230	328	-			227	405	384	942	609	401	289
23	227	252	-			197	405	397	1,090	572	401	307
24	227	195	-			203	388	405	948	603	392	300
25	221	186	-			186	414	452	863	588	392	318
26	224	192	-			170	428	603	874	577	405	296
27	218	195	-			166	388	770	988	561	401	293
28	212	184	-			168	367	908	936	561	401	286
29	209	168	-			178	352	1,000	971	536	419	282
30	209	176	-			170	371	1,060	1,010	515	500	289
31	209	-	-			158	-	1,040	-	505	515	-

*Missing gage height; discharge estimated.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	282	352				-	419	392	536	410	471	336
2	289	359				-	614	371	486	410	423	340
3	282	340				-	625	359	388	428	401	332
4	286	328				-	753	401	438	438	380	328
5	286	336				-	614	466	438	577	397	332
6	289	328				-	452	510	471	572	388	321
7	293	282				-	340	392	461	556	388	310
8	282	269				-	363	344	471	461	371	380
9	279	262				-	433	328	536	456	371	344
10	282	256				-	321	321	551	442	380	344
11	289	252				-	336	328	500	442	371	340
12	286	249				-	348	336	438	447	371	367
13	276	249				-	392	325	433	442	355	367
14	269	252				-	414	328	433	438	352	363
15	286	256				-	401	328	447	438	352	363
16	296	249				-	336	348	456	428	340	336
17	289	243				186	282	505	530	414	336	321
18	303	240				200	286	367	603	410	340	307
19	296	230				209	293	367	709	401	336	310
20	282	249				221	286	452	577	397	332	307
21	272	-				236	282	410	572	338	325	314
22	265	-				249	289	401	556	338	321	328
23	256	-				259	289	438	556	338	310	340
24	249	-				272	328	401	536	338	328	321
25	249	-				296	332	410	471	330	321	310
26	246	-				321	289	401	456	375	325	307
27	246	-				363	289	392	466	397	340	307
28	243	-				414	293	384	405	397	336	296
29	243	-				428	300	39[illegible]	447	371	344	296
30	314	-				442	401	442	438	401	336	286
31	332	-				419	-	461	-	476	340	-

Discharge, in second-feet, of Teton River near Driggs, Idaho, 1935-39--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 1935	6,570	252	165	212	13,030
June	14,068	768	230	469	27,900
July	12,848	504	339	414	25,480
August	10,995	430	294	355	21,810
September	8,783	345	241	293	17,420
The period	-	-	-	-	105,600
October 1935	7,301	276	191	236	14,480
November	5,656	230	132	189	11,220
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January 1936	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	13,146	1,110	141	438	26,080
May	21,282	1,090	401	687	42,210
June	24,070	1,480	536	802	47,720
July	14,898	582	428	481	29,550
August	12,910	520	340	416	25,610
September	8,910	352	249	297	17,670
Water year	-	-	-	-	-
October 1936	7,312	259	203	236	14,500
November	5,654	215	163	188	11,210
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January 1937	-	-	-	-	-
February	-	-	-	-	-
March 17-31	2,693	189	170	180	5,340
April	11,033	770	192	368	21,880
May	7,966	392	212	257	15,800
June	10,247	536	262	342	20,320
July	12,318	566	325	397	24,430
August	8,538	392	246	275	16,940
September	7,531	276	233	251	14,940
Water year	-	-	-	-	-
October 1937	7,592	348	209	245	15,060
November	6,462	355	168	215	12,820
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January 1938	-	-	-	-	-
February	-	-	-	-	-
March 8-31	4,367	286	158	190	8,660
April	12,106	1,120	141	40[illegible]	24,010
May	15,779	1,060	307	50[illegible]	31,300
June	26,035	1,090	640	86[illegible]	51,640
July	25,751	1,430	505	83[illegible]	51,080
August	13,596	515	392	43[illegible]	26,970
September	10,436	500	272	34[illegible]	20,700
Water year	-	-	-	-	-
October 1938	8,637	332	243	27[illegible]	17,130
November 1-20	5,581	359	230	27[illegible]	11,070
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January 1939	-	-	-	-	-
February	-	-	-	-	-
March 17-31	4,515	428	186	30[illegible]	8,960
April	11,400	753	282	38	22,610
May	12,100	510	321	39	24,000
June	14,805	709	388	49[illegible]	29,370
July	13,255	577	367	42[illegible]	26,290
August	11,081	471	310	35[illegible]	21,980
September	9,853	380	286	32[illegible]	19,540
Water year	-	-	-	-	-

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 above 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 1939.

Extremes.- Maximum discharge during year, 2,270 second-feet May 18 (gage height, 4.83 feet); minimum not determined, occurred during ice period.
1903-09, 1930-39: Maximum discharge, 7,820 second-feet June 5, 1909 (gage height, 6.90 feet, former site and datum); minimum, 88 second-feet March 12, 1906 (gage height, 1.00 foot, former site and datum).

Remarks.- Records excellent except those for periods of ice effect, Nov. 22 to Dec. 2, Dec. 12-21, 27-30, Jan. 8-14, 24-30, Feb. 2 to Mar. 3, which were computed on basis of weather records and records for preceding and following periods, and are fair. Flow affected by diversions from streams in Teton Basin 20 miles upstream and by flow diverted from Henrys Fork through Cross Cut canal into Teton (7,000 acre-feet diverted into river during period July 19 to Sept. 12).

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	573	705	445	403	395	370	1,330	1,750	1,610	1,110	896	630
2	568	711	445	412		370	1,440	1,760	1,360	1,090	822	619
3	568	630	443	417		370	1,330	1,800	1,180	1,030	774	614
4	548	588	386	408		370	1,590	2,000	1,100	1,020	774	604
5	563	619	448	395		370	1,430	2,170	1,180	1,060	689	598
6	568	588	443	408		365	864	2,040	1,210	1,110	667	609
7	558	543	443	386		365	810	1,740	1,080	1,100	656	624
8	558	538	448			370	728	1,570	982	1,020	662	651
9	598	538	466			378	762	1,590	1,120	969	645	667
10	593	533	489			391	711	1,600	1,240	943	651	614
11	583	518	443	395		403	651	1,670	1,100	929	645	598
12	558	466	410			399	656	1,650	1,040	929	635	619
13	543	504	400			399	744	1,600	1,010	903	640	651
14	533	494	410			395	804	1,590	1,040	877	624	624
15	578	484	420	408	380	386	798	1,680	1,090	858	667	614
16	651	484	420	421		382	798	1,920	1,120	840	640	593
17	662	489	420	430		395	728	2,170	1,110	80[illegible]	645	573
18	656	484	420	417		425	716	2,210	1,220	77[illegible]	645	563
19	593	475	425	395		457	750	1,990	1,300	768	630	543
20	563	480	430	378		484	828	1,700	1,280	76[illegible]	630	538
21	553	425	434	391		528	896	1,440	1,310	76[illegible]	635	538
22	538	420	434	365		614	995	1,320	1,340	76[illegible]	635	538
23	533	430	430	399		792	1,040	1,290	1,400	76[illegible]	624	558
24	528	440	412			1,050	1,060	1,200	1,360	76[illegible]	630	563
25	518	440	399			1,150	1,080	1,060	1,240	76[illegible]	645	548
26	509	445	391	390		1,220	995	1,010	1,180	76[illegible]	651	548
27	509	445	395			1,240	943	1,010	1,120	75[illegible]	662	543
28	509	445	395			1,210	1,050	1,070	1,110	75[illegible]	656	553
29	509	445	395			1,100	1,380	1,220	1,100	74[illegible]	656	518
30	509	445	395		-	1,050	1,650	1,470	1,110	80[illegible]	619	518
31	558	-	403	386	-	1,000	-	1,680	-	86[illegible]	624	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	17,388	662	509	561	34,490
November	15,251	711	420	508	30,250
December	13,137	386	489	424	26,060
Calendar year 1938	323,592	3,440	316	887	641,800
January	12,314	430	365	397	24,420
February	10,655	-	-	381	21,130
March	18,798	1,240	365	606	37,280
April	29,557	1,650	651	985	58,630
May	49,970	2,210	1,010	1,612	99,110
June	35,642	1,610	982	1,188	70,690
July	27,524	1,110	744	888	54,590
August	20,674	896	619	667	41,010
September	17,571	667	518	586	34,850
Water year 1938-39	268,481	2,210	-	736	532,500

Canyon Creek near Newdale, Idaho

Location.- Staff gage, lat. 43°48', 111°26', in sec. 6, T. 5 N., R. 43 E., 1,000 feet west of Pincock Hot Springs, 0.8 mile below Warm Creek and 10½ miles southeast of Newdale.

Records available.- March 1920 to July 1925 and November 1938 to June 1939 (discontinued).

Extremes.- Maximum discharge observed during period, 227 second-feet May 17, 18; maximum gage height observed, 2.40 feet May 17; minimum discharge observed, 5 second-feet Mar. 7-11, 14-16; minimum gage height observed, 0.66 foot Mar. 11.

1920-25, 1939: Maximum discharge observed, 457 second-feet May 21, 1925 (gage height, 4.70 feet, former site and datum); minimum, 2 second-feet Aug. 31, 1924 (gage height, 0.98 foot, former site and datum).

Remarks.- Records fair. No regulation. Gage read once daily. Power canal for Pincock Sawmill diverts about three-quarters of a mile upstream; water is returned to Canyon Creek above station.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

0.6	3.0	1.8	149
.9	23.0	2.1	188
1.2	70.5	2.4	227
1.5	110		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	*11	*11	9	*6	38	188	110	23		
2		-	*11	*10	*9	6	*50	201	105			
3		-	11	10	*9	*6	62	201	100			
4		-	*12	*10	9	6	*50	214	97			
5		-	12	*9	9	6	38	201	100			
6		-	*12	9	*9	*6	*33	188	96			
7		-	*11	9	*9	*5	*28	168	93			
8		-	11	*9	9	5	23	175	88			
9		-	*12	*10	*9	*5	*26	175	83			
10		-	12	*10	*9	*5	30	175	73			
11		-	*12	10	9	5	*34	188	70			
12		-	*11	*10	8	6	*39	188	68			
13		-	11	10	*8	*6	43	201	65			
14		-	*10	9	8	*5	*50	201	59			
15		-	10	10	*8	5	57	214	56			
16		-	*10	*10	*8	*5	*63	214	57			
17		14	10	10	*8	*6	69	227	53			
18		12	*10	*10	8	6	*74	227	46			
19		*13	10	*10	8	8	*79	201	43			
20		14	*10	*10	*8	*9	84	175	40			
21		*13	*10	10	*8	*11	*92	149	38			
22		12	10	*10	8	12	100	136	46			
23		*12	*10	*9	*8	*15	*98	136	26			
24		*11	10	9	*8	*17	97	130	35			
25		11	*10	*10	8	20	*101	116	40			
26		*11	*10	10	*8	*24	105	101	35			
27		11	10	*10	7	28	*124	100	33			
28		*11	*10	10	*7	*37	*143	97	30			
29		*11	10	*10	-	46	162	116	31			
30		11	*10	9	-	35	168	149	26			
31		-	11	*9	-	48	-	136	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November 17-30	167	14	11	11.9	331
December	330	12	10	10.6	655
Calendar year	-	-	-	-	-
January	302	11	9	9.7	599
February	233	9	7	8.3	462
March	410	48	5	13.2	813
April	2,160	168	23	72.0	4,280
May	5,288	227	97	171	10,490
June	1,842	110	26	61.4	3,650
July	-	-	-	-	-
August	-	-	-	-	-
September	-	-	-	-	-
The period	-	-	-	-	21,280

*Gage height missing; discharge interpolated.

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 1939. Records of discharge of canals computed from daily staff-gage readings and combined to show total diverted flow.

Records good except those for May and June, which are fair.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								288	1,340	1,090	853	635
2								292	1,260	1,090	816	633
3								338	1,210	1,090	768	614
4								388	1,170	1,090	750	614
5								414	1,110	1,070	707	594
6								582	1,290	1,080	657	612
7								593	1,290	1,040	642	631
8								601	1,280	973	692	633
9								630	1,270	945	655	648
10								591	1,220	924	660	646
11								608	1,180	935	643	610
12								681	1,130	957	639	609
13								711	1,080	826	627	587
14								784	1,120	862	627	560
15								853	1,160	847	664	530
16								892	1,160	777	631	501
17								1,110	1,190	788	650	494
18								1,340	1,120	778	650	472
19								1,370	1,030	800	636	473
20								1,290	929	787	624	465
21								1,290	910	774	603	456
22								1,240	882	760	641	457
23								1,220	869	817	594	459
24								1,270	859	799	612	455
25								1,250	908	793	625	449
26								1,230	928	787	624	444
27								1,260	1,000	684	640	442
28								1,280	1,060	751	664	442
29								1,340	1,060	744	669	442
30								1,400	1,080	806	621	441
31								1,420	-	851	630	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	28,556	1,420	288	921	56,640
June	33,095	1,340	859	1,103	65,640
July	27,341	1,090	684	882	54,230
August	20,514	853	594	662	40,690
September	16,048	648	441	535	31,830
The period	-	-	-	-	249,000

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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., about 2 miles upstream from mouth and 9 miles southwest of Blackfoot.

Records available.- July 1913 to September 1939.

Extremes.- Maximum discharge during year, 545 second-feet Apr. 18 (gage height, 5.76 feet); minimum, 1 second-foot at times.
1913-39: Maximum discharge, 868 second-feet May 21, 1921; no flow on many days.

Remarks.- Records good. None during period of ice effect, Nov. 24 to Mar. 23. Discharge interpolated June 8 and estimated by observer June 27-30. Flow regulated by Blackfoot Marsh Reservoir (capacity, 413,000 acre-feet). Diversions, for irrigation above station. Gage-height record furnished by Office of Indian Affairs.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	234				-	416	180	3	1	1	3
2	12	262				-	449	188	3	2	3	3
3	13	264				-	459	268	26	5	2	5
4	13	251				-	499	191	50	7	1	8
5	15	266				-	503	71	33	25	1	3
6	30	256				-	455	29	43	27	2	2
7	110	234				-	521	34	15	26	2	4
8	204	247				-	497	40	25	26	2	15
9	263	263				-	369	15	35	6	2	21
10	280	325				-	358	3	37	3	3	24
11	338	337				-	397	4	51	2	2	26
12	388	328				-	383	30	59	2	2	30
13	421	221				-	380	39	40	2	1	29
14	418	344				-	403	49	24	2	1	34
15	403	376				-	421	50	16	2	1	107
16	405	405				-	454	24	14	6	1	125
17	417	424				-	503	21	37	12	1	146
18	428	421				-	539	22	94	17	1	108
19	419	417				-	441	23	288	15	2	63
20	445	422				-	459	18	101	14	3	35
21	412	381				-	423	22	77	17	3	25
22	405	298				-	397	17	70	9	2	19
23	379	236				-	339	13	61	2	2	29
24	364	-				305	317	14	58	2	2	27
25	373	-				367	297	20	54	2	4	24
26	345	-				391	280	13	50	2	5	26
27	263	-				386	219	14	20	1	4	24
28	219	-				352	122	11	10	1	3	26
29	208	-				419	93	7	2	1	2	24
30	212	-				445	126	4	1	1	2	32
31	223	-				459	-	3	-	1	2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	8,435	445	10	272	16,730
November 1-23	7,212	424	221	314	14,300
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 24-31	3,124	459	305	390	6,200
April	11,519	539	93	384	22,850
May	1,437	268	3	46.4	2,850
June	1,397	288	1	46.6	2,770
July	241	27	1	7.77	478
August	65	5	1	2.10	129
September	1,045	146	2	34.8	2,070
Water year	-	-	-	-	-

MUD LAKE BASIN

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., about 2 miles north of first Owsley pump house, 2½ miles northeast of Terreton, and 14 miles southwest of Hamer; auxiliary staff gage at pump house. Zero of each gage is 4,775.33 feet above mean sea level.

Records available.- April 1921 to September 1939.

Extremes.- Maximum daily contents during year, 32,600 acre-feet May 1, 4 (gage height, 6.83 feet); minimum daily, 1,270 acre-feet Sept. 27 (gage height, -1.38 feet).

1921-39: 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 July 25 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 are of usable contents. Capacity table prepared from surveys made by Geological Survey, adjusted for changes in dikes. Water-stage recorder record furnished by watermaster for Mud Lake and staff-gage record by Owsley Canal Co.

Capacity table (gage height, in feet, and contents, in acre-feet)
(Prepared from surveys made by Geological Survey)

-4	0	0	3,410	4	16,070	8	42,020
-2	578	2	8,170	6	26,800		

Mean contents, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,370	4,100	8,280	12,600	16,300	20,100	25,800	32,600	20,300	7,740	3,430	1,820
2	2,350	*4,190	8,410	*12,700	16,400	*20,200	26,000	32,500	19,600	7,440	3,390	1,840
3	2,260	4,400	8,550	12,800	16,500	20,400	26,400	32,500	18,900	7,210	3,300	1,900
4	2,350	4,620	8,680	13,000	16,700	20,600	26,600	32,600	18,200	6,960	3,230	1,820
5	2,350	4,760	*8,820	13,100	16,800	20,800	27,100	32,500	17,500	6,880	3,200	1,680
6	2,370	4,890	8,950	13,300	16,900	20,900	26,900	32,500	16,900	6,770	3,140	1,610
7	2,370	5,030	9,090	*13,400	17,100	21,100	27,300	32,400	16,300	6,640	3,140	1,760
8	2,270	5,160	9,220	13,500	17,200	21,300	27,600	32,300	15,600	6,490	3,030	1,690
9	2,380	5,300	9,360	13,600	17,400	21,500	28,000	32,100	15,200	6,330	3,030	1,680
10	2,430	5,430	9,490	13,700	17,500	21,700	28,000	31,900	14,700	6,120	2,870	1,580
11	2,200	5,570	9,630	*13,800	17,600	21,900	28,300	31,600	14,200	5,900	2,770	1,480
12	2,300	5,700	9,760	14,000	17,800	22,000	28,500	30,900	13,600	5,560	2,670	1,580
13	2,150	5,840	9,890	14,300	17,900	22,200	28,800	30,300	13,000	5,390	2,590	1,570
14	2,340	5,970	*10,000	14,500	18,000	22,400	29,400	29,800	12,800	5,160	2,480	1,570
15	2,300	6,110	10,200	14,800	18,200	*22,600	29,600	29,400	12,200	4,920	2,450	1,610
16	2,580	6,250	10,300	*15,000	18,300	22,800	29,900	28,900	11,800	4,640	2,380	1,590
17	2,400	6,380	10,400	*15,300	18,400	22,900	29,900	28,300	11,600	4,600	2,370	1,580
18	2,400	6,520	10,600	15,400	18,600	23,100	30,300	27,900	11,500	4,410	2,340	1,570
19	2,480	6,650	10,700	15,400	18,700	23,300	30,700	27,200	11,300	4,250	2,450	1,550
20	2,580	6,790	10,800	15,500	18,800	23,400	30,800	26,700	11,100	4,130	2,370	1,530
21	2,740	6,920	11,000	15,500	19,000	*23,600	31,100	26,200	11,000	4,090	2,320	1,500
22	2,870	7,060	11,100	15,600	19,100	23,800	31,300	25,600	10,800	3,970	2,290	1,480
23	3,010	7,190	11,300	15,600	19,300	24,000	31,400	25,200	10,300	3,890	2,240	1,440
24	3,160	7,330	11,400	15,700	19,400	24,100	31,600	24,800	10,100	3,780	2,180	1,430
25	3,340	7,470	11,600	15,700	19,500	24,300	31,800	24,300	9,700	3,680	2,140	1,430
26	3,520	7,600	11,700	15,800	19,700	24,500	31,900	23,900	9,390	3,680	2,100	1,380
27	3,650	7,740	11,800	15,800	19,800	24,700	32,000	23,400	9,020	3,630	2,020	1,270
28	3,720	7,870	12,000	15,900	19,900	24,800	32,100	22,900	8,720	3,550	1,970	1,370
29	3,810	8,010	12,100	15,900	-	25,000	32,300	22,300	8,360	3,540	1,960	1,330
30	3,910	8,140	12,300	*16,000	-	*25,200	32,400	21,600	7,980	3,500	1,940	1,300
31	4,000	-	12,400	16,100	-	25,500	-	20,900	-	3,430	1,900	-

*Computed from staff-gage reading.

Note.- Contents Oct. 29 to Mar. 29 interpolated between those determined by occasional staff-gage readings; contents for June 17-21 interpolated.

Monthly gage height and contents, water year October 1938 to September 1939

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	-0.68	2,270	-
Oct. 31	-	4,000	+1,730
Nov. 30	-	8,140	+4,140
Dec. 31	-	12,400	+4,260
Calendar year 1938	-	-	+7,190
Jan. 31	-	16,100	+3,700
Feb. 28	-	19,900	+3,800
Mar. 31	5.80	25,500	+5,600
Apr. 30	6.80	32,400	+6,900
May 31	4.98	20,900	-11,500
June 30	1.94	7,980	-12,920
July 31	.01	3,430	-4,550
Aug. 31	-.93	1,900	-1,530
Sept. 30	-1.35	1,300	-600
Water year 1938-39	-	-	-970

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 county-road bridge at Eighteenmile Shearing Corral, 7 miles south of Kilgore and 18½ miles northeast of Dubois.

Drainage area.- 210 square miles.

Records available.- May 1937 to September 1939.

Extremes.- Maximum discharge recorded during year, 418 second-feet May 2; maximum gage height recorded, 3.78 feet (ice-affected) Mar. 28; minimum discharge recorded, 4.8 second-feet Aug. 27 (gage height, 1.52 feet).

1937-39: Maximum discharge, 1,200 second-feet probably on May 2, 1938 (gage height, 4.70 feet, former datum, from floodmark), from rating curve extended above 600 second-feet; minimum, 0.9 second-foot Aug. 25, 1937 (gage height, 0.07 foot, former datum).

Remarks.- Records good except those for Oct. 25-31, which were computed on basis of weather records and records for nearby stations and are fair. No regulation. Diversions above station for irrigation and stock water.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16						-	297	41	24	26	5.2
2	17						-	365	38	20	22	5.5
3	17						-	267	38	20	20	5.2
4	18						-	218	41	16	18	7.6
5	17						*273	213	38	19	17	7.0
6	17	†24					-	218	38	20	20	7.6
7	19						-	200	38	33	19	7.0
8	20						-	168	37	37	17	7.0
9	28						-	152	36	32	16	7.6
10	31						-	147	37	28	16	7.6
11	24						-	143	36	24	17	7.6
12	20						-	129	36	24	17	7.6
13	20						-	120	36	22	16	11
14	19						-	116	34	20	16	20
15	26						-	110	32	23	16	20
16	38						-	106	31	23	15	14
17	36						-	114	36	23	14	13
18	30						-	147	51	24	14	14
19	28						-	150	52	24	13	11
20	30						190	140	56	24	12	10
21	30						183	112	62	22	11	10
22	28						183	99	57	22	9.8	9.8
23	26						198	93	46	22	9.2	11
24	24						233	93	41	20	8.7	12
25	22						281	83	37	22	10	11
26	20						218	73	36	22	6.5	11
27	20						163	64	34	20	5.1	11
28	19						145	59	31	20	6.2	16
29	18						143	54	28	20	5.8	12
30	19						161	48	26	24	5.8	13
31	20						-	14	-	33	5.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	717	38	16	23.1	1,420
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 20-30	2,098	281	143	191	4,160
May	4,342	365	44	140	8,610
June	1,180	62	26	39.3	2,340
July	727	37	16	23.5	1,440
August	424.9	26	5.1	13.7	843
September	316.2	20	5.8	10.5	627
Water year					

*Discharge determined from staff-gage reading.
†Discharge measurement.

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 on Camas and half a mile upstream from Beaver Creek. Prior to Sept. 15, 1939, at site 250 feet upstream, datum 2.00 feet higher.

Records available.- April 1925 to September 1939.

Average discharge.- 13 years (1926-39), 16.1 second-feet.

Extremes.- Maximum discharge during year, 255 second-feet Apr. 17 (gage height, 3.56 feet, from floodmark); no flow at times.

1925-39: Maximum discharge, 900 second-feet probably on May 3, 1938 (gage height, 3.98 feet former datum from floodmark), from rating curve extended above 400 second-feet; no flow June 1-7, 1926, and during many periods in the years 1930-39.

Remarks.- Records good except those for periods of ice effect or missing gage heights, Oct. 16, 17, 30, 31, Nov. 1, 5-11, 13-22, Mar. 27-29, which were computed on basis of gage heights, weather records, and records for stations on nearby streams and are fair, and those for Nov. 23 to Mar. 25, which were estimated and are poor. Discharge for Apr. 24, June 18 interpolated; that for Mar. 26, 30 computed on basis of staff-gage reading. Diversions above station for irrigation and stock water. Gage-height record and result of one discharge measurement furnished by watermaster for Mud Lake.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	20					61	93	0	0		
2	0	31					70	175	1	0		
3	0	33					93	190	5	0		
4	0	29					127	145	5	0		
5	0	25					164	127	8	0		
6	0	5					171	123	12	0		
7	0	6					182	125	11	0		
8	0	12					137	115	11	0		
9	0	14				2	146	96	11	0		
10	1	11					173	78	11	1		
11	7	4					167	74	11	0		
12	5	2					154	67	11	0		
13	4	3					152	56	10	0		
14	2	5					139	45	8	0		
15	2	10					156	36	7	0		
16	10	10					221	32	7	0		
17	20	7				3	219	30	6	0		
18	20	5				4	167	36	12	0		
19	19	6				6	146	59	17	0		
20	18	7				8	148	61	20	0		
21	16	4				10	146	56	20	0		
22	17	2				20	133	41	25	0		
23	14					40	129	36	21	0		
24	12					70	144	33	16	0		
25	10					100	158	30	13	0		
26	9	2				123	160	24	10	0		
27	9					120	123	20	8	0		
28	9					100	88	17	7	0		
29	8					70	70	11	6	0		
30	9					51	68	7	4	0		
31	10	-				60	-	1	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	231	20	0	7.5	458
November	267	33	-	8.9	530
December	62	-	-	2.0	123
Calendar year 1938	18,985	800	0	52.0	37,660
January	62	-	-	2.0	123
February	56	-	-	2.0	111
March	817	123	-	26.4	1,620
April	4,212	221	61	140	8,350
May	2,044	190	1	65.9	4,050
June	314	25	0	10.5	623
July	1	1	0	.03	2.0
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1938-39	8,066	221	0	22.1	15,990

Beaver Creek near Spencer, Idaho

Location.- Staff gage, lat. 44°22', long. 112°11', in sec. 14, T. 12 N., R. 36 E., 400 feet downstream from railroad crossing and 1.2 miles north of Spencer.

Drainage area.- 116 square miles.

Records available.- November 1938 to September 1939.

Extremes.- Maximum discharge during period of record, 309 second-feet Mar. 26 (gage height, 4.22 feet, from floodmarks), from rating curve extended above 220 second-feet; minimum discharge observed, 2 second-feet Sept. 2-5, 9-12, 17-30; minimum gage height observed, 0.84 foot Sept. 27.

Remarks.- Records poor. Gage read once daily. A few small ranch diversions above station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	24	14			152	86	31			†2
2		-	24	*14			204	86	33			†2
3		-	18	15			†250	74	29			†2
4		-	22	*16			†300	70	32			2
5		-	20	16			204	†70	†30			2
6		-	17	†15			†85	†80	†30			3
7		-	24	†14			†80	†80	†30			*3
8		22	22	†14			78	62	†29			3
9		21	18	†14			†120	*58	†27			2
10		23	17	†15		†17	82	54	†25			2
11		22	†16	17			†75	*52	24			*2
12		18	†15	*16			74	50	*22			2
13		21	†15	16			*74	48	19			†3
14		26	†15	†15			74	*44	*18			†4
15		24	†16	15			*70	41	17			4
16		20	†17	14			66	*47	19			†3
17		*20	†16	13			*66	53	*22			†2
18		21	†16	†13		29	65	†55	24			2
19		20	†16	14		*30	*63	50	*24			*2
20		21	†16	†13		30	61	*46	24			2
21		†20	†16	†12		†50	†60	43	†23			*2
22		†18	†15	†13		54	70	40	†23			2
23		†16	16	†14		†95	†80	†60	†22			*2
24		†20	†17	†15		135	106	46	22			2
25		†22	†16	15		†250	†110	*46	19			2
26		†20	†14	*15		†309	†90	45	18			*2
27		†21	†14	*15		†300	62	43	18			2
28		†23	†14	15		†250	†60	*40	*16			*2
29		24	†14	16		†200	70	36	15			2
30		25	14	†15		†175	†75	*35	15			*2
31		-	*14	16		†150	-	34	-			-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November 8-30	488	26	16	21.2	968
December	528	24	14	17.0	1,050
Calendar year	-	-	-	-	-
January	454	17	12	14.6	900
February	420	-	-	†15.0	833
March	2,346	309	-	75.7	4,650
April	3,026	300	60	101	6,000
May	1,674	86	34	54.0	3,320
June	700	33	15	23.3	1,390
July	310	-	-	†10.0	615
August	124	-	-	†4.0	246
September	69	4	2	2.3	137
The period	-	-	-	-	20,110

*Gage height missing; discharge interpolated.
†Gage-height record missing or doubtful or stage-discharge relation affected by ice; discharge computed on basis of weather records and records for other stations in Mud Lake Basin.

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 1939.

Extremes.- Maximum discharge during year, 280 second-feet Apr. 4 (gage height, 2.58 feet); no flow for long periods.
1921-39: Maximum discharge, 858 second-feet Apr. 7, 1930; maximum gage height, about 6.5 feet Mar. 16, 1926; no flow for long periods.

Remarks.- Records good except those for Nov. 15, 17, 18, Apr. 22-24, 26-30 (computed on basis of weather records and records for nearby stations) and those for December 1-31 (estimated), which are poor. Discharge interpolated Mar. 25, Apr. 17-20; based on staff gage reading Nov. 16, Apr. 21. Diversions above station for irrigation. Gage-height record and two discharge measurements furnished by watermaster for Mud Lake.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	8.0				0	105	70	8.5	0		
2	0	7.2				0	137	74	9.1	0		
3	0	3.9				0	198	54	8.8	0		
4	0	1.6				0	240	50	7.1	0		
5	0	.1				0	166	48	6.2	0		
6	0	0				0	72	58	6.0	0		
7	0	0				0	69	60	7.3	6.3		
8	0	0				0	66	46	9.1	.7		
9	0	0				0	102	40	8.5	0		
10	6.5	0				0	75	36	8.1	0		
11	1.7	0				0	57	32	7.3	0		
12	0	0				0	55	27	5.5	0		
13	0	0				0	54	25	3.4	0		
14	0	0				0	49	21	2.0	0		
15	0	1.0				0	44	17	0	0		
16	0	2.9				0	41	15	0	0		
17	.6	2.0				0	40	19	1.2	0		
18	.9	1.0				0	39	24	7.7	0		
19	1.0	0				35	38	25	11	0		
20	1.1	0				33	37	25	11	0		
21	1.7	0				42	36	21	13	0		
22	1.1	0				130	40	17	11	0		
23	.1	0				120	50	27	6.7	0		
24	0	0				143	80	34	4.2	0		
25	0	0				177	91	29	3.2	0		
26	0	0				211	70	23	2.3	0		
27	0	0				213	40	18	.5	0		
28	0	0				154	30	17	0	0		
29	0	0				143	40	15	0	0		
30	0	0				124	50	12	0	0		
31	5.0	-				105	-	9.7	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	19.7	6.5	0	0.64	39
November	27.7	8.0	0	.92	55
December	15.5	-	0	.50	31
Calendar year 1938	8,989.0	217	0	24.6	17,820
January	0	0	0	0	0
February	0	0	0	0	0
March	1,630	213	0	52.6	3,230
April	2,211	240	30	73.7	4,390
May	988.7	74	9.7	31.9	1,960
June	168.7	13	0	5.62	335
July	7.0	6.3	0	.23	14
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1938-39	5,068.3	240	0	13.9	10,050

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 confluence with Camas Creek.

Records available.- April 1921 to September 1939.

Extremes.- Maximum discharge observed during year, 122 second-feet Apr. 5 (gage height, 2.94 feet); no flow for long periods.

1921-39: 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 to 1936.

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

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0	67	5.2				
2						0	83	22				
3						0	104	12				
4						0	118	7.1				
5						0	118	7.4				
6						0	60	6.6				
7						0	60	17				
8						0	45	10				
9						0	44	4.7				
10						0	56	2.8				
11						0	38	1.5				
12						0	32	.5				
13						0	31	0				
14						0	28	0				
15						0	19	0				
16						0	17	0				
17						0	15	0				
18						0	10	0				
19						0	9.8	0				
20						0	9.4	0				
21						0	7.8	0				
22						0	6.1	0				
23						22	7.8	0				
24						71	9.8	0				
25						87	28	0				
26						100	28	0				
27						114	16	0				
28						83	5.6	0				
29						83	1.0	0				
30						87	0	0				
31						71	-	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 1938	1,072	54	0	2.9	2,120
January	0	0	0	0	0
February	0	0	0	0	0
March	718	114	0	23.2	1,420
April	1,074.3	118	0	35.8	2,130
May	96.8	22	0	31.2	192
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1938-39	1,889.1	118	0	5.18	3,740

Medicine Lodge Creek near Argora, Idaho

Location.- Staff gage, 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 1939.

Extremes.- Maximum discharge observed during period, 166 second-feet Mar. 22 (gage height, 1.80 feet), from rating curve extended above 50 second-feet; minimum observed, 16 second-feet Nov. 23 (gage height, 0.64 foot).

Remarks.- Records fair except those for periods of ice effect, Dec. 18-26, Dec. 28 to Jan. 12, and periods of missing gage heights, Feb. 9, 10, Apr. 2-6, 8-22, Apr. 24 to May 1, June 16-18, July 1-5, 10-13, Aug. 1 to Sept. 4, which were estimated and are poor. Several diversions above station for irrigation. Gage read once daily.

Rating table, Nov. 9 to Sept. 30 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.6	15.0	1.2	67	1.8	166
.8	22.7	1.4	96		
1.0	42	1.6	129		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	36	25	22	26	38	30	40	30		19
2		-	38	25	22	28		31	40	25		19
3		-	40	25	23	31		31	38	25		19
4		-	38	25	23	28	30	32	38	25		19
5		-	38	25	23	26		33	38	30		19
6		-	38	20	23	26		33	38	30		*19
7		-	38	20	23	26	23	33	38	31		19
8		-	38	20	23	26		33	38	*30		19
9		26	38	20	20	26		*38	36	28		19
10		26	36	25	20	26		*44	36	25		*19
11		23	31	25	23	26		49	*34	24		19
12		23	18	25	23	31		48	33	24		19
13		28	18	23	23	33		49	31	24		21
14		28	18	23	23	33		50	31	24		23
15		36	20	24	23	36	26	*48	31	*24		23
16		36	23	24	23	36		47	30	23		22
17		36	23	22	23	38		47	33	*22		22
18		38	25	23	23	38		54	35	22		23
19		36	25	23	31	59		49	38	22		23
20		36	25	20	31	64		50	38	*22		22
21		36	25	20	30	67		47	*34	21		22
22		28	25	20	31	166		49	31	*21		22
23		16	25	22	30	147	28	49	30	*21		22
24		23	25	23	30	129		47	30	*21		22
25		24	25	23	28	129		47	*30	*21		22
26		24	20	22	26	54	30	43	30	*20		22
27		24	19	23	26	54		*43	*30	*20		22
28		24	25	23	26	40		*42	31	*20		22
29		24	25	23	-	40		42	30	*20		22
30		31	25	22	-	40		42	30	20		22
31		-	25	23	-	40	-	*41	-	28		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November 9-30	626	38	16	28.5	1,240
December	868	40	18	28.0	1,720
Calendar year	-	-	-	-	-
January	706	25	20	22.8	1,400
February	695	31	20	24.8	1,380
March	1,569	166	24	50.6	3,110
April	839	-	-	28.0	1,660
May	1,321	54	30	42.6	2,620
June	1,020	40	30	34.0	2,020
July	743	31	20	24.0	1,470
August	620	-	-	20.0	1,230
September	627	23	19	20.9	1,240
The period Nov. 9 to Sept. 30	-	-	-	-	19,090

*Interpolated.

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. Prior to Sept. 2, 1938, staff gage at site 124 feet downstream, datum 1.39 feet higher.

Records available.- April 1921 to September 1939 except during winters.

Extremes.- Maximum discharge during year, 102 second-feet May 23 (gage height, 2.97 feet); minimum discharge recorded, 23 second-feet Aug. 18-20 (gage height, 2.15 feet).

1921-39: Maximum discharge, about 450 second-feet during cloud burst Aug. 11, 1936 (gage height, 3.1 feet, former datum from floodmark), from rating curve extended above 100 second-feet; minimum discharge observed, 13 second-feet Apr. 15, 20, 1923 (gage height, -0.12 foot, former datum).

Remarks.- Records good. None for Nov. 17 to Mar. 30. Discharge for period of ice effect, Nov. 10-13, computed on basis of weather records and records for stations on nearby streams; that for Oct. 12, Apr. 1, 3 interpolated; that for Mar. 31, Apr. 2, 4-8, May 19 computed on basis of staff-gage reading. 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 upstream, 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. Gage-height record and results of one discharge measurement furnished by watermaster for Little Lost River.

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Nov. 16, Mar. 31 to April 22, 1939)

2.1	20	2.4	42	2.7	72	3.0	105
2.2	26	2.5	51.5	2.8	82.5		
2.3	33.5	2.6	61.5	2.9	93.5		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	47					54	94	96	45	33	29
2	39	49					56	89	94	48	30	30
3	39	47					57	90	91	47	28	30
4	40	48					58	88	89	47	28	31
5	41	44					60	89	88	49	30	31
6	45	35					52	90	87	52	30	31
7	44	34					56	88	81	43	32	30
8	41	37					50	88	76	48	34	32
9	51	36					52	87	71	49	34	30
10	52	35					48	86	69	46	34	27
11	46	30					49	88	71	45	34	27
12	44	30					51	90	67	48	31	28
13	41	30					51	90	67	51	30	32
14	41	30					50	88	66	45	29	37
15	44	28					48	85	69	40	28	34
16	48	29					48	84	75	41	28	30
17	50	-					49	90	85	40	26	29
18	49	-					50	92	80	39	24	31
19	47	-					54	96	75	41	24	30
20	47	-					54	98	71	40	24	29
21	45	-					58	92	67	39	27	28
22	45	-					66	89	60	36	28	28
23	44	-					71	100	63	36	28	29
24	46	-					72	94	64	31	28	29
25	49	-					73	89	66	28	29	29
26	48	-					71	80	62	27	30	29
27	49	-					70	79	60	27	30	28
28	49	-					70	76	50	28	28	29
29	49	-					72	80	52	28	29	30
30	49	-					78	87	47	28	29	34
31	48	-				52	-	94	-	34	29	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,407	52	37	45.4	2,790
November 1-16	589	49	28	36.8	1,170
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	1,748	78	48	58.3	3,470
May	2,750	100	76	88.7	5,450
June	2,159	98	47	72.0	4,280
July	1,246	52	27	40.2	2,470
August	906	34	24	29.2	1,800
September	901	37	27	30.0	1,790
Water year	-	-	-	-	-

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 1939 (prior to 1938, irrigation seasons only).

Extremes.- Maximum discharge during year not determined; no flow during long periods. 1924-39: Maximum discharge observed, 87 second-feet May 24, 25, 1928; practically no flow during long periods of each year.

Remarks.- Records good except those for Mar. 24 to Apr. 1, which were computed on basis of information furnished by watermaster for Blaine County Investment Co.'s canal project and are fair. Discharge for Apr. 3, June 9 computed on basis of gate changes reported by watermaster for Little Lost River. Canal diverts from Little Lost River in sec. 2, T 6 N., R. 28 E., for irrigation of lands in project of Blaine County Investment Co. Gage read once daily. Gage-height record and results of three discharge measurements furnished by watermaster for Little Lost River.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	6.6				0	35		21			
2	0	8.4				0	31	0.6	22			
3	0	12				0	32		19			
4	0	12				0	30	5.9	17			
5	0	8.7				0	22	15	17			
6	0	0				0	15	15	17			
7	0	0				0	14	14	14			
8	0	0				0	11	14	3.5			
9	0	0				0	10	14	1.4			
10	0	0				0	6.2	14	0			
11	0	0				0	3.5	14	0			
12	0	0				0		17	0			
13	0	0				0		17	0			
14	0	0				0		13	0			
15	0	0				0		10	0			
16	0	0				0		10	0			
17	0	0				0		15	0			
18	0	0				0	.6	19	0			
19	0	0				0		22	0			
20	0	0				0		24	0			
21	0	0				0		19	0			
22	0	0				0		17	0			
23	0	0				0		25	0			
24	0	0						22	0			
25	0	0					.6	18	0			
26	0	0						6.2	0			
27	0	0				40		6.2	0			
28	0	0						2.7	2.4			
29	0	0					.6	8.6	3.8			
30	1.4	0						13	1.4			
31	6.6	-					-	18	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	8.0	6.6	0	0.26	16
November	47.7	12	0	1.59	95
December	0	0	0	0	0
Calendar year 1938	2,768.0	57	0	7.58	5,490
January	0	0	0	0	0
February	0	0	0	0	0
March	320	-	0	10.3	635
April	221.1	35	-	7.37	439
May	410.4	25	-	13.2	814
June	139.5	22	0	4.65	277
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1938-39	1,146.7	-	0	3.14	2,280

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 1939, except during winters.

Extremes.- Maximum discharge recorded during year, 1,000 second-feet May 31 (gage height, 2.89 feet); minimum recorded, 66 second-feet Sept. 11 (gage height, 0.84 foot), but may have been less sometime during winter.

1904-14, 1920-39: Maximum discharge, 3,500 second-feet June 12, 1921 (gage height, 5.94 feet); minimum, 22 second-feet (discharge measurement) Nov. 23, 1936.

Remarks.- Records good. None for Nov. 7 to Apr. 8. Discharge for Apr. 13, 15, 17, 20-22, 24, computed on basis of weather records and records for nearby streams; that for Apr. 9-12, 14, 16, 18, 19, 23 based on once-daily staff-gage reading. No regulation. Several small diversions above station. Hammerly ditch (capacity, about 20 second-feet) diverts a quarter of a mile below station. Gage-height record furnished by watermaster for Big Lost River.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used July 13 to Sept. 30)

0.7	55	1.5	213	2.3	565
.9	81	1.7	280	2.5	700
1.1	115	1.9	359	2.7	850
1.3	158	2.1	451	2.9	1,010

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	171	207					-	617	665	390	137	77
2	204	204					-	610	559	343	131	75
3	276	187					-	651	523	318	123	75
4	252	201					-	708	483	351	121	73
5	229	184					-	722	494	432	127	73
6	232	181					-	651	456	363	119	71
7	229	-					-	584	408	307	115	71
8	219	-					-	578	359	303	110	73
9	235	-					207	598	351	299	102	70
10	223	-					201	578	338	295	102	68
11	213	-					190	572	355	303	99	68
12	207	-					196	535	394	310	95	77
13	193	-					200	511	446	273	89	104
14	190	-					201	559	494	256	87	104
15	226	-					200	630	478	239	84	99
16	259	-					198	679	473	213	83	92
17	252	-					200	738	408	193	81	87
18	232	-					207	782	372	179	81	86
19	223	-					213	745	355	168	80	83
20	223	-					230	591	347	156	78	80
21	223	-					270	523	326	153	77	80
22	216	-					300	505	334	151	77	78
23	210	-					299	483	372	146	75	81
24	207	-					290	446	363	146	75	81
25	204	-					270	408	347	142	80	80
26	198	-					259	399	343	137	84	80
27	193	-					266	437	322	137	80	80
28	190	-					330	559	347	146	91	78
29	190	-					446	708	368	144	97	80
30	219	-					578	882	399	144	87	80
31	219	-					-	866	-	144	83	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,757	276	171	218	13,400
November 1-6	1,164	207	181	194	2,310
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 9-30	5,751	578	190	261	11,410
May	18,855	882	399	608	37,400
June	12,279	665	322	409	24,360
July	7,281	432	137	235	14,440
August	2,950	137	75	95.2	5,850
September	2,404	104	68	80.1	4,770
Water year	-	-	-	-	-

Big Lost River (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., 3 miles upstream from Mackay Dam, above flow line of reservoir, and about 7½ miles northwest of Mackay.

Records available.- May 1919 to September 1939.

Average discharge.- 20 years, 49.3 second-feet.

Extremes.- Maximum discharge during year, 265 second-feet May 31 (gage height, 2.78 feet), computed by slope method; minimum, 3 second-feet Aug. 14 (gage height, 0.13 foot).
1919-39: Maximum discharge, 1,320 second-feet June 7, 1938 (gage height, 5.02 feet); no flow during long periods in 1920 and each year of 1923-38.

Remarks.- Records fair January to September; others good. Discharge for period when stage-discharge relation was affected by backwater from Mackay Reservoir, Jan. 1 to June 6, computed on basis of discharge measurements, slope methods, weather records, and records for stations on nearby streams. 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. Gage-height record and results of three discharge measurements furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	61	11				-	10	210	47	8	6
2	15	62	11				-	10	155	50	7	6
3	15	61	11				-	10	130	49	7	6
4	15	62	11				-	15	115	47	7	6
5	17	56	10		*10		-	30	135	52	7	6
6	20	51	11				-	55	145	54	7	6
7	24	53	11				-	65	135	49	7	6
8	26	57	11				-	75	115	44	6	6
9	30	63	11				-	80	99	38	5	6
10	31	61	12				-	95	86	34	5	6
11	32	51	12				*16	90	80	30	5	6
12	31	38	12				-	55	80	28	5	6
13	30	34	11				-	35	78	26	4	7
14	30	33	11				-	25	85	25	5	6
15	34	30	10				-	30	95	23	8	6
16	39	26	10				-	55	105	23	8	5
17	46	24	10				-	90	106	21	7	5
18	48	23	10				-	170	99	19	7	5
19	48	22	10				-	225	94	17	7	4
20	47	22	10				-	195	94	15	6	4
21	48	20	10				-	160	86	14	6	5
22	47	19	10				-	155	77	13	6	5
23	47	18	10				-	150	72	12	6	5
24	46	16	10				-	140	66	11	6	5
25	45	15	10				*7	130	62	10	7	5
26	47	14	10				-	110	59	9	6	5
27	49	13	10				-	100	53	8	6	5
28	49	12	10				-	110	46	8	6	5
29	49	12	10				-	145	42	8	6	5
30	55	12	10				-	190	41	9	6	5
31	58	-	10				-	250	-	9	6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,132	58	14	36.5	2,250
November	1,041	63	12	34.7	2,060
December	326	12	10	10.5	647
Calendar year 1938	62,567	1,320	0	171	124,100
January	310	-	-	10.0	615
February	280	-	-	10.0	555
March	403	-	-	13.0	799
April	390	-	-	13.0	774
May	3,055	250	10	98.5	6,060
June	2,845	210	41	94.8	5,640
July	802	54	8	25.9	1,590
August	195	8	4	6.3	387
September	164	7	4	5.5	325
Water year 1938-39	10,943	250	4	30.0	21,700

*Discharge measurement.

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., 3 miles upstream from Mackay Dam, above flow line of reservoir, and about 7½ miles northwest of Mackay.

Records available.- May 1919 to September 1939.

Average discharge.- 20 years, 54.7 second-feet.

Extremes.- Maximum discharge during year, 132 second-feet May 31; maximum gage height, 2.77 feet May 11; minimum discharge, 38 second-feet Apr. 27 (gage height, 2.04 feet). 1919-39: Maximum discharge, 1,200 second-feet (estimated) sometime during period June 5-16, 1921 (gage height, 4.45 feet); minimum, 9 second-feet May 22, 26, 1935.

Remarks.- Records good. Discharge for Nov. 12 and Dec. 7 based on staff-gage reading. 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. This summation is published on the following page. Gage-height record and results of three discharge measurements furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	64	52	50	*44	42	52	43	125	66	55	50
2	57	66	52	50	*44	43	53	42	116	68	54	51
3	58	63	52	50	*44	43	53	42	108	68	53	51
4	58	63	52	50	45	43	53	47	102	70	54	53
5	59	64	53	48	45	43	53	57	104	73	53	55
6	60	63	*52	48	45	43	51	67	110	71	53	55
7	62	*63	52	48	45	43	50	75	108	70	52	54
8	64	*63	53	48	45	43	48	81	100	66	53	55
9	68	*62	53	48	45	43	48	88	94	63	54	54
10	67	*62	53	48	45	42	48	113	87	62	54	54
11	67	*62	52	48	45	42	47	117	81	62	52	55
12	66	62	52	48	45	42	47	102	81	60	51	57
13	66	*61	52	48	45	42	47	98	80	59	51	58
14	66	*61	52	48	45	42	46	88	81	57	51	57
15	64	60	52	48	46	42	45	90	86	54	51	57
16	64	60	53	47	45	41	44	93	90	53	47	57
17	68	59	53	46	45	42	43	98	94	53	47	*56
18	68	58	53	46	45	42	43	105	93	51	50	54
19	67	58	53	45	44	*42	43	116	92	51	50	53
20	66	59	53	45	44	*43	43	117	92	48	50	53
21	64	59	53	45	44	*43	42	110	88	48	48	53
22	64	58	53	45	44	*43	42	110	81	48	47	53
23	64	55	53	*45	43	*43	43	106	80	46	47	53
24	64	54	53	*44	43	*44	44	104	78	46	48	53
25	63	53	*53	*44	42	44	44	98	75	46	50	53
26	62	53	*52	*44	42	51	44	92	74	48	50	54
27	62	53	*52	*43	42	58	41	88	71	47	50	54
28	62	52	*51	43	43	58	39	88	67	48	51	53
29	62	52	*51	43	-	59	40	94	64	48	51	53
30	66	52	*50	43	-	58	41	108	63	52	51	54
31	66	-	50	43	-	53	-	127	-	57	50	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,971	68	57	63.6	3,910
November	1,774	66	52	59.1	3,520
December	1,620	53	50	52.3	3,210
Calendar year 1938	37,155	734	13	102	73,690
January	1,439	50	43	46.4	2,850
February	1,239	46	42	44.2	2,460
March	1,402	59	41	45.2	2,780
April	1,377	53	39	45.9	2,730
May	2,804	127	42	90.5	5,560
June	2,665	125	63	88.8	5,290
July	1,769	73	46	57.1	3,490
August	1,578	55	47	50.9	3,130
September	1,622	58	50	54.1	3,220
Water year 1938-39	21,260	127	39	58.2	42,150

*Gage heights missing; 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, 1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	178	249	175	170	161	158	170	139	471	203	153	146
2	183	251	174	170	160	159	168	147	398	207	149	148
3	188	244	173	172	160	159	168	138	356	208	141	150
4	191	246	173	170	160	159	168	147	334	208	142	154
5	194	239	175	168	160	157	168	176	359	222	142	155
6	203	234	175	168	159	159	164	213	379	221	140	154
7	210	236	175	168	159	157	164	234	366	213	137	153
8	215	241	176	168	160	157	163	254	336	203	137	154
9	228	245	176	168	160	157	162	268	310	192	137	155
10	227	245	177	168	160	156	161	315	283	186	137	156
11	227	233	176	170	159	158	159	315	267	180	134	160
12	221	219	176	169	159	158	159	260	264	175	134	165
13	220	214	175	169	159	159	159	231	258	174	132	171
14	222	212	175	169	159	158	163	211	265	167	133	166
15	225	208	174	169	162	158	160	216	286	162	136	164
16	230	202	176	168	160	158	159	255	303	159	131	163
17	246	201	174	166	161	163	156	302	315	156	132	161
18	247	199	175	166	161	163	156	410	303	151	145	160
19	242	198	175	165	159	165	152	496	296	150	145	158
20	240	200	175	164	159	166	152	468	296	145	144	158
21	239	197	175	164	160	164	148	419	282	144	136	159
22	238	193	174	164	158	163	144	419	264	144	130	161
23	237	186	173	164	158	161	139	401	256	142	129	161
24	235	183	173	163	158	162	139	384	246	142	131	159
25	230	181	175	163	156	162	139	361	237	140	137	158
26	231	180	172	163	156	174	139	331	231	141	136	159
27	232	179	172	162	156	185	134	313	219	139	136	159
28	232	177	171	162	156	183	132	323	204	143	139	157
29	233	177	171	161	-	184	127	363	196	147	140	157
30	247	176	170	161	-	182	134	419	194	156	142	158
31	249	-	170	160	-	176	-	504	-	161	145	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,940	249	178	224	13,770
November	6,345	251	176	212	12,590
December	5,396	177	170	174	10,700
Calendar year 1938	149,806	2,520	97	410	297,100
January	5,152	172	160	166	10,220
February	4,455	162	156	159	8,840
March	5,080	185	156	164	10,080
April	4,606	170	127	154	9,140
May	9,432	504	138	504	18,710
June	8,774	471	194	292	17,400
July	5,281	222	139	170	10,470
August	4,282	153	129	138	8,490
September	4,739	171	146	158	9,400
Water year 1938-39	70,482	504	127	193	139,800

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. Zero of gage is 6,000 feet above mean sea level.

Records available.- January 1919 to September 1939.

Extremes.- Maximum contents observed during year, 39,820 acre-feet May 11 (gage height, 63.10 feet); minimum observed, 7,503 acre-feet Sept. 7 (gage height, 27.90 feet).
1919-39: Maximum contents observed, 41,270 acre-feet May 30, 1938 (gage height, 64.20 feet); no available storage during periods in 1919, 1920, 1924, 1926, 1929, 1931-35; minimum gage height, 6.3 feet Aug. 5, 1934.

Remarks.- Reservoir is formed by earth and rock fill dam, which was reconstructed 1917-18; storage impounded by original dam not recorded. Capacity, 38,400 acre-feet between gage heights 7.0 feet (bottom of outlet tunnel) and 62.0 feet (crest of spillway). Dead storage reported to be about 125 acre-feet. Water is used for irrigation of lands in Big Lost River irrigation district. Considerable seepage around the 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. Gage-height record and capacity table furnished by watermaster for Big Lost River.

Capacity table (gage height, in feet, and contents, in acre-feet)
(Furnished by watermaster for Big Lost River)

6,007	0	6,030	8,727	6,055	30,019
6,010	580	6,035	12,022	6,060	35,902
6,015	1,934	6,040	15,755	6,065	42,337
6,020	3,742	6,045	19,937		
6,025	5,993	6,050	24,684		

Contents at midnight, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29,990	35,140	34,100	36,500	38,380	38,720	38,790	39,110	38,490	29,380	15,700	7,717
2	29,900	35,350	34,210	36,610	38,430	38,720	38,830	39,110	38,180	28,910	15,360	7,660
3	29,670	35,570	34,300	36,730	38,470	38,720	38,850	39,110	37,910	28,500	15,060	7,604
4	29,570	35,820	34,390	36,850	38,480	38,690	38,850	39,110	37,620	28,240	14,620	7,565
5	29,680	36,060	34,510	36,980	38,490	38,660	38,850	39,150	37,340	28,080	14,300	7,537
6	29,850	36,270	34,630	37,090	38,490	38,660	38,850	39,230	37,130	27,870	13,890	7,509
7	30,050	36,460	34,770	37,180	38,520	38,660	38,890	39,380	36,950	27,770	13,490	7,542
8	30,210	36,640	34,840	37,240	38,530	38,660	38,920	39,600	36,680	27,650	13,120	7,598
9	30,360	36,830	34,950	37,300	38,570	38,660	38,960	39,730	36,330	27,420	12,780	7,819
10	30,530	37,000	35,020	37,370	38,640	38,660	39,020	39,800	36,040	27,070	12,390	8,049
11	30,700	37,240	35,120	37,430	38,700	38,660	39,050	39,730	35,750	26,800	12,090	8,165
12	30,870	37,490	35,240	37,490	38,720	38,660	39,090	39,520	35,310	26,590	11,740	8,295
13	31,040	37,750	35,330	37,560	38,720	38,660	39,110	39,180	35,060	26,350	11,430	8,420
14	31,260	37,960	35,390	37,620	38,720	38,660	39,110	38,880	34,790	26,050	11,120	8,522
15	31,480	36,480	35,450	37,670	38,720	38,660	39,110	38,580	34,530	25,620	10,800	8,636
16	31,740	35,410	35,510	37,730	38,720	38,660	39,150	38,250	34,310	25,190	10,460	8,751
17	32,000	34,610	35,570	37,810	38,720	38,660	39,180	37,990	34,220	24,740	10,130	8,831
18	32,190	33,980	35,670	37,870	38,720	38,660	39,180	37,810	34,120	24,140	9,855	8,941
19	32,440	33,600	35,750	37,940	38,720	38,660	39,180	38,130	33,980	23,480	9,605	9,065
20	32,700	33,480	35,850	38,000	38,720	38,660	39,180	38,320	33,910	22,700	9,345	9,096
21	32,930	33,410	35,990	38,060	38,720	38,660	39,180	38,300	33,850	22,020	9,096	9,053
22	33,170	33,400	36,100	38,130	38,720	38,660	39,180	38,240	33,790	21,510	8,709	8,991
23	33,400	33,460	36,190	38,190	38,720	38,620	39,210	38,090	33,610	20,980	8,426	8,886
24	33,600	33,520	36,250	38,230	38,720	38,600	39,240	37,990	33,460	20,400	8,278	8,758
25	33,780	33,610	36,310	38,270	38,720	38,640	39,240	37,960	33,180	19,810	8,183	8,618
26	33,960	33,750	36,330	38,290	38,720	38,700	39,240	37,960	32,820	19,110	8,055	8,492
27	34,140	33,820	36,330	38,330	38,720	38,720	39,200	38,050	32,260	18,310	8,014	8,390
28	34,280	33,880	36,370	38,350	38,720	38,720	39,140	38,300	31,590	17,610	7,928	8,301
29	34,480	33,940	36,400	38,350	-	38,720	39,110	38,620	30,800	17,030	7,876	8,171
30	34,680	34,000	36,430	38,350	-	38,720	39,110	38,760	30,010	16,510	7,808	8,049
31	34,900	-	36,460	38,370	-	38,760	-	38,750	-	16,090	7,762	-

Monthly gage height and contents, water year October 1938 to September 1939

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	54.97	29,990	-
Oct. 31	59.18	34,900	+4,910
Nov. 30	58.43	34,000	-900
Dec. 31	60.45	36,460	+2,460
Calendar year 1938	-	-	+27,607
Jan. 31	61.97	38,370	+1,910
Feb. 28	62.25	38,720	+350
Mar. 31	62.28	38,760	+40
Apr. 30	62.55	39,110	+350
May 31	62.27	38,750	-360
June 30	54.99	30,010	-8,740
July 31	40.43	16,090	-13,920
Aug. 31	28.36	7,762	-8,328
Sept. 30	28.86	8,049	+287
Water year 1938-39	-	-	-21,941

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, and January 1919 to September 1939. April 1913 to March 1915 at site 1 mile downstream.

Average discharge.- 23 years (1904-5, 1912-14, 1919-39), 256 second-feet.

Extremes.- Maximum discharge during year, 1,480 second-feet Nov. 15 (gage height, 4.27 feet); minimum, 87 second-feet Sept. 8, 9 (gage height, 1.50 feet).
1903-6, 1912-15, 1919-39: 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. Discharge interpolated Feb. 1-3. Flow regulated by Mackay Reservoir (capacity, 38,400 acre-feet between gage heights 7.0 and 62.0 feet). Sharp ditch is only diversion between reservoir and station; many above reservoir. Gage-height record furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	311	142	139	149	156	172	231	146	624	565	389	201
2	264	142	139	149	156	172	228	152	570	505	351	201
3	243	142	139	149	156	169	224	152	520	427	351	201
4	201	142	139	149	156	169	204	152	466	393	370	197
5	186	142	139	149	156	169	190	152	466	398	374	197
6	165	142	142	149	156	169	183	149	466	342	370	186
7	142	142	142	149	156	169	156	162	461	298	365	133
8	124	142	142	149	156	169	156	179	461	298	361	87
9	124	142	146	149	156	169	156	179	456	315	361	87
10	124	142	146	149	156	169	159	186	456	347	356	90
11	127	142	146	149	159	169	152	385	456	333	342	93
12	127	142	146	149	169	169	152	466	456	307	329	115
13	130	142	146	149	183	169	152	466	413	307	324	142
14	130	142	146	149	183	172	152	413	403	347	333	142
15	133	744	146	149	190	176	152	356	413	393	342	139
16	133	685	146	149	186	176	149	427	413	422	338	139
17	133	674	146	149	183	176	149	476	398	427	329	139
18	133	560	146	149	183	176	142	413	370	447	315	139
19	133	461	146	152	183	176	149	384	370	505	307	142
20	133	351	146	152	179	176	156	408	361	570	298	165
21	133	329	149	152	179	176	156	496	333	525	298	201
22	133	311	149	152	176	183	156	500	315	486	293	220
23	133	215	149	152	176	208	156	481	342	432	289	220
24	133	142	149	152	176	194	152	447	356	461	272	220
25	136	139	149	156	176	169	142	422	393	481	260	224
26	136	139	149	156	176	172	142	351	427	515	243	239
27	136	139	149	156	176	197	139	260	530	520	212	239
28	152	139	149	156	172	224	139	247	580	525	204	239
29	136	139	149	156	-	224	133	255	575	496	201	247
30	139	139	149	156	-	228	133	374	570	456	201	268
31	142	-	149	156	-	231	-	510	-	432	201	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,705	311	124	152	9,330
November	7,314	744	139	244	14,510
December	4,512	149	139	146	8,950
Calendar year 1938	136,985	2,440	70	375	271,800
January	4,686	156	149	151	9,290
February	4,765	190	156	170	9,450
March	5,637	231	169	182	11,180
April	4,840	231	133	161	9,600
May	10,146	510	146	327	20,120
June	13,420	624	315	447	26,620
July	13,275	570	298	428	26,330
August	9,579	389	201	309	19,000
September	5,252	268	87	175	10,420
Water year 1938-39	88,131	744	87	241	174,800

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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 about 7½ miles northwest of Mackay. Prior to Dec. 3, 1938, staff gage at site 200 feet downstream, datum 0.29 foot lower.

Records available.- May 1919 to September 1939.

Average discharge.- 20 years, 28.5 second-feet.

Extremes.- Maximum discharge recorded during year, 37 second-feet May 19, 20 (gage height, 1.90 feet); minimum, 13 second-feet Apr. 27-29, Aug. 23, 24; minimum gage height, 1.49 feet Apr. 28, 29.

1919-39: Maximum discharge, 225 second-feet June 15, 1922; minimum, 9 second-feet May 8, 9, 13, 14, 1919, and May 18-21, 1920.

Remarks.- Records good except those for Oct. 1 to Dec. 2 and May 21 to June 30, which are fair. Discharge May 28-30 computed on basis of records for stations on nearby streams. 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. Gage-height record and results of two discharge measurements furnished by watermaster for Big Lost River.

Rating table, Dec. 3 to Sept. 30 (gage height, in feet, and discharge, in second-feet)

1.4	9.8	1.7	23.3
1.5	13.3	1.8	29.8
1.6	17.8	1.9	37.0

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*20	†21	†18	18	18	17	19	17	*33	16	16	16
2	†21	†20	†18	18	18	17	19	17	†30	16	16	16
3	†21	†20	18	18	18	17	19	16	*27	17	15	16
4	†22	†20	18	18	18	17	19	16	†27	16	14	17
5	†22	*20	18	18	17	17	19	17	†28	18	15	16
6	†23	†20	18	18	17	17	18	18	*28	18	14	16
7	†23	†20	18	18	17	17	18	20	†28	17	14	16
8	*24	†20	18	18	17	17	18	21	*27	16	14	16
9	†24	†19	18	18	17	17	17	22	†25	16	14	16
10	†24	†19	18	18	17	17	17	25	*23	16	14	16
11	†24	†19	18	18	17	17	17	25	†22	15	14	16
12	†23	*19	18	17	17	17	17	23	†21	15	14	16
13	†23	†19	18	17	17	17	17	21	*20	16	14	18
14	†23	†19	18	17	17	17	18	21	†20	15	14	17
15	*23	†19	18	17	18	17	18	21	*21	15	14	17
16	†23	†19	18	17	17	17	18	23	†22	14	13	17
17	†23	†19	17	17	18	17	18	26	*24	14	14	17
18	†23	†19	17	18	18	17	18	31	*23	14	16	17
19	†22	*19	18	18	18	18	17	36	†23	14	16	17
20	†22	†19	18	18	18	18	17	37	†22	14	16	17
21	†22	†19	18	18	18	18	16	†35	†22	14	15	17
22	*22	†19	18	18	17	17	16	†33	*22	14	14	17
23	†22	†18	18	18	17	17	14	†32	†21	14	13	17
24	†22	†18	18	18	17	17	14	†30	*20	15	13	17
25	†21	†18	18	18	17	17	14	*28	†20	15	14	17
26	†21	*18	18	18	17	18	14	†26	*19	15	14	17
27	*21	†18	18	18	17	20	13	*25	†18	15	14	17
28	†21	†18	18	18	17	21	13	25	*16	15	15	17
29	*21	†18	18	18	-	20	13	25	†16	16	15	17
30	†21	†18	18	18	-	21	17	26	†16	17	15	16
31	†21	-	18	18	-	20	-	*26	-	17	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	688	24	20	22.2	1,360
November	571	21	18	19.0	1,130
December	556	18	17	17.9	1,100
Calendar year 1938	12,460	192	15	34.1	24,700
January	552	18	17	17.8	1,090
February	486	18	17	17.4	964
March	548	21	17	17.7	1,090
April	502	19	13	16.7	996
May	764	37	16	24.6	1,520
June	684	33	16	22.8	1,360
July	479	18	14	15.5	950
August	449	16	13	14.5	891
September	499	18	16	16.6	990
Water year 1938-39	6,778	37	13	18.6	13,440

*Discharge determined from staff gage readings.
†Gage height missing; discharge interpolated.

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 about 7½ miles northwest of Mackay. Datum lowered 0.46 foot Dec. 3, 1938.

Records available.- May 1919 to September 1939.

Average discharge.- 20 years, 91.0 second-feet.

Extremes.- Maximum discharge during year, 128 second-feet May 22 (gage height, 1.71 feet, present datum); minimum, 60 second-feet Apr. 29 (gage height, 1.20 feet, present datum).

1919-39: Maximum discharge, 600 second-feet (estimated) Aug. 11, 1936 (gage height, 4.42 feet, former datum, from floodmark); minimum, 49 second-feet Apr. 27, 1935 (gage height, 0.62 foot, former datum).

Remarks.- Records good. Discharge based on once-daily staff-gage reading Nov. 29, Jan. 15, 21, 28. 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. Gage-height record and results of two discharge measurements furnished by watermaster for Big Lost River.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	87	103	*94	92	*89	86	86	69	103	74	74	74
2	90	103	*93	92	*88	86	83	78	97	73	72	75
3	94	100	92	94	*88	86	83	70	91	74	66	77
4	96	101	92	92	87	86	83	69	90	75	67	78
5	96	99	94	92	88	84	83	72	92	79	67	78
6	100	100	94	92	87	86	82	73	96	78	66	77
7	101	100	94	92	87	84	83	74	95	77	64	77
8	101	101	94	92	88	84	84	77	94	77	64	77
9	106	101	94	92	88	84	84	78	92	75	64	79
10	105	103	94	92	88	84	83	82	87	74	64	80
11	104	101	94	94	87	86	82	83	84	73	63	83
12	101	100	94	94	87	86	82	80	82	72	64	86
13	101	100	94	94	87	87	82	77	80	73	63	88
14	103	99	94	94	87	86	86	77	79	70	63	86
15	104	99	94	94	88	86	84	75	84	70	63	84
16	104	97	95	*94	88	87	84	84	86	69	63	84
17	109	99	94	*93	88	91	82	88	91	68	64	83
18	108	99	95	*92	88	91	82	104	88	67	72	84
19	105	99	94	*92	87	92	79	119	87	68	72	84
20	105	100	94	*91	87	92	79	119	88	68	72	84
21	105	99	*94	91	88	90	77	114	86	68	67	84
22	105	97	*93	*91	87	90	73	121	84	69	63	86
23	104	95	*92	*91	88	88	69	113	83	70	63	86
24	103	95	92	*91	88	88	68	110	82	70	64	84
25	101	95	94	*91	87	88	68	105	80	69	66	83
26	101	95	92	*91	87	92	68	103	79	69	66	83
27	100	95	92	*91	87	94	67	100	77	69	66	83
28	100	95	92	91	86	91	67	100	75	72	67	82
29	101	95	92	*90	-	92	61	99	74	75	68	82
30	105	*94	92	*90	-	90	63	95	74	78	70	83
31	104	-	92	*89	-	90	-	101	-	78	73	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,149	109	87	102	6,250
November	2,959	103	94	98.6	5,870
December	2,894	95	92	93.4	5,740
Calendar year 1938	37,613	297	64	103	74,620
January	2,851	94	89	92.0	5,650
February	2,450	89	86	87.5	4,860
March	2,727	94	84	88.0	5,410
April	2,337	86	61	77.9	4,640
May	2,809	121	69	90.6	5,570
June	2,580	103	74	86.0	5,120
July	2,241	79	67	72.3	4,440
August	2,060	74	63	66.5	4,090
September	2,454	88	74	81.8	4,870
Water year 1938-39	31,511	121	61	86.3	62,510

*Gage height missing; discharge interpolated.

Sharp ditch near Mackay, Idaho

Location.- Water-stage recorder, lat. 43°57', long. 113°39', in sec. 7, T. 7 N., R. 24 E., 1,600 feet downstream from head of ditch, three-fourths mile downstream from Mackay Reservoir, and 3⅛ miles northwest of Mackay. Prior to Apr. 25 water-stage recorder at site 1,400 feet upstream and above Hentze ditch.

Records available.- June 1912 to October 1914, March 1919 to September 1939.

Extremes.- Maximum discharge recorded during year, 27 second-feet July 14 (gage height, 1.17 feet, present site and datum); no flow Apr. 20-24.
1912-14, 1919-39: Maximum discharge observed, 42 second-feet June 23, 1921; no flow at times.

Remarks.- Records good except those for period of missing gage heights, Oct. 1 to Apr. 26, which were computed on basis of occasional staff gage readings and information furnished by watermaster and are poor. Sharp ditch diverts from east side of Big Lost River in SE¼ sec. 12, T. 7 N., R. 23 E., 1 mile above station on Big Lost River below Mackay Reservoir, and half a mile below Mackay Reservoir. Water used for irrigation northwest of Mackay and above Streeter ditch. Gage-height record furnished by watermaster for Big Lost River.
Hentze ditch diverts from Sharp ditch between present site and former site upstream. Records of diversion, in acre-feet, are given in the following table.

May.....6.0	July.....52	September....9.9
June... 28	August... 3.0	

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	*9	*1	*1	1		*1	8.2	0.6	16	14	10
2	17	9	1		1		1	2.5	.4	16	13	10
3	17	9	1		1		1	2.4	13	16	13	10
4	17	9	1		*1		1	2.2	23	17	15	9.8
5	17	9	*1		1		1	4.9	22	20	14	9.5
6	10	5	1		1		1	7.2	22	18	13	9.5
7	10	1	1		1		1	7.2	22	17	12	8.5
8	10	1	1		1		1	7.2	21	17	11	5.7
9	10	1	1		1		1	7.4	21	19	11	3.8
10	10	1	*1		1		*1	7.6	21	23	11	3.8
11	12	1	1		*1		1	8.5	21	24	10	3.8
12	12	1	1		1		1	7.6	20	24	10	4.4
13	12	1	1		1		1	7.0	18	24	12	5.7
14	12	1	1		1		1	5.4	19	25	15	5.5
15	12	1	*1		1		1	14	20	24	17	5.5
16	12	*1	1	1	1		1	13	22	22	17	5.5
17	12	*1	1		*1		1	12	22	19	16	5.5
18	12	1	*1		1		1	9.2	21	18	15	5.5
19	12	1	1		1		1	15	21	18	15	5.7
20	12	*1	1		1		1	18	20	15	13	6.7
21	16	1	1		1		0	20	19	13	12	8.8
22	16	1	*1		1		0	20	18	13	12	10
23	16	1	1		1		0	17	19	12	11	9.8
24	16	*1	1		1		6	14	20	14	9.5	9.0
25	10	*1	1		1		15	13	21	18	9.0	9.2
26	10	1	*1		1		15	12	21	21	9.5	10
27	10	1	1		1		15	12	20	21	11	10
28	*10	1	1		1		12	7.5	16	21	10	10
29	10	1	1		-		19	1.0	15	19	10	10
30	10	*1	*1		-		19	1.0	16	17	10	11
31	9	-	1		-		-	.9	-	16	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	388	17	9	12.5	770
November	74	9	1	2.5	147
December	31	1	1	1.0	61
Calendar year 1938	3,983	41	0	10.9	7,890
January	31	-	-	1.0	61
February	28	1	1	1.0	56
March	31	-	-	1.0	61
April	121	19	0	4.0	240
May	284.9	20	.9	9.19	565
June	555.0	23	.4	18.5	1,110
July	577	25	12	18.6	1,140
August	381.0	17	9.0	12.3	756
September	232.2	11	3.8	7.74	461
Water year 1938-39	2,734.1	25	0	7.49	5,430

*Computed from staff gage reading.

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, 1¼ 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 1939.

Average discharge.- 20 years (1913-14, 1919-22, 1923-39), 195 second-feet.

Extremes.- Maximum discharge observed during year, 460 second-feet Mar. 19 (gage height, 2.90 feet); minimum observed, 87 second-feet Sept. 14, 15 (gage height, 0.85 foot).
1913-15, 1919-39: Maximum discharge observed, 902 second-feet Apr. 3, 1913 (gage height, 6.1 feet, former site and datum); 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 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	121	151	147	151	145	143	249	210	224	192	100	102
2	121	151	147	149	138	143	249	210	220	192	102	102
3	121	147	153	147	140	142	216	202	222	188	100	104
4	121	151	151	147	143	143	224	202	224	206	100	102
5	121	164	151	151	145	145	220	198	224	206	100	106
6	115	160	151	151	145	145	204	194	230	210	100	106
7	121	159	151	151	145	145	196	190	228	196	100	106
8	121	160	155	147	143	147	190	182	224	188	100	95
9	124	160	159	143	143	147	190	194	220	180	99	92
10	124	160	155	145	143	149	190	202	216	196	93	92
11	124	160	155	145	143	153	190	204	212	190	99	93
12	124	160	151	145	143	160	188	240	214	194	93	117
13	124	151	149	145	145	160	188	222	210	192	100	113
14	124	149	147	145	147	157	194	222	210	196	102	87
15	126	149	143	145	151	160	226	226	206	196	102	87
16	124	153	145	145	151	164	194	230	218	184	99	104
17	132	151	145	145	147	204	196	226	220	184	99	104
18	136	153	147	145	143	310	196	226	222	184	95	104
19	136	151	147	145	143	460	196	224	210	159	97	106
20	136	149	147	145	145	388	196	224	198	124	99	102
21	136	147	145	145	143	240	196	224	198	116	99	102
22	134	145	147	145	140	258	196	224	178	111	97	102
23	134	142	147	147	140	276	198	230	170	106	99	102
24	134	147	147	145	142	294	200	228	170	108	102	106
25	136	147	147	145	143	285	192	230	170	108	102	109
26	136	147	147	143	143	285	196	230	168	100	102	117
27	136	143	147	143	145	258	192	230	170	104	102	119
28	134	140	147	146	146	249	192	228	188	106	102	115
29	134	140	147	147	-	240	192	226	188	108	102	106
30	136	140	147	147	-	230	214	222	188	108	102	106
31	151	-	147	145	-	258	-	224	-	108	104	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,997	151	115	129	7,930
November	4,527	164	140	151	8,980
December	4,611	159	143	149	9,150
Calendar year 1938	71,269	396	115	195	141,400
January	4,529	151	143	146	8,980
February	4,029	151	138	144	7,990
March	6,638	460	142	214	13,170
April	6,060	249	188	202	12,020
May	6,724	240	182	217	13,340
June	6,140	230	168	205	12,180
July	4,939	210	100	159	9,800
August	3,092	104	93	99.7	6,130
September	3,108	119	87	104	6,160
Water year 1938-39	58,394	460	87	160	115,800

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 1939. May 1897 to October 1899, at site 1 mile upstream.

Average discharge.- 26 years (1912-16, 1917-39), 252 second-feet.

Extremes.- Maximum discharge during year, 740 second-feet Mar. 23, 24; maximum gage height, 5.98 feet Mar. 24; minimum discharge, 32 second-feet Aug. 22, 23; minimum gage height, 2.29 feet June 8.

1897-99, 1911-39: Maximum discharge, more than 2,000 second-feet sometime during period May 13 to June 14, 1917; minimum, 14 second-feet July 4-11, 13, 17, 18, 1898.

Remarks.- Records good except those for periods of missing gage heights or ice effect, Oct. 15-19, 31, Nov. 1, 2, 26-28, Dec. 14-16, Jan. 27, Feb. 3-5, 9-17, 19-24, Feb. 26 to Mar. 7, which were computed on basis of weather records and records for nearby stations and are fair. Discharge interpolated Oct. 10-12, 21-23, 28, 29. Discharge Oct. 20, Feb. 18, 25 computed from once-daily staff-gage reading. Many diversions above station for irrigation. Flow regulated by reservoir near Chesterfield.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	275	250	290	260		584	322	49	58	85	56
2	94	275	250	290	260		572	322	48	55	90	62
3	101	270	260	280			549	290	52	57	81	63
4	102	290	270	280	260	250	560	260	52	58	79	71
5	105	322	270	290			560	233	52	58	79	62
6	108	311	280	290	270		538	239	41	62	76	65
7	114	300	290	280	250		504	300	40	65	74	85
8	118	300	300	260	239	248	493	223	40	59	68	110
9	121	311	332	270		246	482	166	47	56	68	108
10	123	311	342	270		248	471	126	59	56	55	97
11	124	300	332	280		260	449	111	58	46	62	89
12	126	290	322	280		270	438	124	54	48	67	95
13	127	290	300	280	240	300	438	126	53	52	59	108
14	129	300	280	280		322	438	108	48	50	58	124
15	175	290	280	270		342	449	101	46	39	54	135
16	250	280	280	280		353	460	100	50	37	49	127
17	250	300	280	270		384	438	102	57	37	49	118
18	250	311	280	280	248	449	416	94	77	49	52	107
19	250	300	280	280		538	416	90	90	45	48	100
20	246	300	280	270		642	406	89	90	40	46	110
21	240	300	280	270	250	702	416	82	85	41	44	102
22	234	290	290	270		728	416	84	80	45	36	100
23	228	280	290	260		740	416	85	79	52	36	97
24	222	290	290	260		740	438	95	76	47	39	94
25	227	270	290	270	270	728	460	107	70	42	43	98
26	225	260	290	260		715	438	98	57	39	47	104
27	225	250	280	260	260	690	416	97	59	40	49	98
28	221	240	280	270		678	384	89	64	38	56	93
29	216	240	290	260		630	353	84	63	45	64	88
30	212	246	290	260	-	618	322	76	59	47	59	86
31	275	-	290	270	-	595	-	62	-	71	57	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,533	275	94	178	10,970
November	8,592	311	240	236	17,040
December	8,918	342	250	288	17,690
Calendar year 1938	92,327	702	65	253	183,100
January	8,480	290	260	274	16,820
February	7,017	-	-	251	13,920
March	13,916	740	-	449	27,600
April	13,720	594	322	457	27,210
May	4,485	322	62	145	8,900
June	1,795	90	40	59.8	3,560
July	1,534	71	37	49.5	3,040
August	1,829	90	36	59.0	3,630
September	2,852	135	56	95.1	5,660
Water year 1938-39	78,671	740	36	216	156,000

Birch Creek near Downey, Idaho

Location.- Staff gage and wooden control, latitude, 42°21', longitude, 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. Datum was raised 0.160 foot and control changed July 20-25, 1939.

Records available.- September 1937 to September 1939. October 1911 to April 1913, and July 1913 to August 1914, at site about 1¼ miles upstream; records equivalent.

Extremes.- Maximum discharge observed during year, 15 second-feet May 3; maximum gage height observed, 1.28 feet May 3-5, former datum; minimum discharge observed, 5.7 second-feet Sept. 30 (gage height, 0.72 foot, present datum).

1912-14, 1938-39: Maximum discharge observed, 95 second-feet July 15, 1938, by area-velocity method from high-water mark at measuring section below station; minimum observed, 3.4 second-feet Dec. 24-27, 1913.

Remarks.- Records fair. Gage read twice daily except July 20-25. Discharge July 20-25 interpolated. Malad power plant, which has a small reservoir above station, may cause slight diurnal fluctuation. Water is diverted from Birch Creek half a mile below station and carried by intermountain canal to Devil Creek in Bear River Basin.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	8.4	7.5	7.1	6.8	6.6	10.0	14.0	8.0	6.9	8.2	7.2
2	7.8	7.8	7.5	7.1	6.6	6.6	11.0	14.0	7.8	7.3	8.0	7.2
3	7.8	8.0	7.5	7.1	6.6	6.6	11.0	14.0	8.0	6.9	8.2	7.2
4	7.8	8.0	7.6	7.1	6.6	6.6	11.0	14.0	7.8	7.1	8.0	7.2
5	8.0	7.6	7.6	7.1	6.6	6.6	11.0	14.0	7.6	7.5	8.0	7.2
6	8.0	7.6	7.6	6.9	6.6	6.6	11.0	14.0	8.0	7.3	8.0	7.2
7	7.8	7.6	7.6	6.9	6.6	6.6	11.0	13.0	8.0	6.9	8.0	7.4
8	8.0	7.6	7.6	6.8	6.6	6.6	11.0	11.0	7.6	6.9	8.0	7.4
9	8.5	7.8	7.5	6.8	6.6	6.6	11.0	10.0	8.0	6.9	8.0	7.2
10	8.2	7.8	7.5	6.8	6.6	6.6	10.0	9.8	8.0	6.8	8.0	7.2
11	7.8	7.6	7.3	6.8	6.6	6.6	10.0	9.8	7.8	6.8	8.0	7.2
12	7.6	7.6	7.3	6.8	6.6	6.6	10.0	9.4	7.6	6.9	8.0	7.8
13	7.6	7.6	7.3	6.8	6.6	6.6	10.0	9.4	7.5	6.9	8.0	7.4
14	7.6	7.8	7.5	6.8	6.2	6.6	11.0	9.4	7.3	6.9	8.0	7.2
15	8.2	7.6	7.5	6.8	6.8	6.6	11.0	9.1	7.5	6.9	8.0	7.2
16	8.5	7.6	7.1	6.8	6.6	6.6	10.0	9.1	7.6	6.9	7.8	7.2
17	8.4	7.6	7.1	6.8	6.6	6.6	10.0	8.9	7.8	6.9	7.8	7.2
18	8.0	7.6	7.1	6.8	6.6	6.9	10.0	8.9	7.8	6.9	7.8	7.2
19	7.5	7.6	7.1	6.8	6.6	7.3	10.0	8.9	7.6	6.9	7.6	7.0
20	7.6	7.6	7.1	6.6	6.6	7.8	10.0	8.7	7.6	7.0	7.8	6.9
21	7.6	7.6	7.1	6.6	6.6	7.8	11.0	8.4	7.5	7.0	7.8	6.7
22	7.6	7.3	7.1	6.6	6.6	8.4	11.0	8.4	7.5	7.1	7.6	6.9
23	7.6	7.3	6.9	6.6	6.6	8.7	12.0	8.4	7.3	7.2	7.4	7.0
24	7.6	7.6	6.9	6.6	6.6	9.3	12.0	8.4	7.3	7.3	7.6	6.9
25	7.6	7.6	6.9	6.6	6.6	9.6	12.0	8.0	7.1	7.3	7.2	7.0
26	7.6	7.6	6.9	6.6	6.6	9.8	12.0	8.0	6.9	7.4	7.4	7.2
27	7.6	7.6	6.9	6.6	6.6	9.4	12.0	8.0	6.9	7.6	7.2	7.2
28	7.6	7.6	6.9	6.9	6.6	9.4	12.0	7.6	6.9	7.6	7.4	7.2
29	7.6	7.6	6.9	6.9	-	9.6	12.0	7.8	7.1	7.8	7.4	7.2
30	8.0	7.3	7.1	6.9	-	9.8	13.0	7.8	6.9	8.2	7.4	6.5
31	8.5	-	6.9	6.8	-	9.8	-	7.8	-	8.0	7.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	243.4	8.5	7.5	7.85	483
November	229.5	8.4	7.3	7.65	455
December	224.4	7.6	6.9	7.24	445
Calendar year 1938	3,405.5	27	6.1	9.33	6,750
January	211.2	7.1	6.6	6.81	419
February	184.8	6.8	6.2	6.60	367
March	235.8	9.8	6.6	7.61	468
April	329	13	10	11.0	653
May	308.0	14	7.6	9.94	611
June	226.3	8.0	6.9	7.54	449
July	222.0	8.2	6.8	7.16	440
August	240.8	8.2	7.2	7.77	478
September	214.5	7.8	6.5	7.15	425
Water year 1938-39	2,869.7	14	6.2	7.86	5,690

North Side Minidoka canal near Minidoka, Idaho

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

Records available.- May 1909 to September 1939.

Extremes.- Maximum daily discharge during year, 1,670 second-feet Apr. 28 (gage height, 9.57 feet); no flow during winter.
1909-39: Maximum daily discharge, 1,680 second-feet July 14, 21-31, Aug. 1, 1938; maximum gage height, 9.90 feet July 11, 1932; no flow during winters.

Remarks.- Records excellent. Flow controlled by operation of head gates. Water used for irrigation of 62,000 acres of land under North Side Minidoka Project.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	953	314	212				73	1,470	1,500	1,600	1,320	1,150
2	953	314	212				125	1,500	1,500	1,610	1,270	1,120
3	901	314	212				199	1,500	1,470	1,610	1,300	1,120
4	802	312	214				275	1,580	1,420	1,600	1,330	1,130
5	728	312	214				278	1,610	1,400	1,520	1,360	1,120
6	701	312	214				342	1,610	1,390	1,440	1,360	1,120
7	701	311	214				447	1,610	1,340	1,440	1,350	1,150
8	488	311	214				500	1,620	1,310	1,440	1,300	1,150
9	328	311	214				500	1,610	1,280	1,440	1,310	1,120
10	330	310	214				593	1,610	1,220	1,500	1,330	1,120
11	331	310	214				751	1,610	1,190	1,580	1,420	1,110
12	334	308	215				815	1,580	1,190	1,610	1,520	1,030
13	333	308	216				824	1,510	1,220	1,600	1,540	890
14	330	306	135				757	1,560	1,310	1,600	1,540	749
15	330	305	0				701	1,610	1,330	1,540	1,540	749
16	328	304	0				713	1,620	1,270	1,500	1,540	749
17	326	302	0				764	1,620	1,090	1,500	1,540	747
18	326	301	0				837	1,620	1,010	1,500	1,540	747
19	322	299	0				955	1,580	953	1,560	1,540	745
20	318	299	0				1,070	1,510	905	1,600	1,540	743
21	316	302	0				1,190	1,510	960	1,610	1,540	741
22	314	304	0				1,320	1,500	1,080	1,610	1,540	738
23	314	248	0				1,390	1,400	1,180	1,610	1,510	736
24	311	216	0				1,390	1,340	1,320	1,610	1,480	730
25	311	216	0				1,460	1,330	1,360	1,610	1,480	728
26	311	216	0				1,530	1,360	1,440	1,600	1,410	760
27	311	215	0				1,620	1,440	1,510	1,600	1,310	783
28	312	214	0				1,670	1,450	1,580	1,600	1,310	795
29	312	214	0				1,650	1,490	1,600	1,560	1,310	815
30	312	214	0				1,560	1,500	1,600	1,470	1,310	766
31	314	-	0				-	1,500	-	1,430	1,250	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	13,601	953	311	439	26,980
November	8,522	314	214	284	16,900
December	2,914	216	0	94.0	5,780
Calendar year 1938	240,496	1,680	0	659	477,000
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	26,299	1,670	73	877	52,160
May	47,360	1,620	1,330	1,528	93,940
June	38,928	1,600	905	1,298	77,210
July	48,100	1,610	1,430	1,552	95,400
August	43,940	1,540	1,250	1,417	87,150
September	27,151	1,150	728	905	53,850
Water year 1938-39	256,815	1,670	0	704	509,400

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 1939.

Extremes.- Maximum discharge during year, 1,270 second-feet May 15-16, Aug. 22-23; no flow during winter.
1909-39: Maximum discharge, 1,350 second-feet July 19, 20, 23-25, 1938 (gage height, 5.90 feet); no flow during winters.

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

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	630	164					0	1,140	1,180	1,220	983	1,110
2	620	164					0	1,090	1,150	1,210	1,010	1,020
3	526	154					0	1,090	1,040	1,170	931	973
4	478	147					0	1,100	1,000	1,050	916	973
5	424	146					0	1,130	1,050	1,040	928	1,050
6	365	145					0	1,080	1,060	660	949	1,070
7	301	144					0	1,000	998	807	1,060	1,070
8	260	142					0	983	949	815	1,120	1,020
9	250	144					0	1,060	678	916	1,150	922
10	250	144					0	1,090	801	1,060	1,230	916
11	226	144					108	1,110	621	1,180	1,240	934
12	206	144					313	1,130	689	1,240	1,250	901
13	206	142					293	1,130	913	1,240	1,250	678
14	206	142					329	1,200	925	1,240	1,240	519
15	205	137					308	1,270	955	1,190	1,240	424
16	204	132					276	1,270	884	1,130	1,250	385
17	204	130					324	1,220	752	1,190	1,260	350
18	180	127					363	1,240	603	1,260	1,260	365
19	165	127					399	1,230	559	1,240	1,260	501
20	147	129					454	1,180	612	1,250	1,260	533
21	147	136					593	1,080	655	1,250	1,260	547
22	154	142					673	1,090	645	1,210	1,270	581
23	147	59					726	1,100	658	1,070	1,270	591
24	145	0					784	1,060	793	1,130	1,250	581
25	146	0					875	1,060	815	1,190	1,240	579
26	146	0					1,020	1,110	958	1,170	1,180	567
27	146	0					1,110	1,180	1,030	1,240	1,140	569
28	157	0					1,110	1,210	1,030	1,220	1,180	645
29	164	0					1,160	1,230	1,100	1,090	1,180	635
30	164	0					1,200	1,250	1,170	980	1,180	610
31	164	0					-	1,250	-	989	1,160	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,733	630	145	249	15,340
November	3,185	164	0	106	6,320
December	0	0	0	0	0
Calendar year 1938	172,806	1,350	0	473	342,800
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	12,420	1,200	0	414	24,630
May	35,363	1,270	983	1,141	70,140
June	26,853	1,180	559	895	53,260
July	34,847	1,260	807	1,124	69,120
August	36,097	1,270	916	1,164	71,600
September	21,619	1,110	350	721	42,880
Water year 1938-39	178,117	1,270	0	488	353,300

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 and March 1919 to September 1939.

Average discharge.- 16 years (1911-14, 1926-39), 39.6 second-feet.

Extremes.- Maximum discharge during year, 744 second-feet Mar. 18 (gage height, 5.47 feet), from rating curve extended logarithmically above 250 second-feet; minimum, 0.1 second-foot Aug. 22-24, 28, 30, 31, Sept. 1-12; minimum gage height, 1.00 foot Sept. 10, 11.

1911-16, 1919-39: Maximum discharge, that of March 18, 1939; maximum gage height (ice affected), 5.6 feet Feb. 21, 1927; no flow July 22 to Aug. 10, Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935.

Remarks.- Records good except those for period of ice effect or missing gage heights, Nov. 22 to Mar. 14, which were computed on basis of weather records and records for Trapper Creek and Oakley Reservoir near Oakley and are fair. Discharge interpolated Nov. 4-9, May 30 to June 4. Diversions above station for irrigation; flow of artesian well, completed in 1935, enters below. Practically entire flow passing station is stored in Oakley Reservoir. Gage-height record furnished by Oakley Canal Co.

Rating table, March 18 to Sept. 30 (gage height, in feet, and discharge, in second-feet)

1.0	0.1	1.9	23.1	2.8	112	3.7	264	4.6	480
1.3	2.1	2.2	45.5	3.1	156	4.0	329	4.9	567
1.6	8.8	2.5	76	3.4	207	4.3	401		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.6	23				22	134	87	21	6.6	12	0.1
2	5.9	24				22	138	89	20	4.9	8.0	.1
3	6.3	24				22	147	80	18	4.7	6.0	.1
4	6.3	24	*29			22	152	83	17	5.3	4.7	.1
5	6.6	24				22	152	77	15	5.1	4.0	.1
6	6.6	24				22	144	69	13	4.7	3.3	.1
7	6.9	24				22	140	68	12	4.0	2.6	.1
8	8.0	24				22	130	67	10	3.6	2.3	.1
9	10	24				22	126	65	11	3.8	2.0	.1
10	12	24				22	128	61	11	3.6	1.6	.1
11	12	24				25	126	54	11	3.3	1.4	.1
12	12	21				30	120	51	9.5	3.1	1.1	.1
13	12	19				60	115	47	8.2	2.6	1.0	.2
14	11	21				90	113	46	7.7	2.4	.8	.5
15	13	20				112	115	44	6.8	2.3	.6	.5
16	17	23				151	102	40	6.0	2.3	.5	.5
17	17	26				401	91	39	4.9	2.0	.3	.5
18	17	21				552	87	39	4.7	1.9	.2	.6
19	17	24				508	85	30	4.9	1.7	.2	.6
20	17	24				414	85	26	4.9	1.7	.2	.8
21	17	21				311	88	26	5.8	1.6	.2	.8
22	16	15				244	91	29	7.1	1.6	.1	1.1
23	14	15		*33		207	95	33	5.8	1.5	.1	.9
24	14	20				207	100	36	5.8	1.5	.1	1.1
25	14	20				207	104	35	7.4	1.4	.2	1.0
26	14	20				207	100	32	8.0	2.5	.2	1.0
27	15	20				205	88	30	6.8	2.0	.2	2.4
28	16	22				180	79	27	6.8	1.3	.1	4.5
29	15	23				150	77	26	8.2	1.4	.2	4.2
30	15	24				140	84	24	7.1	7.4	.1	4.5
31	19	-				134	-	23	-	8.2	.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	388.2	19	5.6	12.5	770
November	662	26	15	22.1	1,310
December	744	-	-	24.0	1,480
Calendar year 1938	15,315.9	233	3.2	42.0	30,380
January	713	-	-	23.0	1,410
February	616	-	-	22.0	1,220
March	4,755	552	22	153	9,430
April	3,336	152	77	111	6,620
May	1,483	89	23	47.8	2,940
June	285.4	21	4.7	9.51	566
July	100.0	8.2	1.3	3.23	198
August	54.4	12	.1	1.75	108
September	26.7	4.5	.1	.89	53
Water year 1938-39	13,163.7	552	.1	36.1	26,100

*Discharge measurement.

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 1939.

Extremes.- Maximum contents observed, 25,200 acre-feet Apr. 25 (gage height, 79.90 feet); minimum observed, 2,010 acre-feet Oct. 10 (gage height, 23,40 feet).
1913-39: 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 feet (bottom of diversion tunnel) and 136.0 feet (crest of spillway). Dead storage negligible. Water is used for irrigation of lands along Goose Creek in Oakley Canal Co. project. Figures given herein represent usable capacity. Gage read occasionally and contents shown on days observations were made. Gage-height record and capacity table furnished by Oakley Canal Co.

Capacity table (gage height, in feet, and contents, in acre-feet)
(Furnished by Oakley Canal Co)

23.4	2,014	30.0	3,450	45.0	8,025	60.0	14,125	75.0	22,100
24.0	2,125	35.0	4,820	50.0	9,900	65.0	16,600	80.0	25,240
25.0	2,320	40.0	6,320	55.0	11,930	70.0	19,340		

Contents, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,050	-	-	-	9,090	10,700	-	-	-	-	-	5,540
2	-	-	-	7,250	-	-	21,200	24,600	20,600	16,000	-	-
3	4,160	3,420	-	-	-	-	21,500	-	-	-	-	-
4	-	-	5,320	-	-	-	21,700	24,300	-	-	-	5,590
5	-	-	-	7,390	-	-	-	-	20,100	16,100	-	-
6	-	-	-	-	-	-	22,200	-	20,000	-	9,940	5,300
7	3,080	-	-	-	-	-	-	24,100	-	-	-	-
8	-	-	-	-	9,530	11,100	22,900	23,900	-	-	-	-
9	-	-	-	-	-	-	23,200	-	-	-	-	4,440
10	2,010	3,940	-	-	-	-	-	-	19,200	15,400	-	-
11	-	-	5,900	7,780	-	-	-	-	-	-	9,530	-
12	-	-	-	-	-	-	-	23,400	19,000	14,800	-	-
13	-	-	-	-	-	-	-	-	-	-	9,120	-
14	-	-	6,060	-	-	12,100	-	-	-	-	-	-
15	-	4,250	-	-	9,860	-	24,400	22,900	-	13,800	-	4,250
16	2,350	-	-	-	-	12,500	24,600	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	13,200	-	-
18	-	-	-	8,250	-	-	25,000	-	18,000	-	-	3,880
19	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	15,700	-	21,900	-	-	8,180	-
21	-	-	6,520	-	-	16,500	-	-	-	-	-	-
22	-	-	-	-	10,200	17,000	25,100	21,700	-	11,700	-	-
23	2,790	4,730	-	8,540	-	17,500	-	-	17,600	-	-	-
24	-	-	-	-	-	-	-	-	-	-	6,640	-
25	-	-	-	8,660	-	18,900	25,200	-	-	-	-	3,360
26	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	19,500	25,100	-	-	-	6,710	-
28	-	-	6,910	-	*10,600	-	-	-	-	11,300	-	-
29	-	-	-	-	-	20,100	-	21,100	-	-	6,350	-
30	3,130	5,070	-	-	-	-	24,900	-	-	-	-	-
31	-	-	-	-	-	20,600	-	-	-	10,800	-	-

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 and March 1919 to September 1939.

Average discharge.- 15 years (1911-12, 1913-14, 1926-39), 13.4 second-feet.

Extremes.- Maximum discharge during year, 59 second-feet Mar. 16 (gage height, 5.33 feet); minimum, 3.5 second-feet Nov. 22 (gage height, 4.67 feet).

1911-16, 1919-39: Maximum discharge recorded, 98 second-feet May 28, June 8, 1921 (a higher flow may have occured during cloudburst about midnight Aug. 15, 1931); minimum not determined, probably occurred during winter.

Remarks.- Records good except those for periods of missing gage heights, Feb. 9 to Mar. 13, Sept. 26-30 which were computed on basis of weather records and records for Goose Creek near Oakley, Salmon Falls Creek near San Jacinto, and Portneuf River at Pocatello and are fair. Discharge interpolated Mar. 22, Apr. 12-17, Aug. 30 to Sept. 3. 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. Gage-height record furnished by Oakley Canal Co.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.0	10	10	10	12	10	22	27	16	11	9.0	8.8
2	9.0	9.4	10	10	8.4	10	23	27	15	11	8.6	8.7
3	9.0	9.4	12	10	11	10	24	27	15	11	8.6	8.7
4	9.0	11	12	10	12	10	25	27	14	11	9.0	8.6
5	9.0	10	11	10	11	10	26	27	14	12	8.6	8.6
6	9.4	9.4	11	10	11	10	23	26	15	13	8.6	8.6
7	9.4	9.4	11	9.1	11	10	22	25	15	11	8.6	8.6
8	11	10	12	11	11	10	23	24	14	10	8.6	8.6
9	10	10	12	9.9	10	10	25	24	14	9.4	8.1	8.1
10	9.4	10	11	10	10	10	23	24	14	9.4	8.1	8.1
11	9.4	10	9.4	10	10	10	23	25	13	9.4	8.1	9.0
12	9.4	9.4	6.5	10	10	10	23	25	13	9.4	8.1	10
13	9.4	9.4	7.3	10	10	11	22	23	13	9.0	8.1	10
14	9.4	9.4	11	10	10	11	22	22	13	9.0	8.1	9.4
15	12	9.4	13	10	10	11	21	22	13	9.0	8.1	9.0
16	11	9.4	11	10	10	20	21	22	13	9.0	7.7	9.0
17	11	9.4	11	10	10	25	20	22	14	9.4	7.7	8.6
18	11	9.4	10	10	10	26	20	22	14	9.0	7.7	8.1
19	10	9.4	10	10	10	22	21	21	14	9.0	7.7	8.1
20	10	9.4	10	10	10	21	22	21	14	8.6	7.7	8.1
21	9.4	8.6	10	11	10	18	22	20	13	8.6	7.3	8.1
22	9.4	7.0	10	10	10	20	22	21	13	8.6	7.7	8.6
23	9.4	6.9	10	10	10	22	23	22	12	8.6	7.7	8.6
24	9.0	9.0	10	9.5	10	23	24	20	12	8.6	7.7	8.6
25	9.4	8.2	10	10	10	24	25	20	13	8.6	8.6	9.0
26	9.4	8.3	8.7	11	10	24	23	18	12	8.6	9.0	9.0
27	9.4	9.0	11	11	10	23	22	18	12	8.6	9.0	9.0
28	9.4	10	11	11	10	20	22	18	11	8.6	8.6	9.0
29	9.0	11	10	11	-	21	24	17	11	9.0	9.0	9.0
30	9.4	10	10	11	-	20	27	16	11	12	8.9	9.0
31	9.4	-	10	11	-	21	-	17	-	11	8.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	299.4	12	9.0	9.66	594
November	281.2	11	6.9	9.37	558
December	321.9	13	6.5	10.4	638
Calendar year 1938	5,091.1	42	6.5	13.9	10,100
January	316.5	11	9.1	10.2	628
February	287.4	12	8.4	10.3	570
March	503	26	10	16.2	998
April	684	27	20	22.8	1,360
May	690	27	16	22.3	1,370
June	400	16	11	13.3	793
July	300.4	13	8.6	9.69	596
August	257.2	9.0	7.3	8.30	510
September	262.6	10	8.1	8.75	521
Water year 1938-39	4,603.6	27	6.5	12.6	9,140

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 1939.

Extremes.- Maximum discharge during year, 60 second-feet on many days; no flow at times. 1919-39: Maximum discharge, 64 second-feet May 11-13, 1920, July 11-12, 19-29, 1932; no flow at times.

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

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0						0	60	60	60	59	59
2	0						0	60	60	60	59	59
3	0						0	60	60	60	59	59
4	0						0	60	60	60	59	59
5	0						0	60	60	60	59	59
6	0						0	60	60	60	59	59
7	0						0	60	54	60	59	59
8	0						0	60	40	60	60	59
9	0						0	60	60	60	60	59
10	0						0	60	60	60	60	59
11	0						0	60	60	59	60	59
12	0						0	60	60	59	60	59
13	0						0	60	60	59	60	60
14	0						0	60	60	59	60	60
15	0						0	60	60	59	60	60
16	0						0	60	60	59	60	60
17	0						0	60	60	59	60	60
18	0						0	60	60	59	60	60
19	10						0	60	60	59	60	60
20	18						20	60	60	59	60	15
21	10						26	60	60	59	60	0
22	0						40	60	60	59	60	0
23	0						47	60	60	59	60	0
24	0						51	60	60	59	60	0
25	0						53	60	60	59	60	0
26	0						55	60	60	59	60	0
27	0						60	60	60	59	59	0
28	0						60	60	60	59	59	0
29	e						60	60	60	59	59	0
30	0						60	60	60	59	59	0
31	0						-	60	-	59	59	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	38	18	0	1.23	75
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1938	8,939	62	0	24.5	17,720
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	532	60	0	17.7	1,060
May	1,860	60	60	60.0	3,690
June	1,774	60	40	59.1	3,520
July	1,839	60	59	59.3	3,650
August	1,848	60	59	59.6	3,660
September	1,143	60	0	38.1	2,270
Water year 1938-39	9,034	60	0	24.8	17,920

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 1939.

Extremes.- Maximum discharge during year, 166 second-feet Aug. 10, 25-30; no flow at times.

1921-39: Maximum discharge, 174 second-feet July 7, 1936 (gage height, 3.67 feet); no flow at times.

Remarks.- Records good. Flow controlled by operation of pumping plant, which lifts water from Snake River above Milner Dam for irrigation of 8,000 acres of land in Milner low-lift irrigation district.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	102	151	150	163	123
2							0	125	152	160	162	123
3							0	154	152	159	163	123
4							0	151	153	160	163	123
5							0	152	153	161	164	123
6							0	156	153	161	163	123
7							0	157	153	162	162	123
8							0	154	152	161	163	123
9							0	152	152	162	162	123
10							0	151	150	160	166	123
11							0	148	149	162	165	123
12							15	150	148	162	162	123
13							26	150	148	123	163	123
14							9	150	148	151	165	123
15							0	150	147	160	165	123
16							23	150	137	124	165	124
17							51	150	135	157	165	124
18							52	144	124	165	165	124
19							71	150	123	164	165	124
20							87	150	124	164	165	124
21							100	150	123	164	164	123
22							100	160	123	164	163	123
23							100	150	123	164	164	123
24							102	151	123	164	165	123
25							102	150	142	164	166	123
26							102	150	148	164	166	123
27							102	160	147	165	166	123
28							93	150	145	164	166	123
29							51	151	145	162	166	123
30							102	151	146	162	166	123
31							-	151	-	162	152	-

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 1938	20,104	170	0	55.1	39,870
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	1,288	102	0	42.9	2,550
May	4,600	157	102	148	9,120
June	4,269	153	123	142	8,470
July	4,927	165	123	159	9,770
August	5,080	166	152	164	10,080
September	3,695	124	123	123	7,330
Water year 1938-39	23,859	166	0	65.4	47,320

Gooding canal at Milner, Idaho

Location.- Water-stage recorder on Milner-Gooding canal in SW¼ sec. 7 and staff gages on 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 1939.

Extremes.- Maximum discharge during year, 2,310 second-feet Aug. 2-4; no flow at times. 1930-39: Maximum discharge, that of Aug. 2-4; no flow at times.

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 during 1939 was computed by combining discharge of Milner-Gooding diversion and that of North Side Canal Co. diversions below their division point and adding 25 to 70 second-feet to that sum for loss between head gates and division point.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	940	0					0	2,080	1,980	2,030	2,300	1,700
2	844	0					0	2,080	1,990	2,130	2,310	1,620
3	791	0					0	2,080	1,980	2,140	2,310	1,630
4	867	0					0	2,080	1,970	2,170	2,310	1,630
5	867	0					0	2,070	1,970	2,220	2,270	1,620
6	872	0					0	2,070	1,970	2,230	2,130	1,600
7	867	0					0	2,050	1,970	2,230	2,150	1,600
8	861	0					0	2,080	1,970	2,220	2,150	1,590
9	856	0					0	2,080	1,960	2,230	2,150	1,570
10	801	0					407	2,080	1,970	2,230	2,150	1,570
11	806	0					718	2,080	1,970	2,230	2,140	1,570
12	789	0					890	2,100	1,970	2,230	2,140	1,570
13	388	0					1,040	2,090	1,970	2,230	2,130	1,570
14	0	0					1,050	2,090	1,960	2,230	2,130	1,560
15	0	95					1,050	2,060	1,950	2,230	2,140	1,530
16	0	455					1,050	2,040	1,970	2,230	2,160	1,530
17	0	438					1,050	2,050	1,950	2,230	2,150	1,520
18	0	456					1,060	2,060	1,970	2,230	2,180	1,510
19	0	465					1,050	2,040	1,980	2,230	2,180	1,500
20	0	196					1,160	2,040	1,970	2,230	2,170	1,490
21	0	0					1,290	2,030	1,950	2,230	2,170	1,460
22	0	0					1,290	2,010	1,950	2,230	2,180	1,490
23	0	0					1,330	2,010	1,940	2,230	2,170	1,490
24	0	0					1,420	2,010	1,960	2,230	2,170	1,290
25	0	0					1,450	1,990	1,980	2,230	2,170	1,190
26	0	0					1,600	1,990	2,000	2,230	2,170	1,190
27	0	0					1,620	2,000	2,000	2,230	2,180	1,190
28	0	0					1,670	2,000	2,000	2,230	2,170	1,180
29	0	0					1,740	2,000	1,990	2,230	2,160	1,120
30	0	0					1,860	1,980	1,980	2,230	2,030	740
31	0	-					-	1,980	-	2,230	1,810	-

Month	Gooding canal					Distribution (acre-feet)	
	Second-foot-days	Maximum	Minimum	Mean	Acre-feet	To Milner-Gooding project	To North Side Canal Co. project
October	10,549	940	0	340	20,920	0	20,920
November	2,105	465	0	70.2	4,180	4,180	0
December	0	0	0	0	0	0	0
Calendar year 1938	318,189	2,300	0	872	631,140	319,530	311,610
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	25,795	1,860	0	860	51,160	31,440	19,720
May	63,400	2,100	1,980	2,045	125,750	75,710	50,040
June	59,140	2,000	1,940	1,971	117,300	69,120	48,180
July	69,220	2,290	2,080	2,233	137,300	79,360	57,940
August	67,130	2,310	1,810	2,165	133,150	75,070	58,080
September	43,820	1,700	740	1,461	86,920	52,880	34,040
Water year 1938-39	341,159	2,310	0	935	676,680	387,760	288,920

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 1939.

Extremes.- Maximum daily discharge during year, 2,620 second-feet July 29 (gage height, 7.88 feet); no flow Oct. 1-12, Sept. 25-30.

1909-39: Maximum daily discharge, 3,200 second-feet July 5-7, 29-31, 1921, May 15, 1928, June 2, July 23, 1929; no flow at times when head gates were closed.

Remarks.- Records excellent. Discharge for periods of ice effect, Feb. 1-3, 7-13, 19, 20, computed on basis of observer's notes. Flow controlled by operation of 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 170,000 acres of land under the North Side Canal Co. system.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	614	406	421	391	391	391	2,460	2,530	2,420	2,590	1,770
2	0	608	403	418	391	391	391	2,480	2,530	2,420	2,590	1,860
3	0	621	409	415	391	391	305	2,470	2,530	2,490	2,580	1,830
4	0	595	391	415	394	394	271	2,420	2,520	2,500	2,570	1,820
5	0	595	379	415	394	394	276	2,420	2,540	2,490	2,570	1,790
6	0	595	424	418	394	397	346	2,430	2,550	2,490	2,510	1,770
7	0	601	439	412	394	394	529	2,470	2,540	2,490	2,490	1,770
8	0	582	442	406	394	385	644	2,490	2,520	2,440	2,520	1,730
9	0	569	433	409	394	391	1,280	2,490	2,500	2,430	2,580	1,710
10	0	575	436	400	394	394	1,270	2,520	2,490	2,420	2,580	1,720
11	0	569	436	394	394	397	908	2,540	2,490	2,460	2,540	1,730
12	0	563	424	394	394	394	853	2,540	2,500	2,550	2,530	1,740
13	524	569	415	394	394	391	842	2,530	2,480	2,550	2,530	1,700
14	799	556	409	391	394	391	850	2,540	2,450	2,540	2,570	1,630
15	756	547	415	391	394	391	853	2,550	2,450	2,510	2,580	1,610
16	745	553	433	391	394	394	926	2,530	2,450	2,530	2,560	1,560
17	714	518	442	388	391	391	998	2,550	2,380	2,580	2,550	1,550
18	700	534	433	400	391	391	1,170	2,550	2,290	2,560	2,560	1,470
19	703	556	421	400	391	391	1,400	2,520	2,270	2,550	2,540	1,380
20	734	543	418	400	391	391	1,580	2,520	2,230	2,580	2,520	1,350
21	724	566	418	394	391	391	1,600	2,510	2,280	2,610	2,520	1,300
22	559	543	415	385	391	391	1,780	2,500	2,320	2,560	2,550	1,280
23	172	531	418	388	391	391	2,040	2,520	2,360	2,550	2,520	1,260
24	129	512	418	388	394	388	2,140	2,530	2,370	2,540	2,490	364
25	133	500	412	391	388	424	2,110	2,540	2,380	2,540	2,480	0
26	129	460	415	385	391	439	2,160	2,550	2,450	2,540	2,510	0
27	459	394	424	391	391	457	2,260	2,530	2,460	2,540	2,530	0
28	621	355	415	391	391	494	2,400	2,530	2,460	2,580	2,490	0
29	614	340	412	391	-	490	2,410	2,530	2,460	2,620	2,440	0
30	614	373	412	391	-	424	2,430	2,540	2,450	2,580	2,180	0
31	611	-	421	394	-	403	-	2,530	-	2,570	1,680	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,440	799	0	337	20,710
November	16,037	621	340	535	31,810
December	12,988	442	379	419	25,760
Calendar year 1938	435,897	2,790	0	1,194	864,600
January	12,361	421	385	399	24,520
February	10,987	394	388	392	21,790
March	12,536	494	385	404	24,860
April	37,413	2,430	271	1,247	74,210
May	77,830	2,550	2,420	2,511	154,400
June	73,230	2,550	2,230	2,441	145,200
July	78,230	2,620	2,420	2,524	155,200
August	77,450	2,590	1,680	2,498	153,600
September	37,694	1,860	0	1,256	74,760
Water year 1938-39	457,196	2 620	0	1,252	906,800

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 1939.

Extremes.- Maximum discharge during year, 3,620 second-feet Aug. 21-23 (gage height, 10.29 feet); minimum, 15 second-feet (estimated) Nov. 15.

1909-39: Maximum 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; no flow Sept. 20, 1920.

Remarks.- Records excellent except those for periods when head gates were closed, Oct. 21-25, Oct. 31 to Nov. 2, Nov. 10-15, March 28-29, which were estimated by observer and are fair. Discharge for periods of ice effect, Dec. 12-15, Jan. 1-23, 31, Feb. 1-28, Mar. 1, 5, computed on basis of flow through rated head gates. Flow controlled by operation of head gates. South Side Twin Falls canal diverts water from Snake River at Milner Dam for irrigation of 202,000 acres of land in Twin Falls County.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,220	25	619	594	544	580	752	3,260	3,400	3,440	3,560	3,500
2	2,210	25	610	590	533	559	793	3,320	3,400	3,460	3,560	3,480
3	2,120	370	622	582	567	559	933	3,380	3,400	3,470	3,560	3,500
4	2,050	622	610	586	578	577	1,040	3,390	3,400	3,470	3,570	3,480
5	1,940	913	619	592	574	589	1,160	3,390	3,400	3,470	3,580	2,240
6	1,880	958	622	597	575	568	1,280	3,390	3,400	3,460	3,590	3,070
7	1,790	947	616	595	565	556	1,320	3,400	3,400	3,460	3,590	3,340
8	1,600	816	616	579	571	553	1,320	3,400	3,380	3,450	3,590	3,250
9	1,520	260	622	584	465	553	1,400	3,380	3,360	3,460	3,590	3,360
10	1,360	20	625	587	505	559	1,460	3,360	3,360	3,450	3,600	3,320
11	1,290	20	616	583	543	562	1,520	3,360	3,350	3,480	3,590	3,320
12	1,290	20	613	587	555	559	1,830	3,380	3,310	3,480	3,590	3,030
13	1,220	20	610	582	554	562	2,080	3,360	3,260	3,480	3,590	2,780
14	1,180	20	607	583	563	565	2,070	3,370	3,250	3,480	3,590	2,670
15	1,120	15	604	584	553	556	1,880	3,370	3,240	3,490	3,580	1,890
16	1,090	597	601	579	566	571	1,880	3,360	3,240	3,490	3,590	2,360
17	958	1,290	598	559	580	562	1,910	3,370	3,180	3,510	3,590	2,260
18	748	1,100	595	584	588	556	2,090	3,380	3,170	3,500	3,590	2,000
19	678	816	569	587	583	553	2,350	3,360	3,080	3,490	3,610	1,960
20	357	601	592	589	582	553	2,570	3,380	3,000	3,490	3,610	1,960
21	28	601	595	595	584	553	2,680	3,390	2,970	3,500	3,620	1,970
22	25	607	598	592	592	553	2,820	3,400	2,970	3,500	3,620	1,960
23	25	604	595	565	593	553	2,920	3,410	3,050	3,500	3,620	1,970
24	25	610	595	583	592	553	3,130	3,410	3,180	3,530	3,610	1,970
25	25	604	598	592	585	589	3,380	3,410	3,320	3,550	3,590	1,960
26	1,070	604	595	585	590	613	3,410	3,420	3,430	3,550	3,590	1,910
27	1,070	616	595	598	592	421	3,340	3,410	3,400	3,510	3,590	1,870
28	622	619	595	585	568	25	3,300	3,390	3,400	3,530	3,590	1,870
29	619	619	595	588	-	25	3,370	3,380	3,400	3,550	3,590	1,870
30	196	622	595	586	-	104	3,430	3,400	3,400	3,550	3,570	1,810
31	25	-	595	578	-	587	-	3,400	-	3,550	3,530	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	32,351	2,220	25	1,044	64,170
November	15,561	1,290	15	519	30,860
December	18,757	625	589	605	37,200
Calendar year 1938	619,354	3,530	15	1,697	1,229,000
January	18,150	598	559	585	36,000
February	15,840	593	465	566	31,420
March	15,828	613	25	511	31,390
April	63,418	3,430	752	2,114	125,800
May	104,780	3,420	3,260	3,380	207,800
June	98,500	3,430	2,970	3,283	195,400
July	108,300	3,550	3,440	3,494	214,800
August	111,240	3,620	3,530	3,588	220,600
September	75,930	3,500	1,810	2,531	150,600
Water year 1938-39	678,655	3,620	15	1,859	1,346,000

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Rock Creek near Rock Creek, Idaho

Location.- Staff gage, lat. 42°22', long. 114°18', in NW¼ sec. 25, T. 12 S., R. 18 E., at south end of C.C.C. Camp F-402, 0.1 mile downstream from road bridge, ¾ mile downstream from West Fork of Rock Creek, 5 miles south of Rock Creek settlement, and 12 miles south of Hansen.

Records available.- November 1938 to July 1939 (discontinued). November 1909 to August 1913 at site 2 miles downstream; records equivalent except for small inflow in recent years from artesian wells.

Extremes.- Maximum discharge observed during period of record, 89 second-feet Apr. 30, May 1 (gage height, 1.84 feet); minimum, 5.2 second-feet July 21 (gage height, 0.54 foot).

Remarks.- Records good except those for period of missing gage heights, June 2-5, (computed on basis of records for nearby streams), and July 9-20 (interpolated), which are fair. Gage read once daily. Small ranch diversion above station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	9.8	11	11	10	73	89	20	8.6		
2		-	11	11	10	11	73	85	20	8.6		
3		-	15	11	10	11	77	81	20	8.6		
4		-	13	11	10	11	81	81	20	9.4		
5		-	14	11	9.4	10	77	81	20	12		
6		-	13	9.8	8.6	11	73	81	22	10		
7		-	15	11	8.6	10	73	77	19	8.6		
8		-	15	11	9.4	9.4	69	69	20	8.6		
9		-	16	11	8.6	10	77	65	19	8.3		
10		-	15	11	8.6	10	73	62	18	8.1		
11		-	13	11	8.6	11	69	62	16	7.8		
12		-	13	9.4	9.4	11	65	58	16	7.6		
13		-	13	9.4	9.4	12	65	57	15	7.3		
14		-	14	9.4	9.4	24	62	53	14	7.0		
15		-	15	10	10	24	58	50	14	6.8		
16		-	13	11	10	26	55	50	16	6.5		
17		-	13	13	9.4	25	53	46	16	6.2		
18		-	13	10	9.4	25	59	47	16	6.0		
19		-	12	9.4	9.4	28	62	44	16	5.7		
20		-	12	9.4	10	40	65	41	19	5.5		
21		-	13	9.4	11	44	73	40	14	5.2		
22		-	13	10	10	50	77	39	14	-		
23		7.0	12	9.4	10	57	81	40	13	-		
24		9.4	12	10	9.4	69	81	39	12	-		
25		11	13	9.4	10	73	77	34	12	-		
26		10	13	10	10	77	69	33	12	-		
27		8.6	12	10	9.4	81	73	33	12	-		
28		9.4	12	10	9.4	69	69	34	10	-		
29		9.8	12	11	-	65	73	28	10	-		
30		11	12	12	-	65	89	25	9.4	-		
31		-	12	11	-	65	-	23	-	-		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November (23-30)	76.2	11	7.0	9.52	151
December	403.8	16	9.8	13.0	801
Calendar year	-	-	-	-	-
January	323.0	13	9.4	10.4	641
February	268.4	11	8.6	9.59	532
March	1,044.4	81	9.4	33.7	2,070
April	2,121	89	53	70.7	4,210
May	1,647	89	23	53.1	3,270
June	474.4	22	9.4	15.8	941
July (1-21)	162.4	12	5.2	7.73	322
August	-	-	-	-	-
September	-	-	-	-	-
The period	-	-	-	-	12,940

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 Twin Falls.

Records available.- March 1922 to September 1939.

Average discharge.- 17 years, 213 second-feet.

Extremes.- Maximum discharge during year, 436 second-feet Oct. 12 (gage height, 3.14 feet); minimum, 132 second-feet Mar. 29, 30 (gage height, 2.00 feet).
1922-39: Maximum discharge, 984 second-feet Sept. 21, 1927 (gage height, 4.5 feet, former datum, from floodmarks); minimum, 94 second-feet Mar. 22, Apr. 1-3, 11, 12, 1935.

Remarks.- Records good. Discharge for Sept. 3 interpolated. Practically all normal summer flow diverted several miles upstream for irrigation. Waste water from South Side Twin Falls low-line canal, which crosses Rock Creek 12 miles upstream from station, causes abrupt fluctuations in stage at times. Irrigation wastes and drain discharges from project lands enter above gage.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	260	343	169	166	233	152	136	258	188	190	243	140
2	272	210	173	169	314	166	136	217	186	192	240	139
3	282	175	192	171	311	166	136	173	186	201	243	194
4	275	177	179	164	269	155	138	169	194	207	238	249
5	275	173	175	169	258	144	138	162	196	236	235	238
6	275	168	175	164	263	148	142	168	199	237	235	199
7	322	186	173	157	269	148	206	179	203	230	235	255
8	350	210	173	159	294	154	169	186	208	222	235	258
9	339	210	173	155	272	162	184	177	217	220	217	258
10	318	208	173	157	272	173	225	177	212	217	206	260
11	260	199	160	159	275	168	243	157	225	206	201	272
12	294	188	154	162	235	169	173	160	238	208	203	275
13	249	190	155	164	230	173	199	157	230	208	201	269
14	246	186	173	177	233	166	252	166	210	215	201	266
15	260	166	184	186	215	166	358	169	210	196	201	252
16	258	188	173	188	186	166	291	168	225	207	201	272
17	278	181	173	173	184	164	233	168	243	208	208	263
18	252	179	173	173	173	166	196	192	249	210	199	263
19	238	186	175	179	168	168	152	186	252	207	199	255
20	233	186	175	201	152	169	152	184	246	207	203	275
21	238	177	171	194	159	173	148	194	230	208	203	252
22	240	177	166	196	159	181	168	203	222	215	196	246
23	238	169	162	192	164	192	179	203	215	215	208	243
24	230	173	166	222	166	181	181	206	212	215	206	252
25	212	201	166	235	166	184	184	203	201	215	210	258
26	188	199	154	217	159	171	169	199	208	217	217	252
27	184	190	166	233	157	168	149	192	206	222	220	252
28	188	188	177	210	162	152	194	188	196	246	227	243
29	208	179	164	196	-	135	199	186	192	282	215	249
30	212	171	162	203	-	138	222	181	188	263	188	246
31	212	-	162	201	-	138	-	190	-	247	154	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,886	350	184	254	15,640
November	5,753	343	168	192	11,410
December	5,266	192	154	170	10,440
Calendar year 1938	71,051	350	114	195	140,900
January	5,692	235	155	184	11,290
February	6,098	314	152	218	12,100
March	5,056	192	135	163	10,030
April	5,652	358	136	188	11,210
May	5,718	258	157	184	11,340
June	6,387	252	186	213	12,670
July	6,744	282	190	218	13,380
August	6,588	243	154	213	13,070
September	7,345	275	139	245	14,570
Water year 1938-39	74,185	358	135	203	147,200

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 and October 1918 to September 1939.

Average discharge.- 25 years (1910-16, 1919-20, 1921-39), 121 second-feet.

Extremes.- Maximum discharge during year, 1,760 second-feet Mar. 18 (gage height, 9.23 feet); minimum, 10 second-feet Aug. 19 (gage height, 2.26 feet).
1909-16, 1919-39: Maximum discharge, that of Mar. 18, 1939; minimum, 9.8 second-feet Aug. 4, 1931; minimum gage height, 2.20 feet Sept. 7, 1934.

Remarks.- Records good except those for periods of missing or incomplete gage-height record, Dec. 6 to Jan. 8, Jan. 10-25, May. 7-17, Sept. 14-30, which were computed on basis of weather records and records for Salmon River Canal Co. Reservoir and are fair. (This reservoir, which has a capacity of 180,000 acre-feet is formed 15 miles below station by Salmon Dam of Salmon River Canal Co.) Discharge interpolated Apr. 14. Many diversions above station for irrigation. Gage-height record furnished by Salmon River Canal Co.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	58	62		60	59	482	325	106	29	13	17
2	27	59	64		44	65	508	340	102	28	14	16
3	28	56	64		56	61	549	342	98	24	12	16
4	28	59	64		65	60	562	328	90	24	12	15
5	29	60	66	65	59	53	562	308	85	24	12	15
6	37	59			65	52	549	303	82	33	12	15
7	39	58			59	55	536	301	79	26	11	15
8	46	58			61	55	495	284	78	25	14	15
9	48	59		67	56	55	468	267	78	23	12	15
10	49	62			55	55	468	256	73	23	12	14
11	49	65			61	55	455	277	70	22	12	14
12	48	56			64	60	429	253	68	22	12	16
13	49	61			62	70	403	253	64	21	12	12
14	51	59			64	100	379	242	53	20	12	
15	52	64			65	125	355	219	50	19	12	
16	53	65			55	150	335	203	48	19	12	
17	56	66		65	53	900	308	197	48	17	11	
18	56	67			62	1,400	289	195	46	18	11	
19	55	65	65		66	1,220	281	197	46	17	11	
20	54	65			54	861	284	199	51	16	11	
21	53	61			52	760	291	184	51	16	11	15
22	53	46			59	674	301	180	48	12	12	
23	52	48			65	646	325	186	46	12	13	
24	52	54			65	688	342	197	46	12	16	
25	51	52			65	730	365	188	46	12	16	
26	52	51		69	60	730	352	172	44	12	17	
27	51	54		69	51	702	322	148	42	12	17	
28	51	55		61	61	618	296	134	38	12	18	
29	51	60		58	-	549	284	121	36	13	18	
30	50	60		67	-	508	301	116	33	13	19	
31	54	-		59	-	482	-	106	-	13	18	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,449	56	25	46.7	2,870
November	1,762	67	46	58.7	3,490
December	2,010	-	-	64.8	3,990
Calendar year 1938	53,254	789	18	146	105,600
January	2,010	-	-	64.8	3,990
February	1,664	66	44	59.4	3,300
March	12,598	1,400	52	406	24,990
April	11,876	562	281	396	23,560
May	7,021	342	106	226	13,930
June	1,845	106	33	61.5	3,660
July	589	33	12	19.0	1,170
August	415	19	11	13.4	823
September	450	-	12	15.0	893
Water year 1938-39	43,689	1,400	11	120	86,670

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. Zero of gage is 4,990.0 feet above mean sea level (surveys of Salmon River Canal Co.)

Records available.- January 1922 to September 1939.

Extremes.- Maximum contents observed, 63,460 acre-feet May 9 (gage height, 37.1 feet); minimum contents, 3,850 acre-feet Sept. 14-30 (gage height, 3.0 feet).

1922-39: Maximum contents, 123,700 acre-feet May 30, 31, 1922 (gage height, 61.1 feet); minimum, 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. Gage-height record and capacity table furnished by Salmon River Canal Co. Ltd.

Capacity table (gage height, in feet, and contents, in acre-feet)
(Furnished by Salmon River Canal Co.)

0	0	14	19,900	40	69,850
2	2,500	18	26,600	45	81,450
4	5,200	22	33,550	50	93,800
6	8,010	26	40,950	55	106,850
8	10,910	30	48,800	60	120,650
10	13,800	35	58,950	65	134,950

Contents, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,695	8,518	9,895	13,290	15,450	17,550	40,210	59,600	50,400	30,760	16,280	5,268
2	6,550	8,590	9,968	13,360	15,520	17,620	40,950	60,240	49,800	30,760	15,450	5,200
3	6,550	8,662	10,040	13,440	15,600	17,620	41,780	60,780	49,200	30,680	14,550	5,200
4	6,550	8,735	10,330	13,440	15,680	17,700	42,800	61,320	48,600	30,680	13,730	5,200
5	6,550	8,808	10,400	13,510	15,750	17,850	43,800	61,740	48,100	30,680	12,930	5,200
6	6,550	8,880	10,550	13,510	15,820	17,920	44,800	62,180	47,400	30,680	12,070	5,065
7	6,550	8,952	10,620	13,510	15,900	18,000	45,800	62,600	46,800	30,680	11,200	5,065
8	6,695	9,025	10,690	13,660	15,980	18,080	46,800	63,040	46,100	30,680	10,760	5,065
9	6,840	9,170	10,910	13,800	16,120	18,150	47,600	63,460	45,400	30,680	10,760	5,065
10	6,840	9,242	11,060	13,800	16,200	18,300	48,400	62,930	44,800	30,510	10,620	4,930
11	6,840	9,315	11,200	13,880	16,200	18,380	49,100	62,600	44,100	30,340	10,620	4,795
12	6,995	9,388	11,340	13,950	16,280	18,540	49,900	62,280	43,400	29,490	9,750	4,458
13	6,995	9,460	11,490	14,020	16,350	18,620	50,600	61,740	42,800	28,640	8,880	4,052
14	7,068	9,605	11,560	14,100	16,420	18,780	51,200	61,320	42,240	27,790	8,010	3,850
15	7,140	9,605	11,640	14,180	16,500	18,940	51,800	60,880	41,690	26,770	7,285	3,850
16	7,285	9,678	11,710	14,320	16,650	19,100	52,400	60,240	40,950	25,580	6,550	3,850
17	7,430	9,750	11,780	14,400	16,800	19,260	53,000	59,810	40,400	24,560	6,145	3,850
18	7,430	9,822	11,850	14,400	16,800	20,220	53,600	58,950	39,750	23,370	5,740	3,850
19	7,430	9,460	11,920	14,480	16,800	22,350	54,000	58,300	39,280	22,350	5,605	3,850
20	7,430	9,242	12,070	14,550	16,800	24,900	54,200	57,660	38,820	21,260	5,470	3,850
21	7,575	9,315	12,140	14,700	16,800	26,770	54,600	57,020	38,360	20,380	5,470	3,850
22	7,720	9,388	12,280	14,780	16,950	28,300	55,200	56,200	37,620	19,420	5,470	3,850
23	7,720	9,460	12,350	14,850	17,020	29,660	55,600	55,600	37,060	18,620	5,402	3,850
24	7,865	9,460	12,420	14,920	17,100	30,850	56,000	55,000	36,510	18,150	5,335	3,850
25	8,010	9,460	12,500	15,000	17,250	32,070	56,400	54,400	35,860	18,150	5,335	3,850
26	8,010	9,532	12,570	15,000	17,250	33,550	57,020	54,000	35,220	18,150	5,335	3,850
27	8,155	9,605	12,640	15,080	17,400	34,840	57,660	53,500	34,290	18,000	5,335	3,850
28	8,155	9,605	12,780	15,150	17,550	36,140	58,520	53,000	33,360	18,000	5,200	3,850
29	8,228	9,750	12,860	15,220	-	37,250	58,950	52,400	32,350	18,000	5,268	3,850
30	8,300	9,822	13,000	15,300	-	38,360	59,160	51,800	31,280	18,000	5,268	3,850
31	8,372	-	13,150	15,380	-	39,280	-	51,200	-	17,100	5,268	-

Monthly gage height and contents, water year October 1938 to September 1939

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	5.10	6,695	-
Oct. 31	6.25	8,372	+1,677
Nov. 30	7.25	9,822	+1,450
Dec. 31	9.55	13,150	+3,328
Calendar year 1938	-	-	+5,865
Jan. 31	11.05	15,380	+2,230
Feb. 28	12.50	17,550	+2,170
Mar. 31	25.10	39,280	+21,730
Apr. 30	35.10	59,160	+19,880
May 31	31.20	51,200	-7,960
June 30	20.75	31,280	-19,920
July 31	12.20	17,100	-14,180
Aug. 31	4.05	5,268	-11,832
Sept. 30	3.00	3,850	-1,418
Water year 1938-39	-	-	-2,845

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 1939.

Extremes.- Maximum discharge during year, 522 second-feet June 29 (gage height, 6.87 feet); no flow during long periods.
1937-39: Maximum discharge, 577 second-feet July 17, 1938 (gage height, 7.34 feet); no flow during long periods in each year.

Remarks.- Records good. Canal diverts from Salmon River Canal Co. Reservoir for irrigation of lands of Salmon River Canal Co. project. Gage-height record and results of four discharge measurements furnished by Salmon River Canal Co.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0						0	383	0	423	0
2		0						0	363	0	413	0
3		0						0	343	0	403	0
4		0						0	333	0	393	0
5		0						0	323	0	383	0
6		0						0	363	0	363	0
7		0						0	363	0	302	0
8		0						0	363	0	0	0
9		0						289	353	46	0	0
10		0						383	333	66	0	0
11		0						383	323	327	319	144
12		0						393	333	403	403	154
13		0						403	323	434	373	104
14		0						434	323	478	343	0
15		0						445	313	489	303	0
16		0						467	313	511	226	0
17		0						467	293	511	182	0
18		162						489	275	500	54	0
19		194						478	257	478	37	0
20		47						478	248	467	0	0
21		0						478	266	445	0	0
22		0						478	284	383	0	0
23		0						456	303	305	0	0
24		0						423	333	0	0	0
25		0						403	363	0	0	0
26		0						383	413	0	0	0
27		0						363	456	0	0	0
28		0						363	489	0	0	0
29		0						373	511	0	0	0
30		0						383	408	296	0	0
31		-						393	-	413	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	403	194	0	13.4	799
December	0	0	0	0	0
Calendar year 1938	38,304	577	0	105	75,980
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	9,605	489	0	310	19,050
June	10,347	511	248	345	20,520
July	6,552	511	0	211	13,000
August	4,920	423	0	159	9,760
September	402	154	0	13.4	797
Water year 1938-39	32,229	511	0	88.3	63,930

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 1939.

Average discharge.- 24 years, 280 second-feet.

Extremes.- Maximum discharge during year, 790 second-feet May 5 (gage height, 3.46 feet); minimum, 2 second-feet Jan. 29 to Feb. 3, Feb. 15, 16, Sept. 17-30.
1915-39: 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 for periods of missing gage-height record, Nov. 11, 12, Jan. 31 to Feb. 4 (computed on basis of weather records and records for nearby stations), those interpolated, Dec. 6-9, Feb. 28 and those for extremely low flow, all of 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 in table on following page. Diversions above station for irrigation. Gage-height record, April to September, and results of two discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	288	22	12	2	4	515	724	455	148	7	5
2	22	280	25	12	2	4	536	724	369	137	7	4
3	98	186	27	12	2	5	515	724	337	133	6	4
4	101	94	22	12	7	4	546	754	309	131	6	4
5	52	75	21	12	20	5	510	760	294	161	6	4
6	30	57	20	12	21	5	435	724	264	155	6	4
7	16	45	19	12	17	6	390	652	244	131	6	5
8	16	53	19	12	23	5	412	590	221	117	6	5
9	15	60	18	18	11	5	416	574	215	104	6	4
10	14	64	17	17	8	4	365	541	201	84	6	4
11	14	75	16	18	14	4	365	536	201	85	6	4
12	13	45	14	16	31	5	361	505	212	87	6	9
13	12	34	14	12	22	5	345	480	226	77	6	39
14	12	32	15	6	3	4	317	485	244	70	6	19
15	35	35	16	7	2	5	291	515	241	66	6	4
16	93	41	17	6	2	5	274	546	264	36	6	3
17	93	49	16	4	3	6	264	590	235	13	6	2
18	89	41	15	4	5	7	288	585	218	12	6	2
19	80	41	15	6	5	16	325	568	204	12	6	2
20	206	46	15	5	5	40	349	485	199	11	5	2
21	305	30	14	5	5	50	398	416	178	10	5	2
22	298	23	14	4	8	102	455	394	171	10	5	2
23	284	22	14	5	10	178	455	357	181	10	5	2
24	270	23	14	7	10	267	435	317	176	9	5	2
25	267	25	14	7	9	369	390	284	169	8	5	2
26	264	24	12	3	6	435	349	264	161	8	5	2
27	260	25	13	3	6	430	329	251	157	10	5	2
28	251	18	14	3	5	398	357	284	155	10	5	2
29	257	19	13	2	-	426	455	369	150	8	5	2
30	294	21	12	2	-	398	585	530	148	8	5	2
31	291	-	12	2	-	435	-	585	-	8	5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,071	305	12	131	8,070
November	1,871	288	18	62.4	3,710
December	509	27	12	16.4	1,010
Calendar year 1938	228,620	4,340	12	626	453,400
January	258	18	2	8.3	512
February	266	31	2	9.5	528
March	3,634	435	4	117	7,210
April	12,047	585	264	402	23,890
May	16,113	760	251	520	31,960
June	6,799	455	148	227	13,490
July	1,869	161	8	60.3	3,710
August	176	7	5	5.7	349
September	149	39	2	5.0	296
Water year 1938-39	47,762	760	2	131	94,740

Combined discharge, in second-feet, of Big Wood River and Big Wood Slough at Hailey, Idaho, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	261	288	220	193	162	151	703	917	619	326	139	127
2	286	280	226	193	162	162	724	907	529	309	131	126
3	313	286	229	194	172	159	707	914	502	297	131	126
4	295	309	227	186	172	158	740	924	472	307	144	126
5	278	300	228	195	170	158	697	941	458	345	151	128
6	274	282	227	184	166	151	623	904	433	339	139	124
7	278	239	230	170	172	153	583	823	413	303	132	130
8	276	253	232	171	174	150	604	761	385	283	130	131
9	285	266	229	182	147	156	609	752	375	268	128	120
10	270	275	218	187	136	154	577	716	358	264	126	118
11	264	277	203	195	145	156	555	711	364	263	121	118
12	263	234	171	191	179	158	550	677	374	268	117	131
13	256	233	162	186	173	157	532	649	394	253	115	189
14	262	228	167	184	167	148	498	655	421	245	115	179
15	285	236	193	182	164	155	473	690	418	230	120	157
16	343	249	213	182	150	158	462	715	442	208	119	149
17	343	259	199	172	151	165	451	759	412	196	117	143
18	339	245	193	178	158	173	476	754	390	189	117	138
19	330	245	201	184	162	189	514	734	372	180	108	129
20	321	251	203	180	153	217	541	638	368	168	109	121
21	305	220	203	170	151	248	591	578	340	162	108	116
22	298	193	198	169	161	312	651	556	335	156	109	114
23	284	192	196	177	167	388	653	521	349	149	115	108
24	270	204	200	177	168	478	637	486	356	142	114	110
25	267	209	198	172	165	574	588	458	356	121	121	116
26	264	208	181	173	158	631	545	435	345	138	124	112
27	260	209	182	173	148	625	525	419	338	172	124	108
28	251	205	197	173	159	599	557	456	336	175	123	107
29	257	212	194	172	-	624	663	551	326	177	135	107
30	294	216	194	173	-	596	789	706	325	168	130	102
31	291	-	190	172	-	625	-	757	-	167	126	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	8,863	343	251	286	17,580
November	7,303	309	192	243	14,490
December	6,304	232	181	203	12,500
Calendar year 1938	275,653	4,500	99	755	546,700
January	5,590	195	169	180	11,090
February	4,512	179	136	161	8,950
March	8,928	631	148	288	17,710
April	17,818	789	451	594	35,340
May	21,464	941	419	692	42,570
June	11,905	619	325	397	23,610
July	6,968	345	121	225	13,820
August	3,838	151	108	124	7,610
September	3,810	189	102	127	7,560
Water year 1938-39	107,303	941	102	294	212,800

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 1939 except winters.

Extremes.- Maximum discharge recorded during year, 591 second-feet Apr. 2 (gage height, 2.41 feet); minimum recorded, 37 second-feet Aug. 17 (gage height, 1.26 feet).
1911-39: Maximum discharge recorded, 3,660 second-feet June 16, 1921 (gage height, 6.07 feet); minimum recorded, 7 second-feet Apr. 14, 1932 (gage height, 1.10 feet).

Remarks.- Records good. None for Dec. 2 to Mar. 27. Discharge interpolated for periods of missing gage heights, Oct. 19-21, 23-28, May 9, 10; that for Oct. 22 computed on basis of one staff-gage reading. Many diversions above station for irrigation. Gage-height record and seven discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	104	255	162			-	550	392	234	83	65	43
2	110	255				-	574	419	185	81	65	45
3	121	244				-	566	406	154	83	67	45
4	151	271				-	542	406	147	81	65	45
5	162	266				-	517	386	138	88	60	45
6	162	239				-	478	359	134	96	56	43
7	154	216				-	441	310	131	86	54	43
8	154	207				-	419	255	121	71	54	43
9	166	211				-	419	214	115	69	49	43
10	166	221				-	412	172	101	69	49	43
11	177	225				-	399	131	88	69	49	45
12	170	189				-	392	134	81	69	47	56
13	158	189				-	392	158	71	67	47	62
14	154	198				-	372	162	67	60	47	51
15	174	189				-	352	174	81	54	45	51
16	230	193				-	328	177	107	54	45	49
17	260	202				-	322	193	128	58	43	49
18	276	207				-	328	230	128	58	43	47
19	267	207				-	316	250	128	60	43	45
20	258	202				-	322	239	121	62	43	45
21	248	202				-	340	216	107	65	43	43
22	239	177				-	386	207	104	67	43	43
23	235	154				-	406	181	96	67	45	41
24	231	131				-	412	158	91	60	45	41
25	227	147				-	406	134	83	60	45	43
26	223	154				-	365	118	83	60	45	41
27	219	147				-	328	104	81	60	45	41
28	215	151				534	271	81	81	60	45	41
29	211	154				542	255	83	83	62	45	41
30	225	158				534	298	115	88	65	43	41
31	250	-				534	-	234	-	65	43	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,097	276	104	197	12,090
November	5,961	271	131	199	11,820
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	11,908	574	255	397	23,620
May	6,798	419	81	219	13,480
June	3,357	234	67	112	6,660
July	2,109	96	54	68.0	4,180
August	1,523	67	43	49.1	3,020
September	1,354	62	41	45.1	2,690
Water year	-	-	-	-	-

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.

Drainage area.- 1,500 square miles.

Records available.- February to April 1909 (gage heights only), April 1909 to September 1939.

Extremes.- Maximum contents during year, 192,300 acre-feet Apr. 19-27 (gage height, 4,935.20 feet); minimum, 51,360 acre-feet Sept. 30 (gage height, 4,882.0 feet).
1909-39: Maximum contents, 192,300 acre-feet July 12, 13, 1938, Apr. 19-27, 1939 (gage height, 4,935.20 feet); 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 flash boards, 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. Gage read twice daily, contents computed from morning reading. Gage-height record and capacity table furnished by watermaster for Big Wood and Little Wood Rivers.

Capacity table (gage height, in feet, and contents, in acre-feet)
(Furnished by watermaster for Big Wood and Little Wood Rivers)

4,821.4	0	4,835.0	2,114	4,860.0	18,380	4,890.0	66,787	4,920.0	139,498
4,825.0	294	4,840.0	3,660	4,870.0	31,233	4,900.0	e7,733	4,930.0	172,601
4,830.0	1,010	4,850.0	9,193	4,880.0	47,697	4,910.0	111,867	4,935.0	191,500

Contents, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	133,900	146,600	155,300	165,100	172,200	170,800	182,200	191,500	172,200	143,500	109,000	74,050
2	134,200	146,900	155,600	165,500	172,200	170,400	184,100	191,900	171,500	142,200	107,800	73,020
3	134,500	147,500	155,900	165,800	172,200	170,100	184,500	191,900	170,400	142,200	106,500	72,010
4	134,800	148,100	156,600	166,200	172,600	170,100	183,800	191,900	169,700	142,500	105,300	71,200
5	135,100	148,800	156,900	166,500	172,600	169,700	184,500	191,900	168,700	142,500	104,000	70,390
6	135,400	149,100	157,300	166,900	173,000	169,400	187,200	191,500	167,600	142,800	103,000	69,390
7	135,700	149,700	157,600	166,900	173,000	169,000	189,900	191,500	166,500	142,800	101,800	68,580
8	136,000	150,100	157,900	167,200	173,300	168,700	191,500	191,100	165,500	141,900	100,600	67,780
9	136,200	150,400	158,600	167,600	173,700	168,300	191,500	190,700	164,400	140,700	99,370	66,790
10	136,500	151,000	158,900	167,600	173,700	168,300	191,500	189,900	164,400	139,500	97,930	65,990
11	136,800	151,300	159,300	168,000	173,700	168,000	191,500	189,200	163,400	138,000	96,980	65,200
12	137,100	152,000	159,600	168,300	174,100	167,600	191,500	188,400	162,400	136,800	96,030	64,410
13	137,400	152,300	160,000	168,300	174,100	167,200	191,500	187,600	161,300	135,700	94,620	63,620
14	138,000	152,600	160,000	168,700	174,400	166,900	191,500	186,600	160,300	134,200	93,450	63,030
15	138,300	153,000	160,300	168,700	174,400	166,500	191,500	186,100	158,900	133,100	92,290	62,240
16	138,600	153,300	160,600	169,000	174,400	166,500	191,500	185,300	157,900	131,400	91,140	61,460
17	139,200	153,000	161,000	169,000	174,400	165,800	191,500	184,500	156,900	130,200	89,990	60,870
18	140,100	152,300	161,300	169,000	174,800	165,500	191,900	183,800	155,900	128,500	88,860	60,100
19	140,500	152,000	161,700	169,400	174,800	165,100	192,300	183,000	155,300	127,200	87,730	59,320
20	140,900	151,300	161,700	169,400	174,800	165,100	192,300	182,200	154,300	125,800	86,620	58,740
21	141,300	152,000	162,000	169,700	174,800	165,100	192,300	181,500	153,300	124,100	85,510	58,160
22	141,800	152,300	162,400	169,700	174,100	164,100	192,300	180,700	152,600	123,000	84,410	57,390
23	142,200	152,600	162,700	170,100	173,000	162,000	192,300	180,000	151,700	121,400	83,320	56,820
24	142,800	153,000	163,000	170,100	172,200	160,300	192,300	179,200	150,700	120,000	82,240	56,050
25	143,200	153,300	163,000	170,400	171,900	158,900	192,300	178,500	149,400	118,700	81,160	55,290
26	143,500	153,600	163,400	170,400	171,500	158,600	192,300	177,700	148,800	117,400	80,090	54,530
27	144,000	154,000	163,700	170,800	171,200	159,300	192,300	177,000	147,800	116,000	79,030	53,780
28	144,400	154,300	164,100	171,200	171,200	161,700	191,900	175,900	146,600	114,500	77,980	52,840
29	144,700	154,600	164,400	171,200	-	169,700	191,900	174,800	147,200	113,400	76,940	52,100
30	145,300	154,900	164,800	171,500	-	175,900	191,900	173,700	144,400	111,900	75,900	51,360
31	145,900	-	164,800	171,900	-	179,600	-	173,000	-	110,600	75,080	-

Monthly gage height and contents, water year October 1938 to September 1939

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	118.10	133,900	-
Oct. 31	122.10	145,900	+12,000
Nov. 30	124.90	154,900	+9,000
Dec. 31	127.80	164,800	+9,900
Calendar year 1938	-	-	+112,790
Jan. 31	129.80	171,900	+7,100
Feb. 28	129.60	171,200	-700
Mar. 31	131.90	179,600	+8,400
Apr. 30	135.10	191,900	+12,300
May 31	130.30	173,000	-18,900
June 30	121.60	144,400	-28,600
July 31	109.50	110,600	-33,800
Aug. 31	94.10	75,080	-35,520
Sept. 30	82.00	51,360	-23,720
Water year 1938-39	-	-	-82,540

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 1939.

Average discharge.- 27 years (1912-39), 386 second-feet.

Extremes.- Maximum discharge during year, 2,250 second-feet Mar. 31 to Apr. 3; maximum gage height, 6.62 feet Apr. 1, 2; minimum discharge, 10 second-feet Sept. 30 (gage height, 1.45 feet).
1911-39: Maximum discharge, 5,610 second-feet Apr. 21, 1938 (gage height, 11.55 feet); no flow Feb. 3, 1915.

Remarks.- Records good. Discharge for Apr. 30 to May 3 based upon twice-daily staff-gage readings. Many ranch diversions in upper drainage area. Flow regulated by Magic Reservoir (capacity, about 191,500 acre-feet). Gage-height record and five discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

1.4	8	2.9	233	4.9	1,250
1.6	20	3.2	347	5.3	1,470
1.8	37	3.5	485	5.7	1,710
2.0	57	3.8	645	6.1	1,950
2.3	94	4.1	810	6.5	2,190
2.6	149	4.5	1,030	6.7	2,310

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	25	*17	17	19	283	2,250	535	628	689	738	546
2	19	26	*17	17	*19	283	2,250	568	628	259	689	546
3	19	27	17	17	*19	283	2,250	590	628	20	672	525
4	19	35	17	17	19	262	1,440	623	628	21	662	515
5	18	35	17	17	19	287	434	645	662	22	656	505
6	18	34	17	16	19	291	26	662	678	22	656	495
7	18	32	17	17	19	291	313	667	678	594	645	495
8	19	31	17	*17	22	287	810	650	662	733	640	490
9	19	39	17	*17	26	287	1,030	678	656	728	623	475
10	18	39	17	*17	33	287	975	678	656	728	618	465
11	19	39	16	*18	39	283	892	684	662	722	628	465
12	19	38	16	*18	*44	283	865	662	662	733	656	455
13	19	34	16	*18	48	283	772	678	662	750	667	440
14	19	35	*16	18	51	322	755	694	667	755	667	417
15	19	35	*16	18	57	404	766	694	667	760	645	408
16	19	398	*17	18	60	412	645	711	667	788	612	399
17	19	525	17	18	62	412	349	722	667	799	606	404
18	19	495	17	18	68	408	308	722	656	799	612	412
19	19	480	17	18	69	408	656	716	645	799	612	394
20	19	220	17	18	72	584	584	716	645	788	606	390
21	19	19	17	18	307	1,530	579	689	628	782	601	390
22	19	18	17	18	634	2,070	601	667	618	782	601	390
23	19	18	17	*18	460	2,190	623	662	618	792	618	404
24	20	*18	17	*18	291	2,190	689	640	634	777	623	412
25	20	*17	17	*19	291	2,190	645	612	662	777	618	412
26	19	17	17	19	287	2,190	623	601	667	772	606	426
27	20	17	17	19	283	2,190	579	601	667	772	584	435
28	21	17	17	19	283	1,400	495	601	667	777	557	435
29	22	17	17	19	-	1,250	593	623	689	777	552	435
30	23	*17	17	19	-	2,010	568	640	689	772	552	186
31	25	-	17	19	-	2,250	-	640	-	766	546	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	603	25	18	19.5	1,200
November	2,797	525	17	93.2	5,550
December	522	17	16	16.8	1,040
Calendar year 1938	274,803	5,330	5	753	545,000
January	554	19	16	17.9	1,100
February	3,620	634	19	129	7,180
March	28,100	2,250	262	906	55,740
April	24,365	2,250	26	812	48,330
May	20,271	722	535	654	40,210
June	19,643	689	618	655	38,960
July	20,045	799	20	647	39,760
August	19,368	738	546	625	38,420
September	13,166	546	186	439	26,110
Water year 1938-39	153,054	2,250	16	419	303,600

*Gage height missing; discharge interpolated.

Big Wood River above North Gooding canal, near Shoshone, Idaho

Location.- Staff gage, lat. 43°06', long. 114°18', in sec. 10, T. 4 S., R. 18 E., 1 mile upstream from North Gooding canal, 13 miles downstream from Magic Dam, and 14 miles northeast of Shoshone.

Records available.- April 1921 to February 1939 (discontinued). No flow in water years 1925-26, 1927-28 to 1930-31, 1933-34 to 1936-37.

Extremes.- 1921-39: Maximum discharge, 4,560 second-feet about Apr. 22, 1938 (gage height, 9.63 feet, from high-water marks); no flow for long periods.

Remarks.- No flow Oct. 1, 1938, to Feb. 28, 1939. Many diversions for irrigation. Richfield and Lincoln canals are main diversions between station and Magic Dam. Lincoln canal, completed in spring of 1925, diverts all the flow, except during high water, around station on right bank to conserve channel losses in the natural stream bed. Flow regulated by diversions above station and by operation of gates at Magic Dam.

Big Wood River below North Gooding canal, near Shoshone, Idaho

Location.- Staff gage, lat. 43°04', long. 114°18', in sec. 15, T. 4 S., R. 18 E., 300 yards downstream from North Gooding canal, 11 miles northeast of Shoshone, and 14 miles downstream from Magic Dam.

Records available.- January 1911 to February 1939 (discontinued). No flow in water years 1928-29, 1930-31, 1933-34 to 1936-37.

Extremes.- 1911-39: Maximum discharge, 3,970 second-feet Apr. 22, 1938; maximum gage height, 15.0 feet, former datum, May 18, 1911; no flow for long periods.

Remarks.- No flow Oct. 1, 1938, to Feb. 28, 1939. Several diversions for irrigation. North Gooding, Richfield, and Lincoln canals divert water between station and Magic Dam. Since completion, in 1925, of Lincoln canal, which diverts 7 miles upstream, most of river flow has been diverted above station.

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) and April 1921 to September 1939 except for winters.

Extremes.- Maximum discharge recorded during year, 2,020 second-feet Apr. 3 (gage height, 5.81 feet); probably no flow for long periods.
1921-39: Maximum discharge recorded, 3,900 second-feet Apr. 23, 1938 (gage height, 8.48 feet); no flow for long periods in each year.

Remarks.- Records good. None for Dec. 1 to Mar. 30. Discharge for Oct. 3 and Nov. 24 computed on basis of partial gage-height record and engineer's notes. Many diversions above and below station for irrigation. Flow regulated by Magic Reservoir (capacity, about 191,500 acre-feet) and also affected by deliveries from Milner-Gooding canal, which diverts from Snake River. Gage-height record and nine discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	0					1,820	102	43	31	62	27
2	8	0					1,880	104	46	28	49	20
3	2	0					1,950	118	46	33	48	28
4	0	0					1,950	113	48	37	47	38
5	0	0					938	109	47	51	48	43
6	0	0					349	107	44	60	43	46
7	0	0					118	109	52	86	38	44
8	0	0					158	118	62	60	42	49
9	0	0					597	107	62	55	43	43
10	0	0					810	96	62	57	44	35
11	0	0					735	91	52	60	47	36
12	0	0					660	96	48	49	51	39
13	0	0					525	89	46	39	48	39
14	0	0					735	87	47	33	42	39
15	0	0					785	87	44	33	39	37
16	0	0					785	75	51	40	48	37
17	0	0					638	64	51	44	44	33
18	0	106					408	64	57	47	40	32
19	0	155					222	66	64	52	38	32
20	0	219					406	66	71	52	40	30
21	0	248					337	64	67	52	43	34
22	0	148					325	67	57	52	42	36
23	0	45					333	66	48	48	46	33
24	0	9					356	59	40	49	47	33
25	0	0					380	52	34	46	49	32
26	0	0					260	54	35	47	52	27
27	0	0					229	48	40	42	49	20
28	0	0					168	48	40	38	51	19
29	0	0					121	48	37	46	49	19
30	0	0					109	43	33	47	48	20
31	0	-				1,820	-	36	-	55	46	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	67	57	0	2.2	133
November	930	248	0	31.0	1,840
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	19,107	1,950	109	637	37,900
May	2,453	118	36	79.1	4,870
June	1,474	71	33	49.1	2,920
July	1,449	86	28	46.7	2,870
August	1,425	62	38	45.9	2,820
September	1,000	49	19	33.3	1,980
Water year	-	-	-	-	-

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 1939 except for winters prior to 1936.

Extremes.- Maximum discharge during year, 1,970 second-feet Mar. 23 (gage height, 6.99 feet); no flow for short periods during December to February.
1916-39: Maximum discharge, 3,810 second-feet Apr. 23, 1938; maximum gage height, 9.00 feet Mar. 17, 1922; no flow for short periods in each year.

Remarks.- Records good except those for Nov. 24-29, Dec. 14 to Feb. 23, Mar. 5, 6, which were computed on basis of five discharge measurements, gage heights, observer's notes, and weather records, and are poor. Diversions above station for irrigation. Flow regulated by Magic Reservoir (capacity, about 191,500 acre-feet) and also affected by deliveries from canals diverting from Snake River at Milner. Gage-height record for April to September and six discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers; gage-height record for October to March furnished by North Side Canal Co.

Rating tables, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 23

1.0	16	3.0	283	5.5	1,024
1.4	41	3.5	387	6.0	1,285
1.8	83	4.0	508	6.5	1,590
2.2	141	4.5	649	7.0	1,970
2.6	209	5.0	814		

Mar. 24 to Sept. 30

0.8	6.2	2.5	182
1.2	23.5	3.0	277
1.6	58	3.5	386
2.0	103	4.0	508

Note.- Same as preceding table above 3.7 feet.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	119	83	24			143	1,730	142	21	14	60	15
2	54	86	15			125	1,730	148	27	11	44	8
3	75	96	38			99	1,810	170	32	11	41	8
4	42	100	73			81	1,770	151	40	12	39	15
5	46	118	36			80	1,000	129	36	26	40	28
6	47	99	49			80	490	126	31	40	38	33
7	48	95	47			82	126	129	35	57	32	33
8	50	97	54			84	68	145	58	49	26	37
9	56	83	68			78	536	126	66	39	28	45
10	54	65	66			91	762	102	66	40	28	43
11	49	68	47			184	712	85	51	33	32	30
12	52	75	39		15	376	664	84	46	29	32	22
13	63	81	32			482	619	75	37	16	28	26
14	65	81				249	814	76	36	15	24	29
15	71	75				231	851	73	22	15	22	27
16	78	73				264	890	67	30	12	37	28
17	95	70				725	745	44	40	24	36	26
18	104	150				696	548	40	60	34	31	24
19	99	247				938	352	46	76	48	20	19
20	65	344				1,120	457	55	77	39	22	13
21	40	387				1,180	433	66	74	34	25	11
22	40	283	30			1,620	352	71	53	35	25	12
23	54	106				1,810	409	70	40	29	28	10
24	63	50			398	1,770	433	64	25	30	36	11
25	33	50			179	1,730	482	59	15	20	30	15
26	25	50		*20	149	1,730	409	58	15	17	29	18
27	25	50			141	1,730	330	45	15	16	28	19
28	23	25			118	1,770	263	34	17	15	26	20
29	27	25			-	860	167	30	16	18	30	24
30	37	21			-	1,210	145	24	15	28	32	31
31	77	-			-	1,700	-	15	-	36	26	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,776	119	23	57.3	3,520
November	3,233	387	21	108	6,410
December	1,128	73	-	36.4	2,240
Calendar year 1938	168,772	3,700	-	463	334,800
January	775	-	-	25.0	1,540
February	1,330	398	-	47.5	2,640
March	23,318	1,810	78	752	46,250
April	20,097	1,810	68	670	39,860
May	2,549	170	15	82.2	5,060
June	1,172	77	16	39.1	2,320
July	842	57	11	27.2	1,670
August	975	60	20	31.5	1,930
September	680	45	8	22.7	1,350
Water year 1938-39	57,875	1,810	-	159	114,800

*Discharge measurement.

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 1939.

Average discharge.- 24 years, 111 second-feet.

Extremes.- Maximum discharge during year, 288 second-feet Oct. 3 (gage height, 3.75 feet); no flow Oct. 20 to Nov. 3.

1915-39: Maximum discharge observed, 419 second-feet June 6, 1921; 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 except those for Oct. 14-20, Nov. 3-6, Jan. 20-22, 24-29, Jan. 31 to Feb. 5, Feb. 7 (computed on basis of weather records and records for nearby stations) and those for Jan. 23, 30, Feb. 6, June 11-16, July 13, 14, Aug. 15-18, 28-30, Sept. 23-29 computed on basis of once-daily staff-gage readings, which are fair. Flow affected by operation of 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, Idaho, equals the total flow of river at this point. Gage-height record and results of three discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	242	0	198	181	160	147	188	193	164	178	132	122
2	264	0	201	181	160	158	188	183	160	172	124	122
3	215	100	202	182	170	154	192	190	165	164	125	122
4	194	215	205	174	165	154	194	170	163	176	138	122
5	226	225	207	183	150	153	187	181	164	184	145	124
6	244	225	207	172	145	146	188	180	169	184	133	120
7	262	194	211	158	155	147	193	171	169	172	126	125
8	260	200	213	159	151	145	192	171	164	166	124	126
9	270	206	211	164	136	151	193	178	160	164	122	116
10	256	211	201	170	128	150	192	175	157	180	120	114
11	250	202	187	177	131	151	190	175	163	178	115	114
12	250	189	157	175	148	153	189	172	162	181	111	122
13	244	199	148	174	151	152	187	169	168	176	109	150
14	250	196	152	178	164	144	181	170	177	175	109	160
15	250	201	177	175	162	150	182	175	177	164	114	153
16	250	208	196	176	148	153	188	169	178	172	113	146
17	250	210	183	168	148	159	187	169	177	183	111	141
18	250	204	178	174	153	166	188	169	172	177	111	136
19	250	204	186	178	157	171	189	166	168	168	102	127
20	115	205	188	175	148	177	192	163	169	157	104	119
21	0	190	189	165	146	198	193	162	162	152	103	114
22	0	170	184	165	153	210	196	162	164	146	104	112
23	0	170	182	172	157	210	198	164	168	139	110	106
24	0	181	186	170	158	211	202	169	180	133	109	108
25	0	184	184	165	156	205	198	174	187	113	116	114
26	0	184	169	170	150	196	196	171	184	130	119	110
27	0	184	169	170	142	195	196	168	181	162	119	106
28	0	187	183	170	154	201	200	172	181	165	118	105
29	0	193	181	170	-	198	208	182	176	169	130	105
30	0	195	182	171	-	198	204	176	177	160	125	100
31	0	-	178	170	-	190	-	172	-	159	121	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,792	270	0	155	9,500
November	5,432	225	0	181	10,770
December	5,795	213	148	187	11,490
Calendar year 1938	46,969	270	0	129	93,150
January	5,332	183	158	172	10,580
February	4,246	170	128	152	8,420
March	5,293	211	144	171	10,500
April	5,771	208	181	192	11,450
May	5,361	193	162	173	10,630
June	5,106	187	157	170	10,130
July	5,099	184	113	164	10,110
August	3,662	145	102	118	7,260
September	3,661	160	100	122	7,260
Water year 1938-39	59,550	270	0	163	118,100

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 1939 except winter (1922, discharge measurements only).

Extremes.- Maximum discharge during year, 4,510 second-feet about Mar. 28 (gage height, 11.13 feet); minimum discharge recorded, 1.7 second-feet Sept. 27 (gage height, 0.92 foot).

1921-39: 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, 1.6 second-feet July 10, 11, 13, Aug. 25-29, 31, 1931, Aug. 18-20, 1934 (gage height, 0.90 foot).

Remarks.- Records good except those for periods of missing gage heights, which are fair. No record Nov. 27 to Mar. 20. Discharge for Nov. 26, May 15 to June 4, Sept. 2 based on twice-daily staff-gage readings. Many small diversions above station; appreciable regulation. Gage-height record and results of six discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.3	18				-	†2,000	215	16	*5.2	*2.7	*2.3
2	6.8	18				-	†1,500	218	18	*4.9	*2.6	2.3
3	7.4	18				-	†1,200	220	16	4.6	*2.6	*2.3
4	7.4	27				-	†1,000	210	16	4.4	*2.5	*2.2
5	7.1	19				-	†900	200	16	†6.0	*2.5	*2.2
6	7.4	18				-	†800	190	15	†6.5	*2.4	*2.1
7	7.7	21				-	740	176	*14	†6.0	2.4	*2.1
8	8.9	26				-	625	161	*14	†5.5	2.4	*2.0
9	12	26				-	550	145	*14	†5.5	2.4	*2.0
10	10	24				-	475	126	*13	†5.0	2.4	*1.9
11	9.2	†22				-	415	109	*12	4.9	2.4	1.9
12	9.5	†20				-	379	117	12	5.1	2.3	†1.9
13	8.6	†21				-	332	109	*12	4.7	2.3	†2.5
14	8.6	†22				-	330	104	*12	*4.4	*2.3	†3.0
15	13	24				-	310	91	*12	*4.2	*2.3	†2.5
16	16	24				-	275	88	*12	*3.9	*2.2	†2.3
17	17	27				-	255	84	*12	*3.6	*2.2	†2.1
18	18	28				-	240	68	*12	*3.3	2.2	†2.0
19	*16	30				-	228	56	12	*3.1	*2.2	1.9
20	14	34				-	225	52	*11	2.8	*2.1	1.9
21	13	23				418	222	51	*11	2.8	*2.1	1.9
22	13	†20				418	225	46	*9.8	2.8	*2.1	2.0
23	13	†15				460	225	43	*9.0	2.7	*2.1	1.9
24	13	†15				584	225	41	*8.3	2.6	*2.0	1.8
25	13	†15				862	225	38	*7.5	2.5	2.0	1.8
26	13	15				†1,500	222	37	6.8	†2.5	2.0	1.8
27	13	-				†2,500	222	35	*6.5	†2.5	*2.0	1.7
28	13	-				†4,000	220	30	*6.2	†2.5	*2.1	*1.8
29	14	-				†3,500	210	26	*5.9	†2.6	*2.1	*1.8
30	19	-				†3,000	215	21	*5.5	†2.7	*2.2	*1.9
31	19	-				†2,500	-	19	-	2.7	*2.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	366.9	19	6.3	11.8	728
November 1-26	570	34	15	21.9	1,130
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 21-31	19,742	4,000	418	1,795	39,160
April	14,990	2,000	210	500	29,730
May	3,126	220	19	101	6,200
June	347.5	18	5.5	11.6	689
July	122.5	6.5	2.5	3.95	243
August	70.3	2.7	2.0	2.27	139
September	61.8	3.0	1.7	2.06	123
Water year	-	-	-	-	-

*Gage height missing; discharge interpolated.
†Gage height missing; discharge computed on basis of weather records and records for Magic Reservoir.

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 1939 (prior to 1937, irrigation seasons only).

Extremes.- Maximum discharge during year, 235 second-feet Apr. 24; maximum gage height, 2.83 feet Sept. 10, 11; no flow for long periods.
1925-39: Maximum discharge, 706 second-feet May 28, 1927 (gage height, 4.00 feet); no flow for 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., thence 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. Gage-height record and 12 discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0					0	187	148	181	167	142
2		0					0	191	150	128	162	142
3		0					0	187	151	0	159	140
4		0					0	182	151	0	159	139
5		0					0	157	151	0	164	138
6		0					0	153	153	0	164	134
7		0					0	165	153	87	165	132
8		0					0	138	154	170	162	133
9		0					0	142	161	174	162	133
10		0					0	150	161	177	164	136
11		0					0	153	157	179	167	138
12		0					42	156	157	179	165	136
13		0					107	161	157	172	167	133
14		0					130	161	154	161	170	128
15		0					132	162	157	176	169	121
16		49					128	164	161	179	162	120
17		150					121	170	159	179	161	120
18		133					83	167	159	179	161	114
19		133					127	165	159	181	161	104
20		89					124	165	161	181	162	106
21		0					126	163	156	179	157	104
22		0					130	164	150	179	161	104
23		0					130	161	153	177	164	106
24		0					187	153	159	177	165	108
25		0					233	148	159	179	169	106
26		0					192	145	159	177	165	114
27		0					174	145	164	174	159	118
28		0					172	145	165	172	159	121
29		0					177	146	172	169	157	121
30		0					177	150	176	169	154	80
31		-					-	148	-	169	148	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	554	150	0	18.5	1,100
December	0	0	0	0	0
Calendar year 1938	25,976	239	0	71.2	51,530
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	2,692	233	0	89.7	5,340
May	4,946	191	138	160	9,810
June	4,727	176	148	158	9,380
July	4,604	181	0	149	9,130
August	5,031	170	148	162	9,980
September	3,671	142	80	122	7,280
Water year 1938-39	26,225	233	0	71.8	52,020

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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 northwest of Richfield, 11 miles northeast of Shoshone, and 12½ miles downstream from Magic Dam.

Records available.- May 1925 to September 1939 (1929-36, irrigation seasons only).

Extremes.- Maximum discharge during year, 196 second-feet Apr. 25 (gage height, 1.27 feet); no flow for long periods.
1925-39: Maximum discharge, 667 second-feet May 29, 1927 (gage height, 2.48 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 for irrigation upstream from this station. Gage-height record and six discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	0					0	152	121	134	131	108
2	0	0					0	162	121	123	129	108
3	0	0					0	154	121	12	125	106
4	0	0					0	154	121	0	123	104
5	0	0					0	134	123	0	121	104
6	0	0					0	127	123	0	123	102
7	0	0					0	145	123	20	123	102
8	0	0					0	118	123	134	123	102
9	0	0					0	118	127	138	123	102
10	0	0					0	127	127	143	125	104
11	0	0					0	129	127	143	125	104
12	0	0					0	129	127	143	125	104
13	0	0					43	134	125	140	125	102
14	0	0					110	131	125	129	127	100
15	0	0					110	131	129	136	127	95
16	0	0					106	136	134	143	123	93
17	0	122					100	140	134	143	123	91
18	0	110					62	138	134	143	125	89
19	0	110					97	136	134	143	127	80
20	0	98					100	138	131	140	127	77
21	0	4					98	138	129	140	123	77
22	0	0					102	138	123	140	123	75
23	0	0					104	134	123	140	125	77
24	0	0					134	131	125	140	125	79
25	0	0					193	125	125	140	125	79
26	0	0					172	123	125	140	123	80
27	0	0					140	121	127	138	118	87
28	0	0					140	121	127	136	116	89
29	0	0					145	121	129	134	116	95
30	0	0					150	121	131	134	116	87
31	0						-	121	-	134	112	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	8	8	0	0.3	16
November	444	122	0	14.8	881
December	0	0	0	0	0
Calendar year 1938	21,253	204	0	58.2	42,160
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	2,106	193	0	70.2	4,180
May	4,127	162	118	133	8,190
June	3,794	134	121	126	7,530
July	3,623	143	0	117	7,190
August	3,822	131	112	123	7,580
September	2,802	108	75	93.4	5,560
Water year 1938-39	20,726	193	0	56.8	41,130

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 1939 (prior to 1937, irrigation seasons only).

Extremes.- Maximum discharge during year, 318 second-feet Apr. 16 (gage height, 2.51 feet); no flow for long periods.
1928-39: Maximum discharge, 447 second-feet Apr. 24, 1938 (gage height, 2.90 feet); usually no flow during nonirrigation seasons.

Remarks.- Records good. Discharge for Nov. 17, 18, 21, 22, Apr. 10 computed on basis of fragmentary gage-height record and information furnished by watermaster. Spillway diverts from North Gooding canal and discharges into Thorn Creek in sec. 6, T. 5 S., R. 16 E. It is utilized as part of plan to minimize losses from natural channel of Big Wood River. Gage-height record and results of eight discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0					0	176	118	98	146	79
2		0					0	193	122	101	140	77
3		0					0	202	124	106	138	98
4		0					0	193	124	115	137	103
5		0					0	189	122	125	135	109
6		0					0	189	122	144	127	109
7		0					0	198	138	148	120	108
8		0					0	202	142	146	122	109
9		0					0	185	146	144	124	101
10		0					4	176	138	146	127	95
11		0					25	176	133	146	131	95
12		0					7	178	125	129	131	97
13		0					159	174	124	118	125	98
14		0					289	172	124	116	115	97
15		0					303	176	124	116	122	94
16		0					309	160	125	129	124	92
17		22					286	148	124	129	122	90
18		220					236	146	131	135	116	90
19		168					220	148	142	140	115	89
20		185					232	144	146	137	120	89
21		190					227	144	137	138	124	90
22		23					246	150	129	138	120	84
23		0					239	142	116	138	125	80
24		0					239	138	109	137	127	79
25		0					234	137	106	135	127	72
26		0					216	137	106	135	131	70
27		0					220	125	115	129	129	68
28		0					202	125	115	127	129	67
29		0					183	125	111	135	125	70
30		0					183	118	106	138	122	101
31		-					-	115	-	152	113	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	808	220	0	26.9	1,600
December	0	0	0	0	0
Calendar year 1938	22,350	390	0	61.2	44,330
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	4,259	309	0	142	8,450
May	4,981	202	115	161	9,880
June	3,744	146	106	125	7,430
July	4,070	152	98	131	8,070
August	3,909	146	113	126	7,750
September	2,700	109	67	90.0	5,360
Water year 1938-39	24,471	309	0	67.0	48,540

Little Wood River near Carey, Idaho

Location.- Water-stage recorder, lat. 43°23', long. 116°00', in E½ sec. 30, T. 1 N., R. 21 E., a third of a mile upstream from West canal and 6 miles northwest of Carey. Datum lowered 0.74 foot Aug. 18, 1938.

Drainage area.- 312 square miles.

Records available.- April 1904 to May 1905 and September 1926 to September 1939. February 1920 to September 1926 at site 6 miles upstream; records equivalent except during spring run-off.

Average discharge.- 16 years (1920-24, 1925-27, 1929-39), 129 second-feet.

Extremes.- Maximum discharge during year, 800 second-feet Mar. 31 (gage height, 5.13 feet); minimum, 13 second-feet Aug. 22 (gage height, 2.14 feet).

1904-5, 1926-39: Maximum discharge, 6,000 second-feet (owing to failure of reservoirs on Little Fish Creek) Apr. 20, 1938 (gage height, 12.07 feet, former datum, from floodmark), from rating curve extended above 1,800 second-feet; minimum, 5.6 second-feet, Aug. 21, 28, 1934.

Remarks.- Records good except those for Dec. 13 to Mar. 8, which are fair. Discharge for periods of ice effect or missing gage heights, Nov. 22-29, Dec. 13 to Mar. 8, computed on basis of one discharge measurement, weather records, and records for stations on nearby streams. Regulation and diversion for irrigation above station. Gage-height record for October furnished by watermaster for upper Little Wood River.

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

2.1	11.5	3.1	129	4.1	410
2.3	20.5	3.3	173	4.3	480
2.5	36.5	3.5	225	4.5	550
2.7	60.5	3.7	285	4.7	620
2.9	91	3.9	345		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	98	71				568	220	140	60	24	15
2	54	98	69				452	212	123	57	22	15
3	65	91	71				396	214	117	54	20	15
4	63	104	69				389	222	105	54	20	16
5	62	95	69			55	336	231	104	68	21	16
6	68	80	68				282	217	100	69	20	16
7	69	81	66				243	201	96	58	18	17
8	72	85	68				246	196	86	51	19	17
9	85	86	69			54	246	193	91	50	19	17
10	80	86	63			54	228	186	88	48	19	16
11	78	71	68			51	214	188	86	48	18	16
12	77	71	42			50	209	180	86	46	17	18
13	74	78				49	201	168	89	42	16	20
14	74	78				42	183	166	89	39	16	20
15	91	81				50	171	168	86	36	15	20
16	115	78				54	166	168	91	35	14	20
17	115	80				55	159	173	88	36	14	19
18	109	75				63	159	183	86	33	14	18
19	104	78				81	168	176	83	31	14	17
20	100	78				111	176	157	88	33	14	17
21	98	63				150	188	144	80	40	14	17
22	96	60	65			203	203	146	77	38	14	17
23	95	65				273	201	142	80	35	14	18
24	93	70				357	196	137	77	28	14	19
25	91	70				428	183	125	75	25	15	18
26	89	70				476	166	119	69	23	15	19
27	89	70				522	155	119	68	22	15	18
28	89	70				550	157	129	65	22	16	18
29	88	70				518	178	144	63	25	17	19
30	96	72				512	196	162	63	28	16	19
31	98	-				540	-	168	-	28	15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,631	115	54	84.9	5,220
November	2,352	104	60	78.4	4,670
December	2,028	-	-	65.4	4,020
Calendar year 1938	108,091	2,900	-	296	214,400
January	1,860	-	-	60.0	3,690
February	1,540	-	-	55.0	3,050
March	5,683	550	42	133	11,270
April	7,015	568	155	234	13,910
May	5,354	231	119	173	10,620
June	2,639	140	63	88.0	5,230
July	1,262	69	22	40.7	2,500
August	519	24	14	16.7	1,030
September	527	20	15	17.6	1,050
Water year 1938-39	33,410	568	14	91.5	66,260

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 1939 (irrigation seasons only).

Extremes.- Maximum discharge recorded, 443 second-feet Mar. 29 (gage height, 2.78 feet); minimum recorded, 48 second-feet May 5 (gage height, 1.12 feet).
1911-39: Maximum discharge recorded, 868 second-feet May 3, 1938 (gage height, 3.97 feet); minimum recorded, 7.6 second-feet June 24, 25, 1920 (gage height, 0.52 foot).

Remarks.- Records good. None for Nov. 23 to Mar. 26. Discharge for Oct. 8-12 interpolated; that for Apr. 12-15, 18, Sept. 29, 30 computed on basis of once-daily staff-gage reading. Small ranch diversions upstream from station. Gage-height record and 11 discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	134	185				-	404	108	71	87	80	71
2	136	190				-	401	106	71	84	80	71
3	142	190				-	372	92	72	87	76	72
4	142	198				-	341	72	75	90	75	78
5	146	192				-	331	53	78	97	71	78
6	152	190				-	306	57	80	98	68	72
7	152	182				-	288	68	84	103	66	71
8	154	178				-	258	62	86	105	69	72
9	156	180				-	238	57	87	101	71	76
10	158	178				-	227	58	86	100	69	78
11	161	173				-	216	64	84	97	66	76
12	163	171				-	208	75	82	89	65	76
13	165	171				-	208	71	81	90	68	81
14	162	165				-	208	72	86	89	68	82
15	165	158				-	202	71	82	87	65	81
16	167	156				-	182	66	82	81	65	81
17	173	160				-	171	65	87	80	66	82
18	185	158				-	167	69	87	78	68	80
19	192	158				-	162	69	90	86	61	80
20	195	158				-	158	71	92	84	58	80
21	195	154				-	158	69	95	86	64	80
22	182	146				-	150	75	86	86	66	81
23	180	-				-	148	81	84	81	69	80
24	180	-				-	144	78	86	75	75	75
25	180	-				-	140	80	82	74	74	74
26	178	-				-	138	81	81	74	71	81
27	176	-				417	134	81	86	75	71	84
28	176	-				430	129	78	87	75	72	81
29	173	-				437	118	75	92	74	72	82
30	176	-				414	112	75	89	86	72	80
31	178	-				398	-	72	-	80	71	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,174	195	134	167	10,260
November 1-22	3,791	198	146	172	7,520
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 27-31	2,096	437	398	419	4,160
April	6,419	404	112	214	12,730
May	2,271	108	53	73.3	4,500
June	2,511	95	71	83.7	4,980
July	2,679	105	74	86.4	5,310
August	2,152	80	58	69.4	4,270
September	2,336	84	71	77.9	4,630
Water year	-	-	-	-	-

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 1939 (irrigation seasons only).

Extremes.- Maximum discharge recorded, 482 second-feet May 2 (gage height, 2.92 feet); practically no flow Oct. 3.

1922-39: Maximum discharge recorded, 664 second-feet June 18, 1922; maximum gage height, 3.85 feet July 4, 1938; minimum discharge, practically no flow July 29, 1931, Oct. 3, 1938.

Remarks.- Records good. None for Nov. 11 to Mar. 22. Many diversions for irrigation both upstream and downstream from station. Flow affected by operation of Milner-Gooding canal, which diverts from Snake River and crosses this river upstream from station. Gage-height record and 13 discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Rating table, water year 1937-38 (gage height, in feet, and discharge, in second-feet)

0.4	0	1.4	230	2.4	428
.6	8	1.6	308	2.6	450
.8	39	1.8	353	2.8	470
1.0	88	2.0	381	3.0	490
1.2	150	2.2	405		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	70				-	345	446	372	360	399	192
2	24	75				-	294	475	373	360	397	238
3	7	78				-	286	461	371	356	389	283
4	9	91				-	213	444	366	372	387	290
5	8	97				-	173	431	360	382	386	294
6	6	94				-	154	436	365	394	368	283
7	12	94				-	137	447	380	392	347	272
8	16	88				-	147	451	383	391	349	279
9	18	83				-	177	449	385	381	349	283
10	19	85				-	130	443	374	374	354	276
11	31	-				-	94	438	368	374	351	264
12	41	-				-	105	436	364	372	349	259
13	44	-				-	213	439	364	366	347	264
14	44	-				-	311	437	360	368	349	259
15	48	-				-	342	440	360	374	360	259
16	57	-				-	349	420	364	377	362	259
17	67	-				-	340	419	369	378	358	251
18	78	-				-	334	421	374	389	353	255
19	83	-				-	304	425	378	391	358	251
20	94	-				-	268	420	380	387	356	251
21	100	-				-	286	419	374	389	354	238
22	102	-				-	354	417	372	388	358	238
23	102	-				272	360	406	362	387	362	251
24	100	-				279	381	407	359	383	358	259
25	97	-				326	403	410	360	381	359	272
26	94	-				334	409	395	364	382	359	272
27	85	-				358	422	386	369	378	358	276
28	62	-				368	399	373	371	382	354	279
29	62	-				365	406	368	366	385	349	290
30	65	-				356	419	364	364	394	342	243
31	65	-				360	-	369	-	418	308	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,684	102	6	54.3	3,340
November 1-10	855	97	70	85.5	1,700
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 23-31	3,018	368	272	335	5,990
April	8,555	422	94	235	16,970
May	13,092	475	364	422	25,970
June	11,071	385	359	339	21,960
July	11,805	418	356	391	23,410
August	11,129	399	308	359	22,070
September	7,880	294	192	233	15,630
Water year	-	-	-	-	-

Fish Creek above dam, near Carey, Idaho

Location.- Water-stage recorder and Cippoletti weir, in sec. 2, T. 1 N., R. 22 E., 1¼ miles upstream from West Fork of Fish Creek, 1½ miles upstream from dam of Carey Valley Reservoir Co., and 14 miles northeast of Carey.

Drainage area.- About 56 square miles.

Records available.- May 1920 to September 1939 (discontinued). Irrigation seasons only except 1921, 1922, 1926, 1927.

Extremes.- Maximum and minimum discharge not determined.
1920-39: Maximum discharge recorded, 167 second-feet May 1, 1938 (gage height, 1.94 feet); no flow Sept. 9-12, Oct. 17-27, 1926.

Remarks.- Records good. Discharge for periods of missing gage heights, Oct. 23-28, 30, 31, computed on basis of weather records and records for Little Wood River near Carey; that for Oct. 29, Apr. 13, 25, computed on basis of staff-gage reading. No regulation. During high stages of 1939 water bypassed station. On Apr. 13 and 25 flows of 3.3 and 3.5 second-feet, respectively, were measured, in addition to flow passing gage. Several small diversions above station. Gage-height record furnished by watermaster for Fish Creek.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2						-	-	3.9	6.6		
2	2.2						-	-	3.6	6.6		
3	4.3						-	-	4.3	6.6		
4	6.2						-	-	5.0	6.2		
5	7.0						-	-	4.6	6.6		
6	7.5						-	22	4.3	6.6		
7	6.6						-	22	3.6	5.8		
8	7.0						-	21	3.6	5.0		
9	7.9						-	17	4.6	4.6		
10	7.9						-	15	5.8	4.6		
11	8.4						-	16	7.9	5.0		
12	8.8						-	15	8.4	5.0		
13	9.8						32	14	8.8	4.3		
14	9.8						-	14	7.5	4.6		
15	12						-	13	6.6	4.3		
16	15						-	11	7.0	3.9		
17	16						-	11	7.9	3.6		
18	16						-	12	8.8	3.6		
19	18						-	12	9.3	3.9		*1.7
20	16						-	11	8.4	4.3		
21	15						-	12	7.0	4.3	*1.4	
22	15						-	12	7.5	4.3		
23	15						-	11	7.9	-		
24	14						-	11	7.0	-		
25	14						24	10	7.0	†2.5		
26	14						-	9.8	7.5	-		
27	13						-	9.3	7.5	-		
28	13						-	8.8	7.0	-		
29	13						-	6.6	7.0	-		
30	14						-	4.6	6.6	-		
31	15						-	3.9	-	-		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	343.6	18	2.2	11.1	682
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January					
February					
March					
April					
May 6-31	325.0	22	3.9	12.5	645
June	195.9	9.3	3.6	6.53	389
July 1-22	110.3	6.6	3.6	5.01	219
August	-	-	-	-	-
September	-	-	-	-	-
Water year	-	-	-	-	-

*Discharge measurement.
†Field estimate.

Fish Creek near Carey, Idaho

Location.- Water-stage recorder, in sec. 15, T. 1 N., R. 22 E., 600 feet downstream from Carey Valley Reservoir Co.'s dam and 11 miles northeast of Carey.

Records available.- April 1919 to September 1920, May 1923 to September 1939 (discontinued). 1924-29, 1931-33, 1939, irrigation seasons only. 1921, 1922, discharge measurements only.

Extremes.- Maximum discharge during year not determined, occurred sometime during March, when gate at dam was broken; minimum not determined.
1919-20, 1923-39: Maximum discharge, 341 second-feet May 1, 1938 (gage height, 3.10 feet); minimum not determined, occurred during nonirrigation season, when reservoir gates are usually closed and flow past station is composed of leakage only.

Remarks.- Records good except those below 4 second-feet, which are fair. Discharge for Oct. 29, Dec. 9, Apr. 13 computed on basis of staff-gage reading. Flow regulated by storage in Fish Creek Reservoir. No diversions between station and dam. Gage-height record furnished by watermaster for Fish Creek.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35							-	32	52	70	8.1
2	36							-	38	52	59	7.6
3	35							-	42	58	45	6.3
4	35							-	44	61	39	4.1
5	26							-	59	62	39	4.4
6	22							-	59	49	39	4.4
7	13							-	59	47	37	4.8
8	6.7							-	63	54	25	6.8
9	4.4		2.2					-	63	59	20	6.8
10	4.4							-	63	74	19	6.8
11	4.1							-	63	102	19	6.8
12	4.1							-	63	108	18	6.8
13	4.1						0.7	62	63	111	18	6.8
14	3.8							62	61	114	18	6.8
15	3.8							61	50	113	13	6.8
16	3.8							61	50	111	9.9	6.4
17	-							66	40	104	9.9	4.4
18	-							73	35	100	9.9	4.1
19	-							70	23	86	8.0	3.8
20	-							53	18	68	3.4	4.1
21	-							51	12	68	3.4	6.4
22	-							51	9.0	67	3.4	6.4
23	-							41	9.0	66	3.8	6.4
24	-							33	9.4	70	3.4	6.4
25	-							32	9.0	76	3.8	-
26	-							32	15	75	3.8	-
27	-							35	30	75	3.8	-
28	-							43	35	74	3.8	-
29	1.8							43	44	73	3.8	-
30	-							43	52	72	4.3	-
31	-							35	-	70	8.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1-16	241.2	36	3.8	15.1	478
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January					
February					
March					
April					
May 13-31	947	73	32	49.8	1,880
June	1,212.4	63	9.0	40.4	2,400
July	2,371	114	47	76.5	4,700
August	564.5	70	3.4	13.2	1,120
September 1-24	142.5	8.1	3.8	5.94	283
Water year	-	-	-	-	-

Note.- Watermaster reported about 1,600 acre-feet lost from Fish Creek Reservoir during period Mar. 18-24 owing to broken outlet gate.

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 1939 (1922-35, irrigation seasons only).

Extremes.- Maximum discharge during year, 254 second-feet Mar. 26; maximum gage height, 3.16 feet Jan. 25 (ice jam); minimum, 78 second-feet May 4 (gage height, 1.12 feet).
1920-39: Maximum discharge, 312 second-feet Apr. 3, 1923; maximum gage height, 3.41 feet Apr. 15, 1936; minimum discharge, 26 second-feet June 2, 1920 (gage height, 0.48 foot).

Remarks.- Records good except those for periods of ice effect, Dec. 13-15, 27, Jan. 8, 9, 17, 22-25, Feb. 1-6, 10-13, which were computed on basis of weather records and records for stations on nearby streams and are fair. Many diversions above station for irrigation. Some water is bypassed around station by slough on right bank heading 300 feet above gage. Gage-height record and results of six discharge measurements furnished by watermaster for Big Wood and Little Wood Rivers.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	168	175	153	139	140	141	197	124	104	127	114	106
2	170	176	156	140	140	141	192	117	105	128	106	106
3	176	177	162	142	140	140	186	105	108	129	103	107
4	179	177	162	141	140	140	180	86	113	130	101	102
5	179	175	160	146	140	138	174	94	113	136	101	102
6	175	178	162	145	140	140	166	94	116	148	100	99
7	175	173	162	143	143	140	165	90	121	149	98	103
8	177	169	163	140	147	139	160	91	124	141	98	109
9	178	168	163	140	147	138	156	92	123	134	97	107
10	190	168	164	145	140	137	150	93	120	133	98	104
11	186	170	164	145	140	136	148	100	120	130	98	105
12	181	167	160	145	140	140	148	102	118	129	99	106
13	178	165	150	144	140	139	149	101	119	125	100	113
14	176	162	150	144	141	135	152	101	116	124	100	109
15	175	159	150	144	144	142	155	100	116	119	100	107
16	180	161	150	144	139	139	146	95	125	117	100	110
17	191	163	150	140	141	145	143	100	123	116	104	112
18	199	165	148	146	142	153	142	98	124	117	95	111
19	200	166	147	146	142	167	139	105	126	118	89	111
20	189	164	147	146	142	185	139	104	134	117	93	112
21	182	162	146	147	142	205	139	105	130	116	94	114
22	177	160	146	145	142	220	138	115	126	106	96	111
23	173	157	145	140	142	242	139	113	126	108	99	107
24	171	155	145	140	144	245	139	111	125	108	101	106
25	170	154	145	140	142	248	137	114	124	106	101	111
26	168	154	141	143	139	250	135	114	124	106	103	116
27	168	152	140	142	140	250	136	111	128	108	106	116
28	166	151	142	145	142	245	134	106	134	109	106	116
29	167	152	141	142	-	224	129	107	129	110	105	114
30	168	152	141	143	-	209	126	106	127	111	104	113
31	170	-	142	142	-	201	-	106	-	115	104	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,502	200	166	177	10,910
November	4,927	178	151	164	9,770
December	4,697	164	140	152	9,320
Calendar year 1938	52,327	220	60	143	103,800
January	4,434	147	139	143	8,790
February	3,961	147	139	141	7,860
March	5,414	250	135	175	10,740
April	4,539	197	126	151	9,000
May	3,200	124	86	103	6,350
June	3,641	134	104	121	7,220
July	3,770	149	106	122	7,480
August	3,113	114	89	100	6,170
September	3,265	116	99	109	6,480
Water year 1938-39	50,463	250	86	138	100,100

Note.- The following measurements of discharge, in second-feet, in bypass channel, which carries water around station, have been made during water year 1938-39:

Oct. 30.....22.9
Dec. 9.....13.0
April 26..... 3.85

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., half a mile west of highway bridge over Big Wood River, 430 feet upstream from mouth of inverted syphon crossing Snake River, 1,000 feet downstream from heading at Idaho Power Co's canal, and 3⅛ miles north of Hagerman.

Records available.- March 1930 to September 1939 (prior to 1938, irrigation seasons only).

Extremes.- Maximum discharge during year, 313 second-feet Aug. 6-11 (gage height, 3.58 feet); no flow (reported) Oct. 1 to Apr. 4, Apr. 18, June 16-18, 30, July 1, 24-26, Sept. 23.

1930-39: Maximum discharge, that of Aug. 6-11, 1939; maximum gage height, 3.64 feet July 3, 4, 1931, Aug. 13 to Sept. 4, 1935, Aug. 11-14, Aug. 16 to Sept. 1, 1936; practically no flow for long periods each year.

Remarks.- Records good. Discharge for Oct. 1, Apr. 6, 9, 11, 13, 18, June 16, 18, 30, July 1, 24, 26, Sept. 23 computed on basis of reported gate changes. Gage read twice daily during irrigation season. This canal, which is owned by King Hill Irrigation District and operated to provide water for irrigation of its project, diverts from Idaho Power Co.'s canal, which in turn diverts from Big Wood River. Gage-height record furnished by King Hill Irrigation District.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	164						0	298	312	173	301	301
2	0						0	298	312	286	306	300
3	0						0	298	312	290	308	300
4	0						0	298	312	293	310	300
5	0						79	298	312	293	310	300
6	0						113	298	312	293	312	300
7	0						154	296	312	293	313	300
8	0						154	295	312	293	313	300
9	0						166	295	310	293	313	300
10	0						183	295	308	296	313	300
11	0						202	295	308	296	313	300
12	0						212	295	308	296	310	300
13	0						216	295	308	296	310	300
14	0						221	295	305	296	306	291
15	0						221	298	305	296	306	278
16	0						221	298	216	295	310	268
17	0						221	298	0	291	306	263
18	0						172	298	89	290	303	267
19	0						281	298	284	293	303	268
20	0						281	298	288	293	303	271
21	0						281	300	288	293	306	273
22	0						286	305	288	293	306	276
23	0						295	308	291	293	305	227
24	0						298	312	293	208	306	276
25	0						298	312	296	0	306	276
26	0						298	312	298	86	306	275
27	0						298	312	295	298	306	276
28	0						298	312	291	300	306	276
29	0						298	312	291	306	306	271
30	0						298	312	201	303	306	273
31	0						-	312	-	300	303	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	164	164	0	5.3	325
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1938	44,253	292	0	121	87,780
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	6,045	298	0	202	11,990
May	9,346	312	295	301	18,540
June	8,357	312	0	279	16,580
July	8,425	306	0	272	16,710
August	9,531	313	301	307	18,900
September	8,506	301	263	284	16,870
Water year 1938-39	50,374	313	0	138	99,920

Clover Creek near Bliss, Idaho

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

Records available.- April 1938 to September 1939.

Extremes.- Maximum discharge observed during year, 1,020 second-feet Mar. 19 (gage height, 5.68 feet); no flow June 24, July 17-22, July 27 to Aug. 1, Aug. 28.
1938-39: Maximum discharge observed, that of Mar. 19, 1939; no flow Aug. 28, 29, 1938, June 24, July 17-22, July 27 to Aug. 1, Aug. 28, 1939.

Remarks.- Records good except those for period of backwater effect from Saunders Reservoir Apr. 3-10, Apr. 12 to May 5, which were estimated and are poor. Many diversions both above and below station for irrigation. Gage read twice daily.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	5.3	8.4	8.0	6.5	8.0	54		2.3	0.1	0	0.2
2	2.3	4.4	8.7	8.0	7.0	8.0	50		2.1	.2	.1	.2
3	2.5	5.0	211	8.0	7.5	8.7		5.0	1.9	.1	.1	.3
4	2.3	162	120	8.0	7.5	8.7			1.8	.2	.1	.4
5	2.2	50	94	8.0	7.5	8.0			2.2	.7	.1	.4
6	2.5	18	56	8.0	7.5	8.0	35	3.6	2.2	1.0	.2	.3
7	2.7	8.4	43	8.0	7.5	8.7		4.6	2.2	.9	.8	.2
8	3.0	8.4	60	7.5	7.5	8.7		3.6	2.1	.5	1.0	.2
9	2.9	9.0	52	7.5	8.0	11		2.8	2.1	.2	1.0	.2
10	2.8	9.0	34	7.5	8.0	17		2.0	2.1	.4	1.1	.2
11	3.0	8.4	19	7.5	8.0	44	17	1.8	2.1	.8	1.2	.2
12	3.0	8.0	17	7.5	7.5	106		2.2	2.0	.7	1.2	.2
13	3.0	8.0	17	7.0	7.5	162		2.1	2.0	.3	1.0	.3
14	3.0	8.4	16	7.0	7.5	63		1.9	2.0	.3	1.0	.5
15	3.4	8.4	12	7.5	8.0	53		1.8	1.1	.2	1.0	.4
16	3.3	7.8	12	8.0	9.0	302		1.2	.3	.1	1.0	.3
17	5.5	19	12	7.5	8.4	562		1.0	.3	0	1.1	1.6
18	3.9	13	11	7.0	7.5	720		1.2	.3	0	1.1	1.5
19	3.4	10	10	7.0	7.0	860		2.5	.3	0	.3	1.4
20	3.2	9.4	10	7.5	7.0	375		2.5	1.4	0	.1	1.5
21	3.0	7.8	9.8	7.5	7.5	280	10	2.8	.2	0	.1	1.5
22	3.3	5.1	9.4	7.0	7.5	211		2.8	.2	0	.1	1.5
23	3.4	8.0	9.4	8.7	7.2	185		1.1	.1	.3	.1	1.5
24	3.6	9.4	8.7	9.0	7.8	194		.6	0	.2	.1	1.5
25	3.7	10	8.7	6.2	8.0	162		.6	.2	.1	.1	1.9
26	3.9	8.4	8.0	7.0	8.0	154		1.4	.2	.1	.1	1.9
27	3.7	7.5	8.0	7.0	8.0	120		2.9	.3	0	.1	1.6
28	3.6	8.4	8.0	7.8	8.0	86		2.9	.3	0	0	1.8
29	3.9	7.5	8.0	7.0	-	70		2.7	.2	0	.1	1.9
30	4.4	7.2	8.0	7.0	-	54		2.5	.1	0	.1	2.1
31	3.9	-	8.0	6.5	-	57	-	2.3	-	0	.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	100.6	5.5	2.2	3.25	200
November	459.2	162	4.4	15.3	911
December	917.1	211	8.0	29.6	1,820
Calendar year	-	-	-	-	-
January	232.7	9.0	6.2	7.51	462
February	213.9	9.0	6.5	7.64	424
March	4,914.8	860	8.0	159	9,750
April	591	-	-	19.7	1,170
May	82.4	-	.6	26.6	163
June	34.6	2.3	0	1.15	69
July	7.4	1.0	0	.24	15
August	14.6	1.2	0	.47	29
September	27.7	2.1	.2	.92	55
Water year 1938-39	7,596.0	860	0	20.8	15,070

King Hill Creek near King Hill, Idaho

Location.- Staff gage, lat. 43°01', long. 115°14', in SW¼ sec. 2, T. 5 S., R. 10 E., at road bridge on Worth Montgomery ranch, 1½ miles upstream from mouth and 1¾ miles northwest of King Hill.

Drainage area.- 83.6 square miles.

Records available.- April 1938 to September 1939. February to May 1913, at site 1½ miles upstream.

Extremes.- Maximum discharge observed during year, 391 second-feet Dec. 3 (gage height, 4.70 feet), from rating curve extended above 350 second-feet; minimum discharge not determined.

1913, 1938-39: Maximum discharge, that of Dec. 3, 1938; minimum, 0.2 second-foot Feb. 21, 22, 1913, or may have been less during period Aug. 1 to Sept. 30, 1939.

Remarks.- Records good except those for periods of backwater effect from temporary diversion dam, July 3-17, July 19 to Sept. 30, which were estimated and are poor. Result of discharge measurement shown for August 22 and of field estimate for Sept. 28. Several diversions above station for irrigation. Gage read twice daily.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	3.9	3.9	5.6	5.4	4.8	119	18	1.4	0.8		
2	.5	3.6	7.5	5.6	5.1	6.0	128	17	1.4	.8		
3	.5	6.0	220	5.8	5.0	6.4	112	14	1.4			
4	.6	210	133	5.6	5.3	7.5	113	13	1.3			
5	.6	28	48	5.3	5.1	8.0	110	9.3	1.3			
6	.6	15	18	5.1	5.0	9.3	107	7.4	1.3			
7	.6	12	14	4.6	5.1	9.6	90	6.6	1.2			
8	.6	8.6	13	4.8	5.3	9.6	61	6.2	1.2			
9	.6	6.6	12	4.3	5.4	18	56	5.0	1.2			
10	.7	5.6	11	5.0	5.4	27	53	3.5	1.2	.8		
11	.6	2.7	11	5.0	5.4	65	47	1.9	1.2			
12	.6	2.2	9.3	5.0	5.4	25	50	2.0	1.1			
13	.6	2.6	6.4	4.3	5.4	23	45	3.7	1.1			
14	1.2	3.5	9.2	4.3	5.8	28	40	3.5	1.0			
15	2.7	4.8	9.8	3.9	6.2	20	40	3.2	1.0			
16	6.0	4.6	9.8	3.9	6.4	122	34	3.5	1.0			
17	5.1	4.0	9.3	3.7	6.7	122	30	3.2	1.0			
18	5.6	3.5	7.7	4.2	7.3	135	29	2.5	1.0	.5		
19	5.1	3.5	6.7	4.2	7.1	110	28	2.5	1.0			
20	4.6	4.6	7.1	3.5	7.1	105	25	2.6	.9			
21	5.6	3.9	5.3	3.6	4.8	105	24	2.6	1.0			
22	5.4	3.5	6.2	3.9	4.8	100	23	2.4	1.0		0.2	
23	5.6	3.5	6.0	3.9	5.0	95	22	2.4	1.0			
24	5.4	3.6	5.8	3.6	4.8	97	20	2.2	1.0			
25	4.5	3.5	5.8	4.0	4.8	113	20	1.9	.8	.4		
26	4.2	3.4	5.6	3.9	5.8	129	20	1.9	.8			
27	4.0	2.3	5.6	3.7	6.6	146	19	1.8	.8			
28	3.1	3.5	5.6	5.3	5.7	116	18	1.6	.8			0.2
29	3.1	3.7	5.8	5.1	-	114	18	1.5	.8			
30	3.0	4.0	5.6	5.1	-	115	19	1.5	.8			
31	3.6	-	5.6	5.1	-	114	-	1.5	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	85.4	6.0	0.5	2.75	169
November	370.2	210	2.2	12.3	734
December	629.6	220	3.9	20.3	1,250
Calendar year	-	-	-	-	-
January	140.9	5.8	3.5	4.55	279
February	157.2	7.3	4.8	5.61	312
March	2,105.2	146	4.8	67.9	4,180
April	1,520	128	18	50.7	3,010
May	149.9	18	1.5	4.84	297
June	32.0	1.4	.8	1.07	63
July	19.3	-	-	.62	38
August	6.2	-	-	.20	12
September	6.0	-	-	.20	12
Water year 1938-39	5,221.9	220	-	14.3	10,360

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 1939. November 1909 to June 1913 (fragmentary) at site downstream in sec. 30, at Glenns Ferry.

Extremes.- Maximum discharge during period, 136 second-feet about Mar. 19 (gage height, 4.24 feet, from high-water marks); minimum discharge observed, 0.1 second-foot Aug. 14-18, Aug. 22 to Sept. 17, Sept. 25-30; minimum gage height, 0.96 foot Aug. 22-24, 26.

Remarks.- Records good. Diversions above station for irrigation. Gage read once daily.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			-	1.2	1.2	4.4	35	10	2.5	0.6	0.7	0.1
2			-	1.2	1.3	4.4	37	10	2.7	.6	.6	.1
3			-	1.2	1.6	3.5	33	9.6	2.5	.5	.6	.1
4			-	1.2	2.0	3.7	32	8.6	2.1	.6	.6	.1
5			9.4	1.2	1.8	2.8	30	8.2	1.7	.8	.6	.1
6			7.3	1.2	2.0	3.5	27	6.8	1.8	1.1	.5	.1
7			5.8	.8	2.1	3.2	26	7.1	1.5	.8	.4	.1
8			13	.8	2.3	3.5	24	6.3	1.3	.6	.2	.1
9			13	1.1	2.5	4.6	24	4.6	1.2	.8	.2	.1
10			9.8	1.7	2.3	10	23	2.6	1.2	.8	.2	.1
11			3.2	1.2	2.1	13	21	3.0	1.0	1.1	.2	.1
12			2.5	1.1	2.4	14	19	3.2	.8	.5	.2	.1
13			5.9	1.1	2.2	18	18	3.0	.7	.4	.2	.1
14			6.4	.9	2.6	20	16	3.0	.5	.4	.1	.1
15			5.7	.8	3.0	27	14	3.7	.6	.4	.1	.1
16			3.8	1.2	3.0	33	12	3.9	.8	.5	.1	.1
17			3.4	1.1	3.0	37	9.0	4.1	1.1	.4	.1	.1
18			2.5	1.4	2.7	83	7.5	5.3	.7	.4	.1	.2
19			2.7	1.6	2.5	104	4.6	4.6	.6	.4	.2	.2
20			2.1	1.4	2.7	59	4.6	4.1	.6	.5	.2	.2
21			1.9	1.1	3.1	56	5.2	3.7	.5	.4	.2	.2
22			1.6	1.1	3.1	56	6.1	3.9	.6	.5	.1	.2
23			1.6	1.2	2.8	52	5.6	3.9	.6	.5	.1	.2
24			1.4	1.6	1.8	52	5.9	3.2	.6	.5	.1	.2
25			1.2	1.4	6.1	56	5.2	2.6	.5	.5	.1	.1
26			1.6	1.4	5.1	52	4.6	2.6	.6	.5	.1	.1
27			1.9	1.2	3.0	49	4.0	3.0	.5	.5	.1	.1
28			2.3	1.4	3.9	39	4.3	2.8	.4	.5	.1	.1
29			1.7	1.2	-	35	8.4	3.0	.8	.5	.1	.1
30			1.4	1.4	-	33	11	2.9	.6	.6	.1	.1
31			1.1	1.2	-	33	-	2.5	-	.8	.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November	-	-	-	-	-
December 5-31	114.2	13	1.1	4.23	227
Calendar year	-	-	-	-	-
January	37.6	1.7	.8	1.21	75
February	74.2	6.1	1.2	2.65	147
March	964.6	104	2.6	31.1	1,910
April	477.0	37	4.0	15.9	946
May	145.8	10	2.5	4.70	289
June	31.6	2.7	.4	1.05	63
July	18.0	1.1	.4	.58	36
August	7.3	.7	.1	.24	14
September	3.7	.2	.1	.12	7.3
The period	-	-	-	-	3,710

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 of Bennett Creek and 7½ miles southwest of Bennett post office (Dixie store).

Drainage area.- 21.3 square miles.

Records available.- May 1938 to September 1939.

Extremes.- Maximum discharge during year, 95 second-feet Mar. 24 (gage height, 2.71 feet); practically no flow Sept. 16-25.
1938-39: Maximum discharge, that of Mar. 24, 1939; minimum, that of Sept. 16-25, 1939.

Remarks.- Records good except those for periods of ice effect or missing gage heights, Nov. 23-25, Nov. 27 to Mar. 8, Mar. 19-21, which were computed on basis of weather records and records for Moore Creek near Arrowrock and are fair. Discharge interpolated Oct. 22, July 13-17. No regulation or diversion above station; many diversions for irrigation below.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	1.2	-		*1.2		35	12	3.9	1.2	0.4	0.2
2	1.8	.9	*2.1				33	11	3.9	1.1	.4	.2
3	1.2	1.4	-				30	11	3.6	1.0	.3	.2
4	.8	13	-	*1.9			28	11	3.6	1.2	.2	.1
5	.8	7.4	-			1.0	26	10	3.5	1.3	.2	.1
6	.8	5.4	-				23	10	3.4	1.2	.2	.2
7	.8	4.6	-				23	9.7	3.2	1.0	.2	.2
8	.8	4.4	-				22	9.3	3.1	.8	.2	.2
9	.8	4.2	-			1.0	21	9.2	3.1	.7	.2	.2
10	.8	3.6	-			1.2	20	9.0	3.0	.7	.2	.1
11	.8	3.1	*4.4			1.5	19	9.0	2.8	.6	.2	.1
12	.8	2.9	-			2.0	18	8.6	2.5	.5	.2	.1
13	.8	3.0	-			2.6	16	7.9	2.2	.5	.2	.1
14	.8	2.9	*3.4			3.2	15	7.6	2.1	.5	.1	.1
15	1.1	2.7	-			3.5	15	7.4	2.1	.5	.2	.1
16	1.0	2.7	-			4.5	14	7.3	2.4	.5	.2	0
17	1.0	3.2	-			8.4	14	7.1	2.3	.5	.2	0
18	1.1	2.9	-			17	14	6.9	2.3	.5	.2	0
19	1.0	2.5	-			40	14	6.6	2.3	.5	.2	0
20	.9	2.6	*3.0			50	13	6.3	2.2	.5	.2	0
21	.8	2.2	-			60	13	5.9	2.0	.5	.2	0
22	.8	2.0	-			72	13	5.7	1.8	.4	.2	0
23	.9	1.5	-			68	13	5.6	1.7	.4	.2	0
24	.9	1.6	-			68	13	5.5	1.6	.4	.2	0
25	.8	1.9	-			66	13	5.0	1.5	.4	.2	0
26	.9	*1.8	-			62	12	5.0	1.5	.3	.2	.1
27	.8	1.7	-			58	11	4.8	1.4	.3	.2	.1
28	.8	1.6	-			44	11	4.6	1.2	.3	.2	.1
29	.8	1.6	-			41	11	4.4	1.1	.3	.2	.1
30	.8	1.7	*2.1			37	12	4.2	1.0	.5	.2	.1
31	.7	-	-			36	-	4.0	-	.6	.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	27.6	1.8	0.7	0.89	0.042	0.05	55
November	92.2	13	.9	3.07	.144	.16	183
December	77.5	-	-	2.5	.117	.13	154
Calendar year	-	-	-	-	-	-	-
January	46.5	-	-	1.5	.070	.08	92
February	28.0	-	-	1.0	.047	.05	56
March	754.9	72	-	24.4	1.15	1.33	1,500
April	535	35	11	17.8	.836	.93	1,060
May	231.6	12	4.0	7.47	.351	.40	459
June	72.3	3.9	1.0	2.41	.113	.13	143
July	19.7	1.3	.3	.64	.030	.03	39
August	6.6	.4	.1	.21	.010	.01	13
September	2.7	.2	0	.09	.004	.004	5.4
Water year 1938-39	1,894.6	72	0	5.19	.244	3.304	3,760

*Computed from staff-gage reading.

Mountain Home feeder canal near Mountain Home, Idaho

Location.- Water-stage recorder above concrete control, lat. 43°13', long. 115°42', in sec. 36, T. 2 S., R. 6 E., 30 feet downstream from point of diversion from Canyon Creek and 5 miles north of Mountain Home.

Records available.- April 1924 to September 1929, April 1931 to September 1939.

Extremes.- Maximum discharge during year, 134 second-feet Mar. 21 (gage height, 1.90 feet); minimum not determined.
1924-29, 1931-39: Maximum discharge, 226 second-feet Feb. 21, 1927 (gage height, 2.18 feet, former datum); no flow for long periods in each year.

Remarks.- Records good except those for Sept. 18-30, which were computed on basis of information furnished by watermaster and are fair. Discharge interpolated Oct. 1, July 13. Canal diverts from Canyon Creek in sec. 36, T. 2 S., R. 6 E., and delivers water for irrigation of about 5,000 acres included in project of Mountain Home Irrigation District to Mountain Home cooperative canal, which heads in Mountain Home feeder canal half a mile below station. At times when there is a surplus of water for irrigation, canal feeds directly into Mountain Home Reservoir. No diversions from canal above station; three small diversions between station and head gates of Mountain Home cooperative canal. Flow regulated by operation of head gates on Canyon Creek and by storage in Long Tom and Little Camas Reservoirs. Gage-height record furnished by Mountain Home Irrigation District.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	5				-	58	85	62	85	31	27
2	16	5				-	55	82	62	83	24	35
3	21	5				-	51	81	61	82	20	37
4	21	16				-	48	81	62	74	23	35
5	20	18				-	44	81	61	71	25	39
6	20	18				-	41	79	53	56	28	46
7	19	15				-	38	76	51	52	35	48
8	19	13				7	36	74	38	50	42	48
9	19	12				10	34	76	35	48	48	45
10	19	11				37	32	76	42	49	50	44
11	19	11				29	32	68	41	60	54	51
12	18	10				31	30	58	51	61	52	49
13	18	9				39	29	55	53	60	61	48
14	17	9	*11			26	27	55	54	59	71	42
15	19	9				25	26	62	54	58	73	32
16	17	9				36	25	70	55	57	72	24
17	16	-				56	24	73	55	56	74	*6
18	14	-				85	23	71	55	56	73	5
19	12	-				107	22	70	54	56	65	4
20	7	*5				114	20	71	52	55	55	3
21	6	-				115	20	73	53	54	55	2
22	6	-				108	20	76	52	53	55	1
23	6	-				99	19	75	52	52	55	1
24	5	-				100	38	76	53	52	54	1
25	5	*4				100	76	75	53	53	46	1
26	4	-				95	85	75	53	57	42	1
27	4	-			*1	87	84	76	64	54	44	1
28	4	-		*5		75	83	74	70	49	45	1
29	4	-				69	84	69	81	41	41	1
30	4	-				64	85	67	82	35	36	1
31	3	-				60	-	67	-	31	29	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	398	21	3	12.8	789
November 1-16	175	18	5	10.9	347
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March 8-31	1,574	115	7	65.6	3,120
April	1,289	85	19	43.0	2,560
May	2,247	85	55	72.5	4,460
June	1,664	82	35	55.5	3,300
July	1,759	85	31	56.7	3,490
August	1,478	74	20	47.7	2,930
September	679	51	1	22.6	1,350
Water year	-	-	-	-	-

*Determined from staff-gage reading.

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 1939.

Extremes.- Maximum discharge during year, 86 second-feet Apr. 30 (gage height, 1.42 feet); no flow Oct. 11 to Dec. 14, Dec. 17 to Apr. 20, Sept. 18-30
1924-29, 1931-39: Maximum discharge, 109 second-feet July 16, 1925 (gage height, 1.69 feet, former datum); no flow during nonirrigation seasons except occasional stock-water runs.

Remarks.- Records good except those for Dec. 15, 16, Apr. 21, Sept. 17, which were computed on basis of information furnished by watermaster and are fair. No diversions between station and head of canal. Flow regulated by operation of gates at head of canal and operation of Long Tom and Little Camas Reservoirs. Canal diverts from Mountain Home feeder canal. Water is used for irrigation on about 5,000 acres of Mountain Home irrigation district. Gage-height record furnished by Mountain Home Irrigation District.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21		0			0	0	80	61	80	28	25
2	16		0			0	0	79	59	80	21	31
3	18		0			0	0	77	59	82	17	34
4	17		0			0	0	77	59	73	19	33
5	18		0			0	0	77	59	67	21	36
6	18		0			0	0	74	51	52	24	42
7	18		0			0	0	72	48	47	30	43
8	18		0			0	0	71	36	47	37	43
9	18		0			0	0	71	34	47	43	42
10	8		0			0	0	71	40	47	44	39
11	0		0			0	0	60	33	57	47	45
12	0		0			0	0	51	33	58	46	46
13	0		0			0	0	47	32	57	54	44
14	0		0			0	0	48	30	57	67	39
15	0		1			0	0	57	37	57	71	29
16	0		1			0	0	66	35	55	70	9
17	0		0			0	0	68	29	54	71	2
18	0		0			0	0	67	35	53	68	0
19	0		0			0	0	67	25	55	60	0
20	0		0			0	0	68	24	54	51	0
21	0		0			0	8	71	26	53	51	0
22	0		0			0	11	75	35	53	51	0
23	0		0			0	13	75	44	52	51	0
24	0		0			0	29	75	47	52	51	0
25	0		0			0	50	74	48	52	44	0
26	0		0			0	62	75	47	55	42	0
27	0		0			0	71	76	57	52	43	0
28	0		0			0	77	74	67	47	45	0
29	0		0			0	76	68	78	39	39	0
30	0		0			0	80	65	79	31	36	0
31	0		0			0	-	66	-	28	28	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	170	21	0	5.5	337
November	0	0	0	0	0
December	2	1	0	.1	4.0
Calendar year 1938	7,768	77	0	21.3	15,420
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	477	80	0	15.9	946
May	2,142	80	47	69.1	4,250
June	1,349	79	24	45.0	2,680
July	1,693	82	28	54.6	3,360
August	1,370	71	17	44.2	2,720
September	582	46	0	19.4	1,150
Water year 1938-39	7,785	82	0	21.3	15,450

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 from Bruneau.

Records available.- December 1938 to September 1939.

Extremes.- Maximum discharge recorded during period, 500 second-feet Mar. 20 (gage height, 4.30 feet); no flow May 11 to Sept. 30.

Remarks.- Records good except those for Mar. 18, 19 (computed from partly estimated graph), which are fair, and those for Dec. 1 to Feb. 28 (estimated), which are poor. No regulation.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

0.8	0	1.5	9.5	2.0	60.5	4.0	440
1.1	1.2	1.6	16	2.2	92	4.3	500
1.2	2.0	1.7	24.5	2.6	164		
1.3	3.2	1.8	35	3.0	240		
1.4	5.5	1.9	47	3.5	340		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			*1.5			0.4	10	1.8				
2			†1.6			1.6	9.1	2.6				
3			-			1.0	8.7	2.0				
4			-			.2	7.9	1.8				
5			-			.3	7.1	1.7				
6			-			1.0	6.3	1.1				
7			-			.8	5.3	1.1				
8			-			1.0	5.0	1.0				
9			-			.5	4.8	.9				
10			-			.4	4.6	.8				
11			-			.3	4.4	.9				
12			-			.4	4.1	.7				
13			-			.5	5.3	.6				
14			-			.6	5.0	.5				
15			-			1.1	4.4	.2				
16			-			1.0	3.9	0				
17			-			3.4	3.2	0				
18			-			25	3.0	0				
19			-			250	3.0	0				
20			†1.0			440	2.8	0				
21			-			280	2.7	0				
22			-			200	2.7	0				
23			-			160	1.4	0				
24			-			129	1.5	0				
25			-			90	1.6	0				
26			-			62	1.4	0				
27			-			48	1.2	0				
28			-			45	1.1	0				
29			-			37	1.1	0				
30			-			24	1.7	0				
31			-			15	-	0				

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November	-	-	-	-	-
December	31.0	-	-	1.00	61
Calendar year	-	-	-	-	-
January	15.5	-	-	.50	31
February	19.6	-	-	.70	39
March	1,819.5	440	0.2	58.7	3,610
April	124.3	10	1.1	4.14	247
May	17.7	2.6	0	.57	35
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
The period	-	-	-	-	4,020

*Field estimate.
†Discharge measurement.

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Jacks Creek near Bruneau, Idaho

Location.- Water-stage recorder, lat. 42°47', long. 115°59', in sec. 27, T. 7 S., R. 4 E., 650 feet upstream from confluence with Wickahoney Creek and 11 miles southwest of Bruneau. Prior to May 3, staff gage at same site and datum.

Records available.- November 1938 to September 1939.

Extremes.- Maximum discharge during period, about 700 second-feet Mar. 18 (gage height, 6.0 feet from high-water mark) from rating curve extended logarithmically above 50 second-feet; no flow during most of period.

Remarks.- Records fair except those for Mar. 16 (estimated) and Mar. 17, 18 (determined from graph drawn on basis of five staff-gage readings and high-water mark), which are poor. Discharge interpolated Mar. 24, 27. No regulation; ranch diversions upstream. Staff gage read once daily prior to May 3, when recorder was installed.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

1.3	0.1	1.7	2.3	2.1	11.7	2.8	47
1.4	.2	1.8	3.9	2.2	15.3	3.0	61
1.5	.5	1.9	6.0	2.4	24	3.3	88
1.6	1.2	2.0	8.6	2.6	34.5	3.6	122

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0				0		0
2						0				0		0
3						0				0		0
4						0				0		0
5						0				0		0
6						0				0		0
7						0				0		0
8						0				0		0
9						0				0		0
10						0				0		0
11						0				0		0
12						0				0		0
13						0				0		.2
14						0				0		.1
15						0				0		0
16						10				0		0
17						50				0		0
18						110				0		0
19						38				0		0
20						38				0		0
21						43				0		0
22						78				0		0
23						30				0		0
24						18				0		0
25						6.8				0		0
26						5.6				0		0
27						12				0		0
28						19				.1		0
29						2.3				0		0
30						1.1				0		0
31						.3				0		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November 28-30	0	0	0	0	0
December	0	0	0	0	0
Calendar year	-	-	-	-	-
January	0	0	0	0	0
February	0	0	0	0	0
March	462.1	110	0	14.9	917
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0.1	0.1	0	0	0.20
August	0	0	0	0	0
September	0.3	0.2	0	0.01	0.60
The period	-	-	-	-	918

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, about 6,130 feet.

Drainage area.- 209 square miles.

Records available.- October 1936 to September 1939. March 1916 to September 1925, at site 1,200 feet upstream.

Extremes.- Maximum discharge during year, 693 second-feet Mar. 24 (gage height, 5.40 feet), from rating curve extended above 400 second-feet; practically no flow at times when reservoir gates were closed.

1916-25, 1936-39: Maximum discharge, 1,810 second-feet May 5, 1922 (gage height, 10.11 feet, former site and datum), from rating curve extended above 400 second-feet; practically no flow at times when reservoir gates were closed.

Remarks.- Records good except those for periods of missing gage heights, July 17 to Aug. 4, Sept. 25-30, which were computed on basis of records for station at Mountain City and are fair. Small diversions for irrigation above station. Flow regulated by storage in Wild Horse Reservoir, 500 feet upstream (capacity, 32,600 acre-feet).

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

0.8	1	2.0	31	3.6	231
.9	1.5	2.2	44	4.0	317
1.0	2	2.4	61	4.5	439
1.2	4.5	2.6	80	5.0	575
1.4	8	2.8	103	5.5	724
1.6	14	3.0	130		
1.8	21	3.3	177		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0		0	150	140	138	187
2						0		0	150	140	138	175
3						0		0	151	139	137	191
4						0		0	151	139	137	208
5						0		0	150	136	136	184
6						0		0	150	138	133	65
7						0		0	150	138	130	11
8						0		0	150	138	127	9
9						0		0	150	138	136	8
10						0		3	150	138	167	7
11						0		17	150	136	166	7
12						0		27	150	136	163	7
13						0		32	150	136	161	7
14						0		44	150	107	159	6
15						0		50	150	134	158	6
16						0		46	148	133	158	6
17						0		67	148	132	158	6
18						0		132	148	132	156	6
19						0		120	148	131	156	5
20						0		140	148	131	156	5
21						0		158	147	131	155	5
22						0		158	147	130	155	6
23						287		156	147	130	153	5
24						693		156	145	75	151	5
25						207		156	145	20	150	5
26						0		156	145	140	148	5
27						305		153	144	140	191	5
28						681		153	144	140	218	5
29						681		151	142	139	212	5
30						258		151	142	139	205	5
31						0		150	-	139	198	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	-	-	0	0
November	0	-	-	0	0
December	0	-	-	0	0
Calendar year 1938	11,824	413	0	32.4	23,450
January	0	-	-	0	0
February	0	-	-	0	0
March	3,112	693	0	100	6,170
April	0	-	-	0	0
May	2,376	158	0	76.6	4,710
June	4,440	151	142	148	8,810
July	4,017	140	20	130	7,970
August	4,906	218	127	158	9,730
September	1,157	208	5	38.6	2,290
Water year 1938-39	20,008	693	0	54.8	39,680

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 1939.

Average discharge.- 13 years (1926-39), 89.5 second-feet.

Extremes.- Maximum discharge during year, 1,240 second-feet Mar. 24 (gage height, 6.05 feet), from rating curve extended above 600 second-feet; minimum, 6 second-feet Oct. 6, 13-14.

1913, 1927-39: 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 period of ice effect, Nov. 8 to Mar. 18 (computed on basis of temperature records) and those for periods of missing gage heights, Oct. 1-3 (interpolated), Aug. 16-20, Sept. 12-18, 20-25, 27-30 (computed on basis of records for station near Gold Creek), all of which are fair. Diversions above station for irrigation. Flow affected by storage in Wild Horse Reservoir (capacity, 32,600 acre-feet).

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	12				10	399	237	214	154	139	202
2	7	14				10	388	214	212	152	137	190
3	7	14				10	360	206	210	150	139	178
4	7	21				10	386	200	210	152	141	218
5	7	26				10	357	194	210	156	141	208
6	6	22				10	300	184	208	152	141	154
7	7	23				10	272	167	202	154	139	39
8	7	22				10	285	157	196	150	137	26
9	9	22				10	312	148	200	146	130	23
10	8	20				11	269	150	196	144	165	20
11	7	20				12	245	174	188	144	167	16
12	7	18				14	232	174	184	142	165	15
13	6	18				16	224	165	182	141	165	14
14	6	16				18	196	163	178	119	163	14
15	8	16				20	174	171	176	133	165	14
16	9	16				25	159	159	184	137	164	13
17	10	16				30	154	152	188	137	163	13
18	11	16				40	157	222	190	137	162	13
19	11	16				76	171	224	190	137	161	13
20	10	16				169	182	224	184	135	160	13
21	10	16				302	190	247	176	137	159	13
22	11	16				402	194	249	173	137	159	13
23	11	14				436	194	245	169	137	159	12
24	10	14				1,100	198	239	161	135	159	12
25	10	14				1,180	184	232	161	39	156	12
26	10	14				480	167	222	163	91	154	12
27	10	14				418	159	218	165	144	161	12
28	10	14				900	165	218	161	146	222	12
29	10	14				1,090	184	216	159	144	220	13
30	10	14				1,040	243	212	156	144	216	13
31	10	-				381	-	216	-	141	208	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	270	11	6	8.7	536
November	508	26	12	16.9	1,010
December	372	-	-	12	738
Calendar year 1938	43,271	1,430	6	119	85,840
January	341	-	-	11	676
February	280	-	-	10	555
March	8,250	1,180	10	266	16,360
April	7,100	399	154	237	14,080
May	6,199	249	148	200	12,300
June	5,546	214	156	185	11,000
July	4,267	156	39	138	8,460
August	5,017	222	130	162	9,950
September	1,520	218	12	50.7	3,010
Water year 1938-39	39,670	1,180	6	109	78,680

Owyhee River above China diversion dam, near Owyhee, Nev.

Location.- Water-stage recorder, lat. 41°55', long. 116°05', in NW¼ sec. 6, T. 46 N., R. 53 E., 1,000 feet downstream from Skull Creek, 1 mile upstream from China diversion dam, and 2½ miles southeast of Owyhee.

Drainage area.- 458 square miles.

Records available.- March to April 1939.

Extremes.- Maximum discharge during period, 1,430 second-feet Mar. 25 (gage height, 6.76 feet), from rating curve extended above 240 second-feet; minimum daily discharge, 16 second-feet Sept. 25-28.

Remarks.- Records good except those for periods of missing gage heights, July 15-27, Sept. 12-30 (computed on basis of records for station at Mountain City), and those above 300 second-feet, which are fair. Diversions above station for irrigation. Flow regulated by storage in Wild Horse Reservoir (capacity, 32,600 acre-feet).

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	598	343	233	152	142	206
2						-	568	298	226	149	139	194
3						-	525	285	224	149	139	180
4						-	547	274	224	149	140	222
5						-	506	263	224	159	140	215
6						-	434	243	219	160	139	156
7						-	400	220	215	150	137	51
8						-	419	204	202	147	136	44
9						-	443	190	209	144	132	40
10						-	383	193	204	143	154	35
11						-	347	220	194	144	183	32
12						-	327	210	191	144	182	30
13						-	306	196	185	139	178	28
14						-	272	185	182	135	177	26
15						-	240	196	180	125	176	25
16						-	224	186	198	140	174	24
17						-	215	172	206	140	174	23
18						-	227	229	209	140	172	22
19						-	249	260	207	140	170	21
20						-	270	249	201	138	168	20
21						-	285	278	190	140	165	19
22						-	287	291	183	140	162	18
23						-	285	289	177	140	160	17
24						1,110	300	276	165	138	160	17
25						1,390	276	267	164	45	158	16
26						827	242	256	162	85	154	16
27						645	227	240	162	142	156	16
28						856	236	240	160	144	229	16
29						1,220	261	238	156	147	233	17
30						1,210	341	233	160	146	226	17
31						673	-	234	-	144	217	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 24-31	7,931	1,390	645	991	15,730
April	10,240	598	215	341	20,310
May	7,458	343	172	241	14,790
June	5,812	233	156	194	11,530
July	4,298	160	45	139	8,520
August	5,172	233	132	167	10,260
September	1,763	222	16	58.8	3,500
The period					84,640

Owyhee River above Owyhee Reservoir, Oreg.

Location.- Water-stage recorder, lat. 43°13' (revised), 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. Zero of gage is about 2,690 feet above mean sea level (surveys of Bureau of Reclamation).

Drainage area.- 10,400 square miles.

Records available.- October 1930 (year published in previous reports in error) to September 1939 in reports of Geological Survey. April 1929 to September 1936 in reports of Oregon State engineer.

Extremes.- Maximum discharge during year, 12,200 second-feet Mar. 23 (gage height, 11.53 feet); minimum, 178 second-feet Sept. 30 (gage height, 3.84 feet).

1929-39: 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 excellent. Diversions above station for irrigation. Discharge slightly regulated by storage in 11 small reservoirs, which have a total capacity of 52,000 acre-feet. Water-stage recorder inspected and some discharge measurements furnished by Bureau of Reclamation.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

3.8	168	5.0	610	7.0	2,200	10.0	7,550
4.0	219	5.5	930	7.5	2,770	11.0	10,600
4.3	309	6.0	1,310	8.0	3,450	12.0	13,900
4.6	420	6.5	1,720	9.0	5,180		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	198	239	241	256	230	230	6,040	762	408	262	206	206
2	206	230	241	256	225	236	6,040	724	392	256	203	211
3	201	227	250	256	225	239	5,600	718	373	256	193	211
4	198	239	265	250	222	244	4,990	736	350	253	186	216
5	198	233	268	247	214	239	4,610	750	340	253	193	233
6	198	265	268	241	216	236	4,250	712	333	247	196	241
7	198	303	290	244	227	230	3,910	658	329	241	198	241
8	196	271	287	241	227	241	3,600	616	326	236	201	241
9	196	271	293	233	227	241	3,240	599	316	239	203	247
10	198	326	354	222	222	283	3,030	582	319	236	206	247
11	196	303	354	230	222	336	2,840	545	316	239	209	256
12	193	287	347	244	219	404	2,710	515	312	230	209	262
13	196	274	369	247	219	1,010	2,590	492	306	230	203	268
14	196	265	287	241	230	1,000	2,420	530	299	219	203	247
15	201	262	247	239	241	895	2,200	604	293	219	201	239
16	203	259	247	233	236	1,230	2,000	572	287	211	201	230
17	211	244	283	230	230	2,000	1,680	515	283	211	203	225
18	225	253	296	230	227	3,450	1,680	510	293	214	203	214
19	233	256	283	230	227	4,990	1,590	460	296	219	206	209
20	233	256	277	227	227	5,820	1,470	440	296	219	209	201
21	233	256	274	222	225	7,550	1,390	456	290	219	206	201
22	227	259	271	225	222	10,250	1,350	469	290	219	206	198
23	227	253	274	225	227	11,200	1,270	496	296	216	206	193
24	227	241	271	214	227	10,900	1,230	520	293	214	206	188
25	227	230	271	214	230	10,600	1,190	510	290	219	209	190
26	225	219	262	209	227	9,620	1,150	505	290	216	209	188
27	225	230	253	222	230	9,310	1,070	510	283	214	211	186
28	222	239	250	227	233	9,310	1,000	496	280	211	211	183
29	222	239	250	230	-	8,700	965	482	274	209	209	188
30	227	241	250	233	-	7,280	860	460	268	203	209	180
31	233	-	256	230	-	6,270	-	428	-	209	209	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,569	233	193	212	13,030
November	7,670	326	219	256	15,210
December	8,629	369	241	278	17,120
Calendar year 1938	463,317	12,500	133	1,269	919,000
January	7,248	256	209	234	14,380
February	6,334	241	214	226	12,560
March	124,544	11,200	230	4,018	247,000
April	77,965	6,040	860	2,599	154,600
May	17,372	762	428	560	34,460
June	9,321	409	268	311	18,490
July	7,039	262	203	227	13,960
August	6,323	211	186	204	12,540
September	6,540	268	180	218	12,970
Water year 1938-39	285,554	11,200	180	782	566,300

Peak discharge.- Mar. 17 (1:00 p.m.) 2,770 sec.-ft.; Mar. 18 (1:30 p.m.) 4,800 sec.-ft.; Mar. 19 (10:00 a.m.) 6,760 sec.-ft.; Mar. 20 (9:00 a.m.) 7 280 sec.-ft.; Mar. 23 (2:30 a.m.) 12,200 sec.-ft.

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. Zero of gage is at mean sea level (surveys of Bureau of Reclamation).

Drainage area.- 11,160 square miles.

Records available.- October 1932 to September 1939.

Extremes.- Maximum contents observed during year, 1,122,000 acre-feet Apr. 12-21 (elevation, 2,670.00 feet); minimum observed, 775,400 acre-feet Sept. 30 (elevation, 2,638.75 feet).

1932-39: Maximum contents, 1,125,300 acre-feet June 11, 1936 (elevation, 2,670.27 feet); no storage Oct. 1-16, 1932.

Remarks.- Records excellent. Reservoir is formed by concrete dam, completed in September 1932; storage began Oct. 16, 1932. Capacity, 1,120,000 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 generally will not be drawn below elevation 2,590.2 feet. Water is released through diversion tunnel for irrigation of lands west of Snake River in the vicinity of Homedale, Idaho, and through sluice gates to river for Owyhee canal, which diverts about 18 miles downstream. Gage-height record and capacity table furnished by Bureau of Reclamation.

Correction.- The figure of elevation for Oct. 1, 1937, published in Water-Supply Paper 863 in error. The correct figure is 2,651.78 feet.

Elevation and contents, water year October 1938 to September 1939

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	2,651.38	903,100	-
Oct. 31	2,649.56	883,700	-19,400
Nov. 30	2,650.75	896,800	+13,100
Dec. 31	2,652.35	913,600	+16,800
Calendar year 1938	-	-	-49,600
Jan. 31	2,653.63	927,600	+14,000
Feb. 28	2,654.79	940,400	+12,800
Mar. 31	2,667.80	1,094,100	+153,700
April 30	2,669.37	1,113,800	+19,700
May 31	2,664.46	1,052,900	-60,900
June 30	2,659.41	992,900	-60,000
July 31	2,652.28	912,800	-80,100
Aug. 31	2,644.30	829,500	-83,300
Sept. 30	2,638.75	775,400	-54,100
Water year 1938-39	-	-	-127,700

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. Zero of gage is 2,343.67 feet above mean sea level (surveys of Bureau of Reclamation).

Drainage area.- 11,160 square miles.

Records available.- February 1929 to September 1939.

Average discharge.- 10 years, 464 second-feet.

Extremes.- Maximum discharge during year, 6,580 second-feet Apr. 1 (gage height, 8.71 feet); minimum, about 8.7 second-feet Oct. 5-15, Oct. 24 to Mar. 22.

1929-39: 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 above gage was closed.

Remarks.- Records good. Discharge for Oct. 6-13, Oct. 25 to Mar. 21 computed from record of leakage, furnished by Bureau of Reclamation, based on occasional readings of gage above a 6-foot Cippoletti weir. Diversions above station for irrigation. Flow regulated since Oct. 16, 1932, by Owyhee Reservoir (see p. 143). Water-stage recorder inspected and some discharge measurements furnished by Bureau of Reclamation.

Rating tables, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

Oct. 1-28

-0.1	9	1.3	138	4.0	1,240
0	12	1.6	197	5.0	1,970
.2	21	2.0	294	6.0	2,900
.4	34	2.5	443	7.0	4,060
.7	58	3.0	660	8.0	5,450
1.0	91	3.5	930	9.0	7,100

Mar. 22 to Sept. 30

0.3	28	2.0	304
.6	55	2.5	458
1.0	103	3.0	670
1.5	187	3.5	940

Note.- Same as preceding table below 0.2 foot and above 4.0 feet.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	130						5,300	234	193	218	181	183
2	130						5,000	234	193	218	181	183
3	130						4,860	234	193	218	181	183
4	78						4,580	234	191	218	181	185
5	11						4,190	234	179	218	181	183
6	8.7						2,810	234	66	216	181	183
7	8.7						2,260	234	92	218	181	183
8	8.7						1,850	234	174	216	181	183
9	8.7						1,210	234	163	214	181	183
10	8.7						904	234	155	214	191	183
11	8.7					8.7	578	234	161	214	205	183
12	8.7						1,260	234	154	214	205	183
13	8.7						2,090	234	187	214	205	154
14	55						1,700	234	180	214	205	135
15	143						1,340	218	21	211	209	140
16	143						802	211	20	211	218	138
17	143						516	211	126	211	218	138
18	143						578	199	207	211	218	138
19	143						578	187	207	211	218	138
20	143						492	161	207	211	218	138
21	143						294	131	207	211	218	138
22	143					30	225	133	214	211	218	138
23	143					1,310	231	133	218	211	218	138
24	59					4,000	231	133	218	211	218	138
25	8.7					5,610	231	135	218	193	203	138
26	8.7					5,300	231	166	218	181	183	138
27	8.7					6,300	231	191	218	181	183	138
28	8.7					5,150	231	193	220	181	183	69
29	8.7					5,150	155	193	218	181	183	10
30	8.7					5,150	23	193	218	181	183	10
31	8.7					5,300	-	193	-	181	183	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,010.5	143	8.7	64.9	3,990
November	261.0	-	-	8.7	518
December	269.7	-	-	8.7	535
Calendar year 1938	329,181.2	8,190	-	902	653,000
January	269.7	-	-	8.7	535
February	243.6	-	-	8.7	483
March	42,482.7	5,610	8.7	1,370	84,260
April	44,981	5,300	23	1,499	89,220
May	6,257	234	131	202	12,410
June	5,236	220	20	175	10,390
July	6,416	218	181	207	12,720
August	6,112	218	181	197	12,120
September	4,372	183	10	146	8,670
Water year 1938-39	118,910.2	5,610	-	326	235,900

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 1939.

Average discharge.- 28 years, 1,105 second-feet.

Extremes.- Maximum discharge during year, 4,290 second-feet Apr. 30 (gage height, 5.42 feet); minimum, 180 second-feet Jan. 22 (gage height, 1.86 feet).
1911-39: Maximum discharge, 10,300 second-feet May 17, 1927 (gage height, 8.30 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 diversion or regulation.

Rating tables, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Dec. 16				Dec. 17 to Sept. 30					
1.9	210	2.4	460	1.8	150	3.3	1,260	4.8	3,300
2.0	250	2.5	525	2.1	306	3.5	1,610	5.1	3,780
2.1	295	2.6	595	2.4	480	3.9	1,990	5.4	4,290
2.2	345	2.7	670	2.7	690	4.2	2,400		
2.3	400	2.8	750	3.0	950	4.5	2,840		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	356	442	499	385	*250	379	1,850	3,950	1,990	714	345	221
2	400	442	460	397	*270	368	1,990	3,700	1,730	675	334	226
3	506	454	473	414	*330	368	2,110	3,780	1,600	645	317	231
4	442	718	454	391	*390	356	2,330	3,860	1,560	660	317	231
5	394	567	448	397	403	351	2,190	3,780	1,450	730	312	236
6	400	424	436	368	385	345	1,870	3,380	1,320	706	301	231
7	418	400	430	274	351	356	1,690	2,990	1,230	622	295	226
8	400	442	466	279	356	351	1,710	2,760	1,120	587	290	231
9	406	466	480	*300	328	362	1,730	2,690	1,200	559	279	226
10	389	448	460	*350	340	379	1,600	2,760	1,150	538	279	221
11	389	389	378	*400	368	408	1,560	2,820	1,120	538	274	221
12	436	345	282	*350	385	426	1,570	2,620	1,140	526	268	295
13	394	424	242	345	345	468	1,490	2,540	1,170	500	257	438
14	384	436	330	351	328	462	1,410	2,540	1,220	500	252	374
15	436	430	*500	374	362	450	1,480	2,620	1,160	480	247	334
16	512	442	*500	368	257	462	1,570	2,760	1,260	462	247	306
17	460	473	456	374	306	566	1,630	2,760	1,150	450	242	279
18	430	430	420	379	379	730	1,820	2,690	1,050	438	236	263
19	418	406	456	385	420	931	2,080	2,690	1,010	426	236	257
20	406	424	397	362	408	1,200	2,260	2,330	990	408	231	247
21	400	367	408	306	391	1,360	2,540	2,080	931	403	231	247
22	389	295	403	252	385	1,550	2,840	1,920	874	391	226	247
23	384	305	426	263	403	1,710	2,840	1,780	864	379	231	242
24	384	350	468	334	397	1,910	2,760	1,660	874	374	236	242
25	378	*400	391	374	403	2,040	2,400	1,560	855	362	242	242
26	372	356	362	397	385	2,040	2,120	1,510	821	356	247	247
27	367	330	397	*440	374	1,870	2,120	1,600	787	351	236	242
28	362	367	426	*430	385	1,810	2,400	1,830	754	385	231	242
29	367	*470	414	*400	-	1,710	3,060	2,120	730	368	231	247
30	424	*540	408	*350	-	1,740	4,120	2,470	730	362	226	252
31	436	-	374	*300	-	1,800	-	2,330	-	374	221	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	12,639	512	356	408	0.492	0.57	25,070
November	12,782	718	295	426	.513	.57	25,350
December	13,044	500	242	421	.507	.58	25,870
Calendar year 1938	517,868	8,070	242	1,419	1.71	23.19	1,027,000
January	11,089	440	252	358	.431	.50	21,990
February	10,084	420	250	360	.434	.45	20,000
March	29,258	2,040	345	944	1.14	1.31	58,030
April	63,140	4,120	1,410	2,105	2.54	22.83	125,200
May	80,680	3,960	1,510	2,603	3.14	3.62	160,000
June	33,840	1,990	730	1,128	1.36	1.52	67,120
July	15,269	730	351	493	.594	.68	30,290
August	8,117	345	221	262	.316	.36	16,100
September	7,744	438	221	258	.311	.35	15,360
Water year 1938-39	297,686	4,120	221	816	.983	13.34	590,400

*Stage-discharge relation affected by ice; discharge computed on basis of two discharge measurements, gage heights, weather records, and records for Arrowrock Reservoir at Arrowrock and South Fork of Boise River near Lenox.

Arrowrock Reservoir at Arrowrock, Idaho

Location.- Graduations on 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. Zero of gage is at mean sea level (surveys of Bureau of Reclamation).

Drainage area.- 2,210 square miles.

Records available.- October 1917 to September 1939.

Extremes.- Maximum contents during year, 300,900 acre-feet May 4, 5 (gage height, 3,219.0 feet); minimum, 15,620 acre-feet Sept. 30 (gage height, 3,047.0 feet).
1917-39: Maximum contents, those of May 4, 5, 1939; 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 elevation 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. Project officials state that total capacity of reservoir 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-height record and capacity table furnished by Bureau of Reclamation.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Furnished by Bureau of Reclamation)

2,956	0	2,980	645	3,040	12,960	3,120	80,000	3,200	245,000
2,960	19	3,000	2,745	3,080	34,970	3,160	151,000	3,219	300,900

Contents, at 8 a.m., in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36,890	48,500	100,800	133,400	170,100	196,400	273,800	297,800	297,200	249,500	147,600	47,200
2	35,610	50,590	100,800	135,000	171,200	194,000	273,800	300,000	297,200	246,100	144,600	47,300
3	34,580	52,460	100,600	136,800	172,200	193,600	274,100	300,000	296,900	242,400	141,000	47,400
4	34,130	54,840	100,800	138,600	173,500	193,400	274,700	300,900	296,600	239,300	137,400	47,600
5	33,560	58,200	100,600	140,200	175,300	192,700	275,000	300,900	296,200	236,200	134,000	47,950
6	32,730	60,650	100,600	141,200	176,800	192,000	274,400	300,600	295,600	233,800	130,200	47,400
7	31,980	62,470	100,400	141,200	178,600	191,300	273,200	300,000	294,700	231,100	126,600	46,900
8	31,330	64,290	100,300	140,800	179,900	190,600	273,200	299,700	294,100	228,000	123,000	44,600
9	30,750	66,370	100,400	139,800	181,200	189,900	275,300	299,400	293,200	224,500	119,400	41,610
10	30,180	68,450	102,000	139,400	182,600	188,800	275,900	299,000	292,200	221,100	116,300	38,680
11	29,190	70,400	103,000	139,400	183,900	188,100	276,200	299,000	291,300	217,800	113,900	35,410
12	27,690	71,830	103,800	141,200	185,800	187,600	276,500	299,000	290,400	214,200	109,800	31,110
13	26,510	73,140	103,700	142,800	187,100	187,600	277,100	298,700	289,100	210,600	105,700	27,430
14	25,010	75,380	104,200	144,400	188,500	188,100	277,400	298,700	287,900	206,800	103,700	24,590
15	23,160	77,200	105,500	146,000	189,900	188,300	277,100	298,700	286,400	203,100	100,200	21,780
16	22,320	78,880	107,600	147,400	191,500	188,100	277,100	298,700	284,600	199,500	96,860	19,870
17	22,000	81,050	109,400	148,800	192,700	188,500	277,100	299,000	283,100	195,700	93,260	19,570
18	24,180	83,300	110,800	150,200	193,800	189,900	276,500	299,000	281,900	192,000	89,900	19,970
19	26,250	85,100	112,500	151,800	194,500	192,400	275,900	299,000	280,700	188,400	86,600	20,320
20	28,230	86,900	114,300	153,300	195,500	196,200	275,900	298,700	279,200	185,000	83,550	20,630
21	30,180	88,780	116,300	154,800	195,700	201,500	277,100	298,400	277,700	181,500	79,740	21,100
22	31,980	90,220	117,500	156,200	196,200	207,500	279,500	297,800	275,900	178,500	75,100	21,520
23	33,720	91,500	118,800	157,100	196,700	214,500	281,900	297,500	273,500	175,700	71,440	21,730
24	35,370	92,780	120,600	157,900	196,900	221,900	284,300	296,600	271,200	173,100	67,800	22,050
25	37,060	94,220	122,300	159,400	196,900	229,100	286,400	295,600	268,600	169,900	64,550	22,320
26	38,600	95,670	123,800	160,900	196,900	235,900	287,600	295,000	266,000	166,800	60,980	22,660
27	40,170	97,200	125,100	162,100	196,400	242,900	287,900	294,400	263,100	163,600	57,540	22,050
28	41,880	98,730	126,600	164,000	196,400	250,000	287,900	294,400	259,900	160,400	54,480	20,480
29	43,410	99,750	128,300	165,900	-	257,000	288,800	294,700	256,800	157,300	51,140	18,140
30	45,100	100,400	130,000	167,400	-	264,800	292,200	295,600	253,400	153,900	47,900	15,620
31	46,800	-	131,800	168,800	-	271,800	-	296,900	-	150,600	47,100	-

Monthly elevation and contents, water year October 1938 to September 1939

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	3,084.5	38,600	-
Oct. 31	3,093.3	46,800	+8,200
Nov. 30	3,132.9	100,400	+53,600
Dec. 31	3,150.4	131,800	+31,400
Calendar year 1938	-	-	+43,600
Jan. 31	3,168.5	168,800	+37,000
Feb. 28	3,180.8	196,400	+27,600
Mar. 31	3,209.4	271,800	+75,400
Apr. 30	3,216.2	292,200	+20,400
May 31	3,217.7	296,900	+4,700
June 30	3,203.0	253,400	-43,500
July 31	3,159.8	150,600	-102,800
Aug. 31	3,093.6	47,100	-103,500
Sept. 30	3,047.0	15,620	-31,480
Water year 1938-39	-	-	+43,500

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 (revised).

Records available.- March 1911 to September 1939.

Average discharge.- 28 years, 2,213 second-feet.

Extremes.- Maximum discharge during year, 7,250 second-feet May 5 (gage height, 6.65 feet); minimum, 2 second-feet Jan. 24 (gage height, 0.79 foot).

1911-39: Maximum discharge, 17,600 second-feet May 11, 1928 (gage height, 9.55 feet); minimum, 2 second-feet Nov. 19-27, 1935, Feb. 1-10, Oct. 30 to Nov. 5, Nov. 9, 27, 1936, Jan. 24, 1939; minimum gage height, 0.62 foot Nov. 21, 22, 1935.

Remarks.- Records good except those below 20 second-feet, which are fair. Discharge interpolated Feb. 10, 13-15. Flow regulated by Arrowrock Reservoir (capacity, 291,600 acre-feet). No diversions above station. Gage-height record furnished by Bureau of Reclamation. Results of four discharge measurements furnished by watermaster for Boise River.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,530	5	933	6	8	1,130	4,660	5,690	3,640	3,170	2,190	380
2	1,470	4	1,040	6	8	1,130	5,100	6,710	3,540	3,080	2,260	366
3	1,360	8	1,040	8	8	1,130	5,100	6,980	3,080	2,900	2,340	366
4	1,250	12	1,000	6	7	1,130	5,220	7,250	3,080	2,900	2,340	330
5	1,240	7	1,000	195	9	1,120	5,340	7,250	2,990	2,820	2,340	510
6	1,230	5	1,000	504	8	1,120	5,220	6,980	2,900	2,740	2,340	712
7	1,210	5	1,000	790	8	1,120	4,550	6,190	2,740	2,740	2,340	1,230
8	1,170	4	1,000	898	8	1,160	3,440	5,690	2,650	2,820	2,340	1,780
9	1,140	4	581	890	10	1,300	3,440	5,340	2,650	2,820	2,260	1,980
10	1,240	5	330	898	10	1,300	3,730	5,220	2,650	2,740	2,120	2,050
11	1,470	4	366	367	10	1,220	3,640	5,220	2,570	2,740	2,120	2,420
12	1,470	4	464	8	11	1,150	3,540	5,100	2,570	2,740	2,050	2,420
13	1,530	4	484	6	10	1,020	3,440	4,880	2,740	2,820	2,050	2,120
14	1,650	4	12	6	10	978	3,350	4,770	2,900	2,740	2,120	2,050
15	1,530	4	6	6	9	1,000	3,350	4,880	2,990	2,740	2,120	1,720
16	1,360	5	5	6	8	1,070	3,440	4,990	2,900	2,650	2,120	1,160
17	577	6	4	6	11	969	3,830	5,100	2,740	2,650	2,120	415
18	6	5	4	6	314	742	4,240	4,990	2,570	2,650	2,050	380
19	4	5	5	6	352	605	4,340	4,990	2,490	2,490	2,260	380
20	4	5	5	6	470	251	4,240	4,770	2,490	2,490	2,260	352
21	4	5	5	6	560	30	4,240	4,240	2,570	2,340	2,260	334
22	4	5	5	6	360	32	4,240	3,930	2,740	2,190	2,260	344
23	4	5	6	7	661	32	4,340	3,830	2,820	2,190	2,260	366
24	3	5	6	6	830	495	4,240	3,640	2,820	2,190	2,120	362
25	3	4	6	8	951	1,330	4,240	3,440	2,900	2,260	2,120	339
26	3	4	6	6	1,030	996	4,240	3,170	2,900	2,260	2,190	529
27	4	4	6	8	1,110	1,000	4,340	3,170	2,900	2,260	1,980	996
28	4	141	6	8	1,140	1,010	4,440	3,170	2,990	2,260	2,120	1,470
29	4	493	6	7	-	931	4,440	3,260	3,080	2,260	2,190	1,590
30	4	766	6	6	-	330	4,660	3,540	3,170	2,260	1,400	1,650
31	4	-	6	7	-	2,790	-	3,730	-	2,260	380	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	22,482	1,650	3	725	44,590
November	1,537	766	4	51.2	3,050
December	10,343	1,040	4	334	20,520
Calendar year 1938	1,118,471	14,400	3	3,064	2,218,000
January	4,701	898	6	152	9,320
February	8,131	1,140	7	290	16,130
March	29,621	2,790	30	956	58,750
April	126,630	5,340	3,350	4,221	251,200
May	152,110	7,250	3,170	4,907	301,700
June	85,770	3,640	2,490	2,859	170,100
July	80,190	3,170	2,120	2,587	159,100
August	65,420	2,340	380	2,110	129,800
September	31,101	2,420	330	1,037	61,690
Water year 1938-39	618,036	7,250	3	1,693	1,226,000

Boise River below Ridenbaugh canal at Barber, Idaho

Location.- Chain gage, lat. 43°34', long. 116°08', in SW¼ sec. 29, T. 3 N., R. 3 E., at bridge 100 feet downstream from heading of Ridenbaugh canal, half a mile downstream from Barber Dam, and 0.7 mile southwest of Barber post office. Zero of gage is 2,741.53 feet above mean sea level (Corps of Engineers, U. S. Army datum - Boise River Surveys).

Records available.- March 1938 to September 1939 (discontinued).

Extremes.- Maximum water-surface elevation observed during period, 2,753.41 feet Apr. 4; minimum observed, 2,748.17 feet Sept. 26.

1938-39: Maximum water-surface elevation observed, 2,755.32 feet May 2, 1938; minimum observed, 2,747.78 feet Apr. 2, 1938.

Remarks.- Records good. Gage read twice daily. Records collected in cooperation with Works Progress Administration, under Boise River Flood Control Project, to develop river profile.

Elevation, in feet, water year 1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49.19	49.12	48.89	-	49.41	-	53.03	51.61	50.06	49.81		
2	49.13	49.15	48.91	-	49.39	-	53.28	52.29	49.98			
3	49.19	49.27	48.91	-	49.47	-	53.29	52.71	49.95			
4	49.05	49.60	48.87	-	-	-	53.36	52.76	49.94			
5	48.95	49.74	48.87	-	-	-	53.15	52.76	50.06			
6	49.05	49.53	48.88	-	-	48.93	52.81	52.54	50.18			
7	48.94	49.44	48.90	-	-	48.90	52.33	51.85	50.15			
8	49.01	49.41	48.92	-	-	48.78	51.49	51.41	49.87			
9	49.02	49.38	49.05	-	-	48.80	51.17	51.03	49.97			
10	48.99	49.44	50.03	-	-	48.80	50.98	50.99	49.92			
11	48.99	49.38	50.27	-	-	48.80	50.86	50.99	49.86			
12	48.87	49.54	50.30	-	-	48.80	50.62	50.88	49.83			
13	48.77	49.56	50.48	-	-	48.80	50.43	50.77	49.90			
14	48.80	49.55	50.39	-	-	48.76	50.17	50.63	49.93			
15	48.82	49.50	49.45	-	-	48.78	50.08	50.61	50.04			
16	48.80	49.44	49.28	-	-	48.76	49.98	50.72	49.95			
17	48.82	49.49	49.22	-	-	48.75	50.19	50.83	49.88			
18	49.04	49.46	49.29	-	49.36	48.76	50.50	50.81	49.86			
19	48.98	49.47	49.39	-	49.27	48.77	50.60	50.78	49.80			
20	48.91	49.42	49.35	-	49.04	49.86	50.60	50.79	49.72			
21	48.81	49.30	49.44	-	49.30	50.87	50.59	50.14	49.79			
22	48.84	49.01	49.39	49.52	49.34	50.82	50.55	50.21	49.81			
23	48.90	49.06	49.43	49.34	49.31	50.90	50.56	50.16	49.80			
24	48.87	49.14	49.39	49.24	-	50.86	50.56	50.03	49.78			
25	48.83	49.99	49.32	49.43	-	50.91	50.49	49.87	49.80			
26	48.90	49.47	-	49.28	-	52.00	50.47	49.91	49.72			48.17
27	48.95	49.43	49.35	49.38	-	51.93	50.48	50.12	49.81			
28	48.95	49.39	49.45	49.41	-	51.90	50.54	50.11	49.81			
29	48.93	49.19	49.43	49.37	-	51.87	50.56	50.15	49.81			
30	48.95	49.02	49.45	49.36	-	48.65	50.86	50.28	49.81			
31	48.96	-	49.43	49.42	-	51.25	-	50.21	-			

Note.- Add 2,700 feet to obtain elevation above mean sea level.

Boise River at Boise, Idaho

Location.- Staff gage, lat. 43°38', long.116°13', in SW¼ sec. 10, T. 3 N., R. 2 E., at Eighth Street Bridge, 9 blocks southwest of post office in Boise. Zero of gage is 2,675.47 feet above mean sea level (Corps of Engineers, U. S. Army datum - Boise River Surveys).

Records available.- March 1938 to September 1939 (discontinued).

Extremes.- Maximum water-surface elevation observed during period, 2,681.27 feet Apr. 4; minimum not determined (below gage).

1938-39: Maximum water-surface elevation observed, 2,684.27 feet May 2, 1938; minimum not determined (below gage).

Remarks.- Records good. Gage read twice daily. Records collected in cooperation with Works Progress Administration, under Boise River Flood Control Project, to develop river profile.

Elevation, in feet, March to September 1939

Day	Mar.	Apr.	May	June	Sept.	Day	Mar.	Apr.	May	June	Sept.
1	-	80.74	80.02	79.33	-	16	-	-	79.47	79.02	-
2	-	81.07	80.62	79.27	-	17	-	-	79.55	79.22	-
3	-	81.21	80.79	-	-	18	-	79.52	79.45	-	-
4	-	81.25	80.85	79.29	-	19	-	79.52	79.42	-	-
5	-	81.12	80.87	79.29	-	20	-	79.52	79.45	-	-
6	-	80.82	80.72	79.35	-	21	-	79.52	79.42	79.19	-
7	-	80.52	80.17	79.29	-	22	-	79.57	79.35	-	-
8	-	80.07	79.72	79.29	-	23	-	-	79.29	-	-
9	-	79.67	79.59	79.25	-	24	-	-	79.29	79.19	-
10	-	79.77	79.69	79.29	-	25	-	-	-	-	-
11	-	79.57	79.62	79.25	-	26	-	79.47	79.29	-	78.66
12	-	79.72	79.52	79.19	-	27	-	79.47	79.35	79.19	-
13	-	79.47	79.55	79.18	-	28	-	-	79.27	-	-
14	-	79.37	79.52	79.12	-	29	-	-	79.32	-	-
15	-	79.47	79.52	79.07	-	30	-	79.72	79.47	79.23	-
						31	80.12	-	79.52	-	-

Note.- Add 2,600 feet to obtain elevation above mean sea level.

Boise River at Strawberry Glen Bridge, near Boise, Idaho

Location.- Wire-weight gage, lat. 43°40', long. 116°17', in NE¼ sec. 25, T. 4 N., R. 1 E., at Strawberry Glen Bridge, 5 miles northwest of post office at Boise. Zero of gage is 2,574.19 feet above mean sea level (Corps of Engineers, U. S. Army, datum—Boise River Surveys).

Records available.- March 1938 to September 1939.

Extremes.- Maximum discharge observed during year, 5,300 second-feet Apr. 4 (water-surface elevation, 2,605.34 feet); minimum, 29 second-feet Sept. 28; minimum water-surface elevation observed, 2,600.28 feet Mar. 5.

1938-39: Maximum discharge observed, 13,000 second-feet May 2, 1938 (water-surface elevation, 2,607.46 feet); minimum observed, that of Sept. 28, 1939; minimum water-surface elevation observed, 2,600.09 feet Apr. 2, 1938.

Remarks.- Records of discharge fair; gage-height record good. Discharge for Feb. 26 to Mar. 1, May 15-17, 19-21 computed on basis of information furnished by Board of Control for Boise Project. Discharge interpolated June 4, 5, July 2, 4, 30, Aug. 6, 7, 9-11, 14. Gage read twice daily. Flow regulated by Arrowrock Reservoir (capacity 291,600 acre-feet). Many diversions above station for irrigation. Record collected in cooperation with Works Progress Administration Oct. 1 to Aug. 5, under Boise River Flood Control Project, to develop river profile.

Elevation, in feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.34	0.85	0.72	0.82	0.80	-	4.27	3.42	1.76	2.95	2.72	1.96
2	1.36	.88	.64	.88	.86	-	5.16	4.31	1.60	-	2.65	1.97
3	1.40	.95	.64	.91	.88	.32	5.25	4.60	1.62	3.00	2.77	1.95
4	1.34	1.19	.60	.88	.87	.30	5.29	4.74	-	-	2.74	1.94
5	1.14	1.40	.60	.86	.89	.28	5.11	4.80	-	2.90	2.76	1.88
6	1.16	1.40	.60	.72	.92	.32	4.93	4.67	-	2.87	-	1.72
7	1.13	1.04	.58	.61	.92	.31	4.72	4.22	3.22	2.78	-	1.72
8	1.13	.97	.60	.82	.90	.30	2.97	3.47	3.15	2.90	2.75	1.74
9	1.20	.98	.60	.59	.86	.30	2.52	3.02	3.15	2.88	-	1.74
10	1.14	.98	.82	.60	.86	.30	3.41	3.22	3.08	2.86	-	1.80
11	1.18	.88	1.38	.68	.92	.34	3.02	3.02	3.05	2.77	-	1.81
12	1.15	.84	1.54	1.02	.90	.42	3.17	2.84	2.98	2.70	2.01	2.70
13	.94	.86	1.82	.94	.90	.51	2.72	2.97	2.87	2.79	1.95	2.86
14	.84	.86	1.66	.79	.94	.44	2.77	2.92	2.75	2.71	-	2.79
15	.88	.88	1.24	.78	.98	.45	2.47	-	2.85	2.76	2.01	2.64
16	.93	.94	.86	.73	.96	.42	2.22	-	2.82	2.72	2.02	2.10
17	.84	.96	.82	.76	.95	.42	2.17	-	2.92	2.69	1.99	1.99
18	.96	.99	.87	.80	.96	.51	2.58	2.87	2.90	2.81	2.02	1.72
19	.96	.94	.87	.82	.92	.62	2.62	-	2.88	2.72	2.36	1.74
20	.89	.90	.90	.92	.92	.61	2.52	-	2.88	2.70	2.85	1.67
21	.86	.84	.92	1.06	.93	2.12	2.62	-	2.74	2.59	2.76	1.61
22	.82	.74	.82	.96	.96	2.20	2.62	1.74	2.90	2.47	2.77	1.38
23	.77	.72	.89	.72	1.05	2.34	2.57	1.62	2.95	2.46	2.78	1.40
24	.75	.70	.87	.73	.95	2.44	2.62	1.64	2.86	2.49	2.81	1.38
25	.74	.74	.84	.74	.93	3.17	2.62	1.37	2.95	2.57	2.76	1.34
26	.75	.74	.80	.78	-	3.20	2.47	1.87	2.90	2.61	2.74	1.30
27	.76	.76	.80	.90	-	3.12	2.52	1.92	2.89	2.61	2.46	1.30
28	.76	.80	.80	.86	-	2.79	2.62	1.82	2.92	2.64	1.97	1.25
29	.74	1.29	.82	.84	-	2.10	2.62	1.87	2.90	2.70	2.01	1.78
30	.74	.84	.82	.75	-	1.86	2.77	1.97	2.97	-	1.97	1.98
31	.81	-	.82	.80	-	2.70	-	2.04	-	2.88	2.00	-

Note.- Add 2,600 feet to obtain elevation above mean sea level. Gage heights Mar. 2 to June 3 referred to staff on left channel; other dates to gage at original location on right channel.

Discharge, in second-feet, of Boise River at Strawberry Glen Bridge, near Boise, Idaho. water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	330	124	82	114	107	50	3,750	2,320	615	590	465	167
2	340	135	60	135	128	51	5,140	3,750	520	602	442	170
3	360	161	60	146	135	49	5,140	4,200	520	615	490	164
4	330	260	50	135	132	45	5,300	4,350	581	590	490	160
5	238	360	50	128	138	41	4,980	4,500	642	565	490	143
6	247	360	50	82	150	49	4,660	4,200	703	540	490	102
7	234	196	46	53	150	47	4,350	3,600	720	515	490	102
8	234	169	50	55	142	45	1,550	2,450	720	565	490	107
9	265	172	50	48	128	45	1,100	1,930	720	565	412	107
10	238	172	114	50	128	45	2,190	2,190	665	540	334	121
11	256	135	350	71	150	53	1,670	1,930	615	490	257	124
12	242	121	445	188	142	69	1,800	1,670	615	465	179	465
13	157	128	610	157	142	88	1,320	1,930	540	515	164	540
14	121	128	508	104	157	73	1,320	1,800	490	465	172	515
15	135	135	283	101	172	75	1,050	1,800	540	490	179	442
16	153	157	128	85	165	69	810	1,800	515	465	179	213
17	121	165	114	95	161	69	770	1,800	565	465	176	176
18	165	176	132	107	146	88	1,160	1,800	565	515	179	102
19	165	157	132	114	114	115	1,210	1,800	565	465	310	107
20	138	142	142	150	98	112	1,100	1,400	565	465	540	91
21	128	121	150	204	85	900	1,210	1,000	490	418	490	78
22	114	88	114	165	79	1,000	1,260	615	565	352	490	44
23	98	82	138	82	92	1,160	1,210	520	590	352	515	46
24	92	76	132	85	63	1,260	1,260	550	540	373	515	44
25	88	88	121	88	58	2,190	1,260	385	590	396	490	39
26	92	88	107	101	55	2,190	1,100	690	565	418	490	35
27	95	95	107	142	50	2,060	1,160	730	565	418	352	35
28	95	107	107	128	50	1,670	1,260	650	565	442	170	30
29	88	306	114	121	-	900	1,260	690	565	465	179	116
30	88	121	114	92	-	690	1,430	770	590	515	170	173
31	110	-	114	107	-	1,550	-	855	-	565	179	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,557	360	88	179	11,020
November	4,725	360	76	158	9,370
December	4,774	610	46	154	9,470
Calendar year	-	-	-	-	-
January	3,433	204	48	111	6,810
February	3,317	172	50	118	6,580
March	16,848	2,190	41	543	33,420
April	62,780	5,300	770	2,093	124,500
May	58,675	4,500	385	1,893	116,400
June	17,606	720	490	587	34,920
July	15,201	615	352	490	30,150
August	10,968	540	164	354	21,750
September	4,758	540	30	159	9,440
Water year 1938-39	208,642	5,300	30	572	413,800

Boise River (north channel) at Linder Bridge, near Eagle, Idaho

Location.- Staff gage, lat. 43°41', long. 116°25', in NW¼ sec. 13, T. 4 N., R. 1 W., at Linder Bridge on Darland Lane, 3 miles west of Eagle. Zero of gage is 2,508.58 feet above mean sea level (Corps of Engineers, U. S. Army datum - Boise River Surveys).

Records available.- March 1938 to June 1939 (discontinued).

Extremes.- Maximum water-surface elevation observed during period, 2,514.35 feet Apr. 3; minimum not observed.
1938-39: Maximum water-surface elevation observed, 2,516.68 feet May 2, 1938; minimum not observed.

Remarks.- Records good. Gage read once or twice daily. Records collected in cooperation with Works Progress Administration, under Boise River Flood Control Project, to develop river profile.

Elevation, in feet, March to September 1939

Day	Mar.	Apr.	May	June	Sept.	Day	Mar.	Apr.	May	June	Sept.
1	-	13.88	11.83	10.30	-	16	-	11.38	-	-	-
2	-	14.23	12.28	-	-	17	-	11.35	-	10.01	-
3	-	14.31	13.03	-	-	18	-	11.47	-	-	-
4	-	14.25	13.43	-	-	19	-	11.43	-	-	-
5	-	14.15	13.78	-	-	20	-	11.44	-	-	-
6	-	13.86	13.88	10.33	-	21	-	11.42	-	9.89	-
7	-	13.73	-	-	-	22	-	11.42	-	-	-
8	-	12.56	-	-	-	23	-	11.42	-	-	-
9	-	12.22	-	-	-	24	-	11.39	10.44	9.77	-
10	-	12.45	-	-	-	25	-	11.37	-	-	-
11	-	12.42	-	-	-	26	-	11.34	-	-	9.28
12	-	12.30	-	-	-	27	-	11.33	-	9.68	-
13	-	11.88	-	9.80	-	28	-	11.31	-	-	-
14	-	11.62	-	-	-	29	12.33	11.27	-	-	-
15	-	11.62	-	-	-	30	-	11.48	-	10.11	-
						31	12.61	-	-	-	-

Note.- Add 2,500 feet to obtain elevation above mean sea level.

Boise River at Star, Idaho

Location.- Staff gage, lat. 43°41', long. 116°30', in SW¼ sec. 17, T. 4 N., R. 1 W., just upstream from head gate of Canyon County canal, 500 feet upstream from new road bridge and three-fourths of a mile south of Star. Zero of gage is 2,461.144 feet above mean sea level (Corps of Engineers, U. S. Army datum - Boise River Surveys).

Records available.- March 1938 to September 1939 (discontinued).

Extremes.- Maximum water-surface elevation observed during period, 2,465.89 feet Apr. 3; minimum observed, 2,461.74 feet July 24.
1938-39: Maximum water-surface elevation observed. 2,467.29 feet May 29, 1938; minimum, below staff gage, not determined.

Remarks.- Records good. Gage read once or twice daily. Records collected in cooperation with Works Progress Administration, under Boise River Flood Control Project, to develop river profile.

Elevation, in feet, April to September 1939

Day	Apr.	May	June	July	Aug.	Sept.	Day	Apr.	May	June	July	Aug.	Sept.
1	65.41	63.06	62.97	62.75	62.19	62.24	16	62.54	-	62.69	62.00	62.09	62.85
2	65.79	63.51	62.53	62.79	62.03	62.21	17	62.42	-	62.48	62.14	62.00	-
3	65.87	64.28	-	62.70	62.01	62.14	18	62.48	-	-	-	62.00	62.67
4	65.79	64.74	62.59	62.77	62.00	-	19	62.42	-	62.35	62.12	-	62.64
5	65.68	65.16	-	62.59	62.24	62.19	20	62.42	-	-	62.15	-	62.61
6	65.32	65.30	63.12	62.54	-	62.13	21	62.42	-	62.08	61.99	62.09	62.56
7	65.19	-	62.92	-	62.07	-	22	62.49	62.30	-	61.94	-	-
8	63.84	-	62.51	62.33	62.14	61.94	23	62.52	-	-	-	62.02	62.39
9	63.54	-	62.18	62.44	62.09	61.94	24	62.54	62.39	61.96	61.74	62.10	-
10	63.77	-	62.61	62.36	-	-	25	62.53	62.03	62.00	62.05	-	62.20
11	63.68	-	62.21	62.31	-	61.97	26	62.54	-	62.12	62.23	61.92	61.99
12	63.55	-	-	62.08	62.34	-	27	62.55	-	62.16	62.19	-	61.84
13	63.15	-	62.02	62.03	62.05	-	28	62.53	-	62.39	62.09	62.29	-
14	62.78	-	61.83	-	62.13	62.94	29	62.55	-	62.72	61.99	-	61.92
15	62.66	-	62.30	61.94	62.14	62.77	30	62.74	-	62.67	62.13	62.11	-
							31	-	-	-	62.55	62.12	-

Note.- Add 2,400 feet to obtain elevation above mean sea level.

Boise River at Middleton, Idaho

Location.- Staff gage, lat. 43°32', long. 116°38', in SE¼ sec. 7, T. 4 N., R. 2 W., at railroad bridge on McCall branch of Oregon Short Line, three-quarters of a mile southeast of Middleton. Zero of gage is 2,386.506 feet above mean sea level (Corps of Engineers, U. S. Army datum - Boise River Surveys).

Records available.- March 1938 to September 1939 (discontinued).

Extremes.- Maximum water-surface elevation observed during year, 2,392.91 feet Apr. 4; minimum, below gage, not determined.
1938-39: Maximum water-surface elevation observed, 2,394.91 feet May 2; minimum, below gage, not determined.

Remarks.- Records good. Gage read twice daily. Records collected in cooperation with Works Progress Administration, under Boise River Flood Control Project, to develop river profile.

Elevation, in feet, water year October 1938 to September 1939

Day	Oct.	Mar.	Apr.	May	June	Sept.	Day	Oct.	Mar.	Apr.	May	June	Sept.
1	-	-	92.28	90.78	89.71	-	16	-	-	90.01	90.31	-	-
2	-	-	-	91.46	-	-	17	-	-	-	90.46	89.64	-
3	89.91	-	92.83	91.78	-	-	18	-	-	90.09	90.52	-	-
4	89.93	-	92.87	91.93	-	-	19	-	-	90.22	90.46	-	-
5	-	-	92.85	92.00	-	-	20	-	-	90.20	-	-	-
6	-	-	92.62	91.93	89.75	-	21	-	-	90.11	-	-	-
7	-	-	92.37	91.59	-	-	22	-	-	90.12	-	-	-
8	89.91	-	91.85	91.24	-	-	23	-	-	90.13	-	-	-
9	-	-	91.20	90.95	-	-	24	-	-	90.14	90.16	89.12	-
10	-	-	91.26	90.73	-	-	25	-	-	90.11	-	-	-
11	-	-	91.02	90.68	-	-	26	-	-	90.07	-	-	89.22
12	-	-	90.82	90.61	-	-	27	-	-	90.01	-	89.13	-
13	-	-	90.56	90.50	-	-	28	-	-	89.98	-	-	-
14	-	-	90.36	90.37	-	-	29	-	-	90.02	-	-	-
15	-	-	90.17	90.26	-	-	30	-	-	90.32	-	89.47	-
							31	-	90.94	-	-	-	-

Note.- Add 2,300 feet to obtain elevation above mean sea level. No records for months omitted.

Boise River near Caldwell, Idaho

Location.- Staff gage, lat. 43°41', long. 116°41', in NW¼ sec. 15, T. 4 N., R. 3 W., at bridge on U. S. highway 30, just downstream from diversion points of Riverside and Farmer's Cooperative canals, 1½ miles north of Oregon Short Line Railroad station in Caldwell. Zero of gage is 2,348.81 feet above mean sea level (Corps of Engineers, U. S. Army datum - Boise River Surveys).

Records available.- March 1938 to September 1939 (discontinued).

Extremes.- Maximum water-surface elevation observed during period, 2,354.13 feet Apr. 3, 5; minimum not determined.
1938-39: Maximum water-surface elevation observed, 2,357.56 feet May 2, 1938; minimum not determined.

Remarks.- Records good. Gage read twice daily. Records collected in cooperation with Works Progress Administration, under Boise River Flood Control Project, to develop river profile.

Elevation, in feet, March to September 1939

Day	Mar.	Apr.	May	June	July	Sept.	Day	Mar.	Apr.	May	June	July	Sept.
1	-	53.53	51.20	48.84	48.87	-	16	-	49.63	50.54	48.84	-	-
2	-	-	52.28	48.83	-	-	17	-	49.07	50.93	48.88	-	-
3	-	54.13	52.58	48.83	-	-	18	-	49.03	51.13	48.89	-	-
4	-	54.09	52.81	48.83	-	-	19	-	49.67	51.04	48.91	-	-
5	-	54.13	52.85	48.83	-	-	20	-	49.60	51.22	48.91	-	-
6	-	53.93	52.83	48.87	-	-	21	-	49.44	50.77	48.87	-	-
7	-	53.61	52.48	48.88	-	-	22	-	49.37	50.34	48.85	-	-
8	-	53.01	52.05	48.87	-	-	23	-	-	50.02	48.83	-	-
9	-	52.25	51.54	48.87	-	-	24	-	49.63	50.03	48.83	-	-
10	-	52.25	51.28	48.87	-	-	25	-	49.74	49.50	48.83	-	-
11	-	51.88	51.19	48.83	-	-	26	-	49.49	49.04	48.83	-	48.89
12	-	51.64	51.09	48.83	-	-	27	-	49.20	48.94	48.83	-	-
13	-	51.25	50.88	48.82	-	-	28	-	49.21	-	48.83	-	-
14	-	50.84	50.63	48.81	-	-	29	-	49.33	48.92	48.83	-	-
15	-	50.27	50.50	48.82	-	-	30	-	-	48.82	48.86	-	-
							31	51.71	-	48.84	-	-	-

Note.- Add 2,300 feet to obtain elevation above mean sea level. No records for August.

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. Zero 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 1939.

Average discharge.- 17 years (1920-22, 1924-39), 1,071 second-feet.

Extremes.- Maximum discharge during year, 5,920 second-feet Apr. 4 (gage height, 5.93 feet); minimum, 16 second-feet Aug. 16 (gage height, 0.13 foot).

1920-39: 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 period of missing gage heights Nov. 7 to Dec. 6, which were computed on basis of weather records and records for station at Strawberry Glen Bridge, near Boise, and are fair. Station is below all large diversions for irrigation in Boise Valley. Many diversions above station. Flow regulated by Arrowrock Reservoir (capacity, 291,600 acre-feet).

Elevation, in feet, water year October 1937 to September 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		91.34	90.84	91.17	92.28	91.73	93.75	95.88	95.57	92.91	89.08	88.93
2		91.68	90.84	91.08	92.19	91.82	91.63	96.84	95.56	92.80	88.99	88.95
3		91.53	90.82	91.05	92.07	91.93	91.92	97.39	95.71	92.56	88.96	88.93
4		91.10	90.81	91.03	91.90	91.89	93.35	97.18	96.07	92.72	88.97	88.97
5		90.96	90.79	90.97	91.85	91.83	93.95	96.68	96.23	92.73	88.98	89.00
6		90.90	90.78	90.91	91.82	91.81	94.47	96.17	96.07	92.52	88.99	89.05
7		90.87	90.79	90.93	91.79	91.79	94.51	95.87	96.22	92.08	89.00	89.09
8		90.85	90.77	90.93	91.80	91.77	94.80	95.70	96.07	91.58	88.97	89.21
9		90.87	90.77	91.01	91.79	91.75	94.63	95.53	95.77	91.09	88.92	89.45
10		91.07	90.85	91.02	91.78	91.73	95.25	95.23	95.25	90.53	88.84	89.57
11		91.07	91.08	91.02	91.83	91.72	95.66	95.02	94.18	89.98	88.88	89.58
12		91.06	91.49	91.07	91.91	91.73	95.81	94.91	93.99	89.38	88.93	89.59
13		91.03	91.63	91.08	91.85	91.87	95.83	94.41	94.08	89.24	88.94	89.64
14		91.00	91.17	91.03	91.80	92.16	95.59	94.35	94.16	89.22	88.91	89.65
15		91.01	91.13	91.11	91.78	92.13	95.30	94.36	94.01	89.20	88.93	89.68
16		91.08	91.13	91.20	91.77	92.33	95.31	94.38	93.85	89.43	88.93	89.69
17		91.15	91.18	91.30	91.76	92.45	95.27	94.48	93.69	89.53	88.92	89.59
18		91.15	91.11	91.33	91.73	92.90	95.22	94.61	93.86	89.28	88.92	89.62
19		91.16	91.06	91.32	91.75	93.36	95.28	94.66	93.38	89.16	88.91	89.64
20		91.28	91.02	91.27	91.73	93.98	95.32	94.42	92.77	88.99	88.87	89.52
21		91.16	90.99	91.24	91.73	93.79	95.09	94.37	92.56	88.97	88.91	89.49
22		91.07	90.99	91.39	91.72	93.60	94.96	93.88	92.66	89.28	88.92	89.53
23		91.02	90.96	91.64	91.73	93.52	95.42	93.69	92.92	89.17	88.91	89.61
24		90.98	90.93	91.61	91.75	93.79	95.89	93.58	92.81	88.97	88.97	89.58
25		90.94	90.97	91.47	91.74	93.97	95.94	93.72	92.47	88.94	88.95	89.61
26		90.93	91.18	91.49	91.73	93.77	95.95	94.67	92.32	88.97	88.90	89.63
27		90.91	91.21	91.95	91.72	93.75	95.88	95.43	92.38	89.02	88.89	89.64
28		90.90	91.29	92.35	91.71	94.51	95.69	96.40	92.32	89.09	88.92	89.77
29		90.88	91.24	92.37	-	94.60	95.52	97.33	92.02	89.33	88.95	90.10
30		90.85	91.22	92.35	-	94.77	95.46	97.11	91.93	89.45	88.93	90.38
31		-	91.19	92.32	-	94.52	-	96.08	-	89.29	88.92	-

Note.- Add 2,200 feet to obtain elevation above mean sea level.

Elevation, in feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	90.42	91.21	-	90.93	90.82	90.67	93.26	90.99	88.99	88.97	88.70	88.77
2	90.54	91.21	-	90.96	90.75	90.68	94.20	92.22	88.96	88.98	88.71	88.78
3	90.69	91.23	-	90.95	90.74	90.70	94.31	92.75	88.92	88.93	88.73	88.78
4	90.85	91.46	-	90.93	90.82	90.69	94.39	92.[illegible]7	88.91	88.94	88.79	88.80
5	90.80	91.62	-	90.96	90.85	90.65	94.42	92.95	88.91	88.96	88.84	88.78
6	90.78	91.60	-	90.93	90.88	90.65	94.19	92.91	88.94	89.00	88.79	88.80
7	90.82	-	90.91	90.84	90.88	90.66	93.87	92.70	88.99	88.97	88.77	88.85
8	90.87	-	90.90	90.79	90.87	90.58	93.30	92.25	88.96	88.89	88.79	88.84
9	90.96	-	90.90	90.77	90.76	90.51	92.50	91.71	88.96	88.84	88.80	88.82
10	90.90	-	90.97	90.75	90.84	90.51	92.43	91.34	88.95	88.90	88.81	88.82
11	90.84	-	91.41	90.75	90.79	90.52	92.11	91.22	88.95	88.93	88.82	88.82
12	90.81	-	91.47	90.76	90.84	90.64	91.79	91.14	88.95	88.92	88.78	88.85
13	90.94	-	91.52	90.93	90.92	90.96	91.43	90.93	88.93	88.91	88.77	88.99
14	90.86	-	91.64	90.89	90.95	90.86	91.02	90.76	88.89	88.87	88.90	90.46
15	90.94	-	91.24	90.89	91.04	90.71	90.43	90.57	88.90	88.82	88.76	90.76
16	91.13	-	91.09	90.89	91.17	90.68	90.05	90.48	88.97	88.83	88.72	90.42
17	91.00	-	91.03	90.85	91.03	90.80	89.52	90.96	89.00	88.88	88.72	90.57
18	91.00	-	91.00	90.85	90.98	90.92	89.31	91.21	89.02	88.85	88.74	90.44
19	91.02	-	91.02	90.88	90.92	90.96	89.59	91.07	89.11	88.87	88.74	90.09
20	90.99	-	91.02	90.89	90.82	90.97	89.67	91.25	89.14	88.88	88.74	90.05
21	91.12	-	90.99	90.87	90.76	91.37	89.47	91.01	89.04	88.85	88.72	89.93
22	91.07	-	91.00	90.83	90.82	91.88	89.20	90.58	88.99	88.78	88.71	89.70
23	91.02	-	90.98	90.78	90.88	91.98	89.23	90.13	88.94	88.78	88.72	89.57
24	91.00	-	90.99	90.80	90.86	92.07	89.44	90.06	88.87	88.75	88.72	89.42
25	91.02	-	91.00	90.78	90.76	92.54	89.54	89.82	88.81	88.78	88.73	89.26
26	91.11	-	90.96	90.81	90.71	93.04	89.38	89.46	88.85	88.77	88.75	89.16
27	91.17	-	90.93	90.87	90.69	92.85	89.05	89.34	88.87	88.79	88.75	89.10
28	91.14	-	90.92	90.95	90.69	92.64	89.00	89.24	88.90	88.72	88.79	89.07
29	91.14	-	90.99	90.92	-	92.22	88.98	89.02	88.85	88.69	88.76	89.03
30	91.18	-	90.98	90.93	-	91.72	89.75	88.97	88.88	88.70	88.78	88.99
31	91.17	-	90.96	90.90	-	91.27	-	88.95	-	88.71	88.78	-

Note.- Add 2,200 feet to obtain elevation above mean sea level.

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BOISE RIVER BASIN

Discharge, in second-feet, of Boise River at Notus, Idaho, water year October 1938 to Septembe

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	S
1	322	662		540	488	425	3,760	645	46	44	18	
2	357	662		555	457	429	5,360	1,700	43	45	18	
3	404	676		550	453	437	5,540	2,530	38	40	20	
4	465	910	550	540	488	433	5,730	2,870	38	40	26	
5	445	1,130		555	501	418	5,490	2,870	38	43	31	
6	437	1,110										
7	453			540	515	418	4,950	2,780	40	47	26	
8	474		530	496	515	422	4,410	2,440	46	44	24	
9	515		525	474	510	394	3,460	1,740	43	36	26	
10	488		525	465	461	372	2,110	1,110	43	31	27	
11	461		560	457	496	372	2,000	839	42	36	28	
12	449		900	457	474	375	1,560	768	42	40	29	
13	506		960	461	496	414	1,190	724	42	38	25	
14	470	700	1,020	540	535	555	897	615	40	38	24	
15	506		1,150	520	550	506	660	530	36	34	36	
16	608		746	520	602	441	382	444	36	29	23	5
17	535		634	520	690	429	250	404	44	30	19	3
18	535		596	501	596	478	121	630	47	34	19	4
19	545		578	501	566	535	86	763	49	32	21	3
20	530		590	515	535	555	133	686	60	34	21	2
21	602		590	520	488	560	150	785	63	34	21	25
22	572		572	510	461	924	111	655	51	32	19	21
23	545		578	492	488	1,480	71	448	46	25	18	15
24	535		566	470	515	1,620	75	274	40	26	19	12
25	545		572	478	506	1,760	105	253	34	22	19	10
26	596	600	578	470	461	2,480	123	188	28	26	20	79
27	634		555	483	441	3,340	96	109	32	24	22	66
28	614		540	510	433	3,080	52	90	34	26	22	58
29	614		535	550	433	2,660	47	76	36	19	26	5
30	641		572	535	-	2,000	45	49	32	17	23	5
31	634	-	566	540	-	1,260	170	44	34	18	25	4
			555	525	-	853	-	42	-	18	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	16,037	641	322	517	31,81
November	20,950	1,130	-	698	41,55
December	19,393	1,150	525	626	38,470
Calendar year 1938	739,356	12,000	34	2,026	1,467,000
January	15,790	555	457	509	31,320
February	14,154	690	433	506	28,070
March	30,425	3,340	372	981	60,350
April	49,134	5,730	45	1,638	97,460
May	28,101	2,870	42	906	55,740
June	1,243	63	28	41.4	2,465
July	1,000	47	17	32.3	1,980
August	720	36	18	23.2	1,430
September	4,014	530	24	134	7,960
Water year 1938-39	200,961	5,730	17	551	398,600

Boise River near Parma, Idaho

Location.- Staff gage, lat. 43°44', long. 116°57', in NW¼ sec. 16, T. 5 N., R. 5 W., at Parma-Wilder highway bridge, 1½ miles southwest of Parma. Zero of gage is 2,214.38 feet above mean sea level (Corps of Engineers, U. S. Army datum - Boise River Surveys).

Records available.- March 1938 to June 1939 (discontinued).

Extremes.- Maximum water-surface elevation observed during period, 2,219.34 feet Apr. 2; minimum not observed.

1938-39: Maximum water-surface elevation observed, 2,221.28 feet May 3, 1938; minimum observed, 2,214.60 feet Aug. 6, 7, 16, Sept. 3, 1938.

Remarks.- Records good. Gage read twice daily. Records collected in cooperation with Works Progress Administration, under Boise River Flood Control Project, to develop river profile.

Gage height, in feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.66	-	16.76	16.69	16.54	16.54	18.34		16.56			
2	16.66	-	16.76	16.64	16.59	16.54	19.29		-			
3	16.77	-	16.76	16.64	16.59	16.44	18.84		-			
4	16.84	-	-	16.59	16.59	16.44	18.94		-			
5	16.84	-	16.76	16.64	16.59	16.54	18.89		-			
6	16.76	-	16.76	16.62	16.54	16.54	18.54		16.74			
7	16.78	16.96	16.76	16.57	16.54	16.44	18.09		-			
8	16.80	16.90	16.70	16.59	16.54	16.44	17.79		-			
9	16.76	16.90	16.70	16.54	16.49	16.54	-		-			
10	16.76	16.90	16.66	16.59	16.54	16.54	-		-			
11	16.72	16.86	-	16.54	16.54	16.54	-		-			
12	16.66	16.38	16.66	16.54	-	-	-		-			
13	16.70	-	16.66	16.54	16.54	16.54	-		16.27			
14	16.72	16.80	16.66	16.54	16.54	16.54	-		-			
15	16.74	16.80	16.66	16.54	16.54	16.54	-		-			
16	16.76	16.76	16.66	16.54	16.44	16.54	-		-			
17	16.66	16.76	16.66	16.59	16.44	16.54	-		16.67			
18	16.66	16.76	16.66	16.59	16.44	16.59	-		-			
19	-	16.76	16.66	16.54	16.54	16.64	-		-			
20	-	-	16.70	16.54	16.54	16.64	-		-			
21	-	16.76	16.70	16.54	16.54	16.89	-		16.54			
22	-	16.70	16.70	16.49	16.54	17.29	-		-			
23	-	16.70	16.70	16.49	16.44	17.34	-		-			
24	-	16.70	16.70	16.54	16.44	17.34	-	16.07	15.94			
25	-	16.66	-	16.54	16.44	17.74	-	-	-			
26	-	16.60	-	16.54	16.44	18.19	-	-	-			
27	-	-	16.70	16.54	16.44	17.94	-	-	16.35			
28	-	16.76	-	16.54	16.54	17.94	-	-	-			
29	-	16.76	-	16.54	-	18.04	-	-	-			
30	-	16.76	-	16.54	-	17.64	-	-	16.30			
31	-	-	-	16.54	-	-	-	-	-			

Note.- Add 2,200 feet to obtain elevation above sea level.

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 the years 1919 to 1939 are available. Record of daily diversions subsequent to 1915 on file in office of Idaho Commissioner of Reclamation.

Daily gage heights collected, frequent discharge measurements made, and records summarized under direction of W. E. Welsh, watermaster for Boise River.

Total amount of water, in acre-feet, diverted by each canal during irrigation season of 1939

Main canal of U. S. Bureau of Reclamation	567,640
Penitentiary	1,990
Ridenbaugh	146,460
Bubb	4,240
Consumers (Cruzen)	8,260
Boise City No. 1	9,860
Settlers	42,930
Thurman Mill	11,440
Farmers Union (includes Boise Valley diversion)	54,320
New Union (Little Union)	4,000
New Dry Creek (Dry Creek)	15,130
Ballantine	3,670
Eagle Island canals (7)	12,300
Middleton Water Co	31,230
Middleton Mill ditch	14,920
Phyllis	97,230
Eureka No. 1	8,340
Pioneer (Little Pioneer)	8,250
Canyon County	19,800
Caldwell high-line	21,290
Riverside No. 2	48,040
Farmers Cooperative	68,350
Canyon (Campbell)	6,310
Seibenberg	3,230
Pioneer Dixie	13,140
Eureka No. 2	15,130
Upper Center Point	3,440
Lower Center Point	3,910
Miscellaneous	8,290
Total	1,253,140

Combined monthly discharge of canals diverting from Boise River, Idaho, 1939

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April	5,775	1,305	3,996	237,800
May	6,002	4,230	5,488	337,400
June	4,803	3,578	3,832	228,000
July	3,774	2,662	3,202	196,900
August	2,875	1,287	2,608	160,300
September	2,958	827	1,558	92,680
The period	-	-	-	1,253,000

Cottonwood Creek near Arrowrock Reservoir, Idaho

Location.- Water-stage recorder and broad-crested wooden control with trapezoidal notch for low stages, lat. 43°38', long. 115°49', in NW¼NE¼ sec. 2, T. 3 N., R. 5 E., at flow line of Arrowrock Reservoir, just downstream from unnamed tributary, three-quarters of a mile downstream from Ranger Creek and Cottonwood ranger station, and 5½ miles northeast of Arrowrock.

Drainage area.- 21.4 square miles. Drainage area for former station at site 2 miles upstream (published as Cottonwood Creek near Arrowrock) has been revised to 19.9 square miles.

Records available.- January to September 1939.

Extremes.- Maximum discharge during period, 59 second-feet Mar. 25; maximum gage height, 3.31 feet May 5; minimum discharge, 0.25 second-foot Aug. 24 (gage height, 1.97 feet).

Remarks.- Records good except those for periods of ice effect, incomplete or unreliable gage-height record, Jan. 23 to Feb. 12, Feb. 20, 21, May 2-21, 31, which were computed on basis of four discharge measurements, gage heights, weather records, and records for stations on nearby streams. One small diversion above station for irrigation. Station operated in connection with a study of silt movement in the Boise River Basin.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	4.0	5.2	46	32	6.0	2.1	0.62	0.32
2				-	4.3	5.5	47	29	5.5	2.0	.57	.32
3				-	4.3	5.5	49	26	6.0	2.0	.53	.35
4				-	4.3	5.5	49	26	5.7	2.3	.53	.35
5				-	4.0	5.1	44	22	6.0	3.0	.53	.39
6				-	4.3	5.5	39	22	7.0	2.8	.48	.39
7				-	4.3	5.5	36	20	6.7	2.3	.48	.35
8				-	4.3	5.5	35	19	6.0	1.9	.48	.39
9				-	4.0	5.5	35	19	6.0	1.8	.48	.39
10				-	4.3	6.3	34	18	5.5	1.6	.44	.44
11				-	3.8	7.0	34	17	5.2	1.6	.35	.44
12				-	4.4	8.4	33	15	4.9	1.4	.35	1.0
13				-	4.0	10	30	15	4.4	1.3	.35	2.2
14				-	4.2	10	30	14	4.2	1.1	.35	1.6
15				-	4.6	10	31	14	4.2	1.1	.35	1.2
16				-	4.4	11	31	13	4.6	1.1	.39	1.2
17				-	4.4	16	31	13	4.6	.95	.35	1.1
18				-	4.4	23	32	12	4.9	.90	.35	1.1
19				-	4.6	29	33	12	5.2	.84	.35	.95
20				-	4.5	34	35	12	5.2	.78	.35	.89
21				-	4.5	39	36	11	4.4	.73	.35	.83
22				-	4.6	42	37	12	4.2	.73	.32	.83
23				4.5	4.6	44	36	12	3.8	.73	.32	.89
24				4.5	4.6	49	33	10	3.8	.73	.32	.95
25				4.5	5.2	53	29	10	3.6	.73	.32	1.0
26				4.6	4.9	53	28	9.6	3.4	.67	.32	1.0
27				4.9	4.9	49	29	8.8	3.2	.53	.32	1.1
28				4.9	5.2	45	31	7.6	2.2	.53	.35	1.0
29				4.9	-	43	33	7.0	2.2	.62	.35	1.1
30				4.4	-	43	35	6.7	2.2	.67	.39	1.1
31				4.0	-	44	-	5.7	-	.67	.32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October							
November							
December							
Calendar year							
January 23-31	41.2	4.9	4.0	4.58	0.214	0.07	82
February	123.9	5.2	3.8	4.42	.207	.22	246
March	717.5	53	5.1	23.1	1.08	1.24	1,420
April	1,061	49	28	35.4	1.65	1.84	2,100
May	470.4	32	5.7	15.2	.710	.82	933
June	140.8	6.7	2.2	4.69	.219	.24	279
July	40.21	3.0	.53	1.30	.061	.07	80
August	12.36	.62	.32	.399	.019	.02	25
September	25.17	2.2	.32	.839	.039	.04	50
The period	-	-	-	-	-	-	5,220

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 1939.

Average discharge.- 28 years, 958 second-feet.

Extremes.- Maximum discharge during year, 3,320 second-feet May 5 (gage height, 6.13 feet); minimum, 166 second-feet Aug. 19, Sept. 4 (gage height, 1.89 feet).
1911-39: Maximum discharge, 9,200 second-feet May 15, 1917 (gage height, 9.53 feet); minimum, 111 second-feet Aug. 10, 1934; minimum gage height, 1.63 feet Sept. 5-7, 1931.

Remarks.- Records good except those for periods of missing gage heights or ice effect, Nov. 18 to Jan. 3, Jan. 8-12, 21-28, Feb. 1-4, which were computed on basis of weather records and records for Boise River near Twin Springs and Arrowrock Reservoir at Arrowrock and are fair. Same water stored in Little Camas Reservoir and diverted for irrigation on about 5,000 acres of land in vicinity of Mountain Home.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	326	458		400	300	326	2,590	3,180	1,480	480	276	175
2	395	462		400	275	352	2,700	3,060	1,320	475	259	172
3	466	454		400	300	348	2,590	3,060	1,240	466	245	169
4	471	671		391	400	345	2,820	3,180	1,180	466	235	166
5	412	611		395	436	315	2,590	3,180	1,140	553	239	169
6	387	466		375	420	326	2,270	2,940	1,070	577	242	172
7	395	395		330	368	326	2,070	2,700	1,010	529	235	177
8	395	428		300	345	337	2,170	2,480	977	475	223	183
9	399	466		325	348	345	2,170	2,380	946	436	219	189
10	403	484		350	364	352	1,980	2,380	916	420	210	195
11	383	428		400	352	360	1,930	2,380	886	395	204	195
12	407	337		375	348	372	1,880	2,270	857	387	201	198
13	403	375		375	345	360	1,780	2,170	857	375	195	229
14	387	436		368	352	360	1,650	2,170	828	360	189	276
15	436	424		372	356	360	1,650	2,170	828	348	180	259
16	567	454		372	326	375	1,650	2,170	857	319	177	255
17	534	493		364	262	449	1,700	2,170	857	308	172	242
18	511	450		379	293	529	1,780	2,170	806	290	169	232
19	471	400		368	319	631	1,930	2,170	778	286	166	229
20	449	450		375	330	767	2,170	2,070	756	283	169	226
21	441	400		300	352	916	2,270	1,830	723	276	169	219
22	428	350		250	364	1,070	2,480	1,650	666	272	169	216
23	416	300		275	345	1,240	2,590	1,560	631	269	169	216
24	407	350		300	356	1,480	2,480	1,480	611	262	169	207
25	399	400		400	364	1,740	2,170	1,360	601	255	172	201
26	399	375		450	345	1,980	2,070	1,320	587	252	175	198
27	391	350		425	330	2,170	1,930	1,280	567	248	186	198
28	395	400		400	345	2,070	2,070	1,320	534	242	186	195
29	387	450		412	-	2,170	2,380	1,480	516	269	183	195
30	391	500		372	-	2,170	2,940	1,650	493	276	183	198
31	432	-		334	-	2,270	-	1,700	-	283	180	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	13,083	567	326	422	0.387	0.45	25,950
November	13,017	671	300	434	.398	.44	25,820
December	12,400	-	-	400	.367	.42	24,600
Calendar year 1938	534,820	≮ 8,000	-	1,465	1.34	18.93	1,061,000
January	11,332	450	250	366	.336	.39	22,480
February	9,640	436	262	344	.316	.33	19,120
March	27,211	2,270	315	878	.806	.93	53,970
April	65,450	2,940	1,650	2,182	2.00	2.23	129,800
May	67,080	3,180	1,280	2,164	1.99	2.29	133,100
June	25,518	1,480	493	851	.781	.87	50,610
July	11,132	577	242	359	.329	.38	22,080
August	6,146	276	166	198	.182	.21	12,190
September	6,151	276	166	205	.188	.21	12,200
Water year 1938-39	268,160	3,180	166	735	.674	9.15	531,900

Grouse Creek near Arrowrock, Idaho

Location.- Water-stage recorder and broad-crested wooden control with rectangular flume for low flow, lat. 43°35', long. 115°55', in SW¼ sec. 19, T. 3 N., R. 5 E., at Sanders ranch, at flow line of Arrowrock Reservoir, just upstream from Little Grouse Creek and 1¼ miles southeast of Arrowrock.

Drainage area.- 8.0 square miles.

Records available.- January to September 1939.

Extremes.- Maximum discharge during period, 89 second-feet Mar. 23 (gage height, 2.66 feet), from curve extended above 25 second-feet by logarithmic plotting; minimum discharge, 0.15 second-foot Aug. 9; minimum gage height, 1.08 feet Aug. 17, 25-30.

Remarks.- Records fair except those for Jan. 20 to Mar. 27, which are poor. Discharge for Jan. 20 based on staff-gage reading; that for Jan. 21, 22 interpolated; and that for Mar. 21-27 computed on basis of gage heights, weather records, and records for nearby stations. No diversion or regulation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	0.90	3.0	24	2.8	1.1	0.64	0.29	0.44
2				-	.99	2.5	20	2.6	1.1	.64	.29	.39
3				-	1.1	2.4	18	2.5	1.1	.59	.29	.39
4				-	1.2	2.4	16	2.4	1.1	.69	.32	.44
5				-	1.1	2.3	13	2.4	1.1	.74	.29	.44
6				-	1.2	2.3	13	2.3	1.1	.64	.24	.44
7				-	1.2	2.2	11	2.2	1.1	.59	.24	.49
8				-	1.1	2.0	10	2.3	1.1	.54	.24	.49
9				-	1.0	2.1	9.7	2.3	1.1	.49	.20	.49
10				-	1.1	3.0	9.1	2.2	1.0	.47	.24	.49
11				-	1.2	4.5	8.5	2.1	.98	.54	.24	.54
12				-	1.3	6.5	8.1	2.0	.93	.54	.20	.93
13				-	1.3	9.7	7.7	1.8	.83	.59	.20	1.1
14				-	1.4	5.7	7.3	1.7	.83	.54	.24	.83
15				-	1.5	4.5	6.9	1.7	.93	.54	.28	.74
16				-	1.4	7.7	6.5	1.7	1.0	.59	.24	.69
17				-	1.6	12	6.1	1.7	1.0	.49	.24	.69
18				-	1.6	15	6.1	1.6	1.0	.44	.24	.64
19				-	1.6	23	5.3	1.6	1.1	.44	.24	.64
20				1.1	1.5	27	4.9	1.6	1.0	.44	.29	.64
21				1.1	1.6	33	4.4	1.6	.93	.34	.34	.64
22				1.1	1.7	38	4.2	1.6	.88	.34	.34	.64
23				1.1	2.0	43	4.2	1.7	.78	.34	.34	.64
24				.90	2.0	42	4.1	1.5	.78	.29	.34	.59
25				.90	2.4	40	3.7	1.5	.78	.24	.31	.64
26				1.0	2.5	34	3.4	1.3	.78	.24	.29	.64
27				1.1	2.4	31	3.2	1.3	.78	.30	.29	.64
28				1.1	2.7	28	3.0	1.2	.74	.34	.29	.64
29				1.1	-	29	3.2	1.2	.69	.34	.29	.74
30				1.1	-	22	3.1	1.1	.69	.34	.29	.74
31				.87	-	24	-	1.1	-	.34	.34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October							
November							
December							
Calendar year							
January 20-31	12.47	1.1	0.87	1.04	0.130	0.06	25
February	42.59	2.7	.90	1.52	.190	.20	84
March	503.8	43	2.0	16.3	2.04	2.35	999
April	247.7	24	3.0	8.26	1.03	1.15	491
May	56.6	2.8	1.1	1.83	.229	.26	112
June	28.33	1.1	.69	.944	.118	.13	56
July	14.63	.74	.24	.472	.059	.07	29
August	8.51	.34	.20	.275	.034	.04	17
September	18.49	1.1	.39	.616	.077	.09	37
The period	-	-	-	-	-	-	1,850

Little Camas Reservoir near Bennett, Idaho

Location.- Staff gage near left end of dam on Little Camas Creek, lat. 43°21', long. 115° 23', in NE¼ sec. 9, T. 1 S., R. 9 E., 4 miles northeast of Bennett and 22 miles northeast of Mountain Home. Datum of gage is that of Mountain Home Irrigation District.

Drainage area.- 31.8 square miles.

Records available.- March 1924 to September 1939 (discontinued).

Extremes.- Maximum gage height observed during year, 4,964.90 feet Apr. 19-21; minimum observed, 4,949.62 feet Sept. 7.
1924-39: Maximum gage height, 4,967.93 feet May 13, 1938; usually no storage after irrigation season of each year.

Remarks.- Reservoir is formed by earth dam, constructed in 1908 and raised about 18 feet in 1912. Capacity, 22,300 acre-feet between gage heights 4,931.0 feet (4.5 feet above bottom of outlet) and 4,965.0 feet (crest of spillway). Dead storage unknown. Water is used for irrigation of about 5,000 acres of land in vicinity of Mountain Home. Gage read once daily. Gage-height record furnished by Mountain Home Irrigation District.

Gage height, in feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	64.80	62.00	58.60	55.40	50.62
2							-	64.60	61.90	58.45	55.25	50.45
3							-	64.70	61.75	58.30	55.12	50.28
4							-	64.70	61.60	58.20	55.00	50.10
5							-	64.62	61.50	58.10	54.86	49.94
6							-	64.52	61.40	57.96	54.72	49.78
7							-	64.45	61.30	-	54.56	49.62
8							-	64.40	61.10	-	54.40	-
9							-	64.30	61.00	57.90	54.22	-
10							64.35	64.20	60.90	57.88	54.08	-
11							-	64.12	60.80	57.80	53.90	-
12							-	64.10	60.60	57.70	53.76	-
13							-	64.00	60.50	57.60	53.58	-
14							-	63.90	60.40	57.54	53.42	-
15							-	63.80	60.22	57.50	53.28	-
16							-	63.70	60.10	57.40	53.14	-
17							-	63.60	59.95	57.25	52.96	-
18							-	63.50	-	57.10	52.83	-
19							64.90	63.40	-	57.00	52.67	-
20							64.90	63.32	59.90	56.88	52.50	-
21							64.90	63.20	59.84	56.76	52.36	-
22							64.90	63.10	59.75	56.62	52.18	-
23							64.90	63.00	59.62	56.50	52.04	-
24							64.90	62.90	59.50	56.37	51.90	-
25		59.10					64.85	62.80	59.40	56.24	51.74	-
26							64.82	62.70	59.22	56.10	51.60	-
27							64.80	62.60	59.11	55.98	51.46	-
28							64.80	62.50	59.00	55.86	51.28	-
29							64.75	62.40	58.85	55.76	51.12	-
30							64.80	62.30	58.71	55.64	50.96	-
31							-	62.15	-	55.52	50.78	-

Note.- Add 4,900 feet to obtain gage height above datum of Mountain Home Irrigation District.

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 1939.

Extremes.- Maximum discharge during year, 64 second-feet May 11, 12; maximum gage height, 2.22 feet May 11 to June 2, June 6, 7, 12, 13; no flow during long periods.
1917, 1924-39: Maximum discharge, 77 second-feet Apr. 27-30, May 1, 3, 9, 1924; no flow during nonirrigation seasons.

Remarks.- Records good. Discharge for Apr. 19, 23, 25, 28-30, May 5, 7, 9, June 17, 20, 21, 23, July 6, 9, 14, 15, 19, Aug. 5, 6, 14, Sept. 7 computed on basis of gate changes. Staff gage read once daily. Canal diverts from Little Camas Reservoir 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. Gage-height record furnished by Mountain Home Irrigation District.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	50	61	55	47	45
2							0	50	60	56	47	43
3							0	50	59	56	47	44
4							0	50	59	56	47	43
5							0	53	59	56	48	43
6							0	55	59	26	50	43
7							0	58	59	0	53	14
8							0	60	59	0	53	0
9							0	61	59	1	53	0
10							0	63	59	26	52	0
11							0	64	58	29	52	0
12							0	64	59	29	52	0
13							0	63	58	29	52	0
14							0	63	57	32	49	0
15							0	63	57	39	47	0
16							0	63	57	43	48	0
17							0	63	35	43	48	0
18							0	63	0	43	48	0
19							6	63	0	44	47	0
20							29	62	9	47	47	0
21							29	62	36	47	46	0
22							29	62	44	47	46	0
23							30	62	50	47	45	0
24							32	62	55	47	46	0
25							33	61	55	48	45	0
26							37	61	55	48	45	0
27							37	61	55	48	45	0
28							40	61	55	48	45	0
29							44	61	55	48	45	0
30							47	61	55	47	45	0
31							-	61	-	47	45	-

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 1938	5,588	61	0	15.3	11,100
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	393	47	0	13.1	780
May	1,856	64	50	59.9	3,680
June	1,498	61	0	49.9	2,970
July	1,232	56	0	39.7	2,440
August	1,485	53	45	47.9	2,950
September	275	45	0	9.2	545
Water year 1938-39	6,739	64	0	18.5	13,360

Moore Creek above Granite Creek, near Idaho City, Idaho

Location.- Water-stage recorder, lat. 43°50', long. 115°47', in SE¼SE¼ sec. 19, T. 6 N., R. 6 E., 1,000 feet upstream from Hoodoo Creek, five-eighths of a mile upstream from Granite Creek, and 2 3/8 miles northeast of Idaho City.

Drainage area.- 37.0 square miles.

Records available.- January to September 1939.

Extremes.- Maximum discharge during period, 181 second-feet Apr. 3 (gage height, 3.12 feet); minimum, 1.7 second-feet Aug. 18 (gage height, 1.12 feet).

Remarks.- Records good except those for periods of ice effect, Feb. 2-4, Mar. 1, which were computed on basis of one discharge measurement, weather records, and records for nearby stations and are fair. Gold Hill Placer diversion takes water from creek 4 1/8 miles above station for use in mining. Some of this is used to supplement domestic supply of Idaho City. Return flow enters Moore Creek through Elk Creek.

Rating table, for water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.1	1.3	1.7	25.3	2.6	109
1.2	3.4	1.8	32.1	2.9	149
1.3	6.2	2.0	47.5	3.1	178
1.4	9.7	2.1	56.0		
1.5	14.1	2.3	75		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	9.0	11	135	153	12	6.9	4.8	2.6
2				-	9.0	11	146	148	11	6.9	4.8	2.6
3				-	10	11	157	143	10	7.6	4.5	2.8
4				-	10	11	164	146	13	13	4.5	2.6
5				-	11	12	143	136	9.4	15	4.8	2.8
6				-	11	11	123	122	11	13	4.8	2.8
7				-	11	11	114	105	27	11	4.8	2.8
8				-	11	11	114	92	25	10	4.5	2.8
9				-	9.4	11	110	84	25	9.7	4.5	2.4
10				-	12	12	99	84	23	9.7	4.5	2.1
11				-	11	13	96	97	22	9.7	4.2	2.4
12				-	11	14	95	92	21	8.6	4.2	5.6
13				-	11	15	87	87	20	7.6	4.2	9.4
14				-	11	14	86	67	20	7.2	4.0	5.6
15				-	11	14	90	78	22	7.2	2.4	4.2
16				-	11	17	92	71	25	7.2	2.4	3.4
17				-	10	27	98	53	22	7.2	2.1	3.0
18				-	11	43	110	54	22	6.9	2.1	3.9
19				-	11	63	123	44	23	6.9	2.1	6.9
20				10	10	83	131	35	22	6.6	2.1	6.4
21				11	11	95	141	32	20	5.6	2.4	2.4
22				8.6	11	110	148	29	18	5.6	2.6	2.1
23				11	11	127	146	26	18	5.4	2.6	2.4
24				11	11	146	132	23	17	5.4	2.8	2.4
25				12	11	155	110	20	17	5.1	3.4	2.6
26				12	11	149	101	19	15	5.1	3.7	2.6
27				12	11	139	102	17	15	4.5	3.7	2.6
28				12	11	132	122	16	11	4.8	3.4	2.4
29				11	-	125	150	16	7.2	4.8	2.6	2.6
30				11	-	130	163	16	6.9	4.8	2.6	2.8
31				9.4	-	132	-	15	-	4.8	2.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January 20-31	131.0	12	8.6	10.9	260
February	299.4	12	9.0	10.7	594
March	1,855	155	11	59.8	3,679
April	3,628	164	86	121	7,196
May	2,125	153	15	68.5	4,215
June	530.5	27	6.9	17.7	1,052
July	233.8	15	4.5	7.54	464
August	108.7	4.8	2.1	3.51	216
September	102.0	9.4	2.1	3.40	202
The period	-	-	-	-	17,880

Moore Creek above Thorn Creek, near Idaho City, Idaho

Location.- Water-stage recorder and broad-crested control, lat. 43°48', long. 115°55', in NW¼NW¼ sec. 18, T. 5 N., R 5 E., 1¾ miles upstream from Thorn Creek and 5½ miles southwest of Idaho City.

Drainage area.- 119 square miles.

Records available.- January to September 1939.

Extremes.- Maximum discharge during period, 387 second-feet Apr. 4 (gage height, 3.38 feet); minimum, 4.4 second-feet Aug. 30 (gage height, 1.18 feet).

Remarks.- Records good except those for periods of ice effect, Jan. 31 to Feb. 5, Feb. 9 to Mar. 1, Mar. 5, 6, which were computed on basis of five discharge measurements, gage heights, weather records, and records for other stations in Moore Creek Basin and are fair. Many diversions above station for placer mining. A small ditch diverts water from Thorn Creek into Pine Creek for mining purposes. Flow slightly regulated by passage through dredged areas in vicinity of Idaho City. Station operated in connection with a study of silt movement in Boise River Basin.

Rating tables, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Jan. 28 to May 30				May 31 to Sept. 30			
1.5	19.5	2.7	222	1.15	3.6	1.7	42.5
1.8	54	3.0	292	1.3	9.1	1.9	69
2.1	100	3.3	366	1.5	22.4		
2.4	157	3.4	392				

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	22	31	318	261	63	25	10.0	5.3
2				-	22	30	336	243	48	23	10.0	5.3
3				-	25	30	345	238	37	22	9.7	5.7
4				-	23	30	371	234	50	22	9.1	5.7
5				-	29	29	336	227	56	24	9.1	5.7
6				-	29	28	285	204	58	29	8.6	6.0
7				-	28	27	259	182	52	27	8.1	6.0
8				-	28	27	254	163	50	25	8.1	6.4
9				-	26	28	250	155	52	22	8.1	6.4
10				-	26	29	229	151	52	21	7.7	6.4
11				-	25	33	222	151	49	19	7.7	6.4
12				-	25	36	218	144	44	19	7.2	7.7
13				-	25	41	200	128	40	18	6.7	9.1
14				-	25	42	189	125	38	17	6.7	10
15				-	26	39	193	125	38	16	6.7	13
16				-	23	40	196	126	42	16	6.7	14
17				-	25	60	196	112	48	15	6.4	15
18				-	25	92	207	110	46	14	6.0	14
19				-	25	138	222	107	46	14	6.0	14
20				-	25	189	234	103	46	13	5.7	13
21				-	25	213	245	94	45	13	5.3	12
22				-	25	252	256	81	39	13	5.0	11
23				-	25	290	259	86	37	12	5.0	11
24				-	25	318	250	63	34	12	5.0	11
25				-	26	348	218	70	32	11	5.0	11
26				-	25	354	196	80	30	11	5.0	11
27				-	25	331	187	72	28	11	5.0	11
28				28	28	324	196	68	28	11	5.0	11
29				27	-	297	229	69	27	11	5.0	10
30				27	-	302	266	74	26	10	5.0	10
31				25	-	306	-	68	-	10	5.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October							
November							
December							
Calendar year							
January	-	-	-	-	-	-	-
February	716	29	22	25.6	0.215	0.22	1,420
March	4,334	354	27	140	1.18	1.36	8,600
April	7,365	371	187	246	2.07	2.31	14,610
May	4,114	261	63	133	1.12	1.29	8,160
June	1,281	63	26	42.7	.359	.40	2,540
July	526	29	10	17.0	.143	.16	1,040
August	209.6	10	5.0	6.76	.057	.07	416
September	284.1	15	5.3	9.47	.080	.09	564
The period	-	-	-	-	-	-	37,350

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.- December 1915 to September 1939. October 1914 to November 1915, discharge measurements only.

Average discharge.- 23 years (1916-39), 287 second-feet.

Extremes.- Maximum discharge observed during year, 1,500 second-feet Apr. 4 (gage height, 3.76 feet); minimum discharge observed, 11 second-feet Aug. 28; minimum gage height observed, 0.09 foot Aug. 28, 29, Sept. 1.

1915-39: Maximum discharge observed, 4,550 second-feet Apr. 19, 1936; maximum gage height, 6.3 feet, former datum, Apr. 11, 1916; minimum discharge, 7.9 second-feet Aug. 13-15, 17, 18, 1924; minimum gage height observed, that of Aug. 28, 29, Sept. 1, 1939.

Remarks.- Records fair. Discharge for Nov. 24 interpolated. Gage read once daily. No large diversions above station. Gage-height record furnished by Board of Control for Boise project. Results of four discharge measurements furnished by watermaster for Boise River.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	111	131	109	59	82	1,210	875	222	66	24	14
2	49	117	131	113	58	99	1,300	765	180	64	23	14
3	71	94	167	113	75	109	1,400	800	167	60	23	14
4	60	327	180	101	111	105	1,500	765	167	62	23	15
5	62	347	167	109	109	85	1,400	730	180	71	22	16
6	58	222	167	89	117	107	1,120	698	180	87	21	15
7	64	167	167	58	117	109	955	605	167	66	22	16
8	54	156	180	52	119	99	1,040	550	156	73	21	16
9	56	180	180	48	109	125	1,040	525	156	68	21	16
10	54	180	180	89	107	138	915	500	156	56	21	17
11	58	167	144	89	111	156	838	500	142	56	21	18
12	71	140	96	99	119	180	875	455	131	56	18	19
13	64	156	82	80	115	272	800	432	113	51	19	33
14	75	156	92	70	117	222	765	410	111	47	18	35
15	78	156	96	80	121	193	800	388	99	41	18	38
16	94	156	109	73	96	180	765	388	123	38	17	38
17	94	208	109	75	96	272	698	388	156	37	16	35
18	85	167	94	92	94	410	730	388	156	37	16	35
19	78	156	117	99	96	500	730	388	156	38	14	33
20	71	156	94	90	92	698	765	388	156	33	16	32
21	66	123	105	94	89	765	838	367	136	29	15	30
22	66	98	101	80	87	838	838	327	121	29	14	31
23	62	82	105	64	92	955	915	347	107	27	14	29
24	62	104	121	53	92	1,120	875	327	101	27	12	29
25	65	127	101	75	109	1,300	800	254	94	27	13	30
26	64	119	90	75	89	1,300	698	289	127	26	12	30
27	64	111	83	103	83	1,160	665	272	87	25	12	29
28	65	107	105	113	90	1,210	698	208	78	24	12	28
29	65	103	113	105	-	1,080	730	238	64	26	12	28
30	75	115	113	107	-	1,120	875	238	65	24	12	28
31	87	-	101	80	-	1,160	-	254	-	25	13	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	2,086	94	49	67.3	0.158	0.18	4,140
November	4,608	347	82	154	.362	.40	9,140
December	3,821	180	83	123	.289	.33	7,580
Calendar year 1938	167,588	2,860	41	459	1.08	14.63	332,400
January	2,677	113	48	86.4	.203	.23	5,310
February	2,769	121	58	98.9	.232	.24	5,490
March	16,149	1,300	82	521	1.22	1.41	32,030
April	27,578	1,500	665	919	2.16	2.41	54,700
May	14,059	875	208	454	1.07	1.23	27,890
June	4,054	222	64	135	.317	.35	8,040
July	1,390	87	24	44.8	.105	.12	2,760
August	535	24	12	17.3	.041	.05	1,060
September	761	38	14	25.4	.060	.07	1,510
Water year 1938-39	80,487	1,500	12	221	.519	7.02	159,600

Gold Hill Placer diversion from Moore Creek, near Idaho City, Idaho

Location.- Staff gage, lat. 43°53', long. 115°44', in sec. 3, T. 6 N., R. 6 E., just downstream from highway bridge, 760 feet downstream from headgates, and 6 miles northeast of Idaho City.

Records available.- April to September 1939.

Extremes.- Maximum discharge observed during period, 33 second-feet May 31 (gage height, 1.56 feet); no flow Apr. 1-22, May 2-4, 11, 12, Sept. 19.

Remarks.- Records good except those for periods of missing gage heights, Apr. 23-30, May 5, which were computed on basis of one discharge measurement, two field estimates of discharge, and records for stations on Moore Creek and are poor. Break in canal below station on May 10 and September 18 permitted flow to return to Moore Creek above station above Granite Creek near Idaho City. Discharge for May 6, 10-12, June 4 and September 18-20 computed on basis of partial gage heights and records for Moore Creek Basin. Gage read twice daily. Canal diverts from right bank of Moore Creek in sec. 3, T. 6 N., R. 6 E., for placer mining and to supplement domestic supply of Idaho City. Water normally returns to Moore Creek through Elk Creek.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

0.3	0	0.9	7.9	1.6	35.3
.5	1.5	1.1	13.1		
.7	4.2	1.3	20.2		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	0.1	31	9.6	4.9	4.9
2							0	0	31	9.6	4.5	5.2
3							0	0	30	8.9	4.4	5.2
4							0	0	24	6.1	3.8	5.0
5							0	1.0	29	5.9	3.3	5.0
6							0	2.8	25	5.9	4.2	5.0
7							0	6.3	3.3	5.6	3.6	4.7
8							0	10	4.6	5.2	3.6	4.5
9							0	14	5.0	4.7	3.8	5.2
10							0	11	4.9	4.9	3.8	5.2
11							0	0	4.5	4.7	3.9	5.0
12							0	0	4.2	5.2	3.3	6.3
13							0	.7	3.6	5.7	3.9	6.5
14							0	17	3.4	5.7	4.9	5.9
15							0	.2	3.3	5.6	4.9	5.9
16							0	9.9	4.0	5.2	4.9	5.9
17							0	25	3.6	5.6	5.2	5.9
18							0	19	3.4	5.2	5.2	3.7
19							0	29	4.2	5.0	5.2	0
20							0	29	3.6	5.2	4.9	.9
21							0	28	3.3	5.7	5.0	5.2
22							0	27	2.7	5.7	4.9	5.6
23							.5	27	2.7	5.9	5.2	5.7
24							1.5	27	2.5	5.6	5.2	5.6
25							2.0	28	2.5	5.6	5.2	5.6
26							2.0	28	3.6	5.2	5.2	5.7
27							2.5	29	3.3	5.6	5.2	5.4
28							4.0	32	6.8	5.2	5.0	5.8
29							6.1	32	9.8	5.2	5.0	5.6
30							3.7	32	8.9	4.5	4.9	5.0
31							-	32	-	4.9	4.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	22.3	6.1	0	0.74	44
May	497.0	32	0	16.0	986
June	271.7	31	2.5	9.06	539
July	178.6	9.6	4.5	5.76	354
August	141.5	5.2	3.3	4.56	281
September	150.9	6.5	0	5.03	299
The period	-	-	-	-	2,500

Granite Creek near Idaho City, Idaho

Location.- Water-stage recorder and broad-crested wooden control, lat. 43°49', long. 115° 47', three-eighths of a mile upstream from mouth and 2¼ miles east of Idaho City.

Drainage area.- 4.8 square miles.

Records available.- January to September 1939.

Extremes.- Maximum discharge during period, 8.0 second-feet Mar. 25 (gage height, 2.45 feet); minimum, 0.28 second-foot Aug. 20, 21; minimum gage height, 1.07 feet July 31, Aug. 2, 3, 5, 6, 20, 21.

Remarks.- Records good except those for periods of ice effect, Feb. 1, 9, 10, 21, which were computed on basis of gage heights, weather records, and records for stations on nearby streams and are fair. Discharge for January 16, March 12, 13, computed on basis of once-daily staff-gage reading; that for Jan. 17 interpolated. No diversion or regulation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	0.75	0.88	6.6	3.2	0.88	0.56	0.38	0.35
2				-	.80	.92	6.5	3.1	.90	.56	.38	.35
3				-	.80	.92	6.5	3.0	.94	.60	.38	.35
4				-	.80	.88	6.6	2.9	.82	.72	.38	.35
5				-	.80	.88	5.9	2.7	.84	.68	.38	.35
6				-	.80	.88	5.0	2.5	.92	.60	.38	.35
7				-	.80	.88	4.6	2.3	.88	.56	.38	.35
8				-	.84	.88	4.6	2.1	.92	.53	.38	.35
9				-	.80	.92	4.5	2.1	1.0	.53	.38	.35
10				-	.85	1.0	4.2	2.0	.86	.49	.38	.31
11				-	.80	1.0	3.9	1.9	.81	.45	.38	.35
12				-	.84	1.1	3.7	1.8	.82	.45	.38	.70
13				-	.80	1.4	3.4	1.7	.77	.42	.38	.80
14				-	.84	1.6	3.2	1.6	.74	.42	.35	.45
15				-	.96	1.3	3.1	1.5	.90	.45	.35	.42
16				0.72	.72	1.7	3.0	1.6	1.0	.45	.38	.38
17				.74	.88	2.4	2.8	1.5	.92	.45	.38	.35
18				.76	.80	3.0	2.9	1.4	.92	.42	.35	.35
19				.76	.80	3.7	3.1	1.4	1.0	.42	.35	.35
20				.76	.80	4.0	3.0	1.4	.88	.38	.35	.35
21				.64	.75	4.6	3.1	1.3	.82	.38	.35	.35
22				.64	.84	5.1	3.1	1.4	.77	.42	.35	.35
23				.64	.88	5.6	3.1	1.4	.68	.42	.35	.37
24				.64	.88	6.3	3.1	1.3	.64	.45	.38	.42
25				.64	.88	6.8	2.8	1.3	.60	.42	.38	.44
26				.68	.88	6.8	2.6	1.2	.56	.42	.35	.42
27				.76	.92	6.7	2.6	1.2	.64	.38	.35	.42
28				.72	.88	6.6	2.6	1.1	.64	.42	.35	.44
29				.72	-	6.2	3.1	1.0	.60	.42	.31	.44
30				.76	-	6.2	3.6	.95	.60	.42	.35	.44
31				.72	-	6.4	-	.94	-	.38	.31	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October							
November							
December							
Calendar year							
January 16-31	11.30	0.75	0.64	0.706	0.147	0.09	22
February	23.19	.96	.72	.828	.172	.18	46
March	97.54	6.8	.88	3.15	.656	.76	193
April	116.8	6.6	2.6	3.89	.810	.90	232
May	54.79	3.2	.94	1.77	.369	.43	109
June	24.27	1.0	.56	.809	.169	.19	48
July	14.67	.72	.38	.473	.099	.11	29
August	11.28	.38	.31	.364	.076	.09	22
September	12.05	.80	.31	.402	.084	.09	24
The period	-	-	-	-	-	-	725

Bannock Creek near Idaho City, Idaho

Location.- Water-stage recorder and broad-crested wooden control with V-notch for low stages, lat. 43°48'30", long. 115°46'30", in SE¼SW¼ sec. 32, T. 6 N., R. 6 E., three-quarters of a mile upstream from South Fork, 2 1/4 miles upstream from confluence with Moore Creek, and 3 1/8 miles southeast of Idaho City.

Drainage area.- 4.5 square miles.

Records available.- January to September 1939.

Extremes.- Maximum discharge during period, 4.4 second-feet Apr. 3, 4, 30 (gage height, 1.00 foot); minimum, 0.10 second-foot Aug. 17, 18 (gage height, 0.23 foot).

Remarks.- Records good except those for days of ice effect, Jan. 31, Feb. 1, Mar. 1, 5 (computed on basis of weather records and records for nearby stations), those for days of missing gage heights, Jan. 17, 18, 29, Feb. 6, 8, Mar. 8 (interpolated), and those for Jan. 16, 30, Feb. 2-5, 7, 9, 27 (based on staff-gage readings), all of which are fair. Intermountain Range and Experiment Station has one small diversion above station.

Rating table, for water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.2	0.06	0.5	0.74	0.8	2.47
.3	.21	.6	1.16	.9	3.37
.4	.44	.7	1.74	1.0	4.45

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	0.65	0.70	3.6	3.2	0.93	0.39	0.17	0.14
2				-	.68	.74	3.9	3.0	.93	.42	.17	.16
3				-	.68	.74	4.1	3.0	.93	.42	.17	.17
4				-	.68	.74	4.3	2.9	.93	.58	.16	.17
5				-	.68	.70	4.1	2.9	.89	.58	.16	.17
6				-	.68	.71	3.8	2.7	.89	.50	.16	.17
7				-	.68	.71	3.6	2.6	.89	.44	.17	.17
8				-	.68	.71	3.7	2.5	.89	.39	.17	.16
9				-	.68	.71	3.6	2.3	.99	.37	.16	.17
10				-	.71	.74	3.4	2.2	.85	.37	.17	.17
11				-	.71	.71	3.1	2.1	.82	.34	.17	.19
12				-	.71	.78	3.1	1.9	.78	.32	.16	.46
13				-	.71	.85	2.9	1.7	.74	.30	.16	.58
14				-	.71	.74	2.8	1.6	.74	.25	.14	.37
15				-	.74	.74	2.8	1.6	.78	.25	.16	.30
16				0.68	.71	.85	2.7	1.6	.85	.25	.16	.28
17				.68	.74	.85	2.7	1.6	.78	.25	.14	.25
18				.68	.74	.93	2.8	1.5	.78	.23	.14	.23
19				.68	.74	1.1	3.0	1.4	.85	.23	.14	.23
20				.68	.71	1.2	3.0	1.4	.78	.23	.16	.25
21				.68	.71	1.3	3.1	1.3	.68	.19	.14	.25
22				.61	.68	1.5	3.2	1.3	.68	.23	.16	.25
23				.68	.68	1.7	3.1	1.3	.61	.19	.16	.28
24				.68	.71	2.0	3.1	1.2	.61	.19	.17	.28
25				.68	.68	2.4	2.8	1.2	.58	.17	.17	.28
26				.68	.68	2.6	2.6	1.1	.55	.19	.17	.25
27				.68	.68	2.8	2.6	1.2	.52	.19	.17	.23
28				.68	.71	2.8	2.6	1.1	.52	.23	.17	.25
29				.68	-	2.8	2.9	1.0	.50	.23	.14	.25
30				.68	-	2.9	3.4	1.0	.39	.23	.16	.25
31				.65	-	3.2	-	.98	-	.19	.14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October							
November							
December							
Calendar year							
January 16-31	10.78	0.68	0.61	0.674	0.150	0.09	21
February	19.55	.74	.65	.698	.155	.16	39
March	41.95	3.2	.70	1.35	.300	.35	83
April	96.4	4.3	2.6	3.21	.713	.80	191
May	56.38	3.2	.98	1.82	.404	.47	112
June	22.65	.93	.39	.755	.168	.19	45
July	9.22	.55	.17	.297	.066	.08	18
August	4.94	.17	.14	.159	.035	.04	9.8
September	7.36	.58	.14	.245	.054	.06	15
The period	-	-	-	-	-	-	534

Pine Creek near Idaho City, Idaho

Location.- Water-stage recorder and broad-crested wooden control with rectangular flume for low stages, lat. 43°49', long. 115°48', in SW¼NE¼ sec. 36, T. 6 N., R. 5 E., a quarter of a mile upstream from Steamboat Gulch, half a mile upstream from mouth, and 1½ miles southeast of Idaho City.

Drainage area.- 6.5 square miles.

Records available.- January to September 1939.

Extremes.- Maximum discharge during period, 12 second-feet Mar. 25, Apr. 1-3; maximum gage height, 2.38 feet Apr. 3; minimum discharge, 0.03 second-foot July 27, 29, 31, Aug. 14, 15, 17-24, Aug. 26 to Sept. 1 (gage height, 1.07 feet).

Remarks.- Records good except those for Jan. 16 to Mar. 22, which are fair. Discharge for days of ice effect, Jan. 31, Feb. 1, 9, Mar. 1, 5, computed on basis of gage heights, weather records, and records for nearby station. Water is diverted from Pine Creek on left bank in SE¼ sec. 12, T. 5 N., R. 5 E., 2-5/8 miles upstream from station, for Davis placer, and records of diversion obtained in SW¼ sec. 1, T. 5 N., R. 5 E. Water is diverted from Thorn Creek, in NW¼ sec. 21, T. 5 N., R. 6 E., into Pine Creek above station and records of diversion obtained ¾ mile below head gate. Net diversion above station from Pine Creek to Davis placer as determined from these records was 121 acre-feet in April, 86 acre-feet in May, 28.8 acre-feet in June, 8.6 acre-feet in July, 2.7 acre-feet in August, and 4.9 acre-feet in September. Return flow from placer enters Moore Creek below mouth of Pine Creek. Station installed and operated in connection with a study of silt movement in Boise River Basin.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	0.60	0.65	10	1.2	0.27	0.24	0.07	0.07
2				-	.65	.69	11	1.1	.31	.20	.07	.10
3				-	.65	.69	11	1.0	.27	.24	.07	.10
4				-	.65	.69	11	.93	.27	.27	.07	.10
5				-	.65	.70	9.4	.85	.31	.27	.07	.07
6				-	.65	.69	7.9	.81	.31	.24	.07	.07
7				-	.65	.65	7.9	.81	.31	.20	.10	.10
8				-	.65	.69	8.4	.77	.31	.24	.07	.10
9				-	.65	.73	8.2	.69	.31	.20	.10	.10
10				-	.65	.77	7.9	.61	.27	.24	.07	.07
11				-	.65	.77	6.8	.57	.31	.20	.07	.10
12				-	.65	.89	5.2	.60	.31	.20	.07	.27
13				-	.65	1.0	3.0	.57	.31	.20	.07	.35
14				-	.65	.89	2.3	.57	.31	.17	.07	.20
15				-	.77	.93	2.1	.57	.35	.17	.17	.17
16				*0.57	.69	1.6	2.0	.57	.35	.17	.14	.17
17				.57	.69	2.5	1.9	.73	.35	.17	.14	.14
18				*.57	.69	3.2	1.8	.57	.35	.14	.07	.14
19				.57	.69	4.6	1.7	.54	.35	.14	.07	.14
20				.57	.69	5.6	1.8	.50	.35	.14	.07	.10
21				.57	.69	5.5	1.6	.50	.27	.14	.07	.10
22				.54	.69	6.9	1.6	.50	.27	.14	.07	.14
23				.54	.69	8.2	1.6	.46	.24	.14	.07	.14
24				.54	.69	9.0	1.5	.38	.24	.10	.07	.14
25				.57	.69	9.9	1.4	.38	.24	.10	.07	.14
26				.61	.73	10	1.3	.35	.24	.07	.07	.14
27				.61	.69	9.9	1.3	.31	.24	.07	.07	.14
28				.61	.69	9.7	1.2	.31	.24	.10	.07	.14
29				.61	-	9.4	1.3	.27	.20	.10	.07	.14
30				.65	-	9.7	1.4	.31	.20	.10	.07	.14
31				.60	-	9.9	-	.35	-	.10	.07	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January 16-31	9.30	0.65	0.57	0.581	18
February	18.83	.77	.60	.672	37
March	127.03	10	.65	4.10	252
April	135.5	11	1.2	4.52	269
May	18.68	1.2	.27	.603	37
June	8.66	.35	.20	.289	17
July	5.20	.27	.07	.168	10
August	2.47	.14	.07	.080	4.9
September	4.02	.35	.07	.134	8.0
The period	-	-	-	-	653

*Staff gage read.

Elk Creek near Idaho City, Idaho

Location.- Water-stage recorder, lat. 43°50'30", long. 115°49'30", in NW¼SE¼ sec. 23, T. 6 N., R. 5 E., 400 feet upstream from Spanish Fork and 1 mile north of Idaho City.

Drainage area.- 22.3 square miles.

Records available.- January to September 1939.

Extremes.- Maximum discharge during period, 97 second-feet Mar. 24 (gage height, 1.82 feet); minimum not determined; minimum gage height, 0.78 foot Jan. 20.

Remarks.- Records good except those for periods of ice effect, Jan. 31 to Feb. 4, Feb. 9, 10, 16, 17, 19-22, 26, 27, Mar. 1, 5 (computed on basis of one discharge measurement, fragmentary gage-height record, weather records, and records for nearby stations), and those for July 1 to Sept. 30, all of which are fair. Many diversions above station for placer mining, of which the following affect the flow passing station: (1) Diversion from Elk Creek for Gold Hill placer on left bank in SE¼ sec. 36, T. 7 N., R. 5 E., 4-3/8 miles above station; records of diversion obtained 1,550 feet below head gate. Return flow, except that used on Rubow placer enters Elk Creek below station; records of return flow obtained in NE¼SE¼ sec. 23, 750 feet above point of use and return to Elk Creek, ¼ mile above station. (2) and (3), Two diversions from Elk Creek for Rubow placers (on Spanish Fork) on right bank in NW¼ sec. 13 and SW¼ sec. 12, T. 6 N., R. 5 E., respectively; records of diversion obtained 1½ miles and ¾ mile below respective head gates. Return flow enters Elk Creek through Spanish Fork below station. Net diversion from Elk Creek above station, determined from foregoing records, 119 acre-feet in March, 352 acre-feet in April, 1,437 acre-feet in May, 757 acre-feet in June, 617 acre-feet in July, 430 acre-feet in August, and 484 acre-feet in September. Station installed and operated in connection with a study of silt movement in Boise River Basin.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	7.5	8.4	78	59	8.4	0.9	3.1	0.2
2				-	7.5	8.1	76	58	8.7	.7	2.9	.2
3				-	8.0	8.1	78	56	5.2	1.3	1.8	.2
4				-	8.4	8.1	84	52	3.5	1.3	1.0	.2
5				-	8.1	8.7	78	56	2.2	1.7	.5	.3
6				-	8.1	8.7	71	55	3.5	2.6	1.2	.3
7				-	8.1	8.4	68	41	5.4	1.8	1.3	.3
8				-	7.8	8.1	68	30	6.1	3.	1.2	.3
9				-	7.8	7.8	65	25	7.6	2.9	.7	.2
10				-	8.1	8.4	58	30	7.8	2.0	.8	.2
11				-	8.1	9.0	55	30	8.7	2.9	2.0	.3
12				-	8.1	9.2	54	18	7.6	2.0	2.4	1.1
13				-	7.8	10	48	18	9.5	1.5	1.7	2.7
14				-	7.8	9.5	46	16	9.5	1.3	.9	1.3
15				-	8.1	9.2	47	24	12.0	3.3	.7	1.7
16				-	7.8	11	46	20	14	2.4	.5	1.5
17				-	7.8	17	46	7.3	13	2.8	.2	.7
18				-	7.8	19	51	6.8	11	3.1	.6	1.0
19				-	7.8	40	54	7.8	12	2.7	.2	2.2
20				7.6	8.4	58	55	8.7	9.2	3.7	.7	1.2
21				8.7	8.7	62	59	8.1	9.5	3.7	1.5	1.5
22				6.8	8.4	67	62	8.1	9.8	3.3	1.0	1.0
23				8.1	8.4	74	64	7.0	5.2	4.1	.5	1.2
24				8.4	8.4	79	60	6.3	6.5	3.9	.4	1.2
25				8.7	8.1	83	50	6.3	6.5	2.7	.3	1.8
26				8.7	9.0	74	47	6.1	7.8	3.1	.3	1.2
27				9.0	8.7	71	48	8.1	6.5	4.3	.4	1.2
28				9.0	8.4	76	54	9.5	4.9	2.7	.3	1.5
29				8.7	-	71	60	10	5.8	3.5	.4	1.5
30				8.1	-	74	64	12	4.7	1.7	.4	1.5
31				7.5	-	76	-	11	-	2.8	.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January 20-31	99.3	9.0	6.8	8.28	197
February	227.0	9.0	7.5	8.11	450
March	1,081.7	83	7.8	34.9	2,150
April	1,794	84	46	59.8	3,560
May	711.1	59	6.1	22.9	1,410
June	232.1	14	2.2	7.74	460
July	80.4	4.3	.7	2.59	159
August	30.1	3.1	.2	.97	60
September	29.7	2.7	.2	.99	59
The period	-	-	-	-	8,500

244739 O—40——12

New York canal near Barber, Idaho

Location.- Water-stage recorder and concrete control, 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 to September 1939.

Extremes.- Maximum discharge during period, 2,890 second-feet May 5; maximum gage height, 9.17 feet May 20; no flow at times.

Remarks.- Records good except those for periods of ice effect or missing gage heights, Feb. 18-22, Mar. 27, 28, which were computed on basis of data furnished by Board of Control of Boise Project, and records for stations on Boise River and are fair. Canal diverts from Boise River in sec. 3, T. 2 N., R. 3 E., 8 miles downstream from Moore Creek, for irrigation of 166,396 acres 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 operation of head gates.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	1,210	1,330	2,790	2,030	1,780	1,250	0
2					0	1,240	1,320	2,840	1,810	1,740	1,260	0
3					0	1,240	1,320	2,830	1,530	1,680	1,290	0
4					0	1,240	1,430	2,840	1,300	1,670	1,280	0
5					0	1,220	1,630	2,860	1,280	1,610	1,230	0
6					0	1,220	1,760	2,860	1,260	1,520	1,230	0
7					0	1,230	1,800	2,850	1,210	1,530	1,220	272
8					0	1,230	1,870	2,840	1,190	1,540	1,220	993
9					0	1,400	2,030	2,810	1,200	1,530	1,240	1,270
10					0	1,430	2,140	2,800	1,190	1,580	1,320	1,230
11					0	1,380	2,240	2,800	1,150	1,630	1,330	1,390
12					0	1,320	2,320	2,780	1,200	1,620	1,300	1,330
13					0	1,280	2,320	2,760	1,300	1,640	1,340	1,190
14					0	1,170	2,340	2,760	1,340	1,650	1,360	1,250
15					0	1,160	2,400	2,740	1,470	1,580	1,370	1,120
16					0	1,260	2,480	2,720	1,450	1,540	1,360	786
17					0	1,280	2,560	2,720	1,360	1,570	1,340	0
18					130	1,200	2,640	2,740	1,260	1,580	1,290	0
19					360	1,160	2,700	2,720	1,200	1,500	1,210	0
20					430	731	2,700	2,720	1,200	1,510	1,160	0
21					560	0	2,700	2,620	1,220	1,420	1,150	0
22					560	0	2,720	2,240	1,340	1,300	1,170	0
23					683	0	2,750	2,220	1,440	1,240	1,140	0
24					883	0	2,750	2,140	1,520	1,220	1,050	0
25					1,030	0	2,720	2,030	1,600	1,260	1,100	0
26					1,110	0	2,680	1,800	1,630	1,270	1,130	67
27					1,170	140	2,660	1,600	1,630	1,280	1,160	521
28					1,230	700	2,680	1,540	1,690	1,280	1,340	883
29					-	1,070	2,740	1,560	1,770	1,250	1,430	942
30					-	1,110	2,780	1,750	1,780	1,260	1,180	1,010
31					-	1,260	-	2,010	-	1,260	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	8,146	1,230	0	291	16,160
March	28,881	1,430	0	932	57,280
April	68,510	2,780	1,320	2,284	135,900
May	77,290	2,860	1,540	2,493	153,300
June	42,550	2,030	1,150	1,418	84,400
July	46,040	1,780	1,220	1,485	91,320
August	37,450	1,430	0	1,208	74,280
September	14,254	1,390	0	475	28,270
The period	-	-	-	-	640,900

Cottonwood Gulch at Boise, Idaho

Location.- Water-stage recorder and broad-crested wooden control with trapezoidal notch for low stages, lat. 43°37', long. 116°11', on United States Military Reservation, 1 mile east of Boise post office. Prior to February 21 staff gage at site a quarter of a mile upstream.

Drainage area.- 16.0 square miles.

Records available.- January to September 1939.

Extremes.- Maximum discharge during period, 62 second-feet Mar. 19 (gage height, 4.00 feet); no flow Aug. 25.

Remarks.- Records good except those for Jan. 25 to Feb. 21, Mar. 5 (computed on basis of weather records and records for nearby stations), and June 27 to Sept. 30, which are fair. Staff gage, used Jan. 25 to Feb. 21, read once daily. No diversions.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				-	1.4	2.8	16	2.7	0.67	0.10	0.05	0.10
2				-	1.4	3.7	15	2.5	.60	.10	.05	.10
3				-	1.5	3.5	14	2.4	.54	.10	.05	.10
4				-	1.4	3.0	12	2.4	.54	.14	.05	.05
5				-	1.6	2.6	11	2.2	.60	.14	.05	.05
6				-	1.5	4.6	10	2.2	.60	.10	.05	.05
7				-	1.4	4.1	9.4	2.1	.60	.10	.05	.05
8				-	1.4	4.2	8.7	1.9	.54	.10	.05	.05
9				-	1.4	4.6	8.0	1.8	.60	.10	.10	.05
10				-	1.6	6.4	7.7	1.7	.54	.10	.10	.05
11				-	1.6	9.8	7.7	1.7	.48	.05	.05	.05
12				-	1.8	23	7.3	1.5	.43	.01	.05	.06
13				-	1.9	22	6.7	1.4	.38	.01	.10	.07
14				-	2.5	15	6.4	1.3	.33	.01	.10	.05
15				-	3.8	14	6.1	1.3	.38	.05	.10	.05
16				-	3.1	17	5.6	1.3	.54	.05	.08	.05
17				-	2.4	26	5.3	1.3	.60	.05	.05	.05
18				-	2.4	38	5.1	1.3	.60	.05	.10	.05
19				-	2.4	51	4.6	1.2	.60	.01	.10	.04
20				-	2.3	51	4.4	1.2	.54	.05	.10	.04
21				-	2.3	51	4.4	1.2	.48	.05	.10	.05
22				-	3.5	45	4.2	1.2	.38	.05	.10	.05
23				-	3.9	43	3.9	1.3	.33	.05	.05	.05
24				-	3.6	40	3.9	1.2	.33	.05	.04	.05
25				1.3	4.6	37	3.7	1.0	.28	.05	.01	.05
26				1.4	3.3	36	3.4	.94	.28	.05	.01	.05
27				1.6	3.6	27	3.0	.87	.19	.05	.01	.05
28				1.8	3.6	24	2.9	.73	.14	.05	.05	.05
29				1.6	-	23	3.2	.67	.10	.05	.10	.05
30				1.5	-	20	3.2	.67	.10	.05	.10	.05
31				.42	-	18	-	.67	-	.10	.10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January 25-31	9.62	1.8	0.42	1.37	19
February	67.2	4.6	1.4	2.40	133
March	670.3	51	2.6	21.6	1,330
April	206.8	16	2.9	6.89	410
May	45.85	2.7	.67	1.48	91
June	13.32	.67	.10	.444	26
July	2.02	.14	.01	.065	4.0
August	2.10	.10	.01	.068	4.2
September	1.66	.10	.04	.055	3.3
The period	-	-	-	-	2,020

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 from 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. Zero of gage is 2,500.5 feet above mean sea level (surveys of Bureau of Reclamation).

Records available.- October 1917 to September 1939.

Extremes.- Maximum contents during year, 177,800 acre-feet Apr. 13 (gage height, 30.07 feet); minimum, 20,640 acre-feet Sept. 30.

1917-39: Maximum contents, 178,900 acre-feet Apr. 27, 28, 1922, Apr. 24, 1932, (gage height, 30.10 feet); minimum, 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. Gage-height record and capacity table furnished by Board of Control for Boise Project.

Capacity table (gage height, in feet, and contents, in acre-feet)
(Furnished by Bureau of Reclamation)

Lower pool				Upper pool			
0	0	8	10,633	0	0	8	13,742
2	1,679	10	14,773	2	2,786	10	18,409
4	4,036	12	19,382	4	5,979	12	23,694
6	7,033			6	9,617		

Above 12.0 feet the pools unite to form one reservoir; their combined capacity is given below.

12	43,076	20	93,035	30	177,153
16	66,109	25	131,981		

Contents, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52,690	64,240	69,080	88,340	95,570	109,700	156,600	162,600	135,800	96,220	58,760	26,500
2	52,060	64,550	70,880	88,340	95,570	111,800	158,700	161,900	135,500	94,410	57,570	25,930
3	51,670	64,740	72,490	88,340	95,570	114,300	161,000	161,200	135,000	92,820	56,510	25,740
4	51,550	64,980	74,980	88,340	95,640	116,300	163,300	160,800	134,300	91,390	55,340	25,190
5	51,330	65,610	77,100	88,340	95,640	118,500	165,400	160,100	133,200	90,030	54,180	24,770
6	51,330	65,730	79,440	88,480	95,790	121,300	167,700	159,500	132,100	88,900	52,920	24,300
7	51,500	65,800	81,610	88,480	95,790	123,100	169,200	158,700	131,100	87,770	51,500	23,810
8	51,890	65,860	83,600	89,180	95,790	125,200	171,200	158,200	130,000	86,650	49,980	23,540
9	52,180	65,980	85,880	90,530	95,790	127,300	172,900	157,800	129,000	85,610	48,540	23,250
10	52,630	66,110	87,980	92,170	95,790	129,100	175,000	157,000	128,000	84,570	47,230	23,420
11	52,920	66,240	88,120	93,970	95,790	131,400	176,500	156,200	127,000	83,190	45,720	23,170
12	53,490	66,300	88,260	95,420	95,790	134,100	177,400	155,600	126,200	82,300	44,230	23,000
13	54,520	66,420	88,260	96,010	95,790	135,800	177,800	154,500	125,000	80,660	42,980	23,210
14	55,340	66,490	88,190	96,080	95,790	138,300	177,600	153,800	123,600	79,650	41,730	23,420
15	56,390	66,610	88,190	96,150	95,930	140,700	177,400	153,700	122,200	77,970	40,540	23,400
16	58,040	66,740	88,190	96,080	95,930	142,000	177,200	154,000	120,500	76,430	39,270	23,690
17	59,480	66,860	88,190	95,930	95,930	143,900	177,200	153,200	119,300	75,110	37,910	24,040
18	61,290	66,990	88,120	95,930	95,930	146,200	176,700	152,200	118,100	73,990	36,680	24,170
19	62,090	67,120	88,120	95,790	95,930	148,200	176,100	151,400	116,900	72,690	35,480	24,120
20	62,700	67,370	88,120	95,790	96,010	150,100	175,400	150,500	115,600	71,330	34,580	24,100
21	62,820	67,490	88,190	95,720	96,880	151,900	174,200	149,700	114,300	70,100	33,680	24,080
22	62,880	67,560	88,190	95,790	97,760	152,200	173,000	149,300	112,500	69,270	32,960	23,940
23	63,000	67,620	88,190	95,790	98,940	151,700	171,800	148,200	111,000	68,320	32,130	23,640
24	63,070	67,620	88,190	95,790	99,900	151,500	170,600	146,400	109,400	67,430	31,310	23,400
25	63,190	67,680	88,190	95,720	101,400	151,300	169,400	145,000	107,500	66,490	30,450	23,180
26	63,310	67,750	88,190	95,640	103,200	151,000	168,500	143,300	105,900	65,550	29,800	22,610
27	63,600	67,810	88,260	95,640	105,200	150,600	167,200	142,800	104,200	64,490	29,220	21,970
28	63,620	67,870	88,340	95,640	107,100	150,500	166,000	142,600	102,400	63,310	28,540	21,460
29	63,740	68,000	88,340	95,640	-	150,700	164,700	141,700	100,400	62,210	28,000	21,070
30	63,870	68,130	88,340	95,570	-	152,400	163,600	139,200	98,280	60,990	27,460	20,640
31	63,990	-	88,340	95,570	-	154,300	-	137,100	-	59,960	26,980	-

Monthly gage height and contents, water year October 1938 to September 1939

Date	Gage height (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Sept. 30	13.87	53,320	-
Oct. 31	15.66	63,990	+10,670
Nov. 30	16.32	68,130	+4,140
Dec. 31	19.34	88,340	+20,210
Calendar year 1938	-	-	+4,600
Jan. 31	20.35	95,570	+7,230
Feb. 28	21.90	107,100	+11,530
Mar. 31	27.57	154,300	+47,200
Apr. 30	28.58	163,600	+9,300
May 31	25.61	137,100	-26,500
June 30	20.72	98,280	-38,820
July 31	15.00	59,960	-38,320
Aug. 31 (Upper)	8.72	26,980	-32,980
Aug. 31 (Lower)	8.50		
Sept. 30 (Upper)	7.16	20,640	-6,340
Sept. 30 (Lower)	6.96		
Water year 1938-39	-	-	-32,680

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. Zero of gage is 3,479.29 feet above mean sea level (general adjustment of 1929). Prior to June 7, 1939, water-stage recorder in SE¼ sec. 3, T. 22 S., R. 36 E., half a mile upstream from flow line of Warmsprings Reservoir and 10 miles southeast of Drewsey.

Drainage area.- 982 square miles.

Records available.- June to December 1920, April to September 1921, June to September 1939. April to September 1923 and June 1926 to June 1939 at site 7 miles downstream. Records equivalent.

Average discharge.- 13 years (1926-39), 126 second-feet.

Extremes.- Maximum discharge during year, 1,030 second-feet Mar. 21 (gage height, 4.96 feet); no flow Aug. 30 to Sept. 1, part of Sept. 2.
1920-21, 1923, 1926-39: Maximum discharge, 3,800 second-feet Mar. 19, 1932 (gage height, 8.17 feet, former site and datum); no flow at times.

Remarks.- Records fair except those for periods of ice effect, Nov. 12, Feb. 3, 5-22, 24-28, which were computed on basis of contents of Warmsprings Reservoir, weather records, and records for North Fork of Malheur River above Agency Valley Reservoir, near Beulah. Several small diversions above station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	34	67	66	51	62	534	188	29	11	1.1	0
2	10	38	66	68	57	66	630	190	28	11	1.0	.1
3	12	39	67	66	62	67	692	190	26	9	.9	.1
4	13	47	66	62	64	68	692	188	25	11	.9	.1
5	17	53	59	63	65	64	670	180	24	14	1.2	.1
6	18	69	58	44	65	63	610	176	23	14	1.0	.1
7	17	66	57	57	65	68	546	166	22	15	.5	.1
8	17	54	58	57	65	65	526	149	22	12	.5	.1
9	17	55	60	45	65	68	550	137	24	10	.3	.1
10	16	60	57	67	70	83	570	132	21	8	.2	.1
11	16	59	42	63	70	115	530	125	20	7	.2	.1
12	15	55	36	62	70	222	510	113	18	6	.3	.1
13	13	47	38	53	70	525	494	104	18	7	.3	.1
14	10	44	32	53	70	295	424	92	17	6	.5	.2
15	11	59	30	55	70	211	376	82	15	6	.5	.3
16	13	60	34	53	70	367	352	78	14	6	.3	.4
17	13	60	44	53	70	765	322	72	16	6	.8	.5
18	14	64	55	49	70	828	292	71	17	6	.9	.6
19	15	62	55	47	70	876	270	68	18	5	.8	.6
20	15	58	62	40	70	950	258	67	24	5	.5	1.1
21	15	66	64	44	70	995	250	62	21	5	.3	1.3
22	16	40	63	38	70	940	245	60	22	4.2	.5	1.2
23	18	38	69	36	71	792	242	57	20	3.6	.2	1.2
24	20	33	62	39	72	715	248	57	19	2.7	.1	1.2
25	20	30	68	49	72	692	248	56	18	1.5	.2	1.0
26	20	31	59	51	72	692	240	54	16	1.3	.4	1.0
27	21	42	68	57	71	670	228	48	16	1.3	.1	1.8
28	23	51	59	63	72	546	208	46	14	1.0	.1	2.4
29	24	48	68	63	-	522	192	41	13	1.1	.1	2.2
30	24	57	69	60	-	510	185	37	12	1.1	0	2.9
31	26	-	67	54	-	498	-	32	-	1.2	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	507	26	8	16.4	1,010
November	1,529	69	30	51.0	3,030
December	1,759	69	30	56.7	3,490
Calendar year 1938	93,965	1,890	4	257	186,400
January	1,677	68	36	54.1	3,330
February	1,899	72	51	67.8	3,770
March	13,400	995	62	432	26,580
April	12,134	692	185	404	24,070
May	3,118	190	32	101	6,180
June	592	29	12	19.7	1,170
July	199.0	15	1.0	6.42	395
August	14.8	1.2	0	.48	29
September	21.1	2.9	0	.70	42
Water year 1938-39	36,849.9	995	0	101	73,100

Peak discharge.- Mar. 13 (2 p.m.) 638 sec.-ft.; Mar. 17 (11 a.m.) 870 sec.-ft.

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 of Malheur River, and 4 miles northwest of Riverside.

Drainage area.- 1,100 square miles.

Records available.- January 1906 to March 1907 and December 1908 to September 1910 (at site at Riverside, 4 miles downstream), December 1914 to July 1917, and March 1919 to September 1939 in reports of U. S. Geological Survey. October 1910 to November 1914 in reports of State engineer.

Average discharge.- 27 years (1909-16, 1919-39), 161 second-feet.

Extremes.- Maximum discharge observed during year, 665 second-feet Apr. 22-24 (gage height, 5.09 feet); no flow Mar. 12, 19-25.
1906-7, 1908-17, 1919-39: Maximum discharge observed, 5,490 second-feet Mar. 2, 1910; no flow at times.

Remarks.- Records good. Several small diversions above station for irrigation. Flow completely regulated since November 1919 by operation of gates in Warmsprings Dam. Once-daily gage readings furnished by Bureau of Reclamation.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

2.7	0	3.2	13	3.8	82	4.6	360
2.8	1.0	3.4	26	4.0	130	4.9	535
3.0	5.3	3.6	48	4.3	225	5.2	735

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	164	0.5	0.5	0.5	0.5	0.5	3.0	568	360	600	292	233
2	164	.5	.5	.5	.5	.5	3.0	505	360	600	292	201
3	158	.5	.5	.5	.5	.5	8.5	505	360	600	301	167
4	148	.5	.5	.5	.5	.5	5.5	475	360	600	310	132
5	148	.5	.5	.5	.5	.5	6.5	445	360	568	310	115
6	140	.5	.5	.5	.5	.5	9.5	415	360	568	310	115
7	135	.5	.5	.5	.5	.5	10	388	335	535	310	115
8	108	.5	.5	.5	.5	.5	13	388	335	535	310	115
9	96	.5	.5	.5	.5	.5	8.5	388	335	475	310	115
10	96	.5	.5	.5	.5	.5	16	415	335	475	310	115
11	96	.5	.5	.5	.5	.5	130	445	335	445	335	118
12	96	.5	.5	.5	.5	0	130	475	360	445	335	125
13	96	.5	.5	.5	.5	1.0	167	475	415	445	335	105
14	96	.5	.5	.5	.5	1.0	301	475	415	445	360	76
15	96	.5	.5	.5	.5	1.0	360	475	445	445	360	60
16	1.5	.5	.5	.5	.5	1.0	415	475	475	445	360	34
17	1.0	.5	.5	.5	.5	1.0	445	475	475	415	360	26
18	.5	.5	.5	.5	.5	1.0	475	445	475	415	360	26
19	.5	.5	.5	.5	.5	0	535	415	475	388	388	26
20	.5	.5	.5	.5	.5	0	600	415	445	335	360	35
21	.5	.5	.5	.5	.5	0	600	388	445	335	335	51
22	.5	.5	.5	.5	.5	0	632	388	415	310	335	51
23	.5	.5	.5	.5	.5	0	665	360	445	306	335	51
24	.5	.5	.5	.5	.5	0	632	306	475	306	360	51
25	.5	.5	.5	.5	.5	0	632	265	505	306	335	51
26	.5	.5	.5	.5	.5	2.0	632	257	505	306	335	41
27	.5	.5	.5	.5	.5	2.0	600	278	505	306	310	36
28	.5	.5	.5	.5	.5	2.0	568	301	535	301	292	36
29	.5	.5	.5	.5	-	2.0	568	335	568	292	278	36
30	.5	.5	.5	.5	-	2.0	568	388	600	292	265	36
31	.5	-	.5	.5	-	3.5	-	388	-	292	278	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,846.5	164	0.5	59.6	3,660
November	15.0	.5	.5	.50	30
December	15.5	.5	.5	.50	31
Calendar year 1938	40,073.0	415	0	110	79,480
January	15.5	.5	.5	.50	31
February	14.0	.5	.5	.50	28
March	25.0	3.5	0	.81	50
April	9,738.5	665	3.0	325	19,320
May	12,716	568	257	410	25,220
June	12,813	600	335	427	25,410
July	13,131	600	292	424	26,040
August	10,066	388	265	325	19,970
September	2,494	233	26	83.1	4,950
Water year 1938-39	62,890.0	665	0	172	124,700

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 1939 (incomplete prior to October 1922).
Average discharge.- 16 years (1922-25, 1926-39), 197 second-feet.
Extremes.- Maximum discharge during year, 1,770 second-feet Mar. 17 (gage height, 3.91 feet); minimum, 9 second-feet Dec. 13 (gage height, 0.31 foot).
1919-39: Maximum discharge, 8,100 second-feet Feb. 5, 1925, 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 in 1910.
Remarks.- Records good except those for periods of ice effect, Nov. 21, 22, Dec. 12 (estimated on basis of weather records and unpublished records for station on Malheur River below Nevada Dam, near Vale), and that for day of missing gage height, June 30 (interpolated), which are fair. Vale-Oregon canal, completed in 1930 by Bureau of Reclamation, diverts at Namorf; no other large diversion above station but many small ones. Flow regulated to large extent since November 1919 by Warmsprings Reservoir and since December 1935 by Agency Valley Reservoir (see p. 176).

Rating tables, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used June 20 to Sept. 30)

Oct. 1 to Mar. 14				Mar. 15 to Sept. 30			
0.3	9	1.6	184	0.8	36	2.2	455
.5	16	1.9	280	1.0	57	2.5	615
.7	28	2.2	408	1.3	109	2.8	805
1.0	57	2.5	575	1.6	193	3.1	1,020
1.3	111	2.8	775	1.9	312	3.5	1,370

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	86	33	50	41	36	42	105	253	183	241	116	141
2	86	40	50	36	34	40	95	256	167	229	111	133
3	83	42	50	46	40	41	93	207	133	229	111	119
4	79	51	49	39	40	41	89	204	126	233	101	101
5	76	52	49	46	40	40	180	193	128	245	111	95
6	60	51	38	40	46	40	334	193	136	218	123	68
7	52	49	23	38	44	39	161	164	139	174	123	55
8	45	45	21	40	39	41	126	153	121	177	123	53
9	40	47	20	41	27	40	109	150	95	190	121	55
10	38	45	20	40	36	39	121	131	95	177	123	50
11	32	43	20	40	39	44	171	147	101	144	136	53
12	28	42	18	43	45	85	93	167	111	126	150	57
13	25	44	15	39	42	661	177	190	114	123	141	87
14	23	44	18	42	44	775	215	193	141	119	141	93
15	26	46	25	37	66	344	273	187	147	116	144	70
16	25	45	34	46	190	415	282	167	153	139	155	63
17	23	42	32	36	174	1,320	316	167	183	144	153	60
18	22	43	39	38	109	1,160	282	167	171	150	144	55
19	22	44	44	39	81	896	278	139	171	150	155	50
20	22	44	42	36	66	760	316	114	193	131	171	46
21	22	43	42	30	58	571	303	116	174	114	183	43
22	21	40	31	36	53	490	312	123	164	95	174	43
23	20	34	40	31	49	405	321	150	161	97	144	53
24	20	38	35	34	46	334	321	141	158	91	153	67
25	20	33	41	33	44	286	299	111	183	89	167	67
26	21	33	32	39	42	245	316	97	200	109	167	71
27	21	33	43	45	43	222	312	87	197	114	171	68
28	21	38	43	40	43	200	273	80	187	119	164	60
29	22	53	42	40	-	161	253	103	174	126	171	49
30	25	49	43	42	-	139	245	114	215	121	155	46
31	25	-	37	43	-	119	-	183	-	116	153	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,131	86	20	36.5	2,240
November	1,286	53	33	42.9	2,550
December	1,086	50	15	35.0	2,150
Calendar year 1938	81,389	1,770	15	224	161,800
January	1,216	46	30	39.2	2,410
February	1,616	190	27	57.7	3,210
March	10,055	1,320	39	324	19,940
April	6,771	334	89	226	13,430
May	4,847	256	80	156	9,610
June	4,621	215	95	154	9,170
July	4,646	245	89	150	9,220
August	4,455	183	101	144	8,840
September	2,071	141	43	69.0	4,110
Water year 1938-39	43,801	1,320	15	120	86,880

Peak discharge.- Mar. 14 (3 a.m.) 1,220 sec.-ft.; Mar. 17 (7 a.m.) 1,770 sec.-ft.

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 of Malheur River and 4 miles northwest of Riverside. Drainage area, 1,100 square miles. Zero of gage is 3,327 feet above mean sea level (surveys of Bureau of Reclamation). Records available, January 1920 to September 1939. Maximum contents observed during year, 187,000 acre-feet Apr. 14 (gage height, 77.78 feet); minimum observed, 66,200 acre-feet Sept. 30 (gage height, 45.06 feet). Maximum contents observed during period 1920-39, 194,300 acre-feet May 19-21, 1938 (gage height, 79.40 feet); no storage Sept. 18 to Nov. 1, 1929, Aug. 26 to sometime in November 1935.

Gage read once daily. Dam was completed in 1919 by Warmsprings Irrigation District; in 1926 a half interest in reservoir was purchased by the Federal Government for Vale project of Bureau of Reclamation. Capacity of reservoir is 191,000 acre-feet between gage heights 0.0 feet (outlet tunnel) and 79.0 feet (top of 5-foot flash boards on top of spillway). Dead storage 1,400 acre-feet. Capacity table and gage readings furnished by Bureau of Reclamation. Figures given herein represent usable capacity. Water used to irrigate lands between Namorf and Ontario on both sides of river.

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. Zero of gage is at mean sea level (surveys of Bureau of Reclamation). Drainage area, 420 square miles. Records available, December 1935, when storage began, to September 1939. Maximum contents observed during year, 60,200 acre-feet May 2 (gage height, 3,340.15 feet); minimum observed, 29,940 acre-feet Oct. 1 (gage height, 3,321.30 feet). Maximum contents during period 1935-39, 60,680 acre-feet Apr. 18, May 27, 1938 (gage height, 3,340.40 feet); no storage prior to Dec. 21, 1935.

Dam was completed in 1935 by Bureau of Reclamation. Capacity above elevation 3,263.21 feet (bottom of outlet tunnel) is 32,220 acre-feet at elevation 3,323 feet (spillway crest) or 59,920 acre-feet at elevation 3,340 feet (top of spillway gates). No dead storage. Water is used for irrigation of lands below Juntura. Figures given herein represent usable capacity. Capacity table and daily gage readings furnished by Bureau of Reclamation.

Gage height and contents, water year October 1938 to September 1939

Date	Warmsprings Reservoir			Agency Valley Reservoir		
	Gage height (feet)	Contents (acre-feet)	Changes in contents during month (acre-feet)	Gage height (feet)	Contents (acre-feet)	Changes in contents during month (acre-feet)
Sept. 30	64.51	131,000	-	3,321.40	30,070	-
Oct. 31	63.63	127,500	-3,500	3,323.10	32,360	+2,290
Nov. 30	64.34	130,400	+2,900	3,325.05	35,100	+2,740
Dec. 31	65.24	134,000	+3,600	3,327.25	38,340	+3,240
Calendar year 1938	-	-	+111,600	-	-	+20,490
Jan. 31	66.21	137,800	+3,800	3,329.30	41,440	+3,100
Feb. 28	67.30	142,200	+4,400	3,331.20	44,440	+3,000
Mar. 31	74.20	170,900	+28,700	3,338.85	57,760	+13,320
Apr. 30	75.40	176,300	+5,400	3,340.05	60,020	+2,260
May 31	70.02	153,100	-23,200	3,339.70	59,360	-660
June 30	63.14	125,600	-27,500	3,339.60	59,170	-190
July 31	54.80	95,400	-30,200	3,336.60	53,650	-5,520
Aug. 31	47.33	73,000	-22,400	3,331.00	44,120	-9,530
Sept. 30	45.06	66,200	-6,800	3,325.15	35,240	-8,880
Water year 1938-39	-	-	-64,800	-	-	+5,170

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, about 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 1939.

Extremes.- Maximum discharge during year not recorded; minimum, 19 second-feet Aug. 5. 1914, 1936-39: Maximum discharge recorded, 905 second-feet Apr. 19, 1938 (gage height, 4.39 feet); minimum, that of Aug. 5, 1939.

Remarks.- Records poor Oct. 1 to Apr. 30, good thereafter. Shifting-control method used Oct. 1-31, Mar. 1-15. Discharge for period of excessive shift, November to February, computed on basis of record of contents in Agency Valley Reservoir. A few small diversions above station; no regulation.

Revisions.- The figure and date of maximum discharge for the water year 1937-38, which apply also to the periods of record, 1914, 1936-38, have been revised to 905 second-feet Apr. 19, 1938 (gage height, 4.39 feet). The revised figure and date superseding those published in Water-Supply Paper 863.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52					55	307	188	76	36	25	25
2	55					59	332	179	73	36	24	28
3	58					62	320	175	70	37	24	29
4	57					58	307	177	64	44	24	27
5	56					47	270	173	67	42	21	26
6	55					58	221	168	69	42	21	28
7	55					55	219	160	67	40	22	28
8	55					58	223	150	63	39	24	28
9	55					61	223	144	62	37	25	28
10	55					58	200	140	60	36	25	29
11	54					62	200	134	59	36	25	29
12	56					76	*195	131	58	36	25	30
13	57					102	*190	125	55	35	25	36
14	57					76	162	122	54	35	25	34
15	53					78	138	120	51	34	25	32
16	53					*160	133	118	53	32	25	32
17	53					307	146	122	51	32	26	31
18	53					*370	166	116	51	31	25	31
19	52					432	*170	113	55	30	25	30
20	52					*540	*170	111	55	30	23	30
21	53					*460	*170	108	53	31	24	32
22	53					382	*175	105	48	30	24	31
23	53					420	*180	102	48	30	25	31
24	52					394	*180	95	45	30	25	31
25	50					394	171	89	44	30	25	30
26	50					357	154	86	43	29	25	30
27	50					282	144	82	42	28	25	30
28	50					282	175	78	40	29	25	29
29	53					257	164	74	38	28	25	30
30	59					245	182	77	37	28	25	30
31	57					255	-	77	-	28	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,673	59	50	54.0	3,320
November	1,290	-	-	43	2,560
December	1,519	-	-	49	3,010
Calendar year 1938	60,593	888	35	166	120,200
January	1,457	-	-	47	2,890
February	1,428	-	-	51	2,830
March	6,502	540	47	210	12,900
April	5,987	332	133	200	11,880
May	3,839	188	74	124	7,610
June	1,651	76	37	55.0	3,270
July	1,041	44	28	33.6	2,060
August	757	26	21	24.4	1,500
September	895	36	25	29.8	1,780
Water year 1938-39	28,039	540	21	76.8	55,610

*Estimated on basis of reservoir contents, weather records, and records for Malheur River near Drewsey.

North Fork of Malheur River at Beulah, Oreg.

Location.- Staff gage, lat. 45°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 northeast of Juntura.

Drainage area.- 420 square miles.

Records available.- January 1936 to September 1939. March 1909 to June 1912 and November 1913 to July 1914, at site 6 miles downstream. June 1936 to December 1935, at site three-quarters of a mile downstream, below intakes of two canals with combined capacity of about 10 second-feet.

Extremes.- Maximum discharge observed during year, 374 second-feet Apr. 5 (gage height, 2.80 feet); no flow Oct. 3 to Mar. 31.
1909-12, 1913-14, 1926-39: Maximum 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. Flow regulated by Agency Valley Reservoir of Bureau of Reclamation since Dec. 21, 1935, when gates were first closed (see p. 176). Small diversions above station for irrigation; practically entire summer flow is diverted below station and above Juntura. Gage-height record furnished by Bureau of Reclamation.

Rating tables, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

Oct. 1-3		Mar. 31 to Sept. 30					
0.4	21	0.2	18	1.0	82	2.0	218
.6	36	.4	31	1.2	105	2.4	292
.8	55	.6	46	1.4	130	2.8	374
		.8	63	1.6	158		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50					0	21	158	72	42	187	151
2	24					0	21	172	72	40	187	172
3	13					0	21	172	72	54	187	187
4	0					0	218	172	72	72	194	187
5	0					0	374	172	72	68	210	194
6	0					0	312	172	68	68	202	194
7	0					0	235	172	58	72	202	194
8	0					0	235	165	58	72	202	194
9	0					0	202	158	58	72	202	187
10	0					0	202	151	54	72	202	180
11	0					0	180	151	52	72	165	180
12	0					0	180	144	52	71	165	187
13	0					0	218	137	52	68	165	187
14	0					0	218	130	58	88	151	187
15	0					0	187	117	54	117	151	187
16	0					0	180	111	54	117	151	187
17	0					0	165	99	53	117	151	187
18	0					0	144	99	46	105	151	165
19	0					0	144	99	46	124	151	165
20	0					0	144	93	46	130	151	165
21	0					0	144	111	48	144	151	165
22	0					0	144	111	48	144	144	165
23	0					0	144	111	48	144	151	172
24	0					0	144	111	40	144	151	172
25	0					0	180	111	40	187	151	172
26	0					0	187	111	40	180	151	172
27	0					0	180	105	40	180	158	172
28	0					0	172	105	50	180	151	144
29	0					0	172	105	47	180	151	144
30	0					0	165	93	42	180	151	144
31	0					14	-	77	-	180	151	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	87	50	0	2.8	173
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1938	56,729	1,260	0	155	112,500
January	0	0	0	0	0
February	0	0	0	0	0
March	14	14	0	.5	28
April	5,233	374	21	174	10,380
May	3,995	172	77	129	7,920
June	1,612	72	40	53.7	3,200
July	3,484	187	40	112	6,910
August	5,188	210	144	167	10,290
September	5,259	194	144	175	10,430
Water year 1938-39	24,872	374	0	63.1	49,330

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 1939.

Average discharge.- 15 years (1924-39), 1,149 second-feet.

Extremes.- Maximum discharge during year, 3,120 second-feet May 5 (gage height, 4.17 feet); minimum, 182 second-feet Mar. 8 (gage height, 1.09 feet), from rating curve extended below 280 second-feet; minimum daily discharge, 290 second-feet Jan. 22.

1921-39: Maximum discharge observed, 10,600 second-feet May 26, 1928 (gage height, 8.0 feet); minimum discharge, 75 second-feet Dec. 15, 1935, Jan. 26, 1936 (gage height, 0.70 foot), from rating curve extended below 280 second-feet; minimum daily discharge, 217 second-feet Jan. 26, 1936.

Remarks.- Records excellent except those for periods of ice effect, Dec. 13-15, Jan. 24, which were computed on basis of weather records and records for other stations in Payette River Basin and are fair. A few diversions above station. Since Nov. 2, 1930, flow regulated by Deadwood Reservoir on Deadwood River (capacity, 160,400 acre-feet). Slight regulation by operation of Grimes Pass power plant.

Rating table, water year 1938-39 except for periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.3	270	2.5	1,100	3.7	2,490
1.6	430	2.8	1,390	4.0	2,910
1.9	620	3.1	1,730	4.3	3,350
2.2	845	3.4	2,100		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,200	522	959	829	331	342	1,240	2,910	1,850	1,240	1,000	1,200
2	1,070	510	950	829	392	364	1,290	2,840	1,610	1,290	1,050	1,200
3	1,200	522	968	837	380	364	1,390	2,910	1,560	1,290	1,060	1,200
4	1,090	669	934	829	392	364	1,500	3,050	1,500	1,440	1,100	1,200
5	781	568	925	861	380	342	1,390	3,050	1,440	1,390	1,100	1,060
6	765	472	885	829	386	353	1,240	2,840	1,390	1,150	1,040	993
7	750	448	750	789	370	364	1,150	2,560	1,340	773	1,070	993
8	750	510	750	789	386	353	1,150	2,420	1,290	735	1,200	813
9	758	627	750	627	342	358	1,150	2,420	1,390	803	1,240	853
10	574	634	735	676	331	358	1,090	2,420	1,340	1,290	1,240	1,020
11	529	600	683	641	375	375	1,070	2,420	1,340	1,390	1,240	976
12	581	555	620	430	386	380	1,080	2,420	1,290	1,390	1,290	925
13	503	634	620	358	370	424	1,040	2,360	1,340	1,290	1,290	1,090
14	484	634	900	375	380	402	1,010	2,300	1,340	1,100	1,440	813
15	510	627	1,150	375	358	386	1,090	2,420	1,340	1,060	1,500	614
16	574	641	1,290	386	295	386	1,150	2,560	1,500	1,100	1,500	594
17	529	655	1,150	386	375	424	1,150	2,630	1,440	1,150	1,390	683
18	496	627	1,010	386	408	503	1,240	2,560	1,290	1,240	1,340	720
19	484	620	845	386	386	607	1,440	2,560	1,290	1,340	1,340	614
20	478	627	821	380	358	750	1,560	2,300	1,290	1,340	1,340	607
21	472	548	829	315	348	805	1,730	2,040	1,240	1,340	1,290	522
22	466	496	837	290	358	893	1,910	1,910	1,200	1,290	1,200	419
23	460	555	837	331	370	993	2,040	1,790	1,150	1,100	1,200	419
24	460	942	837	350	370	1,090	1,910	1,670	1,150	1,080	1,200	430
25	454	959	562	375	364	1,200	1,790	1,560	1,100	1,070	1,240	424
26	448	885	662	375	348	1,200	1,610	1,500	1,080	885	1,290	424
27	448	758	805	424	348	1,150	1,610	1,500	1,040	885	1,290	430
28	448	805	861	424	364	1,150	1,790	1,610	1,010	942	1,340	516
29	448	845	993	408	-	1,100	2,230	1,850	1,050	993	1,560	522
30	510	968	984	397	-	1,150	2,910	2,100	1,150	993	1,440	529
31	522	-	942	364	-	1,150	-	2,100	-	1,010	1,200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	19,242	1,200	448	621	38,170
November	19,463	968	448	649	38,600
December	26,844	1,290	562	866	53,240
Calendar year 1938	560,819	7,490	348	1,536	1,112,000
January	16,051	861	290	518	31,840
February	10,251	408	295	366	20,330
March	20,080	1,200	342	648	39,830
April	43,950	2,910	1,010	1,465	87,170
May	71,580	3,050	1,500	2,309	142,000
June	39,340	1,850	1,010	1,311	78,030
July	35,479	1,440	735	1,144	70,370
August	39,020	1,560	1,000	1,259	77,400
September	22,803	1,200	419	760	45,230
Water year 1938-39	364,103	3,050	290	998	722,200

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. Zero of gage is 2,812.00 feet above mean sea level.

Drainage area.- 1,200 square miles.

Records available.- August 1921 to September 1939.

Average discharge.- 18 years, 1,533 second-feet.

Extremes.- Maximum discharge during year, 4,660 second-feet May 5 (gage height, 5.51 feet); minimum, 363 second-feet Feb. 1 (gage height, 0.24 foot).
1921-39: Maximum discharge, 13,800 second-feet May 17, 1927 (gage height, 10.6 feet, from floodmarks); minimum, 225 second-feet Dec. 15, 1935, Jan. 26, 1936, from rating curve extended below 400 second-feet.

Remarks.- Records good. Discharge for days of missing gage heights, Nov. 15, 17, and days of ice effect Jan. 25, 26, computed on basis of weather records and records for nearby stations. Small diversions above station for irrigation. Since Nov. 2, 1930, flow regulated by operation of gates in Deadwood Dam, on Deadwood River (capacity, 160,400 acre-feet). Slight regulation by operation of Grimes Pass power plant.

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.2	345	1.4	985	2.8	1,970	4.4	3,430
.5	485	1.7	1,170	3.2	2,305	4.8	3,850
.8	640	2.0	1,370	3.6	2,665	5.2	4,300
1.1	805	2.4	1,655	4.0	3,035	5.6	4,780

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,370	728	1,140	985	435	505	2,300	4,420	2,400	1,440	1,080	1,240
2	1,200	722	1,140	985	475	525	2,480	4,300	2,140	1,580	1,140	1,240
3	1,370	744	1,170	985	535	530	2,580	4,420	1,970	1,580	1,140	1,270
4	1,300	1,040	1,100	985	560	530	2,760	4,540	1,930	1,620	1,170	1,240
5	985	865	1,100	1,020	550	500	2,580	4,540	1,890	1,620	1,200	1,140
6	955	678	1,080	985	545	500	2,300	4,070	1,810	1,480	1,100	1,040
7	925	618	955	895	525	515	2,090	3,740	1,730	1,020	1,100	1,040
8	895	706	925	895	535	515	2,050	3,530	1,660	925	1,270	895
9	925	778	955	750	490	525	2,050	3,430	1,730	985	1,300	865
10	778	835	925	805	470	525	1,930	3,430	1,730	1,440	1,300	1,080
11	684	778	835	835	540	550	1,930	3,430	1,660	1,540	1,300	1,040
12	778	706	690	640	550	580	1,930	3,430	1,620	1,540	1,340	985
13	684	778	673	580	530	690	1,850	3,230	1,620	1,480	1,370	1,200
14	646	805	865	585	550	662	1,770	3,230	1,620	1,240	1,480	985
15	678	835	1,020	525	550	624	1,890	3,330	1,620	1,170	1,540	744
16	778	865	1,370	550	450	629	1,970	3,430	1,810	1,240	1,580	706
17	717	900	1,300	545	505	728	2,010	3,530	1,730	1,240	1,440	750
18	673	805	1,240	550	585	925	2,140	3,430	1,620	1,340	1,440	835
19	651	778	1,020	560	565	1,170	2,400	3,430	1,580	1,440	1,440	706
20	640	805	955	545	535	1,480	2,580	3,040	1,620	1,440	1,400	700
21	634	706	985	480	505	1,620	2,840	2,760	1,540	1,440	1,400	624
22	624	585	985	422	490	1,770	3,130	2,580	1,440	1,370	1,270	535
23	612	629	985	445	535	1,970	3,230	2,400	1,400	1,200	1,270	515
24	612	1,040	985	505	545	2,140	3,130	2,300	1,370	1,140	1,270	520
25	607	1,100	805	525	540	2,300	2,840	2,140	1,340	1,200	1,300	520
26	607	1,040	750	550	520	2,300	2,660	2,050	1,300	985	1,370	520
27	602	895	925	596	510	2,140	2,580	2,050	1,240	985	1,370	520
28	596	925	985	590	525	2,220	2,840	2,140	1,200	1,040	1,400	585
29	602	985	1,140	570	-	2,090	3,430	2,400	1,240	1,080	1,580	602
30	673	1,140	1,140	555	-	2,140	4,420	2,660	1,300	1,080	1,540	607
31	722	-	1,100	520	-	2,140	-	2,660	-	1,100	1,240	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	24,523	1,370	596	791	48,640
November	24,814	1,140	585	827	49,220
December	31,243	1,370	673	1,008	61,970
Calendar year 1938	794,186	9,680	550	2,176	1,575,000
January	20,963	1,020	422	676	41,580
February	14,650	585	435	523	29,060
March	36,038	2,300	500	1,163	71,480
April	74,690	4,420	1,770	2,490	148,100
May	100,070	4,540	2,050	3,228	198,500
June	48,860	2,400	1,200	1,629	96,910
July	39,980	1,620	925	1,290	79,300
August	41,140	1,580	1,080	1,327	81,600
September	25,249	1,270	515	842	50,080
Water year 1938-39	482,220	4,540	422	1,321	956,400

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.

Drainage area.- 2,230 square miles.

Records available.- December 1912 to September 1916 and July 1919 to September 1939. February 1906 to November 1912, at site 2 miles upstream, in sec. 2.

Average discharge.- 28 years (1907-15, 1919-39), 2,960 second-feet.

Extremes.- Maximum discharge during year, 8,920 second-feet May 5 (gage height, 5.73 feet); minimum, 636 second-feet Feb. 1 (gage height, 0.83 foot).
1906-16, 1919-39: 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. Flow regulated by storage in Payette Lake (capacity unknown), Lake Fork (capacity, 18,630 acre-feet), and Deadwood Reservoirs (capacity, 160,400 acre-feet). Several diversions for irrigation from tributaries above station.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

0.8	615	2.3	2,105	3.8	4,610	5.3	7,910
1.1	840	2.6	2,525	4.1	5,200	5.6	8,660
1.4	1,100	2.9	2,990	4.4	5,820	5.9	9,440
1.7	1,400	3.2	3,500	4.7	6,490		
2.0	1,730	3.5	4,045	5.0	7,190		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,640	1,060	1,450	1,280	715	840	4,600	8,160	4,800	1,850	1,680	1,420
2	1,490	1,100	1,440	1,260	760	857	5,300	8,160	4,520	2,040	1,700	1,410
3	1,660	1,150	1,450	1,280	848	874	5,720	8,410	4,140	2,040	1,670	1,500
4	1,670	1,560	1,440	1,300	874	857	6,040	8,660	3,680	2,170	1,670	1,430
5	1,440	1,550	1,430	1,320	857	832	6,040	8,920	3,320	2,380	1,680	1,220
6	1,320	1,240	1,450	1,280	848	832	5,300	8,660	2,990	2,450	1,520	1,200
7	1,310	1,080	1,340	1,200	816	857	4,800	8,410	2,830	2,040	1,530	1,220
8	1,280	1,140	1,300	1,170	824	832	4,700	8,160	2,680	1,790	1,660	1,060
9	1,260	1,200	1,340	1,090	792	848	4,800	7,910	2,680	1,480	1,670	1,010
10	1,170	1,280	1,280	1,140	760	866	4,610	7,910	2,680	1,850	1,660	1,200
11	984	1,180	1,190	1,160	832	900	4,610	7,670	2,600	1,980	1,660	1,220
12	1,120	1,060	968	1,010	857	976	4,700	6,950	2,450	2,040	1,680	1,120
13	1,130	1,070	874	857	824	1,140	4,610	6,040	2,450	2,100	1,640	1,370
14	1,040	1,100	1,010	848	840	1,070	4,320	5,930	2,380	1,850	1,790	1,280
15	1,030	1,240	1,200	848	857	1,000	4,520	6,040	2,380	1,790	1,790	1,020
16	1,170	1,320	1,550	874	760	1,030	4,700	6,490	2,520	1,910	1,850	968
17	1,180	1,410	1,540	857	816	1,160	4,800	7,190	2,600	1,850	1,730	1,000
18	1,100	1,350	1,500	874	908	1,400	4,900	7,190	2,600	1,980	1,710	1,060
19	1,060	1,280	1,350	874	900	1,720	5,300	7,430	2,600	2,100	1,670	942
20	1,050	1,220	1,260	848	882	2,100	5,500	6,950	2,680	2,100	1,710	891
21	1,020	1,120	1,240	784	848	2,310	5,720	6,490	2,680	2,100	1,640	857
22	993	866	1,260	722	848	2,520	6,040	6,040	2,520	2,100	1,420	730
23	976	800	1,240	722	874	2,830	6,260	5,610	2,380	1,910	1,530	671
24	959	1,160	1,260	768	900	3,160	6,260	5,100	2,240	1,790	1,490	692
25	916	1,390	1,150	800	874	3,410	5,820	4,610	2,170	1,910	1,490	692
26	891	1,310	900	832	866	3,590	5,400	4,140	2,040	1,640	1,570	685
27	900	1,160	1,180	900	848	3,500	5,200	3,860	1,910	1,600	1,540	685
28	900	1,130	1,220	900	866	3,770	5,400	3,860	1,790	1,670	1,480	738
29	908	1,200	1,350	882	-	3,860	6,260	4,230	1,790	1,720	1,790	730
30	976	1,380	1,410	848	-	4,040	7,650	4,610	1,790	1,700	1,730	816
31	1,060	-	1,390	816	-	4,230	-	4,800	-	1,710	1,410	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	35,603	1,670	891	1,148	70,620
November	36,106	1,560	800	1,204	71,620
December	39,962	1,550	874	1,289	79,260
Calendar year 1938	1,441,361	18,500	800	3,949	2,859,000
January	30,344	1,320	722	979	60,190
February	23,494	908	715	839	46,800
March	58,211	4,230	832	1,878	115,500
April	160,080	7,650	4,320	5,336	317,500
May	204,590	8,920	3,860	6,600	405,800
June	80,890	4,800	1,790	2,696	160,400
July	59,640	2,450	1,480	1,924	118,300
August	50,760	1,850	1,410	1,637	100,700
September	30,837	1,500	671	1,028	61,160
Water year 1938-39	810,517	8,920	671	2,221	1,608,000

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 1939.

Average discharge.- 14 years, 2,693 second-feet.

Extremes.- Maximum discharge during year, 10,200 second-feet Apr. 2 (gage height, 8.40 feet); minimum, 176 second-feet Nov. 23 (gage height, 1.91 feet).
1925-39: 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 affected at times by operation of gates in Black Canyon Dam and by storage in reservoirs upstream. Gage-height record collected in cooperation with Bureau of Reclamation.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

1.9	170	4.0	2,420	6.8	7,000
2.2	380	4.4	2,970	7.2	7,780
2.5	660	4.8	3,550	7.6	8,580
2.8	970	5.2	4,170	8.0	9,410
3.1	1,300	5.6	4,830	8.4	10,250
3.4	1,660	6.0	5,520		
3.7	2,030	6.4	6,240		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,160	1,150	1,600	1,410	760	1,050	4,410	8,380	4,580	1,460	1,150	970
2	1,170	1,190	1,600	1,340	810	780	6,620	8,380	4,170	1,370	1,140	970
3	1,190	1,290	1,600	1,410	1,070	820	6,620	8,580	3,780	1,410	1,120	970
4	1,420	1,720	1,610	1,360	978	893	7,380	8,780	3,480	1,440	1,110	948
5	1,210	1,770	1,610	1,420	967	981	7,190	8,990	2,900	1,590	1,100	840
6	1,220	1,460	1,620	1,470	1,030	992	4,760	8,780	2,690	2,030	1,090	710
7	1,200	1,240	1,620	1,310	906	992	3,380	8,380	2,480	1,840	1,120	700
8	1,180	1,420	1,620	1,160	911	1,000	5,520	8,180	2,360	1,430	1,120	700
9	1,050	1,500	1,620	1,160	800	1,010	5,880	7,980	2,220	1,350	1,110	700
10	690	1,650	1,620	1,320	740	1,060	4,660	7,780	2,290	1,370	1,160	700
11	680	1,580	1,610	1,270	780	1,140	5,170	7,580	2,160	1,380	1,180	670
12	660	1,300	1,280	1,110	1,050	1,430	5,170	7,000	2,100	1,360	1,210	660
13	780	1,310	1,080	1,080	1,120	2,480	5,000	5,880	2,030	1,340	1,210	810
14	926	1,410	1,100	850	948	1,780	4,660	5,880	1,900	1,400	1,210	970
15	820	1,500	1,350	981	1,140	1,000	4,830	6,060	1,900	1,420	1,220	820
16	1,040	1,700	1,460	915	1,120	1,170	4,830	6,060	2,030	1,440	1,150	680
17	1,160	1,840	1,560	949	871	871	5,000	7,000	2,220	1,460	1,100	650
18	1,020	1,660	1,560	911	1,100	2,200	5,000	7,190	2,160	1,470	1,100	650
19	992	1,620	1,550	953	1,140	2,950	5,340	7,190	2,160	1,500	1,050	650
20	1,020	1,520	1,400	951	1,040	3,620	5,520	7,000	2,220	1,520	1,020	641
21	1,010	1,460	1,320	884	992	3,780	5,880	6,430	2,220	1,540	1,020	584
22	992	1,120	1,290	750	1,020	3,700	6,240	5,880	2,160	1,440	1,010	425
23	981	996	1,340	730	1,040	4,330	6,620	5,520	1,960	1,400	1,000	364
24	948	1,120	1,300	820	1,040	4,660	6,430	5,000	1,760	1,370	1,000	340
25	893	1,770	1,290	893	1,070	5,170	6,060	4,410	1,660	1,320	1,000	308
26	882	1,600	882	926	1,040	5,520	5,520	3,700	1,520	1,150	1,010	308
27	904	1,470	1,320	1,080	1,020	4,430	5,340	3,550	1,420	1,120	1,040	364
28	937	1,310	1,320	1,100	1,020	4,660	5,340	3,780	1,400	1,140	1,070	434
29	904	1,500	1,350	903	-	4,430	6,240	3,850	1,400	1,150	1,050	452
30	1,040	1,530	1,480	1,050	-	4,490	7,580	4,170	1,380	1,160	1,060	452
31	1,140	-	1,500	882	-	5,880	-	4,490	-	1,160	959	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	31,219	1,420	660	1,007	61,920
November	43,706	1,840	996	1,457	86,690
December	44,462	1,620	882	1,434	88,190
Calendar year 1938	1,541,276	21,000	3	4,223	3,057,000
January	33,348	1,470	730	1,076	66,140
February	27,523	1,140	740	983	54,590
March	79,269	5,880	780	2,557	157,200
April	168,190	7,580	3,380	5,606	333,600
May	201,830	8,990	3,550	6,511	400,300
June	68,710	4,580	1,380	2,290	136,300
July	43,530	2,030	1,120	1,404	86,340
August	33,889	1,220	959	1,093	67,220
September	19,440	970	308	648	38,560
Water year 1938-39	795,116	8,990	308	2,178	1,577,000

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. Prior to Aug. 8, 1939, wire-weight gage at same site and datum.

Records available.- August 1935 to September 1939. January 1895 to July 1897 (incomplete), at site 2 miles downstream.

Extremes.- Maximum discharge observed during year, 8,560 second-feet May 1, 2, 5, 6; maximum gage height observed, 8.11 feet May 5; minimum discharge, 270 second-feet Sept. 28 (gage height, 2.79 feet).

1935-39: 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. Discharge for Feb. 2 computed on basis of records for Payette River near Emmett. Many diversions above station for irrigation. Flow regulated also by operation of gates in Black Canyon Dam and by storage of water in reservoirs on tributary streams. Gage read twice daily prior to Aug. 8.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

2.7	230	4.4	1,640	6.5	4,840
2.9	325	4.7	2,020	6.8	5,460
3.1	440	5.0	2,430	7.1	6,110
3.3	575	5.3	2,850	7.4	6,790
3.5	730	5.6	3,300	7.7	7,520
3.8	1,000	5.9	3,770	8.0	8,290
4.1	1,300	6.2	4,270	8.3	9,110

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,000	1,460	1,890	1,760	952	1,050	4,840	8,560	3,930	815	650	612
2	1,100	1,410	1,890	1,580	900	1,200	5,670	8,560	3,770	772	650	650
3	1,150	1,580	2,020	1,580	952	1,000	6,790	8,290	3,450	772	612	674
4	1,300	1,760	2,020	1,640	1,100	1,050	7,770	8,290	3,300	952	730	666
5	1,300	2,290	1,890	1,580	1,000	1,100	7,270	8,560	2,710	952	612	620
6	1,300	2,020	1,890	1,700	1,100	1,150	6,560	8,560	2,430	1,300	575	540
7	1,300	1,580	1,890	1,700	1,050	1,150	1,700	8,030	2,290	1,580	575	472
8	1,250	1,580	1,890	1,410	1,000	1,200	3,450	7,770	2,020	1,000	635	460
9	1,200	1,760	1,890	1,410	1,050	1,200	5,460	7,520	1,580	815	598	440
10	1,000	1,890	1,890	1,460	1,050	1,250	6,330	7,030	1,890	860	628	422
11	815	1,890	1,890	1,410	952	1,360	5,040	7,030	1,890	815	650	428
12	730	1,760	1,640	1,300	1,050	1,700	4,840	6,560	1,760	815	666	446
13	690	1,580	1,410	1,150	1,050	3,000	5,040	5,460	1,700	730	635	590
14	815	1,640	1,300	1,000	1,300	2,710	4,640	5,040	1,580	730	666	764
15	1,000	1,760	1,360	1,000	1,250	1,460	4,450	5,250	1,410	772	666	896
16	1,000	2,020	1,700	1,050	1,360	1,760	4,640	5,250	1,520	815	674	764
17	1,150	2,150	1,760	1,000	1,100	1,520	4,450	5,890	1,890	905	582	674
18	1,100	2,150	1,760	1,000	1,100	2,150	4,450	6,330	1,890	905	561	635
19	1,100	2,020	1,760	1,000	1,150	4,100	4,640	6,330	1,890	905	533	605
20	1,100	1,890	1,760	1,000	1,200	3,770	5,040	6,560	1,890	905	492	612
21	1,200	1,640	1,640	1,000	1,050	4,270	5,040	5,890	1,890	952	505	605
22	1,100	1,580	1,580	1,000	1,000	4,450	5,670	5,670	1,760	952	526	554
23	1,100	1,100	1,580	905	905	4,840	6,110	5,460	1,640	905	533	472
24	1,100	1,300	1,640	860	1,150	4,640	6,110	4,840	1,520	860	540	422
25	1,050	1,890	1,890	905	1,150	5,040	5,890	4,270	1,200	815	540	364
26	1,000	2,020	1,250	952	1,200	5,890	5,250	3,610	1,250	772	540	315
27	1,000	1,890	1,580	1,050	1,100	5,670	5,040	3,150	1,050	650	540	295
28	1,050	1,760	1,580	1,300	1,100	4,450	4,840	3,150	905	612	598	280
29	1,050	1,580	1,580	1,250	-	4,640	5,670	3,300	815	575	628	305
30	1,050	1,890	1,640	1,250	-	5,250	7,270	3,610	815	575	658	305
31	1,200	-	1,760	1,050	-	6,110	-	3,930	-	650	674	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	33,300	1,300	690	1,074	66,050
November	52,840	2,290	1,100	1,761	104,800
December	53,220	2,020	1,250	1,717	105,600
Calendar year 1938	1,528,047	22,500	300	4,186	3,031,000
January	38,252	1,760	860	1,234	75,870
February	30,321	1,360	900	1,083	60,140
March	90,130	6,110	1,000	2,907	178,800
April	159,960	7,770	1,700	5,332	317,300
May	187,750	8,560	3,150	6,056	372,400
June	57,635	3,930	815	1,921	114,300
July	26,433	1,580	575	853	52,430
August	18,672	730	492	602	37,040
September	15,887	896	280	530	31,510
Water year 1938-39	764,400	8,560	280	2,094	1,516,000

Deadwood Reservoir near Lowman, Idaho

Location.- Staff gage at dam on Deadwood River, lat. 44°18', long. 115°39', in SE¼ sec. 8, T. 11 N., R. 7 E., 15 miles north of Lowman. Zero of gage is at mean sea level (levels by Bureau of Reclamation).

Drainage area.- 108 square miles.

Records available.- October 1935 to September 1939.

Extremes.- Maximum elevation observed during year, 5,334.75 feet June 17, 18, 21; minimum observed, 5,292.6 feet Sept. 30.

1936-39: 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 the late fall of 1936 Bureau of Reclamation cut an intermountain 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. Measurement of June 7 indicated a flow in this canal of 10.8 second-feet. Gage read once daily. Gage-height record furnished by Bureau of Reclamation.

Elevation, in feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	320.40	320.20	317.70	309.05	307.40	309.10	311.70	319.50	333.30	334.30	324.80	303.20
2	320.00	320.30	317.50	308.70	307.50	309.20	311.80	320.20	333.60	334.00	324.40	302.40
3	319.70	320.40	317.30	308.35	307.60	309.30	311.90	321.00	-	333.70	324.00	301.50
4	319.50	320.50	317.10	308.00	307.70	309.40	312.10	321.80	334.00	333.30	323.55	300.70
5	319.30	320.60	316.85	307.65	307.80	309.50	312.30	322.40	334.20	333.00	323.10	300.00
6	319.20	320.60	316.60	307.30	307.90	309.60	312.50	323.00	334.20	332.90	322.70	299.34
7	319.10	320.65	316.40	306.95	308.00	309.70	312.70	323.50	334.30	333.05	322.30	298.68
8	319.00	320.70	316.20	306.60	308.10	309.80	312.90	324.00	334.50	332.95	321.70	298.17
9	318.90	320.70	316.00	306.40	308.15	309.90	313.10	324.50	334.60	332.95	321.10	297.72
10	318.90	320.70	315.80	306.20	308.20	310.00	313.30	325.00	334.70	332.70	320.50	297.04
11	319.00	320.65	315.60	306.00	308.25	310.05	313.50	325.50	334.70	332.30	319.90	296.34
12	319.10	320.60	315.40	306.00	308.30	310.20	313.70	326.00	334.70	331.90	319.30	295.86
13	319.15	320.55	315.20	306.10	308.35	310.30	313.90	326.50	334.70	331.50	316.70	295.44
14	319.20	320.50	314.95	306.20	308.40	310.35	314.10	327.00	334.70	331.25	317.90	294.97
15	319.30	320.45	314.70	306.30	308.45	310.40	314.30	327.50	334.70	331.00	317.00	294.78
16	319.40	320.40	314.30	306.40	308.50	310.45	314.40	328.00	334.70	330.75	316.00	294.52
17	319.45	320.35	313.80	306.50	308.55	310.50	314.50	328.50	334.75	330.45	315.20	294.52
18	319.50	320.30	313.30	306.60	308.60	310.55	314.60	328.90	334.75	330.00	314.50	294.17
19	319.55	320.25	312.90	306.70	308.65	310.60	314.80	329.40	334.70	329.60	313.80	293.90
20	319.60	320.20	312.50	306.75	308.70	310.65	315.00	329.80	334.70	329.10	313.10	293.65
21	319.60	320.15	312.20	306.80	308.70	310.70	315.30	330.20	334.75	328.60	312.30	293.50
22	319.65	320.10	311.90	306.80	308.70	310.80	315.60	330.50	334.70	328.10	311.60	293.45
23	319.70	320.00	311.60	306.80	308.75	310.90	316.00	330.80	334.70	327.70	310.90	293.40
24	319.75	319.60	311.30	306.85	308.80	311.00	316.40	331.10	334.65	327.40	310.10	293.35
25	319.80	319.20	311.40	306.90	308.85	311.10	316.80	331.40	334.60	326.80	309.30	293.30
26	319.85	318.80	311.20	306.95	308.90	311.20	317.20	331.70	334.60	326.60	308.40	293.25
27	319.90	318.60	310.90	307.00	308.95	311.30	317.60	331.90	334.60	326.40	307.60	293.15
28	319.95	318.40	310.60	307.10	309.00	311.40	318.00	332.20	334.55	326.10	306.80	293.00
29	320.00	318.20	310.20	307.20	-	311.45	318.50	332.50	334.50	325.80	305.80	292.80
30	320.05	317.90	309.80	307.30	-	311.50	319.00	332.80	334.40	325.50	304.60	292.60
31	320.10	-	309.40	307.40	-	311.60	-	333.10	-	325.10	304.00	-

Note.- Add 5,000 feet to obtain elevations above mean sea level.

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 1939.

Average discharge.- 12 years, 180 second-feet.

Extremes.- Maximum discharge recorded during year, 1,220 second-feet Aug. 15 (gage height, 4.54 feet); minimum not determined, occurred when gates at dam were closed.
1927-39: Maximum discharge, 2,150 second-feet May 26, 1928 (gage height, 5.67 feet, former site and datum); practically no flow for long periods during 1933-39 when gates in dam were closed.

Remarks.- Records for Oct. 1-15, June 5 to Sept. 30 are good; those for Nov. 8 to Jan. 11 are fair; others are poor. Discharge for Oct. 10-14, Oct. 16 to June 4, computed on basis of one discharge measurement, recorded gage heights, and records for Deadwood River near Lowman, records for other nearby stations, and records for Deadwood Reservoir. Discharge for June 4-12 computed on basis of once-daily staff-gage reading. Flow regulated since Nov. 2, 1930, by Deadwood Reservoir (capacity, 160,400 acre-feet). During late fall of 1936, the Bureau of Reclamation cut an intermountain canal to divert a small flow from a tributary of Johnson Creek to Deadwood River Basin for supplemental storage in Deadwood Reservoir. Measurement of June 7 indicated flow in diversion of 10.8 second-feet. Gage-height record furnished by Bureau of Reclamation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	660		450	435					3	464	574	875
2	600		450	435					3	555	614	900
3	580		450	435					3	614	654	900
4	446	3	450	435					3	555	696	805
5	272		455	430					42	371	634	675
6	262		350	430					78	133	614	654
7	270		280	430					115	16	738	574
8	270	60	280	325					142	66	828	464
9	180	150	280	250					154	398	850	614
10	6	150	280	250					202	634	850	696
11	3	150	280	95					202	675	900	594
12	3	150	280						211	675	925	517
13	3	150	380						204	517	1,020	464
14	3	150	450						202	385	1,100	239
15	3	150	585						204	447	1,180	216
16		150	675						216	464	1,120	239
17		150	680						218	55[illegible]	1,050	371
18		150	505						213	69[illegible]	1,050	301
19		150	390						218	78[illegible]	1,050	267
20		150	385						220	78[illegible]	1,050	241
21		150	385	3					220	78[illegible]	950	90
22		150	385						213	65[illegible]	900	93
23	3	370	385						207	55[illegible]	900	93
24		500	3[illegible]5						196	61[illegible]	900	95
25		500	95						187	46[illegible]	975	97
26		405	400						178	38[illegible]	1,020	105
27		350	400						171	43[illegible]	1,000	165
28		350	490						193	49[illegible]	1,120	196
29		410	550						241	51[illegible]	1,200	198
30		450	550						226	51[illegible]	975	198
31		-	480						-	53[illegible]	875	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,618	660	-	117	7,180
November	5,516	500	-	184	10,940
December	12,770	580	95	412	25,330
Calendar year 1938	82,366	1,320	-	226	163,400
January	4,010	435	-	129	7,950
February	84	-	-	3.0	167
March	93	-	-	3.0	184
April	90	-	-	3.0	179
May	93	-	-	3.0	184
June	4,885	241	3	163	9,690
July	15,738	782	16	508	31,220
August	28,312	1,200	574	913	56,160
September	11,936	900	90	398	23,670
Water year 1938-39	87,145	1,200	-	239	172,900

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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.

Drainage area.- 201 square miles.

Records available.- August 1921 to September 1939.

Average discharge.- 18 years, 351 second-feet.

Extremes.- Maximum discharge during year, 1,260 second-feet Aug. 28, 29 (gage height, 3.28 feet); minimum daily discharge, 40 second-feet (estimated) Jan. 22.
1921-39: Maximum discharge, 4,230 second-feet May 9, 1928 (gage height, 5.17 feet); minimum, 28 second-feet Nov. 4, 1935 (gage height, 0.83 foot).

Remarks.- Records good except those for periods of missing gage heights or ice effect, Oct. 10-15, Dec. 15-25, Jan. 17 to Mar. 12, which were computed on basis of one discharge measurement, weather records, and records for nearby stations and are fair. Flow regulated by Deadwood Reservoir (capacity, 160,400 acre-feet). Small amount of water diverted from tributary of Johnson Creek to Deadwood River Basin during year.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	746	84	524	493		50	265	703	261	536	620	906
2	660	77	530	493		53	282	681	244	647	667	915
3	674	82	530	493		53	305	696	232	688	658	933
4	593	117	524	493		53	334	696	228	717	724	864
5	354	84	524	499		50	310	681	252	600	710	754
6	324	60	474	487		51	265	633	282	370	667	710
7	339	84	374	487		53	244	537	310	102	739	681
8	329	91	364	418		52	248	548	334	103	848	542
9	324	214	334	301		52	248	542	374	366	864	613
10	125	214	329	301		52	232	548	380	696	873	724
11	75	210	334	251		55	232	542	380	754	906	654
12	80	210	324	61		56	240	524	380	754	942	606
13	70	218	369	50		64	228	505	374	660	1,000	633
14	70	218	499	52		57	225	499	364	524	1,120	354
15	75	218	600	54		57	257	499	364	530	1,190	269
16	84	232	750	53		58	269	505	401	580	1,150	257
17	77	225	750	55		66	287	493	391	626	1,070	418
18	70	221	600	55		82	324	475	380	746	1,070	401
19	68	218	450	55		102	380	458	380	831	1,060	334
20	67	221	450	55		124	418	412	380	856	1,060	334
21	67	207	450	45		142	464	380	369	856	995	180
22	67	210	450	40		164	505	359	354	777	924	139
23	66	347	450	45		186	518	334	334	660	924	136
24	66	561	450	50		207	493	314	319	667	924	136
25	66	548	130	55		225	435	296	301	613	977	136
26	66	493	449	55		225	401	282	291	481	1,030	139
27	64	407	469	60		218	418	282	282	499	1,030	174
28	66	407	536	60		225	493	282	278	561	1,120	240
29	67	452	613	55		218	593	291	324	593	1,260	244
30	84	524	613	55		225	732	296	407	593	1,080	244
31	84	-	574	50		232	-	282	-	593	906	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,967	746	64	192	11,840
November	7,434	561	60	248	14,750
December	14,807	750	130	478	29,370
Calendar year 1938	172,024	2,280	48	471	341,200
January	5,776	499	40	186	11,460
February	1,400	-	-	50	2,780
March	3,507	232	50	113	6,960
April	10,645	732	225	355	21,110
May	14,625	703	282	472	29,010
June	9,950	407	228	332	19,740
July	18,579	856	102	599	36,850
August	29,138	1,260	620	940	57,790
September	13,670	933	136	456	27,110
Water year 1938-39	135,498	1,260	-	371	268,800

Payette Lake at Lardo, Idaho

Location.- Staff gage at outlet of lake on North Fork of Payette River, lat. 44°55', long. 116°07', in sec. 8, T. 18 N., R. 3 E., at Lardo. Zero of gage is 4,982.24 feet above mean sea level (general adjustment of 1912).

Drainage area.- 131 square miles.

Records available.- August 1921 to September 1939 (fragmentary).

Extremes.- Maximum gage height observed during year, 8.40 feet June 17; minimum observed, 1.52 feet Sept. 29.

1921-39: 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 the natural range by a structure consisting of a series 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 the vicinity of Emmett. No diversion above station. Because of drawdown in outlet channel stages at the gage are slightly lower at times than stages of lake. Gage-height record furnished by U. S. Forest Service supplemented during period May 31 to Aug. 8 by records of Bureau of Reclamation.

Gage height, in feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	-	-	-	-	-	-	5.90	8.20	-	-	-
2	-	2.17	-	-	-	-	-	-	-	8.10	-	-
3	-	2.19	-	-	-	-	3.92	-	8.05	-	3.40	-
4	-	-	-	-	-	3.50	-	-	8.05	7.80	3.20	-
5	-	2.80	-	-	-	-	-	6.20	8.05	7.80	3.10	-
6	-	-	-	3.45	-	-	-	6.10	8.05	-	-	-
7	2.06	-	-	-	-	-	-	-	8.10	-	2.80	-
8	-	-	-	-	-	-	-	-	8.10	7.88	2.80	-
9	-	-	3.05	-	-	-	-	-	8.12	7.90	-	-
10	-	-	-	-	-	3.48	-	-	8.15	7.85	-	-
11	-	-	-	-	3.50	3.50	4.14	-	8.15	-	2.60	-
12	-	-	-	-	-	-	4.20	-	8.15	7.70	-	-
13	-	-	-	-	-	-	4.20	7.80	8.20	7.50	-	-
14	1.97	-	-	3.40	-	-	4.20	-	8.20	7.22	-	-
15	-	-	-	-	-	-	-	8.34	8.20	7.05	-	-
16	-	-	-	-	-	-	-	-	8.30	6.85	-	-
17	-	-	3.15	-	3.58	3.55	-	-	8.35	6.75	-	-
18	-	-	-	-	-	-	-	-	8.30	6.50	-	-
19	-	-	-	-	-	-	-	-	8.30	6.28	-	-
20	-	-	-	3.42	-	-	-	8.00	8.35	6.05	-	-
21	-	-	-	-	-	-	-	-	8.36	5.75	-	-
22	1.90	-	-	-	-	-	4.85	-	8.35	5.59	-	1.63
23	-	-	-	-	-	-	-	-	8.30	-	-	-
24	-	-	-	3.41	3.48	-	-	-	8.30	-	-	-
25	-	-	-	-	-	3.60	-	-	8.25	5.00	-	-
26	-	-	-	-	-	-	-	-	8.28	4.80	2.06	-
27	-	-	-	-	-	-	-	7.92	8.30	-	-	-
28	-	2.75	-	-	-	-	-	-	8.30	4.37	-	-
29	-	-	-	-	-	-	-	-	8.25	4.18	-	1.52
30	-	-	2.40	3.50	-	-	-	-	8.25	3.97	-	-
31	-	-	-	-	-	-	-	8.30	-	3.75	-	-

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.- 131 square miles.

Records available.- September 1908 to June 1917, May 1919 to September 1939.

Average discharge.- 28 years (1908-16, 1919-39), 342 second-feet.

Extremes.- Maximum discharge during year, 2,100 second-feet May 5 (gage height, 5.59 feet); practically no flow Oct. 22 to Nov. 11.

1908-17, 1919-39: Maximum discharge, 4,260 second-feet June 10, 1933; maximum gage height, 7.5 feet June 5, 1909, June 10, 1933; minimum discharge, 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 Apr. 28-30, which were computed on basis of probable gate changes and are fair. Flow partly regulated by storage in Payette Lake. No diversions above station. Gage-height record collected in cooperation with U. S. Forest Service.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

0.7	0.2	1.7	26	3.2	362	4.7	1,290
.9	.9	2.0	52	3.5	505	5.0	1,550
1.1	3.2	2.3	96	3.8	665	5.3	1,820
1.3	8.0	2.6	159	4.1	850	5.6	2,100
1.5	15.4	2.9	246	4.4	1,055		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	94	0	3	49	*54	*72	162	1,550	985	322	426	54
2	93	0	3	47	*56	*73	175	1,640	882	460	384	50
3	102	0	3	47	*57	*74	197	1,820	654	480	354	47
4	96	0	2	48	*59	75	224	2,000	510	480	341	43
5	96	0	2	53	*60	*74	233	2,050	421	450	316	40
6	93	0	2	54	*62	*72	246	2,000	345	284	297	38
7	89	0	2	54	*64	*71	250	1,860	349	24	270	32
8	84	0	2	56	*65	*70	253	1,780	354	46	253	30
9	81	0	3	56	*67	*68	250	1,680	354	214	236	27
10	76	0	3	56	*68	67	256	1,050	366	316	217	25
11	76	0	4	56	70	69	260	159	371	417	200	25
12	78	1	8	56	73	*72	267	202	349	441	188	26
13	75	1	6	*56	75	*75	274	426	345	515	188	31
14	72	2	7	56	78	*78	274	818	324	550	185	35
15	72	5	8	*56	*83	*80	278	1,500	320	555	175	35
16	73	5	9	*56	*88	*83	285	1,860	371	550	164	33
17	70	5	10	*56	93	86	300	1,910	436	550	138	31
18	63	5	11	*57	*89	88	324	1,820	431	540	17	30
19	61	5	13	*57	*86	*90	366	1,780	445	566	118	28
20	60	4	14	57	*82	*92	398	1,640	465	577	132	27
21	29	4	16	*56	*78	*94	412	1,500	465	555	121	25
22	0	4	18	*54	*74	*96	515	1,370	402	594	113	25
23	0	5	21	*52	*71	*98	632	1,060	371	577	107	23
24	0	3	24	51	67	*100	707	773	312	555	102	23
25	0	3	25	49	*68	102	725	500	211	566	96	21
26	0	3	27	48	*69	107	719	530	194	599	91	21
27	0	3	32	50	*70	109	725	594	194	545	84	19
28	0	3	39	51	*71	117	900	725	164	540	76	18
29	0	3	44	52	-	130	1,370	915	132	535	72	17
30	0	3	50	51	-	143	1,460	985	128	510	66	15
31	0	-	50	*53	-	152	-	985	-	475	61	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,633	102	0	52.7	3,240
November	67	5	0	2.2	133
December	461	50	2	14.9	914
Calendar year 1938	177,672	3,330	0	487	352,400
January	1,650	57	47	53.2	3,270
February	1,997	93	54	71.3	3,960
March	2,777	152	67	89.6	5,510
April	13,437	1,460	162	448	26,650
May	39,482	2,050	159	1,274	78,310
June	11,650	985	128	388	23,110
July	14,388	599	24	464	28,540
August	5,588	426	17	180	11,080
September	894	54	15	29.8	1,770
Water year 1938-39	94,024	2,050	0	258	186,500

*Gage height missing; discharge interpolated.

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 1939 (irrigation seasons only).

Extremes.- Maximum discharge during year, 961 second-feet May 3 (gage height, 4.66 feet); practically no flow at times during period Sept. 20-30 because of operation of power plant.

1926-39: Maximum discharge observed, 2,520 second-feet June 9, 1933 (gage height about 7.9 feet, present datum, from highwater mark), from rating curve extended above 1,100 second-feet; practically no flow at times in October and November 1937, and September, 1939, because of operation of power plant.

Remarks.- Records good except those for period of backwater effect from Lake Fork Reservoir May 29 to July 2, which were computed on basis of three discharge measurements (results of which are shown for June 4, 6, 30), gage-height records, and records for Lake Fork Reservoir and nearby stations in basin of South Fork of Salmon River and are fair. Diurnal fluctuations at low stages caused by operation of power plant of McCall Light & Power Co. and small reservoirs above station. No diversions above station for irrigation. Gage-height record furnished by Lake Irrigation District.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	36					137	640	350	105	28	10
2	19	32					145	686	300	95	27	10
3	23	31					167	783	275	88	26	10
4	22	34					200	750	247	109	23	11
5	23	28					172	670	220	130	23	11
6	23	23					145	567	195	115	23	10
7	23	24					131	511		84	23	12
8	22	28					132	525		77	23	11
9	21	28					140	567		72	23	10
10	21	26					130	582		66	23	11
11	21	-					130	567		66	23	11
12	25	-					128	539		62	23	12
13	26	-					119	539	180	58	21	23
14	24	-					116	596		54	21	23
15	25	-					130	655		48	21	23
16	26	-					137	670		54	21	20
17	26	-					157	625		52	21	19
18	24	-					200	582		52	21	19
19	24	-					244	553		48	20	16
20	23	-					289	418		48	19	9
21	23	-					368	380		44	19	8
22	23	-					431	356		42	19	7
23	23	-					380	332		38	18	7
24	23	-					368	320		37	18	7
25	23	-					291	320	140	35	18	7
26	22	-					263	356		34	17	7
27	22	-					332	418		33	17	6
28	22	-					511	498		31	16	6
29	22	-					718	510		30	16	6
30	43	-					718	520	120	29	10	6
31	38	-					-	400	-	28	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	744	43	19	24.0	1,480
November 1-10	290	36	23	29.0	575
December	-	-	-	-	-
Calendar year	-	-	-	-	-
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	7,529	718	116	251	14,930
May	16,435	783	320	537	32,600
June	5,487	350	120	183	10,880
July	1,862	130	28	60.1	3,690
August	631	28	10	20.4	1,250
September	348	23	6	11.6	690
Water year	-	-	-	-	-

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. Zero of gage is at mean sea level (levels by Lake Irrigation District).

Records available.- April 1926 to September 1939.

Extremes.- Maximum contents during year, 19,010 acre-feet June 5, 6 (gage height, 5,118.3 feet); minimum not determined.
1926-39: Maximum contents, 19,010 acre-feet June 21, 1937, June 5, 6, 1939 (gage height, 5,118.30 feet); probably no storage during fall and winter.

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 about 6,800 acres of land in vicinity of Norwood. Figures given herein represent usable contents. Gage read once daily. Gage-height record and capacity table furnished by Lake Irrigation District.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Furnished by Lake Irrigation District)

5,101	0	5,105	2,105	5,109	5,606	5,113	10,818	5,117	16,940
5,102	481	5,106	2,807	5,110	6,769	5,114	12,318	5,118	18,630
5,103	969	5,107	3,615	5,111	8,028	5,115	13,846		
5,104	1,497	5,108	4,547	5,112	9,379	5,116	15,386		

Contents, in acre-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,658	1,280					-	9,810	18,560	17,730	10,100	1,684
2	-	1,110					-	-	18,520	17,650	9,839	1,527
3	2,560	-					-	12,930	18,520	17,300	9,594	1,396
4	2,532	-					-	14,150	18,850	17,020	9,311	1,290
5	-	-					-	-	19,010	16,940	9,040	1,163
6	-	-					-	14,620	19,010	16,910	8,703	1,057
7	-	-					-	14,460	18,850	16,810	8,366	995
8	2,462	-					-	14,460	18,850	16,600	8,055	945
9	2,448	-					-	15,110	18,780	16,390	7,777	896
10	-	-					-	15,540	18,650	16,240	7,525	867
11	-	-					-	15,850	18,570	16,010	7,210	838
12	-	-					-	15,850	18,560	15,770	6,895	809
13	-	-					-	15,850	18,440	15,540	6,652	800
14	-	-					-	16,470	18,400	15,310	6,302	838
15	2,378	-					-	16,910	18,320	15,080	5,954	867
16	2,364	-					-	17,220	18,360	14,830	5,606	877
17	-	-					-	17,290	18,430	14,540	5,288	887
18	-	-					-	17,250	18,430	14,310	5,023	877
19	-	-					-	17,290	18,430	14,030	4,758	877
20	-	-					-	16,910	18,490	13,770	4,500	867
21	-	-					-	16,780	18,560	13,420	4,192	858
22	2,062	-					-	17,220	18,600	13,080	3,940	838
23	2,026	-					-	17,290	18,620	12,850	3,689	819
24	-	-					-	17,320	18,640	12,550	3,453	-
25	-	-					2,967	17,350	18,620	12,240	3,210	-
26	-	-					-	-	18,560	11,940	3,008	-
27	-	-					-	17,570	18,440	11,640	2,715	-
28	-	-					-	17,920	18,320	11,340	2,525	-
29	1,216	-					7,021	18,330	18,160	11,040	2,266	-
30	-	-						18,810	17,970	10,750	2,074	-
31		-					-	18,850	-	10,410	1,928	-

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 1939.

Extremes.- Maximum discharge observed during water year 1937-38, 137 second-feet Aug. 7-15 (gage height, 4.70 feet); practically no flow during nonirrigation season.

Maximum discharge observed during water year 1938-39, 149 second-feet June 16 (gage height, 4.74 feet); practically no flow during nonirrigation season.

1926-39: Maximum discharge observed, 149 second-feet June 16, 1939; maximum gage height, 4.93 feet July 12-17, 1937; no flow during nonirrigation seasons.

Remarks.- Records good. Discharge for Oct. 12-14, 16-19, 1937, computed on basis of engineer's visit on Oct. 15, 1937, and information furnished by watermaster; that for May 15, 1939, computed on basis of information furnished by field engineer. Discharge interpolated Aug. 21, Sept. 23, 30, Oct. 10-14, 17-21, 24-28, 1938, Sept. 24-30, 1939. 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 SW¼ sec. 13, T. 18 N., R. 3 E., for irrigation of 6,800 acres of land near McCall and Norwood, in the Lake Irrigation District project. Gage-height record furnished by watermaster for Lake Irrigation District.

Revisions.- Revised figures of discharge for the water year 1937-38, superseding those published in Water-Supply Paper 863, are given herein.

Discharge, in second-feet, 1937-39

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2								0	127	124	69
2	0								0	116	124	63
3	0								0	97	127	60
4	0								0	48	133	58
5	0								0	20	135	58
6	0								0	20	135	57
7	0								0	20	136	56
8	0								0	20	137	56
9	0								0	20	137	53
10	0								0	20	137	48
11	0								0	39	137	47
12	3								0	59	137	42
13	6								6	74	137	33
14	6								33	89	137	29
15	6								50	103	133	30
16	6								60	117	126	29
17	6								68	121	124	29
18	6								74	121	121	31
19	3								75	122	117	34
20	0								79	128	112	34
21	0								86	129	112	33
22	0								89	132	111	33
23	0								101	132	110	33
24	0								112	132	103	33
25	0								118	132	94	33
26	0								122	134	84	33
27	0								124	134	73	33
28	0								125	130	69	33
29	0								129	129	69	33
30	0								131	126	72	33
31	0								-	124	74	-

Discharge, in second-feet, of Lake Irrigation District canal near McCall, Idaho, 1937-39--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	3						0	80	130	110	63
2	33	2						0	93	133	105	60
3	29	0						0	89	136	106	60
4	13	0						0	109	134	108	60
5	6	0						0	119	129	110	46
6	6	0						0	130	115	108	25
7	6	0						0	135	107	104	17
8	6	0						0	141	97	100	17
9	6	0						0	142	89	98	17
10	6	0						0	145	95	103	17
11	6	0						0	146	100	110	17
12	6	0						0	146	100	113	17
13	6	0						0	146	98	113	17
14	6	0						0	146	96	111	14
15	6	0						2	146	95	108	8
16	6	0						2	146	97	106	6
17	6	0						4	141	99	103	6
18	6	0						6	135	105	99	6
19	6	0						10	127	113	96	6
20	6	0						13	101	115	91	6
21	6	0						18	81	118	87	6
22	6	0						23	82	120	86	6
23	6	0						26	84	120	83	6
24	6	0						27	89	117	81	6
25	6	0						27	96	115	82	6
26	6	0						28	105	116	82	6
27	6	0						30	110	117	82	6
28	6	0						33	114	119	81	6
29	6	0						55	117	120	81	6
30	6	0						73	123	117	81	6
31	5	-						81	-	112	72	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1937	44	6	0	1.4	87
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1937	10,245	146	0	28.1	20,320
January 1938	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	1,582	131	0	52.7	3,140
July	2,919	134	20	94.2	5,790
August	3,577	137	69	115	7,090
September	1,246	69	29	41.5	2,470
Water year 1937-38	9,368	137	0	25.7	18,580
October 1938	269	33	5	8.7	534
November	5	3	0	.2	9.9
December	0	0	0	0	0
Calendar year 1938	9,598	137	0	26.3	19,030
January 1939	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	458	81	0	14.8	908
June	3,564	146	80	119	7,070
July	3,474	136	89	112	6,890
August	3,000	113	72	96.8	5,950
September	545	65	6	18.2	1,080
Water year 1938-39	11,315	146	0	31.0	22,440

Weiser River at Tamarack, Idaho

Location.- Staff gage, 44°57', long. 116°23', sec. 30, T. 19 N., R. 1 E., 0.4 miles southeast of Tamarack.

Drainage area.- 36.5 square miles.

Records available.- September 1936 to September 1939.

Extremes.- Maximum discharge observed during year, 272 second-feet Apr. 4 (gage height, 3.80 feet); minimum discharge, 4.0 second-feet Oct. 7; minimum gage height, 0.70 foot Sept. 19-30.

1936-39: Maximum discharge observed, 715 second-feet Mar. 16, 1938 (gage height, 5.57 feet); minimum observed, 1.7 second-feet July 30, 1938, while water was being stored in millpond (gage height, 0.52 foot).

Remarks.- Records good except those for periods of ice effect, Nov. 26-29, Dec. 11-14, 20-23, 26-29, Jan. 7-9, 15-17, Jan. 20 to Mar. 10, and period of backwater from beaver dams, Sept. 6-17, which were computed on basis of four discharge measurements, engineer's and observer's notes, weather records, and records for other stations in Weiser River Basin, and are fair. Gage read twice daily. No diversion or regulation. Small flow from Boulder Creek, in Salmon River Basin, enters Weiser River through transmountain diversion above station during late irrigation season.

Rating table, period Oct. 3 to Sept. 30 except periods of ice effect (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 3 to Mar. 10)

0.6	2.8	1.2	21	1.8	53.5	2.6	120	3.5	230
.8	6.3	1.4	30.5	2.0	67	2.9	154	3.8	272
1.0	12.5	1.6	41.5	2.3	91	3.2	191		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.6	8.2	6.6	6.1		6.0	204	154	14	7.4	5.3	5.5
2	5.4	11	7.1	5.7		6.0	230	136	13	7.4	5.5	5.3
3	32	8.5	7.6	6.3		6.2	244	126	12	6.8	5.5	6.3
4	14	8.5	6.8	7.1		5.5	272	115	12	7.6	5.1	5.7
5	7.1	7.1	6.3	7.1		5.0	230	100	12	12	5.1	5.5
6	7.1	5.7	6.1	6.6		5.5	191	86	12	10	5.1	5.5
7	4.2	4.9	6.3	6.0		5.5	166	74	11	9.0	4.9	5.5
8	6.1	6.1	6.6	5.0		6.0	166	67	10	9.0	4.7	5.5
9	5.9	6.3	7.4	5.0		6.0	166	60	12	8.7	5.1	5.5
10	6.1	5.7	5.9	5.3	5.0	6.0	178	54	12	8.7	5.1	5.5
11	6.8	6.1	5.0	5.3		7.4	178	48	11	8.5	5.1	5.5
12	7.6	4.9	4.5	5.3		8.5	191	44	9.0	7.9	5.7	5.5
13	7.1	6.6	4.5	5.3		10	191	39	9.0	7.9	5.7	8.0
14	6.6	6.3	5.0	5.5		9.4	166	36	8.5	7.9	5.7	10
15	7.6	6.6	5.3	6.0		8.5	166	34	8.5	7.4	5.7	8.0
16	7.6	7.9	5.3	6.0		8.7	166	33	13	7.1	5.7	5.5
17	7.1	12	5.3	6.0		8.5	166	33	11	6.8	5.1	5.0
18	6.6	8.2	5.3	5.7	5.2	10	178	28	11	6.3	5.5	4.9
19	5.7	6.1	5.1	5.3		12	178	28	12	6.3	5.5	4.3
20	6.1	5.7	5.5	5.0		16	191	26	14	6.3	5.5	4.3
21	6.6	5.3	5.5	5.0		21	191	25	11	6.3	5.3	4.3
22	6.6	4.9	6.0	5.0		30	217	24	9.7	5.9	5.5	4.3
23	6.1	4.7	6.0	5.0		42	204	26	9.0	5.9	5.5	4.3
24	4.3	5.3	6.1	5.0	5.5	57	204	22	8.5	5.7	5.5	4.3
25	7.6	4.3	6.1	5.5		70	178	20	7.9	5.5	5.7	4.3
26	7.6	4.5	5.0	5.5		91	148	20	7.6	5.5	5.9	4.3
27	6.1	4.5	5.0	5.5		126	142	19	8.5	5.5	5.7	4.3
28	6.1	5.0	5.5	5.5		148	148	17	7.6	5.5	5.5	4.3
29	6.1	5.5	5.5	6.0	-	166	166	17	7.9	5.1	5.3	4.3
30	14	6.1	5.3	6.0	-	166	160	17	7.6	5.1	5.1	4.3
31	6.8	-	5.7	5.5	-	166	-	15	-	5.1	5.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	240.2	32	4.2	7.75	0.212	0.24	476
November	192.5	11	4.3	6.42	.176	.20	382
December	179.2	7.6	4.5	5.78	.158	.18	355
Calendar year 1938	23,082.1	610	4.2	63.2	1.73	23.48	45,780
January	175.1	7.1	5.0	5.65	.155	.18	347
February	145.2	-	-	5.19	.142	.15	288
March	1,239.7	166	5.0	40.0	1.10	1.27	2,460
April	5,576	272	142	186	5.10	5.69	11,060
May	1,543	154	15	49.8	1.36	1.57	3,060
June	312.3	14	7.6	10.4	.285	.32	619
July	220.1	12	5.1	7.10	.195	.22	437
August	167.1	5.9	4.7	5.39	.148	.17	331
September	159.8	10	4.3	5.33	.146	.16	317
Water year 1939	10,150.2	272	4.2	27.8	.762	10.36	20,130

Weiser River near Starkey, Idaho

Location.- Staff gage, 44°51', long. 116°23', in SE¼ sec. 31, T. 18 N., R. 1 E., 1,000 feet upstream from East Fork of Weiser River and 3½ miles east of Starkey.

Drainage area.- 66.6 square miles.

Records available.- April 1937 to April 1939 (discontinued).

Extremes.- Maximum discharge observed during period, 522 second-feet Apr. 4 (gage height, 3.10 feet); minimum observed, 8.5 second-feet Jan. 20 (gage height, 0.50 foot).
1937-39: Maximum discharge observed, 1,350 second-feet Apr. 18, 1938 (gage height, 4.40 feet); minimum discharge, 5.6 second-feet Dec. 8, 1937 (gage height, 0.38 foot).

Remarks.- Records good except those for Nov. 10 to March 10, which are fair. Discharge for periods of ice effect, Nov. 12, 13, 21-28, Dec. 12-17, 26, Jan. 6-8, 21-24, Jan. 29 to Mar. 9, and that for day of uncertain gage height, Jan. 4, computed on basis of one discharge measurement, weather records, and records for other stations in Weiser River Basin. Gage read twice daily. No diversion or regulation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	24	16	16		15	400					-
2	13	20	17	16		14	422					-
3	31	21	19	18		14	445					-
4	26	24	18	16		14	522					-
5	16	18	17	18		13	445					-
6	16	13	17	15		14	342					-
7	16	16	17	13		15	288					-
8	15	16	18	13		15	288					-
9	14	17	20	15		15	288					-
10	14	16	16	16		16	288					-
11	15	16	14	16		16	288					-
12	16	15	12	16		24	306					-
13	15	16	12	16		26	272					-
14	15	18	13	14		26	256					-
15	20	19	15	16		26	272					-
16	18	20	16	15	*13	26	288					-
17	15	28	16	15		28	288					-
18	13	21	16	15		33	306					-
19	13	14	16	15		43	323					-
20	14	12	16	12		52	342					-
21	15	11	16	11		67	360					-
22	15	10	16	11		110	380					-
23	14	10	16	12		135	380					-
24	15	13	16	13		164	360					-
25	14	12	16	15		212	-					-
26	14	11	13	15		241	-					10
27	14	11	16	15		256	-					10
28	15	12	16	15		272	-					-
29	15	14	16	15		323	-					-
30	21	16	16	14		323	-					-
31	20	-	16	13		342	-					-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	500	31	13	16.1	0.242	0.28	992
November	484	28	10	16.1	.242	.27	960
December	494	20	11	15.9	.239	.28	980
Calendar year 1938	43,653	1,280	10	120	1.80	24.38	86,560
January	455	18	11	14.7	.221	.25	902
February	392	-	-	14.0	.210	.22	778
March	2,890	342	13	93.2	1.40	1.61	5,730
April 1-24	8,149	522	256	340	5.11	4.56	16,160
May	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-
The period	-	-	-	-	-	-	26,500

*Discharge measurement.

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 to September 1939.

Extremes.- Maximum discharge observed during period, 590 second-feet Apr. 4 (gage height, 3.61 feet); minimum, 8.0 second-feet Aug. 31 (gage height, 1.04 feet).
1920, 1939: Maximum discharge, that of Apr. 4, 1939; minimum, that of Aug. 31, 1939.

Remarks.- Records good. Discharge for Mar. 18-26 computed on basis of once-daily staff gage readings; that for Mar. 27 to Apr. 20 computed on basis of twice-daily readings. Several small diversions above station.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Mar. 18-23)

1.0	7.0	2.2	131	3.4	495
1.3	16.5	2.5	196	3.7	630
1.6	40	2.8	275		
1.9	79	3.1	370		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	482	418	62	17	11	10
2						-	486	386	58	17	11	11
3						-	540	370	55	16	11	11
4						-	585	352	55	20	12	11
5						-	504	317	54	27	11	11
6						-	414	269	54	27	11	11
7						-	356	237	49	22	11	11
8						-	335	211	42	20	11	11
9						-	356	201	37	18	11	11
10						-	338	189	35	17	11	10
11						-	349	178	32	16	11	11
12						-	382	166	30	16	12	12
13						-	329	155	27	14	11	14
14						-	311	149	27	15	11	15
15						-	329	145	30	14	10	16
16						-	329	145	42	13	10	14
17						-	335	135	43	14	10	13
18						48	352	129	34	12	10	12
19						67	374	131	34	12	10	12
20						90	398	114	35	12	10	12
21						120	434	110	31	12	10	12
22						166	468	107	27	12	10	12
23						221	446	102	26	11	10	12
24						290	426	95	25	11	10	12
25						311	386	89	22	11	11	12
26						335	349	87	21	11	11	11
27						390	335	82	21	11	10	11
28						406	363	73	20	11	10	12
29						426	426	75	19	12	10	12
30						414	450	76	18	11	10	12
31						402	-	69	-	12	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 18-31	3,686	426	48	263	7,310
April	11,967	585	311	399	23,740
May	5,362	418	69	173	10,640
June	1,065	62	18	35.5	2,110
July	464	27	11	15.0	920
August	328	12	10	10.6	651
September	357	16	10	11.9	708
The period	-	-	-	-	46,080

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 of Weiser River, and 3¾ miles southwest of Council. Prior to Apr. 22, staff gage, which was moved 370 feet upstream Oct. 28 and datum lowered 0.58 foot.

Drainage area.- 390 square miles.

Records available.- April 1937 to September 1939.

Extremes.- Maximum discharge during year, 2,550 second-feet Mar. 27 (gage height, 6.66 feet); minimum, 27 second-feet Sept. 28 (gage height, 1.00 foot).

1937-39: Maximum discharge observed, 6,700 second-feet Mar. 16 or 17, 1938 (gage height, 7.6 feet from floodmark, former site and datum), from rating curve extended above 3,500 second-feet; minimum, 26 second-feet Oct. 30, 1937 (gage height, 0.40 foot, former site and datum).

Remarks.- Records good except those for periods of ice effect, Nov. 23, 25-28, Dec. 12 to Mar. 4, which were computed on basis of two discharge measurements, weather records, and records for other stations in Weiser River Basin and are fair. Gage read twice daily Oct. 1 to Apr. 21. Flow regulated by Lost Valley Reservoir. Many diversions above station.

Rating tables, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1-27		Oct. 28 to Sept. 30					
0.7	65.5	1.0	27	2.8	368	4.8	1,100
.8	83.5	1.3	51	3.1	463	5.2	1,310
.9	104	1.6	90	3.4	563	5.6	1,570
1.0	126	1.9	140	3.7	667	6.0	1,885
		2.2	204	4.0	776	6.4	2,270
		2.5	281	4.4	930	6.7	2,610

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	138	89				1,540	1,060	162	50	61	45
2	73	126	105			80	1,540	930	148	57	58	46
3	140	192	150				1,540	910	136	56	58	46
4	115	173	122				1,540	890	129	63	59	46
5	100	138	114			80	1,340	851	127	76	61	46
6	96	124	122			86	1,100	776	120	84	59	46
7	94	96	108			89	930	721	120	73	61	46
8	90	87	119			89	870	667	107	71	58	45
9	90	83	122			90	870	614	105	79	57	45
10	92	98	112			93	813	563	99	75	57	44
11	94	96	90			104	851	512	96	71	55	42
12	98	68				249	910	480	86	70	56	46
13	92	84				597	832	463	77	55	56	53
14	88	92				390	776	431	66	50	56	56
15	113	99				359	813	425	62	51	53	53
16	113	115				393	776	418	92	48	53	52
17	100	129				447	776	425	107	52	51	50
18	94	107				632	776	396	102	56	51	48
19	96	96				930	832	387	110	66	51	46
20	92	98				1,010	832	359	108	67	53	44
21	96	70	80			1,200	930	332	102	67	53	45
22	92	56				1,500	970	326	90	68	51	45
23	92	55				1,720	950	306	80	67	53	45
24	90	72				1,980	930	284	73	66	49	45
25	90	70				2,120	870	254	67	64	45	41
26	88	65				2,220	813	236	59	64	44	34
27	86	65				2,380	794	223	52	63	44	34
28	90	70				1,980	832	206	42	63	44	32
29	96	80			-	1,640	990	199	37	64	43	32
30	126	87			-	1,570	1,080	188	39	61	43	33
31	126	-			-	1,440	-	179	-	62	43	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,011	126	69	97.1	5,970
November	2,929	192	55	97.6	5,810
December	2,853	150	-	92.0	5,660
Calendar year 1938	225,961	5,700	29	619	448,100
January	2,480	-	-	80.0	4,920
February	2,100	-	-	75.0	4,170
March	25,708	2,38	-	829	50,990
April	29,416	1,540	776	981	58,350
May	15,011	1,060	179	484	29,770
June	2,800	162	37	93.3	5,550
July	1,979	84	48	63.8	3,930
August	1,636	61	43	52.8	3,240
September	1,331	56	32	44.4	2,640
Water year 1938-39	91,254	2,380	32	250	181,000

Weiser River near Cambridge, Idaho

Location.- Water-stage recorder, lat. 44°35', long. 116°38', in NW¼ sec. 1, T. 14 N., R. 3 W., 2¼ miles northeast of Cambridge.

Drainage area.- 605 square miles.

Records available. - March to September 1939.

Extremes.- Maximum discharge during period, 3,320 second-feet Mar. 27 (gage height, 7.12 feet); minimum, 36 second-feet Sept. 29 (gage height, 1.12 feet).

Remarks.- Records excellent except those for Mar. 10-15 (computed on basis of once-daily staff-gage readings), those for Mar. 16 to Apr. 22 (computed on basis of twice-daily staff-gage readings), and those for June 26 to Aug. 8, all of which are good. Flow regulated by Lost Valley Reservoir. Diversions above station for irrigation.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

1.1	34.5	3.2	485	5.6	1,915
1.4	64.5	3.6	655	6.0	2,235
1.7	105	4.0	865	6.4	2,595
2.0	155	4.4	1,100	6.8	2,995
2.4	241	4.8	1,355	7.1	3,320
2.8	351	5.2	1,625		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	1,880	1,660	333	61	55	40
2						-	1,840	1,560	299	59	54	42
3						-	1,840	1,560	274	61	53	43
4						-	1,920	1,560	258	68	52	43
5						-	1,730	1,480	246	93	52	42
6						-	1,480	1,360	234	116	52	43
7						-	1,290	1,220	227	104	52	42
8						-	1,220	1,160	210	92	52	43
9						-	1,220	1,100	199	90	50	42
10						155	1,160	1,040	191	86	50	41
11						174	1,130	950	182	78	49	40
12						219	1,220	920	170	72	49	41
13						1,220	1,480	865	159	66	49	47
14						865	1,070	810	144	55	49	55
15						655	1,070	810	134	51	48	53
16						592	1,070	810	155	49	47	51
17						920	1,100	782	182	50	46	49
18						1,220	1,130	730	176	51	45	48
19						1,560	1,190	705	176	55	45	47
20						1,880	1,260	655	182	63	46	46
21						1,920	1,360	583	168	63	47	45
22						2,240	1,450	583	153	64	46	47
23						2,500	1,420	533	139	64	47	47
24						2,690	1,390	489	129	63	47	47
25						2,890	1,290	450	120	62	43	47
26						2,790	1,190	426	111	61	41	42
27						3,210	1,190	415	102	59	41	39
28						2,690	1,290	395	89	60	40	38
29						2,190	1,560	398	74	58	40	38
30						1,990	1,700	392	64	58	40	38
31						1,840	-	366	-	56	40	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 10-31	36,410	3,210	155	1,655	72,220
April	41,140	1,920	1,070	1,371	81,600
May	26,767	1,660	366	863	53,090
June	5,280	333	64	176	10,470
July	2,088	116	49	67.4	4,140
August	1,467	55	40	47.3	2,910
September	1,326	55	38	44.2	2,630
The period	-	-	-	-	227,100

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 1939.

Average discharge.- 18 years (1921-39), 788 second-feet.

Extremes.- Maximum discharge during year, 5,980 second-feet Mar. 23 (gage height, 6.31 feet); minimum, 20 second-feet Aug. 11 (gage height, 0.81 foot).

1920-39: Maximum discharge, 14,000 second-feet Mar. 19, 1932 (gage height, 10.8 feet, from floodmarks), from rating curve extended above 9,000 second-feet; minimum, 5 second-feet (estimated) Aug. 11 to Sept. 10, 1931.

Remarks.- Records good except those for periods of ice effect, Nov. 23 to Dec. 4, Dec. 13 to Mar. 9 (computed on basis of three discharge measurements, weather records, and records for stations on nearby streams), and those for period of doubtful gage heights, June 30 to July 2 (computed on basis of records for stations on nearby streams), which are fair. Discharge for July 16 computed on basis of once-daily staff-gage reading; that for July 15, 17-20 interpolated. Several small reservoirs and many diversions above station for irrigation

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.8	19	2.6	805	4.5	2,930
1.1	66	2.9	1,040	4.9	3,540
1.4	150	3.2	1,320	5.3	4,190
1.7	266	3.5	1,630	5.7	4,870
2.0	410	3.8	1,980	6.1	5,600
2.3	590	4.1	2,360	6.5	6,380

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	245	275				2,860	2,360	532	70	28	33
2	96	253	300				2,780	2,300	483	60	29	33
3	112	280	350				2,710	2,230	438	60	29	28
4	212	390	325				2,710	2,300	416	65	29	26
5	204	384	284			250	2,570	2,160	410	76	29	29
6	182	321	284				2,160	1,920	395	118	29	28
7	182	284	288				1,860	1,740	379	124	28	26
8	182	258	293				1,680	1,620	359	104	28	25
9	171	245	316				1,630	1,550	354	98	26	33
10	171	262	330			275	1,590	1,480	345	107	24	33
11	168	275	302			293	1,530	1,380	321	104	22	32
12	178	249	220			400	1,550	1,300	311	90	24	35
13	201	216				2,100	1,600	1,240	293	88	26	39
14	189	220				2,100	1,440	1,200	266	85	25	47
15	189	232				1,550	1,390	1,190	241	76	25	64
16	212	249				1,360	1,380	1,170	253	66	25	76
17	224	306				2,040	1,390	1,180	345	60	29	73
18	208	311				3,000	1,430	1,110	354	58	28	71
19	197	270				3,860	1,510	1,030	345	49	28	66
20	193	245				4,700	1,610	992	340	44	26	64
21	193	237				5,050	1,740	888	311	38	26	60
22	189	193	225			5,410	1,860	872	275	38	28	56
23	185	180				5,600	1,920	805	212	42	28	56
24	185	200				5,600	1,920	738	178	41	29	56
25	185	190				5,600	1,800	681	157	42	32	55
26	185	180				5,050	1,630	646	140	42	32	55
27	182	190				5,230	1,580	611	121	42	32	53
28	182	210				4,530	1,680	611	104	38	32	45
29	182	230				3,700	2,040	618	93	30	32	41
30	189	250				3,160	2,430	611	80	29	33	36
31	220	-				2,860	-	584	-	28	33	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,644	224	96	182	11,190
November	7,555	390	180	252	14,990
December	7,842	350	-	253	15,550
Calendar year 1938	513,965	9,000	33	1,408	1,019,000
January	6,975	-	-	225	13,830
February	5,600	-	-	200	11,100
March	75,718	5,600	-	2,443	150,200
April	55,980	2,860	1,380	1,866	111,000
May	39,117	2,360	584	1,262	77,590
June	8,851	532	80	295	17,560
July	1,999	124	28	64.5	3,960
August	874	33	22	28.2	1,730
September	1,376	76	25	45.9	2,730
Water year 1938-39	217,531	5,600	22	596	431,400

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. Zero of gage is 6,224.1 feet above mean sea level.

Drainage area.- 2.0 square miles.

Records available.- September 1932 to November 1934, April to October 1935, September 1936 to September 1939.

Extremes.- Maximum discharge recorded during year, 44 second-feet May 30 (gage height, 2.85 feet); probably no flow at times during winter.

1933-35, 1937-39: Maximum discharge recorded, 77 second-feet June 16, 1938; maximum gage height recorded, 4.11 feet June 9, 1933 (ice-affected); no flow Apr. 8, 1937 (observed by engineer), probably no flow at times during winters of 1937-38 and 1938-39.

Remarks.- Records good. Discharge for Oct. 22-26 interpolated. No diversion or regulation above station.

Rating tables, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 2

1.20	0.6	1.50	4.0
1.30	1.3	1.60	5.6
1.40	2.5		

May 4 to Sept. 30

1.10	0.4	1.90	12.9	2.70	37.3
1.30	1.3	2.10	18.2	2.90	46.0
1.50	4.1	2.30	23.9		
1.70	8.1	2.50	30.1		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	1.2						-	24	6.4	1.5	0.7
2	1.3	1.0						-	22	5.8	1.3	.8
3	4.2	-						-	22	5.4	1.2	.8
4	1.4	-						20	20	5.6	1.1	.7
5	1.2	-						19	18	6.2	1.1	.7
6	1.1	-						18	16	5.2	1.1	.8
7	1.1	-						17	16	4.9	1.0	.8
8	1.0	-						18	15	4.3	1.0	.8
9	1.0	-						20	14	3.9	1.0	.8
10	1.0	-						21	14	3.5	1.0	.8
11	1.4	-						22	14	3.3	1.0	.8
12	1.2	-						22	14	3.1	1.1	.8
13	1.1	-						24	15	2.8	1.1	1.1
14	1.1	-						26	14	2.7	1.1	.9
15	1.1	-						30	14	2.5	1.1	.9
16	1.1	-						31	13	2.5	1.1	.8
17	1.0	-						30	12	2.5	1.1	.8
18	1.2	-						30	11	2.4	1.0	.7
19	1.0	-						27	10	2.3	1.0	.6
20	1.0	-						23	9.5	2.3	.9	.6
21	1.0	-						22	9.5	2.3	.9	.6
22	1.0	-						20	9.7	2.3	.9	.6
23	1.0	-						18	9.5	2.3	.9	.6
24	1.0	-						18	8.8	2.3	.8	.6
25	1.0	-						19	8.3	2.3	.8	.6
26	1.0	-						21	7.7	2.3	.8	.6
27	1.0	-						25	7.3	2.1	.8	.6
28	.9	-						29	7.3	2.0	.8	.6
29	.9	-						34	7.0	1.9	.8	.6
30	1.4	-						32	6.8	1.8	.8	.6
31	1.2	-						28	-	1.7	.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	36.7	4.2	0.8	1.18	0.590	0.68	73
November	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-
Calendar year	-	-	-	-	-	-	-
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-
May 4-31	664	34	17	23.7	11.8	12.3	1,320
June	389.4	24	6.8	13.0	6.50	7.25	772
July	100.9	6.4	1.7	3.25	1.62	1.87	200
August	30.8	1.5	.7	.99	.495	.57	61
September	21.7	1.1	.6	.72	.360	.40	43
Water year	-	-	-	-	-	-	-

East Fork of Weiser River near Starkey, Idaho

Location.- Staff gage, lat. 44°51', long. 116°23', in SE¼ sec. 31, T. 18 N., R. 1 E., 500 feet upstream from confluence with Weiser River and 3¼ miles east of Starkey.

Drainage area.- 31.6 square miles.

Records available.- April 1937 to April 1939 (discontinued).

Extremes.- Maximum discharge observed during period, 109 second-feet Apr. 23, 24 (gage height, 1.65 feet); minimum observed, 1.5 second-feet Sept. 26 (gage height, 0.27 foot).

1937-39: Maximum discharge observed, probably in excess of 400 second-feet, May 1, 1938, during log jam (observed gage height, 2.50 feet); minimum discharge, 1.4 second-feet Sept. 16, 1937.

Remarks.- Records good except those for Nov. 11 to Feb. 28, which are fair. Gage read twice daily. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	4.6	*11	9.3	*7.0	8.5	73					-
2	2.9	4.2	12	9.3	*8.0	8.2	76					-
3	4.2	4.8	12	10	8.5	8.2	87					-
4	3.0	8.2	11	8.9	8.9	7.9	98					-
5	3.0	7.3	12	10	8.5	7.6	79					-
6	2.9	4.6	11	8.5	7.6	7.9	63					-
7	2.9	6.1	11	*8.0	7.9	7.9	60					-
8	2.8	6.7	11	*8.0	*7.0	7.9	60					-
9	2.8	5.5	11	*9.0	*6.0	7.9	62					-
10	2.8	4.2	10	9.3	*7.0	7.9	59					-
11	2.9	*4.0	7.3	9.3	*8.0	8.5	58					-
12	2.9	*4.0	*7.0	9.3	8.9	12	62					-
13	2.5	*6.0	*7.5	9.3	7.9	12	54					-
14	2.6	*8.0	*8.0	8.9	8.9	9.7	51					-
15	3.0	*10	*9.0	9.3	9.3	9.7	54					-
16	3.1	*11	*10	9.3	8.2	10	55					-
17	2.9	14	*10	9.3	7.9	12	57					-
18	2.9	13	10	9.3	8.2	11	64					-
19	2.6	11	10	8.5	7.9	18	70					-
20	2.8	*10	9.7	7.9	7.9	21	79					-
21	2.9	5.8	9.3	*7.0	8.5	29	89					-
22	2.8	*5.0	9.3	*7.0	8.5	36	106					-
23	2.5	*5.0	9.7	*7.0	8.2	41	106					-
24	2.8	*7.0	9.3	*7.5	7.9	52	104					-
25	2.4	*6.5	9.3	*8.0	7.9	59	-					-
26	2.4	*6.0	*8.0	8.9	7.9	62	-					1.5
27	2.8	*6.0	9.3	7.9	7.6	69	-					1.6
28	2.9	*7.0	9.7	8.2	7.9	65	-					-
29	2.9	*9.0	9.3	9.3	-	65	-					-
30	3.1	*10	9.3	*8.5	-	63	-					-
51	3.5	-	9.3	*8.0	-	64	-					-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	88.9	4.2	2.4	2.87	176
November	214.5	14	4.0	7.15	425
December	302.3	12	7.0	9.75	600
Calendar year 1938	20,316.7	325	2.2	55.7	40,290
January	268.0	10	7.0	8.65	532
February	223.9	9.3	6.0	8.00	444
March	808.8	69	7.6	26.1	1,600
April 1-24	1,726	106	51	71.9	3,420
May	-	-	-	-	-
June	-	-	-	-	-
July	-	-	-	-	-
August	-	-	-	-	-
September	-	-	-	-	-
The period	-	-	-	-	7,200

*Stage-discharge relation affected by ice; discharge computed on basis of weather records and records for nearby stations.

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, Adams County, and 1½ miles upstream from Weiser River.

Drainage area.- 78 square miles.

Records available.- October 1910 to January 1913, October 1919 to September 1925, April 1937 to September 1939.

Extremes.- Maximum discharge observed during year, 385 second-feet Mar. 24 (gage height, 2.48 feet); minimum observed, 4.4 second-feet Nov. 21 (gage height, 0.12 foot).
1910-13, 1919-25, 1937-39: Maximum discharge not determined; maximum daily discharge, 1,000 second-feet May 1, 1938; minimum discharge, 0.5 second-foot July 23-27, 1911.

Remarks.- Records good except those for periods of ice effect, Dec. 12-16, Jan. 4-9, 13, 14, 16, 20-23, 31, Feb. 18-20, which were computed on basis of one discharge measurement, weather records, and records for stations on nearby streams and are fair. Gage read twice daily. Several diversions both above and below station for irrigation. Flow regulated by Lost Valley Reservoir on Lost Creek, 12 miles upstream.

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge in second-feet)

Oct. 1 to Mar. 23

0.1	4	0.9	53.5	1.7	174
.3	9	1.1	76	1.9	217
.5	20.5	1.3	103	2.1	265
.7	36	1.5	135	2.3	320

Mar. 24 to Sept. 30

0.2	6.5	1.0	71.5	1.8	197
.4	15.5	1.2	97	2.0	241
.6	29.5	1.4	126	2.2	290
.8	48.5	1.6	159	2.4	350

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	52	10.0	12	15	19	265	253	33	39	70	46
2	47	50	11.0	13	17	17	265	177	30	48	69	46
3	48	50	11.0	14	19	17	265	208	30	50	68	46
4	45	52	10.0	14	18	21	265	218	26	53	69	46
5	45	52	11.0	14	17	21	218	230	24	60	67	46
6	45	38	11.0	12	19	24	177	218	25	55	64	44
7	44	25	14.0	11	19	24	159	208	24	53	64	46
8	44	12	17.0	11	18	19	142	197	23	62	63	42
9	44	11	17.0	11	15	17	142	177	22	63	62	44
10	44	9.5	12.0	12	16	18	139	142	21	62	62	42
11	44	9.0	9.0	12	20	18	132	136	19	57	62	44
12	44	8.4	8.0	12	25	25	177	128	18	57	63	42
13	43	8.4	9.0	11	22	40	168	123	17	46	63	48
14	44	11	13.0	11	22	34	168	114	15	46	62	46
15	44	10	14.0	12	20	30	177	108	14	46	64	46
16	44	10	15.0	13	15	41	177	105	26	54	62	42
17	44	11	14.0	12	14	43	159	103	24	54	60	42
18	43	11	13.0	13	15	95	150	96	24	67	58	40
19	43	7.8	15.0	13	17	130	159	94	24	74	60	42
20	43	5.2	15.0	12	19	174	168	87	24	73	60	40
21	43	4.6	12.0	11	19	217	168	82	24	74	58	40
22	43	5.2	11.0	11	20	252	177	76	21	74	57	40
23	43	6.9	12.0	12	21	305	159	75	17	73	61	40
24	41	9.0	12.0	13	22	320	159	70	14	72	48	40
25	41	11	12.0	15	19	320	168	63	14	73	48	26
26	41	9.0	10.0	14	19	320	150	57	12	73	46	25
27	41	8.1	9.0	16	20	305	150	55	12	72	46	24
28	40	8.4	9.0	17	17	305	187	50	10	73	46	24
29	49	11	10.0	17	-	278	253	40	9.7	72	46	24
30	50	10	10.0	17	-	265	265	38	38	72	46	24
31	53	-	11.0	15	-	241	-	35	-	72	46	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,370	53	40	44.2	2,720
November	526.5	52	4.6	17.6	1,040
December	367.0	17	8.0	11.8	728
Calendar year 1938	48,434.1	1,000	4.4	133	96,070
January	403	17	11	13.0	799
February	519	25	14	18.5	1,030
March	3,955	320	17	128	7,840
April	5,508	265	132	184	10,920
May	3,763	253	35	121	7,460
June	634.7	33	9.7	21.2	1,260
July	1,925	76	38	62.1	3,820
August	1,820	70	46	58.7	3,610
September	1,187	48	24	39.6	2,350
Water year 1938-39	21,978.2	320	4.6	60.2	43,580

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Lost Valley Reservoir near Tamarack, Idaho

Location.- Staff gage, a short distance upstream from outlet gates near left end of dam on Lost Creek, lat. 44°58'30", long. 116°28', in sec. 28, T. 19 N., R. 1 W., 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 1939.

Extremes.- Maximum gage height observed during year, 26.20 feet May 18; minimum observed, 10.84 feet Sept. 26.

1924, 1926-39: Maximum gage height observed, that of May 18, 1939; gage not read when reservoir is 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 about 26 feet. Water is used for irrigation of lands in Weiser River Basin. Gage-height record furnished by owners of Lost Valley Reservoir.

Gage height, in feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-		-					-	-	25.22	-	-
2	-		-					-	25.68	-	-	-
3	-		-					26.13	-	-	-	-
4	-		-					-	-	-	19.70	14.01
5	17.51		-					-	-	-	-	-
6	-	13.72	-					-	-	-	-	-
7	-		14.27					-	-	-	-	-
8	-		-				19.18	-	-	-	-	-
9	-		-					-	-	-	-	-
10	-		-					-	-	-	18.45	-
11	-		-					-	-	-	-	-
12	-		-					-	25.52	24.00	-	-
13	-		-					-	-	-	-	-
14	-		-					-	-	-	-	-
15	-		-					-	-	23.60	-	-
16	-		-					-	-	-	-	-
17	-		-		14.69			-	-	-	17.50	12.07
18	16.03		-					26.20	-	-	-	11.94
19	-		14.28					-	-	-	-	-
20	-		-					-	25.54	-	16.46	-
21	-		-					-	-	-	-	-
22	-		-					26.04	-	-	-	-
23	-		-					-	-	-	14.96	-
24	-		-					-	-	-	-	11.01
25	-		-					25.94	-	-	-	-
26	-		-					-	-	-	-	10.84
27	15.00		-					-	-	-	-	-
28	14.89		-					-	25.42	-	-	-
29	-		-					-	25.40	-	-	-
30	-		-					-	-	-	-	-
31	-		-					25.74	-	-	-	-

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 1939.

Extremes.- Maximum discharge during year, 158 second-feet May 5, 6 (gage height, 2.49 feet); practically no flow Nov. 6.
1910-14, 1920-21, 1924-39: Maximum discharge, 688 second-feet May 17, 18, 1921 (gage height, 4.29 feet); practically no flow at times gates in dam were closed.

Remarks.- Records good except those for Nov. 25 to Apr. 7, which are fair. No diversion between gage and reservoir; practically entire flow diverted below station during irrigation season. Flow regulated by Lost Valley Reservoir. Gage-height record furnished by owners of Lost Valley Reservoir.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

1.0	2.2	1.6	27	2.2	99
1.2	5.8	1.8	46	2.4	136
1.4	13.5	2.0	70	2.6	187

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	48					*11	101	28	40	†68	47
2	†43	47					*12	77	26	46	†69	47
3	†42	47					*12	109	22	46	†69	46
4	†42	47	*6			*9	*12	134	20	46	69	47
5	42	46					*12	153	18	46	68	47
6	†42	29					*12	158	18	47	68	47
7	†42	5					*12	150	17	52	66	47
8	†42	5					12	138	16	61	65	46
9	†42	6			*8		12	122	16	60	64	45
10	†42	6		*7			12	101	15	59	64	46
11	†42	6					27	98	15	58	64	†45
12	†42	6	*7				47	98	15	53	64	†45
13	†42	6					66	93	15	49	62	†44
14	†42	6				*10	83	87	14	48	62	†44
15	†42	6					84	84	14	52	62	†43
16	†42	6					84	80	16	54	62	†43
17	†42	6			8		49	77	16	56	62	42
18	42	6					32	73	16	73	61	41
19	†42	6	7				33	68	16	76	61	41
20	†42	6			*8		34	62	16	76	61	41
21	†42	6					20	58	16	74	61	41
22	†41	6					16	55	15	73	61	41
23	†41	6		*8			17	53	14	73	55	40
24	†40	6					34	48	13	71	49	36
25	†40	*6	*7				51	44	13	71	49	27
26	†40	*6			*9	*11	51	41	12	70	48	27
27	40	*6					59	39	11	70	48	26
28	42	*6					99	36	11	69	48	26
29	48	*6					124	34	20	69	48	26
30	48	*6					138	33	38	68	48	25
31	48	-					-	31	-	†68	48	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,312	48	40	42.3	2,600
November	406	48	5	13.5	805
December	211	-	-	6.8	419
Calendar year 1938	20,095	444	5	55.1	39,860
January	230	-	-	7.4	456
February	229	-	-	8.2	454
March	314	-	-	10.1	623
April	1,267	138	11	42.2	2,510
May	2,535	158	31	81.8	5,030
June	512	38	11	17.1	1,020
July	1,874	76	40	60.5	3,720
August	1,854	69	48	59.8	3,680
September	1,209	47	25	40.3	2,400
Water year 1938-39	11,953	158	5	32.7	23,720

†Gage height missing; discharge computed on basis of gate changes.
*Gage height missing; discharge interpolated.

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 2.5 miles northwest of Council. Datum lowered 0.48 foot Aug. 5.

Drainage area.- 107 square miles.

Records available.- April 1937 to September 1939 (fragmentary).

Extremes.- Maximum discharge during year not determined; no flow Aug. 19, 20, and probably at times during periods of no record.
1937-39: Maximum discharge not determined; no flow Aug. 19, 20, 1939, and probably at times during periods of no record.

Remarks.- Records good. Gage read once daily Aug. 5 to Sept. 30. Several diversions above station for irrigation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									*17		-	0.2
2								*104			-	.2
3											-	.2
4											-	.2
5											0.1	.2
6											.1	.2
7											.1	.2
8											.2	.2
9											.2	.1
10											.1	.1
11											.2	.1
12											.2	.2
13											.1	.2
14											.1	.2
15											.2	.2
16											.1	.2
17											.1	1.5
18			*20		*28						.1	1.0
19											0	1.2
20											0	.2
21											.1	.5
22											.1	.1
23											.1	.1
24											.1	.1
25											.2	.7
26						*378					.2	.7
27											.1	.5
28	*13								*2.6		.2	.1
29											.1	.1
30											.1	.1
31											.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June					
July					
August	3.4	0.2	0	0.13	6.7
September	9.8	1.5	.1	.33	19
Water year	-	-	-	-	-

*Discharge measurement.

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 Weiser River.

Drainage area.- 86.5 square miles.

Records available.- August 1919 to November 1921 and April 1937 to September 1939. October 1910 to August 1913, at site three-quarters of a mile upstream.

Extremes.- Maximum discharge observed during year, 575 second-feet Apr. 29, May 3, 4 (gage height, 2.60 feet); no flow July 22 to Sept. 13, Sept. 16.
1919-21, 1937-39: Maximum discharge observed, 1,380 second-feet May 1, 1938; maximum gage height observed, 3.88 feet Dec. 11, 1937; no flow Aug. 12, Aug. 15 to Sept. 24, 1937, July 22 to Sept. 13, Sept. 16, 1939.

Remarks.- Records good except those for periods of ice effect, Nov. 12 to Mar. 7, which were computed on basis of two discharge measurements, weather records, and records for other stations in Weiser River Basin and are fair. Gage read twice daily. Mesa Orchards canal diverts about 6½ miles upstream.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	26					204	515	121	18.0		0
2	38	33					196	488	107	17.0		0
3	62	51					204	545	100	25.0		0
4	27	66					198	575	95	34.0		0
5	27	42				26	198	515	93	51.0		0
6	30	32					193	410	88	54.0		0
7	24	28					187	385	85	41.0		0
8	24	26				26	184	385	80	31.0		0
9	23	29				31	179	360	77	20.0		0
10	24	36	30		26	29	226	338	74	18.0		0
11	37	30				31	179	338	74	16.0		0
12	32					95	161	338	66	11.0		0
13	28					247	161	360	65	5.1		0
14	23					105	161	360	61	2.7		.5
15	34					138	164	338	68	1.2		.7
16	23					179	182	273	77	.7		0
17	25		*29			201	193	273	79	.5		1.2
18	26					201	187	226	76	.3		2.5
19	26				*26	198	196	223	79	.2		5.1
20	27					240	198	201	74	.2		6.2
21	24	30				240	204	198	68	.1		7.0
22	26					251	210	184	62	0		6.5
23	26					243	230	182	58	0		6.5
24	25		28			230	360	161	54	0		6.5
25	25				26	240	515	156	44	0		6.2
26	25					230	338	144	36	0		6.2
27	25					223	315	154	29	0		6.2
28	26					223	488	166	27	0		7.0
29	25					210	545	161	23	0		8.2
30	48					226	515	151	21	0		9.8
31	28					210	-	136	-	0		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	891	62	23	28.7	1,770
November	969	66	-	32.3	1,920
December	901	-	-	29.1	1,790
Calendar year 1938	58,478.8	1,300	.1	160	116,000
January	837	-	-	27.0	1,660
February	728	-	-	26.0	1,440
March	4,429	251	-	143	8,780
April	7,471	545	161	249	14,820
May	9,239	575	136	298	18,330
June	2,061	121	21	68.7	4,090
July	347.0	54	0	11.2	688
August	0	0	0	0	0
September	86.3	9.8	0	2.88	171
Water year 1938-39	27,959.3	575	0	76.6	55,460

*Discharge measurement.

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, 1930-39 (irrigation seasons only).

Extremes.- Maximum discharge during period, 36 second-feet May 29, 30; maximum gage height, 2.26 feet May 29; no flow at times.
1924, 1928, 1930-39: Maximum discharge, 36 second-feet June 8-10, 1935, May 29, 30, 1939; no flow during nonirrigation seasons.

Remarks.- Records fair. Discharge for May 4-7, 29, 31, June 1, 5, 7, 13-15, 18, 26, July 8, 10, Sept. 16, 18, 25, computed on basis of gate changes as reported by observer. 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 operation of gates in diversion dam and of waste gates in flume above gage. Gage-height record furnished by operators of Mesa Orchards.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								6	30	32	23	15
2								7	31	34	22	16
3								7	30	33	21	16
4								10	29	30	20	16
5								13	30	29	20	16
6								9	29	28	20	17
7								6	30	28	20	16
8								17	31	22	20	16
9								18	29	18	20	16
10								20	27	24	19	15
11								21	25	26	19	15
12								23	24	29	19	18
13								25	23	31	18	20
14								27	23	32	18	20
15								28	28	32	17	19
16								29	28	31	17	15
17								30	26	31	17	6
18								31	24	30	16	7
19								32	24	30	17	8
20								32	22	30	16	7
21								32	21	29	16	6
22								32	21	29	16	5
23								30	23	29	16	5
24								31	25	28	16	5
25								31	25	27	16	6
26								30	26	26	16	6
27								28	29	25	16	6
28								28	30	25	16	6
29								34	31	25	16	6
30								36	32	25	15	6
31								31	-	25	15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	734	36	6	23.7	1,460
June	806	32	21	26.9	1,600
July	873	34	18	28.2	1,730
August	553	23	15	17.8	1,100
September	351	20	5	11.7	696
The period	-	-	-	-	6,590

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 1939.

Extremes.- Maximum discharge observed during year, 192 second-feet Mar. 22 (gage height, 3.87 feet); no flow July 20 to Sept. 30.

1938-39: Maximum discharge observed, 582 second-feet (discharge measurement) Mar. 16, 1938 (gage height, 6.07 feet); no flow Aug. 23-31 and Sept. 6, 1938, July 20 to Sept. 30, 1939.

Remarks.- Records good except those for periods of ice effect, Nov. 22 to Dec. 2, Dec. 11 to Mar. 11, which were computed on basis of two discharge measurements, weather records, and records for stations on nearby streams and are poor. Gage read twice daily. Several diversions for irrigation above station. Flow regulated slightly by power plant 8 miles upstream.

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.2	0	2.0	19	3.2	117
1.4	.7	2.3	37	3.5	147
1.6	4.2	2.6	60	3.8	180
1.8	10.2	2.9	87	4.1	217

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	6.7	10			5.5	52	142	38	0.3		
2	.2	6.7	11			5.5	47	147	32	.2		
3	.7	8.6	11			5.5	48	158	26	.2		
4	.6	7.3	10			5.5	48	158	27	.6		
5	.6	7.6	9.6			5.5	46	142	26	1.7		
6	.6	7.3	8.9			5.5	41	127	25	1.4		
7	.7	7.0	9.6			5.5	41	117	24	.7		
8	.7	8.6	11			5.5	38	112	23	.6		
9	.7	8.3	11			5.5	39	112	22	.2		
10	.7	6.7	10			5.5	40	107	18	.2		
11	.7	8.6				10	38	112	16	.2		
12	1.2	6.2				25	36	102	14	.2		
13	.9	8.0				51	36	102	14	.1		
14	.9	7.6				30	33	107	12	.2		
15	1.8	8.3				24	34	102	12	.1		
16	1.3	8.9				40	35	102	20	.1		
17	.9	9.9				56	39	107	20	.2		
18	1.3	8.9				77	43	97	23	.2		
19	1.2	8.3				107	56	87	16	.1		
20	1.4	8.3				122	68	72	15	0		
21	1.4	6.4	6		*4.6	127	77	68	14	0		
22	1.5	6.0				137	77	64	11	0		
23	1.5	6.0				127	77	56	9.6	0		
24	1.2	7.0				117	72	56	7.6	0		
25	1.3	6.5				107	68	52	5.3	0		
26	1.3	6.5				92	68	56	2.4	0		
27	1.2	7.5				77	82	52	1.7	0		
28	2.4	7.5				68	112	56	.9	0		
29	4.2	8.0				60	132	56	.6	0		
30	9.2	8.5				56	127	56	.2	0		
31	7.6	-				51	-	46	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	50.2	9.2	0.2	1.62	100
November	227.7	9.9	6.0	7.59	452
December	228.1	11	-	7.36	452
Calendar year	-	-	-	-	-
January	170.5	-	-	5.50	338
February	140.0	-	-	5.00	278
March	1,616	137	5.5	52.1	3,210
April	1,750	132	33	58.3	3,470
May	2,930	158	46	94.5	5,810
June	476.3	38	.2	15.9	945
July	7.5	1.7	0	.24	15
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1938-39	7,596.3	158	0	20.8	15,070

*Discharge measurement.

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 1939.

Extremes.- Maximum discharge observed during year, 145 second-feet Mar. 25 (gage height, 1.86 feet); minimum observed, 2 second-feet July 19, 20, 23-25, Aug. 17, 18, 20, 23-30, Sept. 29, 30; minimum gage height observed, 0.34 foot July 24.

1938-39: Maximum discharge observed, 235 second-feet June 5, 1938 (gage height, 2.38 feet); minimum observed, 2 second-feet July 19, 20, 23-25, Aug. 17, 18, 20, 23-30, Sept. 29, 30, 1939; minimum gage height observed, that of July 24, 1939.

Remarks.- Records good except those for Nov. 23 to Mar. 1, which were computed on basis of two discharge measurements and records for other streams in Weiser River Basin and are poor. Several diversions for irrigation above station.

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet and discharge, in second-feet)

Oct. 10 to Nov. 22		Mar. 2 to Sept. 30			
0.5	5.0	0.3	1.6	1.3	61
.6	7.5	.5	5.0	1.5	88
.7	10.3	.7	12	1.7	119
.8	13.5	.9	23	1.9	154
		1.1	39		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	11				12	88	88	18	4	5	3
2	6	11				13	85	88	17	3	4	3
3	7	13				12	85	96	16	3	3	3
4	7	12				12	82	96	15	4	3	3
5	8	11				13	77	82	15	4	3	3
6	8	10				12	70	69	14	4	3	3
7	8	9				12	61	61	13	3	3	3
8	8	9				12	60	60	12	3	3	3
9	8	10				12	60	59	12	3	3	3
10	8	10				14	57	57	10	3	3	3
11	8	9				18	54	51	9	3	3	3
12	8	9				33	53	48	8	3	3	3
13	8	10				29	48	46	7	3	3	4
14	8	10				24	47	44	6	3	3	4
15	9	11	*17			26	45	41	6	3	3	4
16	8	12				29	46	40	7	3	3	4
17	8	12				35	48	47	8	3	2	4
18	8	12				49	53	40	8	3	2	3
19	8	12				71	59	37	9	2	3	3
20	8	11				77	62	34	10	2	2	3
21	8	10			*15	96	70	31	9	3	3	3
22	8	9				111	74	29	8	3	3	3
23	8	9				111	74	26	7	2	2	3
24	8	10				119	68	24	7	2	2	3
25	8	10				136	60	20	7	2	2	3
26	8	10				136	56	21	7	3	2	3
27	9	10				128	64	21	7	3	2	3
28	9	10				119	75	21	6	3	2	3
29	10	10				103	96	20	5	3	2	2
30	11	10				96	88	21	4	3	2	2
31	13	-				88	-	20	-	4	3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	255	13	6	8.2	506
November	312	13	9	10.4	619
December	403	-	-	13.0	799
Calendar year	-	-	-	-	-
January	372	-	-	12.0	738
February	336	-	-	12.0	666
March	1,758	136	12	56.7	3,490
April	1,965	96	45	65.5	3,900
May	1,438	96	20	46.4	2,850
June	287	18	4	9.6	569
July	93	4	2	3.0	184
August	85	5	2	2.7	169
September	93	4	2	3.1	184
Water year 1938-39	7,397	136	2	20.3	14,670

*Discharge measurement.

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, about 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 1939. June 1920 to February 1921, March to September 1923, and February 1924 to October 1927, at nearby sites.

Extremes.- Maximum discharge observed during year, 419 second-feet Mar. 24 (gage height, 3.30 feet); minimum observed, 6.0 second-feet Sept. 29 (gage height, 0.37 foot). 1920-21, 1923-27, 1938-39: 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, Feb. 1-3, 8-10, 17-19, 27, which were computed on basis of weather records and records for stations on nearby streams and are fair. Gage read twice daily. One small ranch diversion above station. Many diversions for irrigation below station, including canal feeding C. Ben Ross Reservoir.

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.3	4.5	1.1	30.5	1.9	99	3.0	332
.5	8.8	1.3	41.5	2.1	129	3.3	419
.7	14.5	1.5	56	2.4	185		
.9	21.7	1.7	75	2.7	254		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	19	21	19	16	21	232	360	110	29	11	7.6
2	21	19	23	18	15	21	255	360	110	3[illegible]	11	7.6
3	34	21	25	19	16	21	255	360	102	34	10	7.8
4	18	39	22	17	18	20	255	389	89	40	10	8.0
5	16	20	24	20	17	16	210	360	83	41	9.8	8.0
6	18	12	24	15	18	20	179	332	77	34	9.5	12
7	16	18	24	16	17	17	189	305	77	32	9.5	11
8	14	20	28	16	16	19	169	279	77	3[illegible]	9.8	8.8
9	14	19	30	17	15	20	169	279	72	25	9.5	9.0
10	15	17	26	20	16	21	169	267	66	23	9.5	9.0
11	24	17	20	18	18	25	160	267	62	22	9.3	9.3
12	15	15	15	17	19	83	179	244	62	2[illegible]	9.3	9.0
13	14	20	14	17	19	117	150	244	62	2[illegible]	6.8	12
14	15	18	19	18	19	62	150	244	58	20	6.8	11
15	19	19	21	18	23	54	150	244	58	17	6.8	9.0
16	17	23	23	17	20	77	150	244	56	17	6.8	8.5
17	17	27	22	17	17	133	169	232	54	17	6.6	7.8
18	16	23	21	17	17	200	179	221	55	16	6.4	7.6
19	15	22	20	15	18	255	200	221	54	16	6.4	6.6
20	15	21	18	16	19	267	210	179	53	15	6.4	6.2
21	15	13	19	14	20	267	232	169	48	15	6.4	6.4
22	15	13	19	16	21	305	267	169	46	15	6.4	6.4
23	15	12	19	17	21	279	267	160	44	14	6.4	6.4
24	15	14	19	17	19	318	267	142	42	14	6.4	6.4
25	15	12	19	18	22	318	232	142	41	13	6.4	6.4
26	14	15	16	16	20	292	221	133	36	13	6.4	6.4
27	14	17	18	17	18	292	232	125	36	12	6.8	6.2
28	15	17	19	17	20	279	267	133	35	11	7.1	6.4
29	14	18	18	19	-	232	360	133	34	11	7.3	6.2
30	21	19	18	18	-	221	332	133	28	11	7.3	6.6
31	18	-	17	18	-	232	-	117	-	11	7.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	515	34	11	16.6	0.203	0.23	1,020
November	559	39	12	18.6	.227	.25	1,110
December	641	30	14	20.7	.253	.29	1,270
Calendar year	-	-	-	-	-	-	-
January	534	20	14	17.2	.210	.24	1,060
February	514	23	15	18.4	.225	.23	1,020
March	4,504	318	16	145	1.77	2.04	8,930
April	6,436	360	150	215	2.63	2.93	12,770
May	7,187	389	117	232	2.83	3.26	14,260
June	1,827	110	28	60.9	.744	.83	3,620
July	642	41	11	20.7	.253	.29	1,270
August	245.4	11	6.4	7.92	.097	.11	487
September	239.6	12	6.2	7.99	.098	.11	475
Water year 1938-39	23,844.0	389	6.2	65.3	.797	10.81	47,290

Crane Creek Reservoir near Midvale, Idaho

Location.- Staff gage at gate-control structure near left end of dam on Crane Creek, lat. 44°22', long. 116°37', in SE¼ sec. 19, T. 12 N., R. 2 W., 10 miles southeast of Midvale.

Drainage area.- 242 square miles.

Records available.- November 1923 to September 1939.

Extremes.- Maximum gage height observed during year, 49.4 feet Mar. 24; minimum observed, 33.0 feet Sept. 29.
1924-39: Maximum gage height, 56.3 feet Feb. 22, 1927; no usable storage Sept. 23, 1928, to Feb. 28, 1929, and Sept. 25 to about 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. Gage-height record furnished by Crane Creek Reservoir Administration Board.

Gage height, in feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	-	-	-	-	-	47.90	-	-	-	42.00	36.10
2	-	-	-	-	-	-	48.00	47.80	47.20	45.75	41.90	35.80
3	37.85	-	37.75	-	-	-	48.05	47.80	-	45.65	41.70	-
4	37.80	-	-	-	38.00	38.40	48.10	47.80	47.15	-	41.40	35.50
5	37.70	37.60	-	-			-	47.75	47.10	45.45	41.25	35.25
6	-	-	-	-	-	-	-	47.70	47.10	45.40	41.00	35.10
7	-	-	-	37.95	-	-	48.20	-	47.00	45.30	40.80	-
8	37.70	-	-	-	-	-	48.15	47.70	47.00	45.20	40.60	-
9	37.70	-	-	-	-	-	48.10	47.70	47.00	45.15	40.50	34.60
10	37.65	-	37.85	-	-	-	48.10	-	46.95	45.10	40.30	34.45
11	37.65	-	-	-	38.00	38.70	48.10	-	-	45.00	40.00	34.30
12	-	37.65	-	-	-	-	48.10	47.60	46.95	44.90	39.85	34.20
13	-	-	-	-	-	41.00	48.10	47.60	46.90	44.80	-	34.10
14	-	-	-	38.00	-	-	-	47.55	46.90	-	39.50	34.00
15	37.55	-	-	-	-	42.50	-	47.55	46.85	44.50	39.30	33.90
16	-	-	-	-	-	-	48.00	-	46.85	-	39.15	33.80
17	-	-	37.85	-	-	43.60	48.00	47.50	46.80	44.20	-	33.70
18	-	-	-	-	38.10	45.20	48.00	-	46.75	44.05	-	33.60
19	-	37.70	-	-	-	46.60	-	47.50	46.70	44.00	38.50	33.50
20	-	-	-	-	-	48.00	-	47.45	46.70	43.85	-	33.50
21	-	-	-	38.00	-	48.50	48.00	47.45	46.70	43.60	38.10	33.42
22	37.55	-	-	-	-	49.10	48.00	47.40	46.65	43.50	37.80	33.35
23	-	-	-	-	-	49.30	47.95	47.40	46.65	43.35	37.70	33.30
24	-	-	37.90	-	-	49.40	47.95	47.40	46.60	43.10	37.60	-
25	37.53	-	-	-	38.20	49.30	47.95	47.35	-	43.00	37.40	33.25
26	-	37.75	-	-	-	49.15	47.90	47.35	46.55	-	37.10	33.20
27	-	-	-	-	-	48.75	47.90	-	46.50	42.80	36.95	33.20
28	-	-	-	38.00	-	48.35	47.90	47.30	46.40	42.60	36.70	-
29	37.55	-	-	-	-	47.80	-	47.30	46.30	-	36.55	33.00
30	-	-	-	-	-	47.65	47.85	47.30	46.20	42.35	36.40	33.01
31	-	-	37.90	-	-	47.80	-	47.25	-	42.10	36.30	-

Crane Creek near Midvale, Idaho

Location.- Water-stage recorder, 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 and May 1924 to September 1939.

Average discharge.- 18 years (1912-15, 1924-39), 63.0 second-feet.

Extremes.- Maximum discharge during year, 828 second-feet Mar. 28 (gage height, 3.41 feet); practically no flow Oct. 5-8, Oct. 15 to Mar. 20.
1910-16, 1924-39: Maximum discharge, 4,240 second-feet Dec. 3, 1910 (gage height, 8.9 feet); practically no flow at times in each year when gates in dam were closed.

Remarks.- Records good. Flow regulated by storage in Crane Creek Reservoir (capacity, about 60,000 acre-feet). No large diversions above station. Gage-height record furnished by Crane Creek Reservoir Administration Board.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

0.0	0	.8	49.0	1.9	195	3.1	635
.2	3.5	1.0	70.0	2.2	265	3.4	821
.4	14.5	1.3	105	2.5	361		
.6	30.5	1.6	144	2.8	484		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39					0	3	13	13	184	138	130
2	39					0	15	13	13	178	153	129
3	40					0	35	12	13	144	162	127
4	40					0	35	12	13	143	162	130
5	26					0	35	11	13	120	169	127
6	0					0	35	12	13	60	169	115
7	0					0	43	12	13	60	169	115
8	6					0	62	12	13	60	164	113
9	13					0	60	13	13	60	153	111
10	13					0	59	13	13	60	147	106
11	13					0	62	13	12	67	147	99
12	13					0	62	13	12	124	147	87
13	13					0	63	13	12	126	146	87
14	13					0	63	13	12	126	143	71
15	9					0	63	13	12	126	140	59
16	0					0	45	13	12	126	137	58
17	0					0	5	13	12	122	154	57
18	0					0	5	14	12	121	176	53
19	0					0	5	14	12	115	176	38
20	0					396	5	14	12	141	176	40
21	0					808	13	14	12	156	174	40
22	0					808	19	14	12	156	158	40
23	0					808	19	14	12	154	136	32
24	0					808	19	14	12	144	143	18
25	0					808	16	14	12	116	153	18
26	0					808	11	13	20	115	147	18
27	0					808	12	13	63	113	133	18
28	0					814	12	13	72	113	125	18
29	0					608	12	13	96	113	122	18
30	0					187	12	13	164	131	125	18
31	0					5	-	13	-	140	131	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	277	40	0	8.9	549
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1938	33,264	828	0	91.1	65,970
January	0	0	0	0	0
February	0	0	0	0	0
March	7,666	814	0	247	15,210
April	905	63	3	30.2	1,800
May	404	14	11	13.0	801
June	725	164	12	24.2	1,440
July	3,714	184	60	120	7,370
August	4,675	176	122	151	9,270
September	2,090	130	18	69.7	4,150
Water year 1938-39	20,456	814	0	56.0	40,590

Crane Creek at mouth, near Weiser, Idaho

Location.- Water-stage recorder, 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 1939.

Average discharge.- 18 years (1921-39), 66.9 second-feet.

Extremes.- Maximum discharge during year, 1,100 second-feet (estimated) Mar. 21; minimum, 1 second-foot Apr. 17-21, May 2, 4-9, 11-13; minimum gage height recorded, 1.60 feet Apr. 21.

1920-39: Maximum discharge, about 2,350 second-feet about Feb. 7, 1925 (gage height 6.80 feet, from well-defined marks on gage); minimum, 0.2 second-foot May 26, 1931; minimum gage height, 1.30 feet Jan. 21, 1922.

Remarks.- Records good. Discharge for periods of missing or incomplete gage-height record, Mar. 20-24, Apr. 17-20, July 6-9, computed on basis of weather records and records for station near Midvale. Discharge for Oct. 31 to Nov. 5 interpolated. Flow regulated by Crane Creek reservoir. Several small ditches divert above station for irrigation.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

1.6	0.8	2.5	40	3.4	143	4.3	365	5.2	805
1.9	7.3	2.8	67	3.7	198	4.6	490	5.5	995
2.2	20.5	3.1	100	4.0	270	4.9	635	5.8	1,200

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	5	5	4	4	6	18	2	6	169	116	110
2	30	5	5	4	4	6	16	1	6	167	124	110
3	33	5	6	4	5	7	33	3	6	138	140	109
4	32	5	6	4	5	7	37	1	7	130	140	110
5	31	5	5	5	5	6	36	1	8	129	146	110
6	13	5	5	6	5	6	37	1	11	48	148	99
7	6	5	5	5	6	6	37	1	12	46	150	95
8	5	5	4	4	6	7	55	1	10	46	150	95
9	7	5	4	4	5	9	56	1	11	46	141	94
10	12	5	4	4	5	11	56	2	11	45	132	92
11	12	5	4	4	6	11	57	1	11	46	130	86
12	12	5	4	4	6	53	58	1	11	92	130	71
13	12	5	4	4	6	252	57	1	11	105	129	69
14	12	6	4	3	6	90	52	2	11	106	127	61
15	14	5	4	4	7	65	52	2	9	108	124	52
16	10	5	4	4	6	63	52	2	9	108	123	49
17	6	5	4	4	6	146	1	2	11	106	130	48
18	4	5	4	4	6	230	1	3	12	104	155	49
19	4	5	3	4	6	285	1	3	12	101	157	37
20	5	4	3	4	6	600	1	3	12	113	148	36
21	5	4	4	3	6	1,100	1	3	12	135	112	36
22	4	4	3	4	5	1,050	6	3	11	130	112	36
23	4	3	4	4	6	1,030	7	5	11	129	112	36
24	4	4	4	3	6	1,000	6	4	10	126	110	20
25	4	4	3	4	6	962	5	5	10	95	110	20
26	4	4	3	4	6	930	3	5	8	95	110	20
27	4	3	3	4	6	930	2	6	28	94	110	20
28	4	3	3	6	6	898	2	6	52	95	108	19
29	4	3	3	5	-	805	2	6	62	94	104	18
30	5	3	4	6	-	317	2	6	135	103	103	18
31	5	-	4	5	-	27	-	6	-	119	112	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	337	33	4	10.9	668
November	135	6	3	4.5	268
December	125	6	3	4.0	248
Calendar year 1938	38,022	1,030	3	104	75,410
January	131	6	3	4.2	260
February	158	7	4	5.6	313
March	10,915	1,100	6	352	21,650
April	749	58	1	25.0	1,490
May	89	6	1	2.9	177
June	536	135	6	17.9	1,060
July	3,168	169	45	102	6,280
August	3,943	157	103	127	7,820
September	1,825	110	18	60.8	3,620
Water year 1938-39	22,111	1,100	1	60.6	43,850

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 1939.

Extremes.- Maximum discharge recorded during year, 212 second-feet May 1 (gage height, 3.18 feet); practically no flow when gates were closed.
1920-39: Maximum discharge, 221 second-feet July 15, 1932; maximum gage height, 3.43 feet May 5, 1926; no flow during nonirrigation season in most years.

Remarks.- Records good. None for Oct. 16-23, Oct. 31 to Dec. 14, Dec. 16 to Feb. 21, Feb. 25 to Mar. 24, Mar. 26 to Apr. 16. Discharge for Mar. 25 result of field estimate made by engineer. One farm lateral diverts a quarter of a mile above station. Canal diverts 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 near Weiser. Gage-height record furnished by Weiser Irrigation District.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	113				-		-	210	197	189	138	121
2	119				-		-	201	196	187	138	121
3	131				-		-	200	198	163	160	119
4	166				-		-	200	198	164	163	124
5	149				-		-	200	199	163	166	129
6	120				-		-	198	200	15[illegible]	173	116
7	120				-		-	200	202	153	169	106
8	120				-		-	197	204	143	169	105
9	121				-		-	201	204	116	163	112
10	123				-		-	202	204	114	149	114
11	124				-		-	200	201	103	142	113
12	125				-		-	196	201	123	138	102
13	126				-		-	200	198	153	148	103
14	121				-		-	199	187	150	142	107
15	109		*1.1		-		-	198	176	140	134	101
16	-				-		-	196	188	129	135	114
17	-				-		167	197	200	12[illegible]	145	117
18	-				-		166	198	199	113	166	110
19	-				-		183	200	197	112	172	100
20	-				-		194	205	194	122	172	88
21	-				-		188	189	193	157	171	88
22	-				7.0		189	204	191	164	171	85
23	-				6.5		188	201	180	163	143	87
24	102				6.5		186	203	165	159	140	79
25	74				-	*0.5	190	189	148	131	138	69
26	44				-		196	189	137	123	140	64
27	43				-		199	192	138	123	131	66
28	43				-		204	198	141	113	118	59
29	64				-		192	201	134	115	111	52
30	81				-		182	205	154	117	116	48
31	-				-		-	203	-	140	119	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 17-30	2,624	204	166	187	5,200
May	6,172	210	189	199	12,240
June	5,524	204	134	184	10,960
July	4,320	189	108	139	8,570
August	4,580	173	111	148	9,080
September	2,919	129	48	97.3	5,790
Water year	-	-	-	-	-

*Discharge measurement.

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 1939.

Extremes.- Maximum discharge observed during year, 498 second-feet Mar. 25 (gage height, 3.42 feet), from rating curve extended above 250 second-feet; no flow July 31 to Sept. 13.

1911-13, 1920, 1937-39: Maximum discharge observed, 945 second-feet April 30, 1938 (gage height, 4.28 feet), from rating curve extended above 250 second-feet; no flow Aug. 18 to Sept. 22, 1937, July 31 to Sept. 13, 1939.

Remarks.- Records good except those for periods of ice effect or doubtful gage heights, Nov. 23-28, Dec. 11-18, 20, 22, 26-28, Jan. 6, 7, 9, 14, 16, 20-26, 29, 31, Feb. 1-3, 7-11, 16-24, Mar. 18-24, 28-31, Apr. 3-8, which were computed on basis of three discharge measurements, observer's notes, weather records, and records for other stations in Weiser River Basin and are fair. Gage read twice daily. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	6.6	6.6	6.6	6.0	12	222	48	12	3.1		0
2	2.8	6.0	6.6	6.6	7.0	9.2	207	41	12	3.0		0
3	5.0	6.6	6.6	7.3	8.0	8.6	200	39	12	3.0		0
4	7.6	8.6	6.6	7.6	8.6	8.6	185	34	12	8.2		0
5	4.2	7.9	6.6	7.7	8.2	12	170	34	12	6.6		0
6	4.2	4.8	6.6	7.2	7.9	8.6	155	31	11	5.8		0
7	4.2	5.5	6.6	7.1	7.5	8.6	140	27	11	4.0		0
8	4.2	6.0	8.6	7.0	7.0	8.6	125	23	10	3.5		0
9	4.2	5.5	8.6	6.8	6.5	8.6	112	24	10	3.1		0
10	4.2	5.5	7.6	6.6	7.0	9.2	112	24	9.2	2.4		0
11	4.2	5.5	7.0	6.6	7.5	11	112	21	8.6	2.4		0
12	4.8	2.6	6.5	6.6	8.6	17	106	20	8.2	2.4		0
13	4.2	7.0	7.0	6.0	8.6	48	95	20	7.9	1.6		0
14	4.2	6.0	8.0	6.5	7.9	24	87	18	6.3	1.5		3.1
15	6.3	6.6	8.5	6.6	7.9	21	78	18	6.3	1.5		1.7
16	6.3	7.0	8.5	6.5	8.0	22	76	18	10	1.4		1.3
17	5.2	8.6	7.5	6.6	8.0	67	72	19	8.9	1.3		.9
18	5.0	6.6	6.5	6.6	8.0	120	70	17	8.2	1.2		.7
19	5.0	5.8	6.6	6.6	8.0	150	69	18	9.2	1.0		.5
20	5.0	5.8	7.0	6.5	8.0	160	70	18	7.9	.9		.4
21	5.0	4.2	6.6	6.5	8.0	200	70	17	7.3	.9		.4
22	4.8	5.5	6.5	6.5	8.0	200	70	17	6.6	.7		.4
23	4.8	6.5	6.6	6.5	8.5	170	70	17	5.2	.6		.4
24	4.8	6.5	6.6	7.0	9.0	220	62	16	5.5	.4		.4
25	4.8	6.5	6.6	7.0	9.2	340	57	13	5.2	.4		.4
26	4.5	6.5	6.5	7.0	9.2	236	52	13	5.2	.4		.6
27	4.5	6.5	7.0	7.0	9.2	222	54	13	5.0	.2		.6
28	4.5	6.5	7.0	7.0	10	160	49	12	4.5	.2		.6
29	4.8	6.6	6.6	7.0	-	170	52	11	4.0	.1		.8
30	7.6	6.6	6.6	7.0	-	180	52	12	3.3	.1		.9
31	7.3	-	6.6	6.5	-	200	-	12	-	0		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	151.2	7.6	2.8	4.88	300
November	186.4	8.6	2.6	6.21	370
December	217.3	8.6	6.5	7.01	431
Calendar year 1938	25,124.4	835	1.9	68.8	49,840
January	210.2	7.6	6.0	6.78	417
February	225.3	10	6.0	8.05	447
March	3,032.0	340	8.6	97.8	6,010
April	3,051	222	49	102	6,050
May	665	48	11	21.5	1,320
June	244.5	12	3.3	8.15	485
July	61.9	8.2	0	2.00	123
August	0	0	0	0	0
September	14.1	3.1	0	.47	28
Water year 1938-39	8,058.9	340	0	22.1	15,980

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 below the mouth of Job Creek, half a mile below confluence of North, Middle, and South Forks of Burnt River, and 4½ miles north of Unity. Elevation of reference mark is 3,828.05 feet above mean sea level (datum of Bureau of Reclamation).

Drainage area.- 309 square miles.

Records available.- March 1938 to September 1939.

Extremes.- 1938: Maximum contents observed during period, 14,150 acre-feet Apr. 23, 24 (elevation, 3,806.4 feet); minimum observed, 3,432 acre-feet Sept. 30 (elevation, 3,788.3 feet).

1938-39: Maximum contents observed during year, 25,750 acre-feet May 5 (elevation, 3,820.35 feet); minimum observed, 2,890 acre-feet Oct. 5 (elevation, 3,787.0 feet).

Remarks.- Reservoir is formed by earth-fill dam, completed 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 feet (top of spillway gates). Dead storage, 600 acre-feet. Figures given herein represent usable contents. Water-surface elevation determined by measuring down from reference mark or estimated once daily by Bureau of Reclamation employee. Capacity table computed by office of State engineer from Surveys of Bureau of Reclamation.

Elevation and contents, March 1938 to September 1939

Date	Elevation (feet)	Contents (acre-feet)	Change in contents during month (acre-feet)
Mar. 13, 1938	3,793.4	5,916	-
Mar. 31	3,804.6	12,860	-
Apr. 30	3,805.9	13,790	+930
May 31	3,805.4	13,430	-360
June 30	3,803.9	12,370	-1,060
July 31	3,801.0	10,420	-1,950
Aug. 31	3,795.9	7,294	-3,126
Sept. 30	3,788.3	3,432	-3,862
Oct. 31, 1938	3,790.0	4,200	+768
Nov. 30	3,794.6	6,570	+2,370
Dec. 31	3,798.1	8,592	+2,022
Jan. 31, 1939	3,800.4	10,030	+1,438
Feb. 28	3,803.0	11,750	+1,720
Mar. 31	3,815	20,950	+9,200
Apr. 30	3,820	25,400	+4,450
May 31	3,815.9	21,730	-3,670
June 30	3,811.4	17,960	-3,770
July 31	3,806.1	13,930	-4,030
Aug. 31	3,798.7	8,964	-4,966
Sept. 30	3,794.7	6,625	-2,339
Water year 1938-39	-	-	+3,193

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 (completed by Bureau of Reclamation in 1937), 0.7 mile downstream from South Fork of Burnt River, and 7 miles west of Hereford. Prior to Mar. 5 natural riffle control used.

Records available.- March 1915 to September 1916, October 1928 to September 1939 (incomplete prior to 1930).

Drainage area.- 309 square miles.

Extremes.- Maximum discharge during year, 401 second-feet Apr. 4 (gage height, 3.21 feet); no flow Jan. 14 to Mar. 5.

1915-16, 1928-39: 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 poor Oct. 1 to Mar. 5, fair Mar. 6 to Sept. 30. Shifting-control method used Nov. 16 to Jan. 13. Discharge for period when recorder was not operating, Oct. 3-15, estimated on basis of weather records and records for Unity Reservoir. Many small diversions above station for irrigation. Some regulation by reservoir on South Fork of Burnt River, 3 miles above mouth, (capacity, about 700 acre-feet), and by Unity Reservoir beginning Feb. 19, 1938.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	8.4	6.0	5.6		0	69	81	87	51	90	62
2	19	8.4	6.0	5.6		0	72	81	52	47	81	62
3	19	8.6	6.0	5.6		0	153	101	48	46	64	62
4	19	8.6	6.0	5.6		0	224	108	43	46	57	63
5	19	8.6	6.0	5.6		0	302	107	38	45	70	63
6	14	8.6	5.8	5.6		10	253	106	35	45	78	63
7	10	8.8	5.8	5.6		8	269	112	70	56	83	63
8	10	8.8	5.8	5.6		7	302	128	88	64	100	62
9	10	8.8	5.8	5.6		5	302	127	87	62	118	62
10	10	8.8	5.8	5.8		3	286	182	85	154	122	61
11	10	6.3	5.8	5.8		3	253	200	84	148	108	61
12	10	5.0	5.8	5.8		3	253	200	83	111	96	61
13	10	5.0	5.6	2.7		3	253	193	82	82	87	42
14	9	5.0	5.6	0		3	253	193	82	79	75	28
15	9	5.0	5.6	0		3	253	130	81	75	71	28
16	8.8	5.0	5.6	0		4	261	100	76	73	70	28
17	8.8	5.0	5.6	0		4	224	71	71	71	70	28
18	8.8	5.4	5.4	0		4	129	54	68	69	69	28
19	8.6	5.4	5.4	0		40	40	46	66	66	69	28
20	8.6	5.4	5.4	0		72	49	42	65	64	69	28
21	8.6	5.4	5.4	0		82	138	61	71	61	68	28
22	8.6	5.6	5.4	0		94	261	94	74	59	66	28
23	8.4	5.8	5.4	0		107	261	90	73	57	66	28
24	8.4	5.8	5.6	0		166	261	88	71	61	65	28
25	8.4	5.8	5.6	0		187	261	64	69	72	64	28
26	8.1	6.0	5.8	0		222	238	54	60	69	64	28
27	8.1	6.0	5.8	0		230	109	53	55	64	64	28
28	8.1	6.0	5.8	0		238	61	52	54	63	64	27
29	8.1	6.0	5.6	0		169	60	71	54	68	63	27
30	8.4	6.0	5.6	0		64	69	105	53	71	63	27
31	8.4	-	5.6	0		68	-	103	-	80	63	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	332.2	19	8.1	10.7	659
November	197.3	8.8	5.0	6.58	391
December	176.4	6.0	5.4	5.69	350
Calendar year 1938	31,863.4	705	0.4	87.3	63,190
January	70.5	5.8	0	2.27	140
February	0	0	0	0	0
March	1,799	238	0	58.0	3,570
April	5,919	302	40	197	11,740
May	3,197	200	42	103	6,340
June	2,025	88	35	67.5	4,020
July	2,179	154	45	70.3	4,320
August	2,357	122	57	76.0	4,680
September	1,260	63	27	42.0	2,500
Water year 1938-39	19,512.4	302	0	53.5	38,710

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 Salisbury siding of Sumpter Valley Railway and Stices Gulch and 8½ miles south of Baker. Zero of gage is 3,633.84 feet above mean sea level.

Drainage area.- 230 square miles.

Records available.- December 1903 to August 1914 and October 1928 to September 1939 in reports of U. S. Geological Survey. January 1904 to July 1914 and June 1926 to September 1936 in reports of State engineer.

Average discharge.- 21 years (1904-13. 1926-28, 1929-39), 107 second-feet.

Extremes.- Maximum discharge during year, 745 second-feet Mar. 25 (gage height, 4.86 feet); minimum, 0.2 second-foot Aug. 29 (gage height, 0.98 foot).
1903-14, 1926-39: Maximum discharge, 1,820 second-feet Mar. 20, 1910 (gage height, 7.05 feet, former site and datum); no flow Aug. 31, 1909, Sept. 7, 1931.

Remarks.- Records good except those for period May 24 to June 12, which are fair, and those for periods of ice effect, which are poor. Diversions above station for irrigation.

Rating tables, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 25

1.0	0.7	1.4	17	2.0	91	3.0	292
1.1	2.6	1.6	34	2.3	143	3.5	406
1.2	5.9	1.8	60	2.6	205	4.0	525

Mar. 26 to Sept. 30

1.0	0.4	1.2	5.9
1.1	2.3		

Note.- Same as preceding table above 1.2 feet.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.9	12	15	20	*17	*33	465	314	83	33	5.9	1.5
2	5.2	15	15	19	*17	32	465	303	81	32	5.2	1.9
3	5.9	16	19	23	*18	30	453	303	70	32	4.8	1.5
4	5.2	21	18	*20	*18	32	429	314	68	34	4.8	1.4
5	5.2	23	19	19	*19	54	406	292	72	38	4.1	1.4
6	5.2	18	19	*18	20	39	348	268	68	34	3.0	1.2
7	4.2	17	25	*18	21	54	326	239	64	30	2.1	.6
8	5.2	15	27	*18	*21	49	314	222	59	26	1.5	.6
9	5.6	16	26	*18	*20	46	314	216	57	19	1.5	.8
10	5.6	16	*23	19	*20	63	303	205	70	12	1.5	1.2
11	7.4	16	*21	*19	*21	83	285	199	69	9.4	1.7	1.2
12	7.4	*15	*19	*20	23	134	303	174	63	7.4	1.7	1.2
13	7.4	*15	*18	*21	22	75	279	159	56	7.4	1.7	4.1
14	7.9	17	*17	*22	23	60	252	151	52	7.4	1.7	3.4
15	7.9	18	*18	23	*24	63	237	147	50	8.4	1.7	2.3
16	7.9	19	†19	*22	*25	101	226	153	53	7.4	1.5	2.3
17	6.9	19	*21	21	*27	141	222	169	57	7.4	1.7	2.7
18	8.9	16	*22	*20	30	171	228	167	63	6.9	1.7	2.1
19	9.4	19	*22	*20	32	192	246	184	66	5.9	1.5	2.1
20	8.4	18	*21	*20	*33	252	263	163	63	6.4	1.4	1.4
21	9.4	16	*19	*21	*34	314	285	143	57	6.4	1.5	1.2
22	9.9	11	*19	*21	*35	372	303	128	53	5.9	1.5	1.7
23	9.4	13	20	*22	36	513	314	119	49	5.5	1.2	1.9
24	9.9	13	20	*22	34	621	303	109	46	6.9	1.2	2.1
25	7.9	16	20	*21	*33	645	281	99	42	6.9	1.0	2.3
26	8.9	17	16	*20	*33	645	259	97	41	8.4	.6	2.1
27	8.4	20	17	19	*33	585	239	94	40	7.9	.6	1.9
28	7.9	20	*18	19	*34	537	235	91	36	7.4	.6	1.5
29	8.9	19	*19	19	-	477	270	91	34	7.4	.3	2.1
30	13	19	20	*18	-	441	314	101	34	6.9	.3	3.7
31	13	-	19	*17	-	441	-	91	-	6.4	.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	238.3	13	4.9	7.69	473
November	505	23	11	16.8	1,000
December	611	27	15	19.7	1,210
Calendar year 1938	48,019.3	820	4.9	132	95,250
January	619	23	17	20.0	1,230
February	723	36	17	25.8	1,430
March	7,295	645	30	235	14,470
April	9,167	465	222	306	18,180
May	5,505	314	91	178	10,920
June	1,716	83	34	57.2	3,400
July	440.0	38	5.5	14.2	873
August	60.3	5.9	0.3	1.95	120
September	55.4	4.1	0.6	1.85	110
Water year 1938-39	26,935.0	645	0.3	73.8	53,420

Peak discharge.- Mar. 18 (5:30 p.m.) 360 sec.-ft.; Mar. 21 (9 p.m.) 394 sec.-ft.; Mar. 22 (10 p.m.) 489 sec.-ft.; Mar. 23 (9 p.m.) 695 sec.-ft.; Mar. 24 (11 p.m.) 720 sec.-ft.; Mar. 25 (12 p.m.) 745 sec.-ft.

*Stage-discharge relation affected by ice; discharge estimated on basis of weather records and inspection of recorder graph.

†Discharge measurement.

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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 1939.

Average discharge.- 11 years, 385 second-feet.

Extremes.- Maximum discharge observed during year, 2,200 second-feet Mar. 27 (gage height, 4.32 feet); minimum daily discharge, 26 second-feet (estimated) Aug. 21 (gage height, less than 0.50 foot).

1928-39: Maximum discharge observed, 4,180 second-feet June 15, 16, 1933 (gage height, 6.9 feet, former site and datum); minimum observed, 18 second-feet Sept. 2-10, 1930.

Remarks.- Records fair. Staff gage read twice daily except during period Aug. 20-26, when water was too low for gage height to be read. Stage-discharge relation affected by ice Feb. 8-10. Many diversions above station for irrigation; none below.

Rating tables, water year 1938-39 except period of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 26

0.8	75	1.9	440	3.4	1,370
1.0	119	2.2	585	3.8	1,710
1.3	204	2.6	810	4.3	2,200
1.6	315	3.0	1,070		

Mar. 27 to Sept. 30

0.4	26	.9	105	1.6	320
.6	49	1.2	184	1.9	440

Note.- Same as preceding table above 1.9 feet.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	109	176	167	179	87	145	1,410	1,290	640	248	88	33
2	93	162	173	195	79	140	1,370	1,330	555	215	84	37
3	137	204	173	195	119	137	1,220	1,370	545	245	97	34
4	135	179	179	185	142	140	1,490	1,330	472	360	97	35
5	137	188	185	185	142	119	1,540	1,290	462	368	99	37
6	140	182	173	151	140	145	1,490	1,040	444	352	84	38
7	132	179	182	122	124	135	1,410	1,070	412	298	76	36
8	132	176	211	156	*110	140	1,410	1,070	400	305	76	37
9	135	182	231	127	*90	142	1,290	935	392	287	73	36
10	140	176	218	145	*100	156	1,180	810	408	228	76	35
11	135	167	179	145	119	185	1,100	840	404	190	71	34
12	122	148	114	137	148	510	1,100	810	424	150	67	37
13	127	162	109	132	132	810	1,040	810	458	132	69	52
14	132	176	135	129	135	722	968	840	472	119	60	73
15	132	173	224	140	167	840	902	870	458	110	55	59
16	135	192	195	135	112	968	870	968	458	105	48	51
17	140	192	214	145	114	1,330	840	935	404	97	39	45
18	137	179	221	137	129	1,620	870	870	392	92	33	44
19	135	165	221	119	142	2,000	935	902	384	92	29	42
20	135	173	201	114	129	2,000	935	810	356	84	*27	44
21	132	135	198	114	114	2,000	968	695	340	80	*26	45
22	132	109	179	109	140	2,000	1,100	668	352	80	*27	49
23	119	95	162	102	142	2,000	1,070	612	352	74	*28	48
24	124	135	173	91	145	2,000	1,070	560	344	73	*30	49
25	124	129	170	105	140	2,000	1,040	535	290	69	*32	48
26	124	112	156	102	156	2,100	870	580	290	65	*34	45
27	127	124	156	145	124	2,200	810	640	272	59	36	42
28	124	129	173	109	129	2,000	1,450	780	255	52	32	44
29	124	179	173	140	-	1,900	1,370	840	252	59	32	44
30	179	176	173	135	-	1,620	1,370	935	255	76	30	44
31	179	-	173	105	-	1,330	-	870	-	105	29	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,108	179	93	133	8,150
November	4,854	204	95	162	9,630
December	5,591	231	109	180	11,090
Calendar year 1938	252,026	3,100	83	690	499,900
January	4,230	195	91	136	8,390
February	3,550	167	79	127	7,040
March	33,534	2,200	119	1,082	66,510
April	34,488	1,540	810	1,150	68,410
May	27,905	1,370	535	900	55,350
June	11,942	640	252	398	23,690
July	4,869	368	52	157	9,660
August	1,684	99	26	54.3	3,340
September	1,297	73	33	43.2	2,570
Water year 1938-39	138,052	2,200	26	378	273,800

*Discharge estimated on basis of records for Grande Ronde River at Rondowa.

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 1939.

Average discharge.- 11 years, 394 second-feet.

Extremes.- Maximum discharge during year, 1,520 second-feet May 4 (gage height, 3.78 feet); minimum, 56 second-feet Nov. 23 (gage height, 1.14 feet).

1937-38: Maximum discharge, 4,800 second-feet May 1, 1938 (gage height, 6.27 feet), from rating curve extended above 3,000 second-feet; minimum, 71 second-feet Dec. 9 (gage height, 1.05 feet).

1928-39: Maximum discharge, that of May 1, 1938; minimum, 35 second-feet Jan. 26, 1936, Jan. 8, 1937.

Remarks.- Records good except those for periods of ice effect, Nov. 24-27, Dec. 12-16, 1938, those for period when recorder was not running July 3-6, 1939, and those above 3,000 second-feet, all of which were computed on basis of records for Powder River near Robinette and Grande Ronde River at Rondowa and are fair. Diversion for irrigation above station.

Revisions.- Revised figures of discharge for the water year 1937-38, superseding those published in Water-Supply Paper 863, are given herein.

Rating tables, water years 1937-39 except periods of ice effect (gage height, in feet, and discharge in second-feet)

Oct. 1, 1937 to April 16, 1938				Apr. 17, 1938 to Sept. 30, 1939					
1.1	78	2.6	670	1.1	78	2.8	720	5.0	2,930
1.3	117	3.0	920	1.4	102	3.2	985	5.6	3,760
1.5	175	3.4	1,220	1.7	186	3.6	1,320	6.2	4,650
1.8	285	3.8	1,560	2.0	305	4.0	1,730		
2.2	460	4.1	1,830	2.4	495	4.5	2,300		

Discharge, in second-feet, 1937-39

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	88	117	138	178	189	420	420	4,200	2,740	1,620	336	146
2	100	113	149	220	186	495	410	3,060	2,800	1,370	314	143
3	135	113	156	169	182	505	428	2,480	2,800	1,320	301	140
4	125	111	140	127	169	495	485	2,120	2,670	1,180	318	132
5	115	111	122	143	175	470	530	1,730	2,740	1,180	354	132
6	110	111	135	138	175	428	535	1.520	2,860	1,100	377	134
7	108	111	133	159	189	392	535	1,420	2,860	1,020	390	140
8	107	111	104	192	178	370	615	1,420	2,740	1,060	341	153
9	106	117	91	203	178	361	700	1,470	2,300	1,060	305	170
10	105	113	165	273	231	366	712	1,730	1,900	985	275	151
11	104	115	596	186	253	379	760	1,840	1,780	950	292	146
12	104	120	1,260	182	293	500	955	2,000	1,780	887	288	143
13	103	117	760	175	273	820	1,060	2,360	1,900	950	246	134
14	103	135	576	182	257	885	990	2,480	1,950	866	242	129
15	103	138	500	228	238	760	1,060	2,740	2,000	830	230	121
16	106	130	446	238	234	1,260	1,300	2,930	2.180	866	226	119
17	130	130	406	234	192	1,220	1,780	2,930	2,360	768	226	116
18	160	130	370	228	210	920	2,800	2,600	1,900	732	222	114
19	150	127	334	220	228	760	2,800	2,300	1,520	690	211	112
20	150	146	301	203	203	654	2,360	2,120	1,420	632	204	116
21	130	217	293	206	210	576	2,240	2,060	1,730	594	193	109
22	120	182	281	210	200	525	2,420	2,240	1,780	561	186	104
23	116	169	261	196	196	500	2,240	2,540	1,730	534	200	104
24	115	210	249	169	203	475	2,420	2,930	1,780	495	197	104
25	115	206	217	146	210	446	2,800	3,270	1,950	460	176	104
26	113	203	238	149	234	428	2,670	3,760	2,000	450	180	104
27	113	182	261	165	281	442	2,420	3,900	1,900	425	167	102
28	111	175	245	192	352	500	2,420	4,050	1,950	400	160	100
29	109	165	231	186	-	505	2,860	3,900	1,900	400	154	100
30	111	133	228	159	-	485	3,620	3,550	1,780	377	146	107
31	122	-	203	189	-	451	-	3,000	-	354	146	-

Discharge, in second-feet, of Imnaha River at Imnaha, Oreg., 1937-39--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	116	204	173	137	109	124	793	1,230	780	359	124	84
2	119	193	173	134	90	134	800	1,280	708	354	121	84
3	176	193	167	140	96	132	845	1,370	690	355	116	82
4	167	193	157	134	134	132	894	1,370	714	390	116	79
5	154	186	157	137	140	104	832	1,230	644	380	116	77
6	154	164	154	126	140	132	732	1,100	605	340	114	77
7	146	160	151	104	119	124	666	1,020	561	314	116	80
8	140	176	157	132	109	132	644	985	522	301	114	80
9	137	170	167	140	77	126	649	985	528	288	109	80
10	137	167	173	132	82	126	622	950	517	271	109	79
11	151	170	164	126	126	129	616	915	506	266	102	79
12	170	132	100	126	151	157	649	901	506	262	98	84
13	151	160	120	124	134	193	605	894	528	250	102	100
14	146	176	190	124	134	170	572	915	550	236	100	114
15	167	173	300	124	134	176	561	1,020	556	226	96	100
16	180	176	250	124	107	180	550	1,100	556	208	92	92
17	173	186	176	121	104	215	578	1,100	495	197	84	86
18	170	173	160	119	126	372	627	985	465	186	80	84
19	170	170	180	119	132	594	720	1,060	460	187	80	88
20	173	173	140	109	109	859	793	908	460	167	82	86
21	173	148	160	94	94	1,060	887	826	440	170	82	80
22	173	100	148	72	109	1,140	985	793	440	170	79	82
23	170	64	160	102	132	1,180	1,020	732	450	154	82	80
24	167	100	160	109	134	1,180	985	666	430	148	80	80
25	167	150	154	121	134	1,230	915	632	395	140	80	80
26	164	140	109	109	132	1,140	832	644	382	134	80	79
27	160	140	112	146	116	1,020	838	714	350	129	80	77
28	160	176	151	143	137	950	950	793	341	129	79	77
29	160	208	148	137	-	887	1,320	915	350	146	80	75
30	222	193	146	119	-	819	1,370	1,020	364	134	82	75
31	215	-	140	96	-	774	-	915	-	132	82	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1937	3,587	160	88	116	7,110
November	4,258	210	111	142	8,450
December	9,589	1,260	91	309	19,020
Calendar year 1937	120,146	1,560	35	329	238,300
January 1938	5,775	238	127	186	11,450
February	6,119	352	169	219	12,140
March	17,793	1,260	361	574	35,290
April	47,345	3,620	410	1,578	93,910
May	80,650	4,200	1,420	2,602	160,000
June	63,700	2,860	1,420	2,123	126,300
July	25,166	1,620	354	812	49,920
August	7,605	390	146	245	15,080
September	3,759	183	100	125	7,460
Water year 1937-38	275,346	4,200	88	754	546,100
October 1938	5,028	222	116	162	9,970
November	4,914	208	64	164	9,750
December	4,997	300	100	161	9,910
Calendar year 1938	272,851	4,200	64	748	541,200
January 1939	3,780	146	72	122	7,500
February	3,341	161	77	119	6,630
March	15,691	1,230	104	506	31,120
April	23,850	1,370	550	795	47,310
May	29,968	1,370	632	967	59,440
June	15,293	780	341	510	30,330
July	7,121	390	129	230	14,120
August	2,957	124	79	95.4	5,870
September	2,500	114	75	83.3	4,960
Water year 1938-39	119,440	1,370	64	327	236,900

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 1½ miles northeast of Stanley. Zero of gage is 6,189.24 feet above mean sea level (unadjusted).

Drainage area.- 535 square miles.

Records available.- July 1925 to September 1939.

Average discharge.- 14 years, 561 second-feet.

Extremes.- Maximum discharge during year, 1,580 second-feet May 19 (gage height, 2.28 feet); minimum discharge recorded, 199 second-feet Sept. 6, 7 (gage height, 0.73 foot). 1925-39: Maximum discharge, 5,020 second-feet June 27, 1927 (gage height, 4.41 feet); minimum, 100 second-feet (estimated) Nov. 20-30, 1929.

Remarks.- Records good except those for period of missing gage heights or ice effect, Dec. 20 to Apr. 14, which were computed on basis of weather records, occasional staff-gage readings, and records for other stations in Salmon River Basin and are fair. Small diversions above station for irrigation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	335	429	318				480	1,420	1,230	525	254	216
2	353	429	324				520	1,410	1,130	517	249	220
3	403	423	329				600	1,440	1,030	509	245	213
4	370	480	335				650	1,480	990	533	245	213
5	377	423	341				600	1,540	969	573	241	213
6	396	370	341				500	1,480	887	557	237	202
7	396	370	341				525	1,410	808	517	228	202
8	410	396	335			260	550	1,360	750	487	224	206
9	416	396	335				580	1,320	769	465	220	202
10	403	390	312				550	1,310	713	465	216	206
11	451	353	307				540	1,300	685	472	220	213
12	465	347	277				550	1,270	676	451	213	249
13	429	370	267				520	1,240	685	443	210	302
14	423	364	267				509	1,240	704	443	206	262
15	494	383	277				565	1,280	732	410	206	258
16	517	383	302			270	565	1,350	828	383	202	262
17	465	390	292			270	589	1,470	779	364	202	258
18	443	377	277			270	659	1,520	732	341	206	258
19	429	377	287			280	722	1,560	695	324	206	254
20	423	390	280			280	779	1,430	659	302	202	249
21	423	335	307			300	828	1,280	624	292	210	254
22	416	312	300			320	887	1,170	573	287	206	254
23	410	307	310			353	908	1,110	549	282	206	249
24	403	341	310			380	887	1,040	549	272	213	249
25	403	329	290			400	828	949	541	267	216	245
26	396	307	280			410	798	908	533	262	216	245
27	403	307	290			410	818	887	525	258	220	241
28	396	318	300			390	887	938	517	258	228	241
29	403	329	307			400	1,020	1,040	509	258	224	241
30	458	324	300			403	1,280	1,210	525	258	224	241
31	436	-	290			420	-	1,300	-	267	216	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	12,945	517	335	418	0 781	0.90	25,680
November	11,049	480	307	368	.688	.77	21,920
December	9,428	341	267	304	.568	.65	18,700
Calendar year 1938	283,202	3,700	-	776	1.45	19.70	561,800
January	8,680	-	-	280	.523	.60	17,220
February	7,560	-	-	270	.505	.53	15,000
March	9,456	420	-	305	.570	.66	18,760
April	20,694	1,280	480	690	1.29	1.44	41,050
May	39,662	1,560	887	1,279	2.39	2.76	78,670
June	21,896	1,230	509	730	1.36	1.52	43,430
July	12,042	573	268	388	.725	.84	23,880
August	6,811	254	202	220	.411	.47	13,510
September	7,118	302	202	237	.443	.49	14,120
Water year 1938-39	167,341	1,560	202	458	.856	11.63	331,900

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 1939.

Average discharge.- 16 years (1922-24, 1925-39), 827 second-feet.

Extremes.- Maximum discharge during year, 2,620 second-feet May 5 (gage height, 5.39 feet); minimum, 265 second-feet Sept. 11 (gage height, 1.91 feet).
1921-39: Maximum discharge, 8,000 second-feet (estimated) June 27, 1927; minimum, 160 second-feet (estimated) Nov. 25-30, 1929.

Remarks.- Records good. Discharge for periods of missing gage heights, Nov. 27 to Dec. 1, Dec. 3-5, computed on basis of records for stations at Stanley and near Challis. Discharge for Dec. 2 based on staff-gage reading. No diversions above station for irrigation except those above Stanley.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	475	571	475	425	376	348	755	2,330	1,820	785	376	288
2	516	566	475	430	352	367	815	2,330	1,660	755	362	288
3	588	549	480	430	386	367	905	2,420	1,550	755	352	284
4	532	626	485	425	386	362	998	2,520	1,470	785	352	284
5	522	532	485	420	381	344	935	2,620	1,440	845	362	288
6	549	465	485	415	376	357	785	2,420	1,360	815	344	280
7	544	475	495	391	391	357	815	2,240	1,260	755	339	276
8	544	554	500	410	400	352	845	2,150	1,160	714	330	276
9	560	554	490	425	371	357	875	2,150	1,190	676	321	276
10	538	532	430	440	391	357	815	2,150	1,130	664	321	272
11	593	460	400	430	391	357	815	2,150	1,060	670	316	284
12	648	440	362	405	400	362	845	2,100	1,060	648	308	348
13	582	532	362	395	395	376	785	2,020	1,060	652	300	475
14	560	500	367	376	395	362	755	2,020	1,100	642	296	376
15	648	516	405	400	381	371	845	2,100	1,130	593	292	357
16	725	527	430	395	344	376	875	2,280	1,220	566	288	362
17	632	522	410	395	381	381	905	2,380	1,160	538	288	352
18	598	505	396	400	395	391	1,030	2,420	1,100	510	288	352
19	582	485	405	395	400	405	1,160	2,380	1,030	485	288	344
20	571	522	391	367	376	415	1,260	2,200	1,030	455	284	339
21	566	415	400	334	371	440	1,400	1,940	965	450	288	339
22	549	395	395	326	376	480	1,510	1,780	905	435	284	339
23	544	405	420	344	381	522	1,510	1,660	875	425	280	334
24	544	455	415	334	371	560	1,440	1,550	875	410	288	330
25	544	445	400	357	376	615	1,330	1,440	845	400	296	334
26	532	425	376	362	367	637	1,260	1,360	845	386	296	330
27	532	400	395	395	348	626	1,300	1,400	815	376	300	326
28	527	425	420	386	371	610	1,470	1,470	785	386	304	326
29	532	450	420	381	-	632	1,780	1,660	785	386	300	321
30	598	475	415	381	-	626	2,200	1,900	785	386	296	321
31	582	-	400	357	-	659	-	1,980	-	400	288	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	17,557	725	475	566	0.673	0.78	34,820
November	14,703	626	395	490	.583	.65	29,160
December	13,174	500	362	425	.505	.58	26,130
Calendar year 1938	424,895	6,610	320	1,164	1.38	18.79	842,800
January	12,126	440	326	391	.465	.54	24,050
February	10,629	400	344	380	.452	.47	21,080
March	13,771	659	344	444	.528	.61	27,310
April	33,018	2,200	755	1,101	1.31	1.46	65,490
May	63,520	2,620	1,360	2,049	2.44	2.81	126,000
June	33,470	1,820	785	1,116	1.33	1.48	66,390
July	17,728	845	376	572	.680	.78	35,160
August	9,627	376	280	311	.370	.43	19,090
September	9,701	475	272	323	.384	.43	19,240
Water year 1938-39	249,024	2,620	272	682	.811	11.02	493,900

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. Zero of gage is 5,163.99 feet above mean sea level (general adjustment of 1929).

Drainage area.- 1,740 square miles.

Records available.- October 1928 to September 1939.

Average discharge.- 11 years, 1,177 second-feet.

Extremes.- Maximum discharge during year, 3,510 second-feet May 5 (gage height, 5.04 feet); minimum, 379 second-feet Feb. 18 (gage height, 1.54 feet).
1929-39: Maximum discharge, 9,790 second-feet June 2, 1936 (gage height, 7.83 feet); minimum, 238 second-feet Dec. 10, 1932 (gage height, 0.89 foot).

Remarks.- Records good. Discharge for period of missing gage heights, Mar. 3-8, computed on basis of records for stations at Salmon and near Clayton. Some diversions above station for irrigation in addition to those above Stanley.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 6 to Sept. 30)

1.5	365	2.4	790	3.3	1,390	4.2	2,310	5.1	3,590
1.8	485	2.7	965	3.6	1,660	4.5	2,690		
2.1	630	3.0	1,160	3.9	1,970	4.8	3,120		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	790	905	762	680	545	540	1,060	3,040	2,690	1,310	630	458
2	845	905	762	708	494	580	1,120	3,040	2,430	1,270	605	454
3	935	875	762	680	530	580	1,200	3,200	2,310	1,230	605	458
4	935	935	762	655	605	560	1,310	3,350	2,190	1,230	605	444
5	875	875	735	655	605	550	1,270	3,430	2,140	1,350	630	444
6	905	790	735	630	605	550	1,120	3,270	2,020	1,350	605	440
7	905	708	735	555	605	560	1,120	3,040	1,920	1,230	580	424
8	905	845	735	580	605	580	1,120	2,900	1,760	1,160	570	432
9	935	875	735	655	555	605	1,200	2,900	1,710	1,120	560	432
10	905	845	708	680	508	605	1,120	2,900	1,660	1,120	555	424
11	905	735	630	680	605	580	1,120	2,900	1,620	1,120	545	424
12	995	655	498	655	630	580	1,120	2,830	1,620	1,120	521	480
13	935	762	480	605	605	605	1,090	2,760	1,620	1,090	508	680
14	905	790	512	605	630	575	1,060	2,760	1,710	1,090	503	655
15	965	818	605	630	630	580	1,090	2,900	1,710	1,020	494	605
16	1,090	818	680	630	535	605	1,160	3,040	1,810	965	490	580
17	1,020	818	655	605	540	655	1,160	3,350	1,760	935	485	575
18	965	790	605	655	630	655	1,270	3,350	1,660	875	485	555
19	935	790	655	630	605	708	1,440	3,350	1,570	845	480	545
20	935	790	630	570	560	735	1,570	3,040	1,570	818	476	530
21	935	708	630	521	521	762	1,760	2,760	1,520	790	472	526
22	905	570	655	480	555	790	1,920	2,560	1,440	762	462	516
23	875	605	680	550	605	845	2,020	2,370	1,390	735	462	516
24	875	680	735	560	605	905	1,970	2,310	1,390	708	462	508
25	875	735	655	605	605	965	1,810	2,080	1,390	680	462	498
26	875	655	580	580	570	995	1,660	1,970	1,310	680	472	498
27	845	655	605	655	530	995	1,660	1,970	1,310	680	472	490
28	845	655	680	655	575	935	1,860	2,080	1,270	655	476	490
29	845	708	680	605	-	965	2,190	2,430	1,270	655	490	485
30	905	762	680	630	-	965	2,760	2,830	1,270	655	485	490
31	935	-	630	565	-	965	-	2,970	-	655	472	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	28,300	1,090	790	913	0.525	0.61	56,130
November	23,057	935	570	769	.442	.49	45,730
December	20,591	762	480	664	.382	.44	40,840
Calendar year 1938	634,759	9,010	440	1,739	.999	13.56	1,259,000
January	19,149	708	480	618	.355	.41	37,980
February	16,193	630	494	578	.332	.35	32,120
March	22,075	995	540	712	.409	.47	43,790
April	43,330	2,760	1,060	1,444	.830	.93	85,940
May	87,680	3,430	1,970	2,828	1.63	1.88	173,900
June	51,040	2,690	1,270	1,701	.978	1.09	101,200
July	29,903	1,350	655	965	.555	.64	59,310
August	16,119	630	462	520	.299	.34	31,970
September	15,056	680	424	502	.289	.32	29,860
Water year 1938-39	372,493	3,430	424	1,021	.587	7.97	738,800

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 1939.

Average discharge.- 22 years (1913-18, 1920-39), 1,733 second-feet.

Extremes.- Maximum discharge during year, 3,890 second-feet May 19 (gage height, 4.31 feet); minimum discharge observed, 587 second-feet Aug. 19 (gage height, 2.19 feet). 1912-16, 1919-39: 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. Discharge for period of missing gage heights, Aug. 19-27, computed on basis of weather records and records for station near Challis. Diversion above station for irrigation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	998	1,450	1,260	1,020	902	842	1,420	3,120	3,230	1,550	741	690
2	1,070	1,420	1,230	1,080	813	822	1,520	3,340	2,920	1,560	724	675
3	1,140	1,410	1,220	1,080	775	860	1,570	3,340	2,720	1,550	707	675
4	1,190	1,390	1,200	1,020	813	860	1,640	3,550	2,630	1,560	707	682
5	1,190	1,490	1,180	1,030	912	822	1,740	3,660	2,630	1,630	732	675
6	1,150	1,360	1,180	1,010	944	813	1,690	3,660	2,630	1,700	732	668
7	1,180	1,270	1,150	975	964	813	1,560	3,440	2,450	1,660	716	660
8	1,200	1,260	1,160	842	922	842	1,560	3,230	2,360	1,560	707	660
9	1,230	1,380	1,160	851	880	832	1,590	3,020	2,180	1,490	707	645
10	1,270	1,380	1,140	975	832	860	1,640	3,120	2,150	1,460	707	638
11	1,260	1,350	1,080	1,010	766	902	1,570	3,120	2,050	1,450	707	645
12	1,280	1,200	986	1,070	933	912	1,590	3,120	1,990	1,490	690	660
13	1,350	1,150	804	986	986	964	1,590	3,020	1,970	1,450	675	784
14	1,310	1,270	724	922	964	922	1,530	2,920	1,960	1,360	668	912
15	1,360	1,280	758	870	933	891	1,490	3,020	2,020	1,350	652	880
16	1,530	1,310	912	933	902	902	1,500	3,230	2,050	1,270	646	842
17	1,600	1,320	1,090	964	842	975	1,480	3,550	2,170	1,220	645	842
18	1,530	1,310	1,090	912	851	1,100	1,520	3,780	2,130	1,180	645	851
19	1,480	1,270	912	954	944	1,180	1,620	3,780	2,040	1,120	620	822
20	1,450	1,260	964	933	891	1,260	1,760	3,660	2,020	1,040	610	804
21	1,450	1,260	998	832	832	1,280	1,910	3,340	2,020	998	600	794
22	1,430	1,130	998	784	804	1,280	2,080	3,120	1,920	964	600	794
23	1,420	986	1,090	741	842	1,270	2,240	3,020	1,830	933	600	804
24	1,390	1,030	1,040	794	891	1,310	2,270	2,920	1,780	912	600	784
25	1,380	1,130	1,230	870	891	1,360	2,180	2,720	1,780	870	600	784
26	1,380	1,190	1,090	880	870	1,480	2,020	2,540	1,720	832	610	784
27	1,360	1,120	902	933	851	1,550	1,910	2,450	1,640	804	620	775
28	1,350	1,090	954	986	813	1,450	1,890	2,450	1,620	766	660	766
29	1,340	1,130	1,100	1,040	-	1,380	2,080	2,630	1,560	750	690	766
30	1,350	1,200	1,100	944	-	1,380	2,540	2,920	1,560	750	675	766
31	1,430	-	1,090	944	-	1,380	-	3,230	-	741	698	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	41,048	1,600	998	1,324	81,420
November	37,796	1,490	986	1,260	74,970
December	32,792	1,260	724	1,058	65,040
Calendar year 1938	774,833	9,600	660	2,123	1,537,000
January	29,185	1,080	741	941	57,890
February	24,563	986	766	877	48,720
March	33,494	1,550	813	1,080	66,430
April	52,700	2,540	1,420	1,757	104,500
May	98,020	3,780	2,450	3,162	194,400
June	66,730	3,230	1,560	2,124	126,400
July	37,970	1,700	741	1,225	75,310
August	20,690	741	600	667	41,040
September	22,527	912	638	751	44,680
Water year 1938-39	494,515	3,780	600	1,355	980,800

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 and October 1919 to September 1939.

Average discharge.- 27 years (1910-17, 1919-39), 10,230 second-feet.

Extremes.- Maximum discharge during year, 41,000 second-feet May 5 (gage height, 23.12 feet); minimum, 2,290 second-feet Dec. 15 (gage height, 11.16 feet).

1910-17, 1919-39: Maximum discharge observed, 88,800 second-feet June 9, 1921 (gage height, 31.2 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. Amount of water diverted above station for irrigation is negligible.

Rating table, water year 1938-39 (gage height, in feet, and discharge, second-feet)

11.1	2,240	13.2	5,440	15.6	10,800	18.0	18,130	21.0	30,480
11.4	2,560	13.6	6,220	16.0	11,870	18.5	19,980	21.5	32,880
11.7	2,930	14.0	7,040	16.4	13,000	19.0	21,880	22.0	35,360
12.0	3,360	14.4	7,900	16.8	14,180	19.5	23,880	22.5	37,900
12.4	4,000	14.8	8,810	17.2	15,410	20.0	25,980	23.0	40,500
12.8	4,700	15.2	9,780	17.6	16,730	20.5	28,180		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,920	5,060	4,260	4,080	3,670	3,360	9,780	36,900	23,900	9,050	3,830	2,740
2	4,000	5,250	4,880	4,080	3,440	3,280	10,800	37,400	21,500	8,810	3,750	2,800
3	4,340	5,250	4,790	4,080	3,140	3,360	11,600	38,900	20,000	8,580	3,590	2,800
4	4,430	5,060	4,700	4,170	3,000	3,440	12,400	40,500	18,900	8,580	3,510	2,740
5	4,700	5,060	4,610	4,080	3,210	3,440	13,000	40,500	17,800	9,050	3,510	2,800
6	4,700	5,060	4,520	4,000	3,360	3,360	12,200	38,400	17,100	9,780	3,510	2,800
7	4,700	4,790	4,430	3,920	3,510	3,280	11,100	34,900	16,400	9,530	3,440	2,800
8	4,520	4,430	4,520	3,670	3,590	3,280	10,300	31,900	15,400	8,810	3,360	2,800
9	4,340	4,610	4,880	3,440	3,360	3,360	10,000	31,000	15,100	8,120	3,360	2,800
10	4,340	4,790	4,880	3,360	3,000	3,440	10,000	30,500	14,800	7,460	3,280	2,740
11	4,520	4,790	4,610	3,670	2,860	3,510	9,780	30,500	14,200	7,250	3,280	2,740
12	4,970	4,610	4,080	3,830	3,000	3,670	9,780	30,000	13,600	7,040	3,280	2,740
13	5,440	4,260	3,280	3,920	3,360	4,000	9,530	29,600	13,300	6,830	3,210	2,930
14	5,060	4,170	2,500	3,920	3,670	4,340	9,050	29,600	13,000	6,620	3,140	3,670
15	4,970	4,430	2,450	3,670	3,590	4,170	8,810	31,000	12,700	6,420	3,000	4,340
16	5,060	4,700	2,930	3,590	3,590	3,920	8,810	33,400	13,300	6,020	3,000	4,000
17	5,440	4,790	3,670	3,670	3,510	3,830	9,050	34,900	13,600	5,820	2,930	3,670
18	5,440	4,880	3,750	3,670	3,280	4,170	9,530	34,900	13,300	5,630	2,860	3,440
19	5,250	4,700	3,830	3,670	3,360	4,970	10,800	34,900	13,600	5,440	2,800	3,360
20	5,060	4,520	3,440	3,590	3,360	6,020	12,400	31,900	13,900	5,250	2,800	3,210
21	4,970	4,430	3,360	3,510	3,440	6,620	14,500	28,200	13,900	5,060	2,740	3,140
22	4,880	4,260	3,440	3,140	3,280	7,250	17,400	26,000	13,300	4,880	2,740	3,070
23	4,880	3,750	3,670	2,800	3,140	7,900	19,600	24,300	12,700	4,700	2,680	3,070
24	4,790	3,280	3,830	2,740	3,140	8,580	20,400	23,100	11,900	4,610	2,680	3,000
25	4,700	3,210	4,170	3,000	3,360	9,050	20,000	21,500	11,300	4,520	2,620	2,930
26	4,700	3,510	3,920	3,140	3,510	10,000	18,100	20,700	11,100	4,430	2,680	2,930
27	4,700	3,440	3,750	3,360	3,510	10,500	17,400	21,100	10,500	4,260	2,680	2,860
28	4,700	3,280	3,360	3,440	3,440	10,500	19,200	21,900	10,000	4,170	2,740	2,860
29	4,700	3,440	3,510	3,750	-	10,000	24,300	23,900	9,780	4,170	2,740	2,800
30	4,700	3,590	3,830	3,830	-	9,530	31,400	26,000	9,290	4,000	2,800	2,800
31	4,880	-	4,000	3,830	-	9,290	-	26,000	-	3,920	2,800	

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	147,800	5,440	3,920	4,768	293,200
November	131,400	5,250	3,210	4,380	260,600
December	121,850	4,880	2,450	3,931	241,700
Calendar year 1938	4,554,700	74,300	2,450	12,480	9,034,000
January	112,620	4,170	2,740	3,633	223,400
February	93,680	3,670	2,860	3,346	185,800
March	175,420	10,500	3,280	5,659	347,900
April	411,020	31,400	8,810	13,700	815,200
May	944,300	40,500	20,700	30,460	1,873,000
June	429,170	23,900	9,290	14,310	851,200
July	198,810	9,780	3,920	6,413	394,300
August	95,340	3,830	2,620	3,075	189,100
September	91,380	4,340	2,740	3,046	181,200
Water year 1938-39	2,952,790	40,500	2,450	8,090	5,857,000

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 1939.

Average discharge.- 19 years (1911-13, 1922-39), 176 second-feet.

Extremes.- Maximum discharge observed during year, 457 second-feet May 1-4; maximum gage height observed, 2.22 feet May 1; minimum discharge observed, 41 second-feet Aug. 15; minimum gage height, 0.86 foot Aug. 15, 22.

1910-13, 1921-39: Maximum discharge observed, 1,850 second-feet May 29, 1921 (gage height, 4.4 feet); minimum, 40 second-feet (estimated) Nov. 17-30, 1929, and Dec. 8-13, 1932.

Remarks.- Records good except those for periods of ice effect or missing gage heights, Jan. 6-12, 21-25, Apr. 21-23, which were computed on basis of weather records and records for Salmon River near Challis and are fair. Gage read twice to four times weekly except during spring run-off, when it was read once daily. Diversions above station for irrigation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*83	*106	88	75	73	*67	147	457	336	*147	*70	54
2	*87	*108	*91	*76	*76	68	*156	*457	*320	142	68	*56
3	92	111	*94	77	79	*67	166	457	*304	*155	*67	*58
4	*88	*102	*97	*74	*77	*66	*174	457	*287	*169	66	60
5	*84	*93	100	72	*75	65	182	*444	271	182	*64	*55
6	*81	84	*96	65	73	*63	*167	432	232	*169	*62	50
7	77	*87	92	60	*70	61	152	*407	232	*155	60	*53
8	*84	90	*97	60	68	*64	*156	382	*232	142	*56	56
9	92	*95	*102	65	*68	68	*159	*382	232	*134	52	*56
10	96	100	107	70	68	*66	163	382	197	127	*51	56
11	*98	*101	*92	75	*68	*65	*172	*374	197	*128	50	*68
12	100	*101	77	75	68	63	182	*366	*206	129	*46	81
13	*101	102	*84	77	*69	*68	*182	358	214	*123	43	*82
14	102	*102	92	*74	70	73	182	358	214	117	*42	83
15	*109	102	*98	72	*70	*75	182	*370	214	106	41	*79
16	*115	*98	104	*72	70	77	214	382	*214	*96	*43	*76
17	122	94	*92	72	*71	*72	*214	*394	214	*85	*44	72
18	*118	*95	81	*73	*72	*68	214	406	214	75	46	*71
19	*115	*97	*80	*74	73	63	*286	*383	*198	*72	*46	70
20	111	98	79	75	*74	*68	358	*359	*182	*69	46	*69
21	*106	*90	*77	70	75	73	375	336	166	66	*44	68
22	102	83	75	60	*73	*76	400	*324	*156	*67	42	*67
23	*98	*79	*72	65	*70	79	400	313	147	68	*45	*66
24	94	75	*69	70	68	*86	292	*282	*150	*66	*47	65
25	*95	*79	*66	75	*66	*93	*272	252	*152	65	50	*66
26	96	*82	63	77	65	*99	252	*265	155	*63	*53	66
27	*97	86	*69	*75	*66	*106	*262	*279	*154	61	*57	*66
28	*97	*84	75	*74	66	113	271	292	152	*64	60	65
29	98	83	*74	72	-	*118	*352	*325	*152	*67	*58	*65
30	*101	*86	73	*72	-	122	432	358	152	*70	56	*66
31	*103	-	*74	*73	-	*134	-	*347	-	73	*55	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	3,042	122	77	98.1	0.557	0.64	6,030
November	2,793	111	75	93.1	.529	.59	5,540
December	2,630	107	63	84.8	.482	.56	5,220
Calendar year 1938	86,267	1,090	63	236	1.34	18.23	171,100
January	2,216	77	60	71.5	.406	.47	4,400
February	1,981	79	65	70.8	.402	.42	3,930
March	2,446	134	61	78.9	.448	.52	4,850
April	7,116	432	147	237	1.35	1.51	14,110
May	11,380	457	252	367	2.09	2.41	22,570
June	6,246	336	147	208	1.18	1.32	12,390
July	3,252	182	61	105	.597	.69	6,450
August	1,630	70	41	52.6	.299	.34	3,230
September	1,965	83	50	65.5	.372	.42	3,900
Water year 1938-39	46,697	457	41	128	.727	9.89	92,620

*Interpolated.

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 1939.

Average discharge.- 16 years (1922-24, 1925-39), 176 second-feet.

Extremes.- Maximum discharge recorded during year, 872 second-feet May 4 (gage height, 4.23 feet; minimum recorded, 42 second-feet Nov. 6 (gage height, 0.97 foot), but may have been less sometime during winter.

1921-39: Maximum discharge, 3,360 second-feet June 12, 1921 (gage height, 6.79 feet, former site and datum); minimum, 10 second-feet (estimated) Dec. 5, 6, 1927.

Remarks.- Records good except those for periods of ice effect or missing gage heights, Nov. 4, 8-20, Nov. 22 to Apr. 14, Sept. 3-30, which were computed on basis of two discharge measurements, weather records, and records for other stations on Salmon River, and are fair. Discharge for May 24, 25, Aug. 27-29 interpolated. No diversion or regulation above station.

Rating tables, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 21				Apr. 14 to Sept. 30							
0.9	38.5	1.5	78	1.2	48.5	2.1	153	3.0	370	3.9	690
1.2	55	1.8	115	1.5	71	2.4	214	3.3	460	4.3	900
				1.8	106	2.7	286	3.6	565		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	76	80					120	690	430	168	64	52
2	86	77					140	690	385	162	63	51
3	98	76			*52		160	740	367	155	62	50
4	82	80					180	790	358	161	62	50
5	79	62					160	818	350	162	66	50
6	80	55	†50				140	715	330	155	63	50
7	81	64					150	645	305	143	62	50
8	79	75					150	605	284	133	61	50
9	81	75				50	160	625	281	125	61	50
10	77	70					150	645	271	116	61	50
11	86	65					150	668	266	114	60	50
12	92	55					160	625	268	112	59	60
13	84	65					150	605	276	107	58	80
14	80	70					150	605	281	112	57	75
15	95	70					168	645	278	103	56	70
16	108	70					184	715	284	94	56	65
17	95	70					205	715	259	91	56	65
18	87	70				55	251	690	244	86	55	65
19	86	70					305	625	237	79	54	60
20	86	70					347	530	235	71	54	60
21	84	62					400	460	228	69	54	60
22	81	50					445	430	212	68	54	60
23	79	55				80	445	400	210	68	54	55
24	79	60					415	388	207	68	54	55
25	80	65					367	376	203	67	54	55
26	78	60					333	364	194	67	55	55
27	77	60					344	385	186	66	55	55
28	77	60				100	430	430	178	66	54	55
29	79	60					548	495	174	66	53	55
30	84	60					668	512	174	66	53	55
31	81	-					-	478	-	67	52	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	2,597	108	76	83.8	0.430	0.50	5,150
November	1,981	80	50	66.0	.338	.38	3,930
December	1,860	-	-	60.0	.308	.36	3,690
Calendar year 1938	94,337	2,060	-	258	1.32	18.00	187,100
January	1,705	-	-	55.0	.282	.33	3,380
February	1,400	-	-	50.0	.256	.27	2,780
March	2,025	-	-	65.3	.335	.39	4,020
April	7,975	668	120	266	1.36	1.52	15,820
May	18,104	818	364	584	2.99	3.45	35,910
June	7,955	430	174	265	1.36	1.52	15,780
July	3,187	168	66	103	.528	.61	6,320
August	1,782	66	52	57.5	.295	.34	3,530
September	1,713	80	50	57.1	.293	.33	3,400
Water year 1938-39	52,284	818	-	143	.733	10.00	103,700

*Discharge measurement.
†Field estimate.

East Fork of Salmon River near Clayton, Idaho

Location.- Staff gage, lat. 44°13', long. 114°17', in NW¼ sec. 1, T. 10 N., R. 18 E., at highway bridge, 4 miles upstream from confluence with Salmon River and 7 miles southeast of Clayton.

Drainage area.- 497 square miles.

Records available.- September 1928 to September 1939 (discontinued).

Average discharge.- 11 years, 198 second-feet.

Extremes.- Maximum and minimum discharge not determined.
1928-39: Maximum discharge observed, 3,580 second-feet June 6, 1938 (gage height, 5.0 feet); minimum observed 29 second-feet Dec. 3, 1928; minimum gage height observed, 0.38 foot Nov. 23, 1931.

Remarks.- Records fair. Daily discharge not determined because of unreliable gage readings. Monthly discharge for entire water year computed on basis of inflow to Salmon River between Clayton and Challis and discharge measurements. Several small diversions for irrigation above station.

Discharge measurements, in second-feet, water year October 1938 to September 1939

Dec. 2	133	Apr. 16	117	July 11	294
Feb. 4	69	May 26	271	Aug. 29	83

Monthly discharge, water year October 1938 to September 1939

Month	Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet
October	150	0.302	0.35	9,220
November	130	.262	.29	7,740
December	110	.221	.25	6,760
Calendar year 1938	391	.787	10.67	282,800
January	100	.201	.23	6,150
February	85.0	.171	.18	4,720
March	110	.221	.25	6,760
April	140	.282	.31	8,330
May	340	.684	.79	20,910
June	310	.624	.70	18,450
July	250	.503	.58	15,370
August	110	.221	.25	6,760
September	75.0	.151	.17	4,460
Water year 1938-39	160	.322	4.35	115,600

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 Salmon River, and 10 miles northwest of May.

Records available.-October 1929 to September 1939.

Extremes.- Maximum discharge observed during year, 258 second-feet Nov. 18-23; maximum gage height, 2.58 feet Nov. 8, 19-21; minimum discharge observed, 78 second-feet May 11 (gage height, 1.63 feet).

1930-39: Maximum discharge observed, 279 second-feet Dec. 10-14, 16, 17, 1929; minimum observed, 75 second-feet Apr. 28, 1934.

Remarks.- Records fair except those for period of missing gage heights, Oct. 1 to Nov. 1, which were estimated and are poor. Discharge interpolated Dec. 5, 6, July 13. Gage read once daily. Many diversions above station for irrigation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		220	223	212	188	200	234	115	115	124	115	155
2		223	223	212	188	200	234	113	115	124	124	155
3		223	223	212	188	200	234	113	115	134	124	155
4		234	234	212	188	200	223	110	124	144	115	155
5		234	230	212	188	200	223	89	144	155	124	155
6		246	227	212	188	200	223	91	134	144	124	155
7		246	223	212	188	200	223	91	134	144	124	155
8		246	223	212	188	200	223	89	134	144	124	155
9		246	223	212	188	212	212	86	134	144	124	155
10		246	223	200	188	212	212	83	134	144	124	155
11		246	223	200	188	212	212	78	134	144	124	166
12		234	223	200	188	212	212	80	134	144	124	188
13		246	212	200	200	212	212	86	124	144	124	188
14		246	212	200	188	212	212	87	124	144	124	177
15		246	212	200	200	212	212	87	124	144	124	177
16		246	212	200	200	212	212	92	134	144	124	166
17		246	212	200	200	223	200	97	134	134	124	177
18		258	212	200	200	234	200	99	134	134	124	177
19		258	212	200	200	246	200	104	134	124	124	177
20		258	212	200	200	246	200	106	134	124	124	177
21		258	212	200	200	246	200	106	144	124	124	177
22		258	212	200	200	246	200	110	144	134	124	188
23		258	212	200	200	234	166	155	144	124	124	188
24		246	212	200	200	234	166	155	144	124	134	188
25		246	212	200	200	234	166	134	144	124	134	188
26		246	212	200	200	246	144	124	144	124	134	188
27		234	212	200	200	234	144	134	134	124	134	188
28		234	212	200	200	234	134	124	134	124	155	188
29		223	212	200	-	234	124	115	144	124	155	188
30		223	212	200	-	234	124	115	134	124	155	188
31		-	212	188	-	234	-	115	-	124	155	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,890	-	-	190	11,680
November	7,274	258	220	242	14,430
December	6,726	234	212	217	13,340
Calendar year 1938	64,247	258	84	176	127,400
January	6,296	212	188	203	12,490
February	5,444	200	188	194	10,800
March	6,855	246	200	221	13,600
April	5,881	234	124	196	11,660
May	3,283	155	78	106	6,510
June	4,003	144	115	133	7,940
July	4,155	155	124	134	8,240
August	3,990	155	115	129	7,910
September	5,189	188	155	173	10,290
Water year 1938-39	64,986	258	78	178	128,900

Lemhi River near Lemhi, Idaho

Location.- Staff gage, lat. 44°55', long. 113°37', in sec. 4, T. 18 N., R. 24 E., on log bridge at Langfitt ranch, 3½ miles downstream from Hayden Creek and 4½ miles north of Lemhi post office.

Records available.- November 1938 to August 1939 (discontinued).

Extremes.- Maximum discharge observed during period of record, 758 second-feet May 31 (gage height, 2.42 feet), from rating curve extended above 400 second-feet; minimum, 95 second-feet Aug. 27 (gage height, 1.41 feet).

Remarks.- Records good except those for periods of ice effect and missing gage heights, which are fair. Many diversions above station for irrigation of ranches. Gage read once daily.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	226	192	199	175	316	370	508	288		
2		-	218	192	*190	145	330	370	410	†290		
3		-	222	199	*180	199	302	370	350	†290		
4		-	212	192	159	175	316	390	330	†290		
5		-	208	192	*190	164	288	370	370	†295		
6		-	205	196	181	149	212	330	410	295		
7		-	212	175	170	175	252	288	350	-		
8		-	218	205	192	170	243	260	316	-		
9		-	205	192	186	170	243	243	330	-		
10		-	208	192	175	175	235	260	316	-		
11		-	199	192	*180	175	243	243	316	-		
12		-	205	192	*180	175	226	235	316	-		
13		235	*200	186	*180	186	215	218	330	-		
14		226	*200	183	170	175	212	218	350	-		
15		243	*200	186	181	170	205	226	316	-		
16		247	*200	192	159	175	199	243	330	-		
17		243	*200	186	*170	181	192	370	316	-		
18		243	*200	186	*170	252	199	350	316	-		
19		226	205	189	*170	430	205	370	302	-		
20		239	*200	149	*170	456	205	316	330	-		
21		192	*200	*180	164	482	205	274	390	-		
22		*200	181	*180	*170	430	212	288	390	-		
23		*200	202	*180	*170	390	218	508	430	-		
24		*200	205	*180	175	390	252	430	456	-		
25		205	199	186	175	410	243	330	370	-		
26		*200	192	*180	175	430	226	316	330	-		
27		*200	*190	170	159	410	218	370	302	-	‡95	
28		202	199	186	175	330	226	410	302	-		
29		205	192	192	-	288	252	560	302	-		
30		226	189	192	-	274	370	720	302	-		
31		-	192	186	-	260	-	758	-	-		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November 13-30	3,932	247	192	218	7,800
December	6,284	226	181	203	12,460
Calendar year	-	-	-	-	-
January	5,780	205	149	186	11,460
February	4,915	199	159	176	9,750
March	8,166	482	145	263	16,200
April	7,260	370	192	242	14,400
May	11,004	758	218	355	21,830
June	10,486	508	302	350	20,800
July 1-6	1,748	295	288	291	3,470
August	-	-	-	-	-
September	-	-	-	-	-
The period	-	-	-	-	118,200

*Stage-discharge relation affected by ice; discharge computed on basis of gage heights, observer's notes, weather records, and records for nearby streams.
†Gage height missing; discharge computed on basis of weather records, observer's notes, and records for nearby streams.
‡Discharge measurement.

Lemhi River at Salmon, Idaho

Location.- Staff gage, lat. 45°10', long. 113°51', in sec. 10, T. 21 N., R. 22 E., 250 feet downstream from highway bridge, 700 feet upstream from diversion gates of power canal, 1,000 feet upstream from Kirtly Creek, and 1 mile southeast of Salmon.

Records available.- August 1928 to September 1939.

Average discharge.- 11 years, 215 second-feet.

Extremes.- Maximum discharge observed during year, 1,140 second-feet Mar. 20 (gage height, 2.91 feet); minimum discharge not determined.
1928-39: Maximum discharge, about 2,400 second-feet June 3, 1936 (gage height, about 4.0 feet, from floodmarks), from rating curve extended above 1,200 second-feet; minimum, 14 second-feet July 22, 23, 1931, Aug. 30 to Sept. 3, 1937.

Remarks.- Records fair except those for period of missing gage heights, July 29 to Aug. 27, which were estimated and are poor. Many diversions above station for irrigation. Idaho Power Co. (formerly Salmon River Power & Light Co.) diverts water for power 700 feet downstream.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	*336	277	222	201	182	328	344	473	258		58
2	94	344	272	214	*201	175	328	344	473	248		58
3	*100	333	*270	214	201	*178	*322	344	440	248		*64
4	106	322	267	214	201	182	317	355	322	*290		69
5	*160	322	267	214	244	182	*317	355	408	333		66
6	214	322	*267	214	235	*186	317	*308	440	*310		69
7	197	322	267	201	226	190	317	262	408	286		69
8	258	*322	258	178	218	197	317	262	408	*282		66
9	*248	*322	*248	253	218	197	317	253	408	277		66
10	239	322	239	*236	*218	197	317	235	440	248		69
11	258	317	*210	218	218	205	296	186	408	*231		*69
12	*261	*317	182	218	218	214	282	178	396	214		69
13	*264	317	186	209	218	235	277	167	408	*211		120
14	267	296	209	218	235	*237	277	167	408	*208		*129
15	296	312	218	226	218	239	267	167	440	205	45	138
16	328	312	218	218	226	258	248	167	473	157		158
17	*330	*307	*194	218	*230	544	*242	222	473	150		163
18	*331	*301	171	209	235	349	*237	408	473	141		153
19	333	296	171	222	218	890	231	*440	473	123		143
20	333	291	*168	214	244	795	231	473	473	*118		138
21	333	*250	164	222	*231	473	239	508	473	112		134
22	333	209	201	214	218	508	244	*606	473	74		134
23	322	*231	253	205	*212	544	244	705	*440	78		104
24	322	253	272	214	205	508	*260	582	408	74		100
25	*322	*258	239	*214	205	473	277	*546	*384	*68		100
26	322	262	182	214	197	473	258	*509	361	62		108
27	*317	*267	222	*222	197	440	*246	473	328	*55		116
28	312	272	258	*231	190	440	235	*490	267	48	55	120
29	312	*272	*240	239	-	408	235	508	*264	45	54	125
30	*320	272	222	239	-	378	*290	508	*261	45	52	129
31	*328	-	231	222	-	355	-	*490	-	45	58	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	8,244	333	84	266	16,350
November	8,879	344	209	296	17,610
December	7,043	277	164	227	13,970
Calendar year 1938	103,486	1,260	48	284	205,300
January	6,766	253	178	218	13,420
February	6,078	244	190	217	12,060
March	10,832	890	175	349	21,480
April	8,313	328	231	277	16,490
May	11,562	705	167	373	22,930
June	12,304	473	261	410	24,400
July	5,244	333	45	169	10,400
August	1,434	58	-	46.3	2,840
September	3,104	163	58	103	6,160
Water year 1938-39	89,803	890	-	246	178,100

*Interpolated.

Texas Creek near Leadore, Idaho

Location.- Staff gage, lat. 44°36', long. 113°20', in sec. 26, T. 15 N., R. 26 E., on downstream side of county bridge, half a mile downstream from Nez Perce Creek, and 6 miles south of Leadore.

Records available.- November 1938 to July 1939.

Extremes.- Maximum discharge observed during period of record, 70 second-feet Mar. 24-27 from rating curve extended above 30 second-feet; maximum gage height observed, 2.62 feet Feb. 4, during period of ice effect; minimum discharge observed, 8 second-feet May 28 (gage height, 0.38 foot).

Remarks.- Records fair except those for periods of ice effect, Nov. 12 to Feb. 28, Mar. 6-9, which were estimated and are poor. Several diversions above station for irrigation. Gage read once daily.

Rating table, November 12 to July 6, 1939, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.3	5.5	0.6	23.5	0.9	59
.4	9.0	.7	34	1.0	73
.5	15.0	.8	46		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-		-	-	‡14	‡40	‡22	9	13		
2		-		-	-	14	44	22	‡9	‡13		
3		-		-	-	‡14	‡42	‡20	9	‡14		
4		-		-	-	15	41	17	10	‡14		
5		-		-	-	15	‡38	‡17	11	‡15		
6		-		-	-	15	36	17	‡11	15		
7		-		-	-	15	‡30	15	11	-		
8		-		-	-	15	24	‡15	‡11	-		
9		-		-	-	15	‡24	15	11	-		
10		-		-	-	14	‡24	‡12	11	-		
11		-		-	-	‡15	24	9	11	-		
12		25		-	-	‡17	‡23	‡9	‡11	-		
13		*26		-	-	18	22	9	11	-		
14				-	-	‡18	‡23	‡12	‡11	-		
15				-	-	18	24	14	‡11	-		
16				-	-	‡24	‡24	‡14	11	-		
17				-	-	‡30	24	14	‡10	-		
18				-	-	36	‡23	‡14	‡10	-		
19				-	-	‡36	22	14	9	-		
20				-	-	36	‡23	‡14	‡9	-		
21		24		-	-	‡48	‡23	15	9	-		
22				-	†13	59	24	‡20	‡9	-		
23				-	-	‡64	‡25	24	9	-		
24				-	†14	70	26	‡28	‡10	-		
25				-	-	‡70	‡25	32	11	-		
26				-	-	‡70	24	‡24	‡11	-		
27				-	-	70	‡20	‡17	11	-		
28				-	†15	‡53	15	9	‡12	-		
29				†20	-	36	‡18	‡9	13	-		
30				-	-	‡36	22	9	‡13	-		
51		-		*24	-	36	-	‡9	-	-		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November 12-30	459	-	-	24.2	910
December	682	-	-	22.0	1,350
Calendar year	-	-	-	-	-
January	620	-	-	20.0	1,230
February	420	-	-	15.0	833
March	1,006	70	14	32.5	2,000
April	797	44	15	26.6	1,580
May	491	32	9	15.8	974
June	315	13	9	10.5	625
July 1-6	84	15	13	14.0	167
August	-	-	-	-	-
September	-	-	-	-	-
The period	-	-	-	-	9,670

*Discharge measurement.
†Determined from staff gage reading.
‡Interpolated.

Timber Creek near Leadore, Idaho

Location.- Staff gage, lat. 44°37', long. 113°24', in SW¼ sec. 20, T. 15 N., R. 26 E., about 800 feet above Keating-Carey Land Co.'s diversion works and 5½ miles south of Leadore.

Drainage area.- 57 square miles.

Records available.- May to September 1912, November 1938 to July 1939 (discontinued).

Extremes.- Maximum discharge observed during period, 124 second-feet June 1 (gage height, 1.40 feet); minimum discharge not determined, probably occurred during winter.
1912, 1939: Maximum discharge, 282 second-feet June 8, 1912 (gage height, 3.65 feet, former datum); minimum discharge not determined.

Remarks.- Records fair except those for November to February, which are poor. Discharge for periods of ice effect or missing gage heights, Nov. 12 to Mar. 4, Mar. 6, 25-27, computed on basis of two discharge measurements, weather records, and records for Lemhi River near Lemhi and other stations in Salmon River Basin. Gage read once daily. No diversion or regulation above station.

Rating table Nov. 12 to July 6 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.20	10	1.00	67.6
0.40	17.5	1.20	94.5
0.60	29.0	1.40	124
0.80	45.4		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-				13	*21	*80	124	*72		
2		-				13	23	92	*118	*70		
3		-				13	*22	*98	*112	*68		
4		-				13	22	106	106	*67		
5		-				14	*22	106	109	*66		
6		-				13	*22	*105	*106	64		
7		-				14	22	*104	103	-		
8		-				*14	*22	103	*96	-		
9		-				*13	*22	*104	*88	-		
10		-				13	*22	106	81	-		
11		-				13	22	*107	109	-		
12		†15				*13	*22	*108	*109	-		
13						13	23	109	109	-		
14						*13	*22	*108	*112	-		
15						13	22	106	*115	-		
16						*13	*22	*106	118	-		
17						*14	23	106	*117	-		
18						14	*26	*108	*116	-		
19						*18	30	109	115	-		
20						22	*30	*109	*112	-		
21		16				*22	30	109	109	-		
22						23	*30	*108	*109	-		
23						*24	29	106	109	-		
24						24	*27	*106	*96	-		
25						25	*25	*106	*83	-		
26						25	23	106	70	-		
27						22	*23	*102	*72	-		
28						19	23	97	73	-		
29						*20	*46	*103	*73	-		
30						20	68	109	73	-		
31		-		†16		19	-	121	-	-		

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	-	-	-	-	-	-	-
November 12-30	303	-	-	15.9	0.279	0.20	601
December	465	-	-	15.0	.263	.30	922
Calendar year	-	-	-	-	-	-	-
January	434	-	-	14.0	.246	.28	861
February	364	-	-	13.0	.228	.24	722
March	522	25	13	16.8	.295	.34	1,040
April	786	68	21	26.2	.460	.51	1,560
May	3,253	121	80	105	1.84	2.12	6,450
June	3,042	124	70	101	1.77	1.98	6,030
July 1-6	407	72	64	67.8	1.19	.27	807
August	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-
The period	-	-	-	-	-	-	18,990

*Interpolated.
†Discharge measurement.

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North Fork of Salmon River at North Fork, Idaho

Location.- Staff gage, lat. 45°25', long. 113°59', in SW¼ sec. 16, T. 24 N., R. 21 E., 750 feet upstream from bridge on Salmon River highway, a quarter of a mile upstream from mouth, and a quarter of a mile northeast of North Fork.

Drainage area.- 214 square miles.

Records available.- October 1929 to October 1939 (discontinued). April to September 1912, at site 6 miles upstream, above mouth of Spring Creek.

Extremes.- Maximum discharge observed during period Oct. 1, 1938 to Oct. 31, 1939, 556 second-feet May 5 (gage height, 3.13 feet, on auxiliary gage 200 feet downstream); minimum observed, 22 second-feet Feb. 1 (discharge measurement).

1929-39: Maximum discharge observed, 901 second-feet June 13, 1933 (gage height, 4.40 feet); minimum, 11 second-feet Dec. 8, 1932 (gage height, 0.06 foot).

Remarks.- Records good except those for periods of ice effect, Nov. 24 to Mar. 10, and periods of missing gage heights, Oct. 3, 8-25, 27-31, 1939, which were computed on basis of a discharge measurement made on Feb. 1, weather records, and records for Salmon River near Challis and Valley Creek at Stanley, and are fair. No diversions. Gage read once daily. Gage heights obtained from auxiliary gage 200 feet downstream, as permanent gage was inaccessible.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	46			†22		104	520	332	152	51	34
2	38	46					115	484	*309	133	51	35
3	41	47					119	484	286	125	51	*36
4	41	45					*121	556	301	143	*50	36
5	39	44					123	556	316	141	49	34
						38						
6	42	44					125	520	286	137	46	37
7	40	44					103	448	*272	127	48	37
8	40	42					106	414	257	117	44	37
9	*39	45					115	397	257	*116	*45	*36
10	38	44					103	380	244	115	46	36
11	45	*43				42	106	380	230	106	39	35
12	43	42				43	103	348	218	85	38	41
13	43	48				46	94	364	218	82	38	59
14	42	48				42	94	*372	218	90	40	53
15	49	49				43	92	380	218	87	38	51
16	50	51				42	*96	431	218	92	36	44
17	46	50				46	101	484	218	*82	38	43
18	44	50				51	110	530	218	73	35	43
19	47	45				52	129	484	205	64	35	44
20	43	45				59	148	431	218	64	35	41
21	42	43				68	181	397	193	67	34	41
22	42	42				68	230	397	205	64	33	41
23	42	38				73	244	397	193	63	32	40
24	43	40				84	244	348	181	63	34	41
25	43	45				87	230	332	181	60	32	40
26	44	45				104	205	332	170	63	32	38
27	43	45				97	181	332	156	*59	35	36
28	44	45				87	244	348	158	55	39	35
29	44	45				89	348	364	152	59	36	42
30	43	50				85	520	380	*152	54	35	43
31	43	-				85	-	364	-	50	35	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	1,318	50	35	42.5	0.199	0.23	2,610
November	1,356	51	38	45.2	.211	.24	2,690
December	1,302	-	-	42.0	.196	.23	2,580
Calendar year 1938	37,775	830	25	103	481	6.57	74,920
January	1,240	-	-	40.0	.187	.22	2,460
February	1,064	-	-	38.0	.178	.19	2,110
March	1,773	104	-	57.2	.267	.31	3,520
April	4,834	520	92	161	.752	.84	9,590
May	12,944	556	332	418	1.95	2.25	25,670
June	6,780	332	152	226	1.06	1.18	13,450
July	2,788	152	50	89.9	.420	.48	5,530
August	1,230	51	32	39.7	.186	.21	2,440
September	1,209	59	34	40.3	.188	.21	2,400
Water year 1938-39	37,838	556	-	104	.486	6.59	75,050

*Interpolated.
†Discharge measurement.

Discharge, in second-feet, Oct. 1-31, 1939

Oct. 1	42	Oct. 6	46
2	43	7	46
3	45	8-25	45
4	43	26	47
5	49	27-31	46

Note.- Mean discharge Oct. 1-31, 45.2 second-feet (0.211 second-feet per square mile), run-off 2,780 acre-feet (0.24 inch).

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 1939.

Average discharge.- 11 years, 195 second-feet.

Extremes.- Maximum discharge recorded during year, 880 second-feet May 3, 4 (gage height, 4.58 feet); minimum not determined, probably occurred during winter.

1928-39: Maximum discharge, 2,340 second-feet June 9, 1933 (gage height, 6.26 feet); minimum, 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 missing gage heights, Oct. 28 to Apr. 10, which were computed on basis of weather records and records for Johnson Creek at Yellow Pine and Salmon River at Challis and are poor. No diversions above station.

Rating table, except periods of ice effect, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

2.30	53	3.20	253	4.40	770
2.50	85	3.50	355	4.70	940
2.70	123	3.80	475		
2.90	169	4.10	613		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	105						140	742	417	157	89	70
2	117						150	742	382	155	87	70
3	147						160	798	359	150	87	70
4	117						180	825	344	159	89	70
5	113						170	825	359	172	89	70
6	115						160	770	333	162	87	68
7	109						160	715	309	150	85	68
8	107						170	689	295	141	83	66
9	109						180	689	309	134	83	66
10	103						170	689	279	130	82	65
11	138					70	169	715	263	130	80	71
12	134						167	689	253	127	78	99
13	113						159	663	244	123	78	119
14	107						159	663	235	123	76	96
15	136						174	689	241	115	76	87
16	143						182	742	279	113	75	82
17	123						195	742	256	113	73	80
18	111						226	715	241	109	73	78
19	109						263	689	241	107	73	73
20	105						312	613	247	103	71	71
21	103					90	374	551	232	103	71	71
22	101						433	510	209	101	71	73
23	99						454	479	198	99	71	71
24	99						429	441	190	98	73	71
25	99						382	413	185	96	73	70
26	98						389	401	182	94	73	70
27	96						441	401	177	96	71	70
28	95					125	524	413	169	96	73	70
29	95						613	441	164	94	71	70
30	110						770	462	159	96	70	70
31	120						-	454	-	94	70	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	3,476	147	95	112	0.812	0.94	6,890
November	2,700	-	-	90.0	.652	.73	5,360
December	2,480	-	-	80.0	.580	.67	4,920
Calendar year 1938	107,862	1,940	-	296	2.14	29.08	214,000
January	2,325	-	-	75.0	.543	.63	4,610
February	1,960	-	-	70.0	.507	.53	3,890
March	2,695	-	-	86.9	.630	.73	5,350
April	8,455	770	140	282	2.04	2.28	16,770
May	19,370	825	401	625	4.53	5.22	38,420
June	7,751	417	159	258	1.87	2.09	15,370
July	3,740	172	94	121	.877	1.01	7,420
August	2,401	89	70	77.5	.562	.65	4,760
September	2,245	119	65	74.8	.542	.60	4,450
Water year 1938-39	59,598	825	-	163	1.18	16.08	118,200

Middle Fork of Salmon River near Meyers Cove, Idaho

Location.- Staff gage, lat. 44°57', long. 114°44', in sec. 27, T. 19 N., R. 14 E., at Geo. D. Crandall ranch, 500 feet downstream from Brush Creek and 15 miles northwest of Meyers Cove.

Drainage area.- 2,020 square miles.

Records available.- July 1931 to October 1939 (discontinued).

Extremes.- Maximum discharge observed during period October 1938 to October 1939, 7,540 second-feet Apr. 30 (gage height, 5.75 feet); minimum observed, 535 second-feet Jan. 21 (gage height, 1.90 feet).

1931-39: Maximum discharge observed, 17,000 second-feet June 10, 1933 (gage height, 8.10 feet); minimum not determined.

Remarks.- Records good except those for periods of ice effect or missing or doubtful gage heights, Nov. 22 to Dec. 7, Dec. 13-18, 25, 1938, Jan. 8, Jan. 22 to Mar. 16, Apr. 22, June 7, 8, Oct. 15-27, 29-31, 1939, which were computed on basis of observer's notes, weather records, and records for other stations in Salmon River Basin and are fair. Gage read once daily. No regulation; a few small diversions from tributaries upstream for irrigation of ranches.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	868	1,000	850	785			1,790	6,920	3,840	1,660	825	600
2	868	955	850	825			1,990	6,920	3,430	1,480	825	600
3	910	910	850	825			2,060	6,920	3,430	1,480	785	635
4	955	955	850	755			2,140	7,220	3,240	1,540	785	635
5	955	955	850	785			2,370	7,220	3,240	1,600	785	600
6	955	955	850	745			2,210	6,920	2,870	1,660	745	600
7	955	955	850	670			1,860	6,920	2,500	1,540	745	635
8	955	910	868	708			1,720	6,610	2,500	1,310	745	600
9	955	910	825	745		650	1,720	6,310	2,370	1,280	745	635
10	955	868	785	868			1,790	6,310	2,370	1,200	745	635
11	955	868	745	825			1,660	6,020	2,370	1,200	745	635
12	1,050	868	670	785			1,660	5,470	2,370	1,100	708	635
13	1,000	955	600	745			1,600	4,960	2,370	1,000	708	868
14	955	910	650	708			1,480	5,210	2,210	910	708	868
15	955	868	750	745			1,540	5,470	2,140	955	670	868
16	1,050	868	800	825			1,720	5,470	2,210	910	670	785
17	1,050	868	800	745		670	1,720	5,740	2,210	955	670	745
18	955	825	750	745		745	1,790	5,740	2,140	955	670	745
19	955	785	825	745		785	1,860	5,740	2,210	955	670	670
20	910	825	785	670		825	1,990	5,740	2,210	910	635	670
21	910	785	745	535		910	2,700	4,960	2,210	910	635	670
22	955	700	825	550		1,150	3,430	4,270	2,210	910	635	635
23	955	700	785	650		1,310	3,840	4,050	2,210	910	635	635
24	955	800	910	650		1,600	3,840	3,840	2,140	868	635	635
25	955	850	850	700		1,480	3,430	3,430	1,860	868	635	635
26	910	750	785	700		1,360	3,840	3,430	1,860	825	635	600
27	910	750	708	750		1,480	3,840	3,630	1,790	868	635	635
28	868	750	785	750		1,540	3,840	3,840	1,720	825	635	635
29	868	800	785	700		1,600	4,720	4,050	1,660	825	635	635
30	955	850	868	700		1,600	7,540	4,050	1,660	825	635	600
31	955	-	785	650		1,660	-	3,840	-	825	600	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	29,362	1,050	868	947	0.469	0.54	58,240
November	25,748	1,000	700	858	.425	.47	51,070
December	24,634	910	600	795	.394	.45	48,860
Calendar year 1938	914,977	16,600	-	2,507	1.24	16.83	1,815,000
January	22,614	868	535	729	.361	.42	44,850
February	18,200	-	-	650	.322	.34	36,100
March	29,115	1,660	-	939	.465	.54	57,750
April	77,690	7,540	1,480	2,590	1.28	1.43	154,100
May	167,220	7,220	3,430	5,394	2.67	3.08	331,700
June	71,550	3,840	1,660	2,385	1.18	1.32	141,900
July	34,039	1,660	825	1,098	.544	.63	67,520
August	21,534	825	600	695	.344	.40	42,710
September	19,979	868	600	666	.330	.37	39,630
Water year 1938-39	541,685	7,540	535	1,484	.735	9.99	1,074,000

Discharge, in second-feet, Oct. 1-31, 1939

Oct. 1	635	Oct. 7	708	Oct. 13	635	Oct. 19	630	Oct. 25	640	Oct. 31	640
2	635	8	745	14	670	20	620	26	640		
3	635	9	785	15	650	21	620	27	630		
4	635	10	745	16	640	22	620	28	635		
5	635	11	670	17	640	23	620	29	640		
6	670	12	670	18	640	24	630	30	640		

Note.- Mean discharge Oct. 1-31, 653 second-feet (0.323 second-feet per square mile); run-off, 40,160 acre-feet (0.37 inch).

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 1939.

Average discharge.- (1928-39) 11 years, 234 second-feet.

Extremes.- Maximum discharge recorded during year, 1,330 second-feet May 4 (gage height, 3.58 feet); minimum not determined, probably occurred during winter.
1921-39: Maximum discharge, 3,450 second-feet June 9, 1933 (gage height, 5.49 feet); minimum discharge recorded, 28 second-feet Nov. 11, 1931.

Remarks.- Records good except those for periods of ice effect or missing gage heights, Oct. 11 to Apr. 11, which were computed on basis of weather records and records for Salmon River near Challis, Johnson Creek at Yellow Pine, and Middle Fork of Salmon River near Cape Horn and are poor. No regulation or diversion above station.

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

1.20	74	2.10	348
1.40	112	2.50	555
1.60	161	3.00	875
1.80	225	3.60	1,330

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	104						170	1,130	445	164	98	74
2	106						180	1,170	410	158	94	76
3	143						190	1,170	390	156	92	76
4	128						210	1,210	376	*170	92	78
5	110						200	1,170	367	*180	96	78
6	108						190	1,060	357	*170	94	78
7	102						190	945	381	*160	92	78
8	100						200	910	322	*150	90	78
9	102						210	875	362	*145	90	76
10	102					80	200	854	326	*145	88	76
11	140						200	840	296	*140	88	78
12	150						198	812	275	133	85	100
13	120						194	779	259	130	83	167
14	110						211	766	248	128	81	148
15	130						233	792	248	124	79	121
16	150						†267	812	335	121	79	106
17	130						†301	826	308	119	78	96
18	120						335	779	271	117	78	90
19	120						353	819	288	114	76	87
20	120						390	714	296	112	76	85
21	110					100	506	639	284	110	76	81
22	110						591	597	236	108	74	81
23	110						621	567	218	106	74	81
24	110						591	544	205	104	76	81
25	110						511	494	198	102	78	81
26	110						489	478	191	102	78	81
27	110						585	472	185	100	81	81
28	110					150	740	478	179	104	81	79
29	110						910	489	173	106	79	81
30	120						1,210	511	167	104	78	79
31	130						-	489	-	104	76	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	3,635	150	100	117	0.650	0.75	7,210
November	3,000	-	-	100	.556	.62	5,950
December	2,790	-	-	90.0	.500	.58	5,530
Calendar year 1938	123,550	2,390	-	338	1.88	25.54	245,100
January	2,635	-	-	85.0	.472	.54	5,230
February	2,240	-	-	80.0	.444	.46	4,440
March	3,110	-	-	100	.556	.64	6,170
April	11,376	1,210	170	379	2.11	2.35	22,560
May	24,191	1,210	472	780	4.33	4.99	47,980
June	8,596	445	167	287	1.59	1.77	17,050
July	3,986	180	100	129	.717	.83	7,910
August	2,580	98	74	83.2	.462	.53	5,120
September	2,652	167	74	88.4	.491	.55	5,260
Water year 1938-39	70,791	1,210	-	194	1.08	14.61	140,400

*Gage height missing; discharge computed on basis of weather records and records for Salmon River near Challis, Johnson Creek at Yellow Pine and Middle Fork of Salmon River at Cape Horn.
†Interpolated.

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 1939.

Average discharge.- 11 years, 117 second-feet.

Extremes.- Maximum discharge observed during year, 605 second-feet May 5 (gage height, 3.20 feet); minimum observed, 26 second-feet Jan. 2, 13, 16, 22, Aug. 28.
1928-39: Maximum discharge observed, 1,560 second-feet June 9, 1933 (gage height, 4.69 feet); minimum, 16 second-feet Feb. 17, Aug. 19, 20, 1931.

Remarks.- Records fair. Gage read three or four times weekly. Discharge for periods of ice effect or missing or doubtful gage heights, Oct. 2, 3, 11-14, 16, 28, 29, Nov. 1 to Mar. 12, Mar. 23-25, 27, 28, Apr. 24-23, May 6-10, 25-27, 29, 30, June 13-15, July 5, 6, computed on basis of weather records and records for South Fork of Salmon River near Warren and Johnson Creek at Yellow Pine. No diversions above station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	-		-		30	*121	556	*256	*86	*42	*28
2	50	-		†26		30	123	*556	248	86	42	*28
3	55	-		-		30	*122	556	*234	*88	40	*28
4	46	†72		-	†29	30	*120	*580	*220	89	*39	*28
5	*47	†56		-		30	119	605	*207	100	*39	28
6	*48	-		-		30	*121	550	193	95	38	*28
7	*48	-		-		30	*124	500	*179	82	*37	*28
8	49	-		-		30	126	500	165	*78	*37	28
9	*49	-		-		30	*130	500	*154	*73	36	*28
10	49	-		-		30	135	500	144	69	*36	*29
11	60	-		-		31	*135	486	*140	*67	35	29
12	80	-		-		33	135	464	135	65	*34	*35
13	60	-		†26		34	*138	*464	130	*64	*34	41
14	55	-		-		*34	*141	*464	130	64	*33	*39
15	62	-		-		*34	144	464	130	*62	32	*36
16	60	-		†26		34	154	*464	170	*61	*31	*34
17	49	-		-		*35	*169	*464	144	59	30	32
18	*49	-		-		*35	*184	464	144	*56	*30	*32
19	*49	-		-		36	199	*453	*137	54	30	*31
20	*49	-		-		*36	*232	442	130	*52	*30	31
21	49	-		-		*36	264	358	*124	51	*30	*30
22	*50	-		†26		36	*264	*348	*117	*50	30	*30
23	51	-		-		40	264	338	111	49	*30	29
24	*51	-		-		40	260	300	*107	46	*29	*29
25	*51	-		-		40	260	275	*103	*45	29	*29
26	*51	-		-		40	260	250	99	44	*28	29
27	51	-		-		110	282	270	*94	*43	*27	*28
28	50	-		-		120	*384	282	89	42	26	28
29	50	-		-		119	486	300	*88	*42	27	*29
30	56	-		-		*119	*521	280	86	*42	*28	*30
31	61	-	†34	†29		119	-	264	-	42	28	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	1,631	80	46	52.6	0.572	0.66	3,240
November	1,500	-	-	50.0	.543	.61	2,980
December	1,240	-	-	40.0	.435	.50	2,460
Calendar year 1938	67,759	1,340	-	186	2.02	27.40	134,400
January	1,085	-	-	35.0	.380	.44	2,150
February	840	-	-	30.0	.326	.34	1,670
March	1,461	120	30	47.1	.512	.59	2,900
April	6,117	521	119	204	2.22	2.48	12,130
May	13,297	605	250	429	4.66	5.37	26,370
June	4,408	256	86	147	1.60	1.78	8,740
July	1,946	100	42	62.8	.683	.79	3,860
August	1,017	42	26	32.8	.357	.41	2,020
September	912	41	28	30.4	.330	.37	1,810
Water year 1938-39	35,454	605	-	97.1	1.06	14.34	70,330

*Interpolated.
†Computed from staff-gage reading.

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 1939.

Extremes.- Maximum discharge observed during year, 8,060 second-feet May 4 (gage height, 8.93 feet); minimum discharge, 280 second-feet Dec. 12, 13, Jan. 22; minimum gage height, 2.68 feet Dec. 12.

1931-39: 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 discharge, 200 second-feet (estimated) Dec. 9-15, 1932, Jan. 26, 1936; minimum gage height, 2.35 feet Jan. 26, 1936.

Remarks.- Records good. Gage read twice daily. No appreciable diversion or regulation.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

2.7	280	4.2	1,080	5.7	2,530	7.2	4,680	8.7	7,460
3.0	375	4.5	1,330	6.0	2,890	7.5	5,200	9.0	8,060
3.3	495	4.8	1,600	6.3	3,280	7.8	5,740		
3.6	655	5.1	1,890	6.6	3,710	8.1	6,300		
3.9	850	5.4	2,200	6.9	4,180	8.4	6,870		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	572	685	628	495	410	392	1,510	7,260	3,560	1,330	520	358
2	572	655	572	520	392	410	1,600	6,870	3,280	1,240	520	358
3	655	628	572	520	430	410	1,790	7,660	3,150	1,240	495	358
4	715	685	545	495	450	410	2,090	8,060	3,020	1,790	495	358
5	600	628	572	472	430	375	1,890	7,660	2,890	2,650	495	358
6	685	545	545	472	430	392	1,690	6,870	2,650	1,790	472	358
7	600	472	545	410	430	410	1,600	6,110	2,530	1,330	472	358
8	572	628	600	410	430	410	1,600	6,110	2,310	1,240	450	358
9	545	600	628	495	358	410	1,600	5,920	2,420	1,160	450	358
10	545	572	572	472	392	410	1,510	6,110	2,420	1,080	450	358
11	600	545	472	472	430	410	1,510	6,110	2,200	1,080	450	375
12	920	450	310	472	472	450	1,510	5,920	2,200	1,000	430	450
13	685	520	280	430	450	600	1,420	5,740	2,200	920	430	600
14	600	572	410	410	450	495	1,420	6,110	2,090	885	430	685
15	655	572	628	450	450	450	1,510	6,680	2,090	850	410	545
16	715	600	628	450	392	450	1,510	6,870	2,420	815	410	472
17	655	600	572	450	392	495	1,600	6,300	2,200	780	410	430
18	600	572	472	450	430	600	1,890	6,300	2,090	780	392	410
19	600	572	520	450	450	685	2,200	6,300	2,200	748	392	392
20	600	545	495	392	410	748	2,530	5,200	2,200	715	392	375
21	600	450	495	325	392	850	2,890	4,680	2,090	715	392	375
22	572	340	495	280	392	920	3,710	4,510	1,890	685	392	375
23	572	375	545	410	430	1,080	3,560	4,020	1,890	655	375	375
24	572	472	520	410	430	1,160	3,420	3,560	1,790	628	375	358
25	572	450	495	450	430	1,240	3,150	3,280	1,690	628	375	358
26	572	392	410	392	410	1,330	2,890	3,280	1,600	600	375	340
27	545	392	430	495	410	1,330	3,150	3,560	1,510	572	375	340
28	572	410	495	495	410	1,330	3,860	3,860	1,420	600	375	340
29	572	495	520	472	-	1,330	5,380	4,850	1,420	572	375	340
30	600	628	520	450	-	1,330	7,260	5,020	1,420	545	358	358
31	685	-	495	430	-	1,330	-	4,680	-	545	358	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	19,125	920	545	617	0.532	0.61	37,930
November	16,050	685	340	535	.461	.51	31,830
December	15,986	628	280	516	.445	.51	31,710
Calendar year 1938	779,037	14,300	242	2,134	1.84	24.96	1,545,000
January	13,796	520	280	445	.384	.44	27,360
February	11,782	472	358	421	.363	.38	23,370
March	22,642	1,330	375	730	.629	.73	44,910
April	73,250	7,260	1,420	2,442	2.11	2.35	145,300
May	175,460	8,060	3,280	5,660	4.88	5.63	348,000
June	66,840	3,560	1,420	2,228	1.92	2.14	132,600
July	30,168	2,650	545	973	.839	.97	59,840
August	13,090	520	358	422	.364	.42	25,960
September	11,873	685	340	396	.341	.38	23,550
Water year 1938-39	470,062	8,060	280	1,288	1.11	15.07	932,400

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 1939.

Average discharge.- 11 years, 23.3 second-feet.

Extremes.- Maximum discharge during year, 105 second-feet May 4 (gage height, 3.20 feet); minimum discharge not determined, probably occurred during winter.
1928-39: 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 periods of ice effect or missing gage heights, Nov. 6 to Apr. 3, which were computed on basis of weather records, records for other stations in South Fork of Salmon River Basin, and information furnished by L. C. White, superintendent of Bradley Mining Co., and are poor. Slight regulation by storage in reservoir on South Fork of Meadow Creek (capacity, about 700 acre-feet) and by a diversion from Meadow Creek of about a third of a second-foot for transporting mine tailings. Gage-height record furnished by Yellow Pine Co.

Rating tables, water year 1938-39, except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 5, 1938		Apr. 4 to Sept. 30, 1939	
2.00	8.5	1.90	5.5
2.10	12.2	2.20	15.7
2.20	16.2	2.50	34
		2.80	60.5
		3.20	105

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	13					14	82	56	19	9	7
2	11	13					16	85	52	18	9	6
3	15	13					18	93	49	18	9	7
4	11	13					20	98	47	21	9	7
5	12	11					21	97	46	29	9	6
6	11						24	87	46	27	9	7
7	11						25	82	40	23	9	7
8	11						26	79	38	20	9	7
9	10						26	83	39	18	9	6
10	9						26	84	36	17	8	6
11	16						26	80	33	17	8	8
12	14						25	76	33	16	7	11
13	11	10					24	76	32	15	7	14
14	11						25	79	30	14	8	9
15	13						26	85	31	14	8	8
16	13						26	88	34	16	8	8
17	13						28	88	31	15	8	7
18	13						29	86	31	15	8	7
19	12						30	83	33	14	8	6
20	12						35	72	34	12	8	7
21	13						40	66	30	12	7	7
22	13						45	62	28	12	6	6
23	12						43	60	28	12	6	7
24	12						42	57	27	11	7	7
25	13						40	54	26	11	6	6
26	12	9					39	54	25	11	7	6
27	13						42	56	24	11	7	6
28	13						50	59	23	10	7	6
29	13						62	64	21	10	7	7
30	14						82	66	19	10	7	6
31	13	-					-	60	-	9	7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	381	16	9	12.3	756
November	303	13	-	10.1	601
December	279	-	-	9.0	553
Calendar year 1938	11,751	230	-	32.2	23,300
January	248	-	-	8.0	492
February	196	-	-	7.0	389
March	279	-	-	9.0	553
April	975	82	14	32.5	1,930
May	2,341	98	54	75.5	4,640
June	1,022	56	19	34.1	2,030
July	477	29	9	15.4	946
August	241	9	6	7.8	478
September	215	14	6	7.2	426
Water year 1938-39	6,957	98	-	19.1	13,790

East Fork of South Fork of Salmon River near Stibnite, Idaho

Location.- Staff gage, lat. 44°56', long. 115°20', in sec. 34, T. 19 N., R. 9 E., 200 feet downstream from Sugar Creek, 3 miles north of Stibnite post office, and 8½ miles upstream from Johnson Creek.

Drainage area.- 42.5 square miles.

Records available.- June 1928 to September 1939.

Average discharge.- 11 years, 50.8 second-feet.

Extremes.- Maximum daily discharge during year, 220 second-feet May 4, 5; minimum discharge not determined, probably occurred during winter, when gage was not read.
1928-39: Maximum discharge observed, 783 second-feet June 15, 1933 (gage height, 3.51 feet); minimum observed, 10 second-feet Apr. 7, 1929, Apr. 7, 1936, but may have been less during periods of ice effect.

Remarks.- Records fair except those for November to March, which are poor. Because of doubtful gage heights, discharge computed on basis of six discharge measurements, weather records, and records for stations at Stibnite and near Yellow Pine. Some regulation by Yellow Pine Co.'s power plant upstream and small reservoir on South Fork of Meadow Creek (capacity, about 700 acre-feet).

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	25					30	180	120	45	25	20
2	25	25					35	180	120	45	25	*18
3	30	25					35	210	110	45	25	20
4	25	25					40	220	110	50	25	20
5	25	25					45	220	100	65	25	20
6	25	20					45	190	100	60	25	20
7	25	20					45	170	90	50	25	20
8	25	25					50	160	*88	45	25	20
9	20	25					50	170	90	45	25	20
10	20	25					45	180	85	40	20	20
11	30	25					45	*170	80	40	20	20
12	30						45	160	80	40	20	25
13	25						40	160	75	40	20	35
14	*24						45	170	75	35	20	25
15	30						45	190	75	35	20	20
16	25						45	200	80	35	20	20
17	25						50	200	75	35	20	20
18	25						55	190	75	35	20	20
19	25						60	180	75	35	20	15
20	25						75	160	75	30	20	15
21	25	20					90	140	70	30	20	15
22	25						100	130	70	30	20	15
23	25						95	130	70	30	20	15
24	25						95	120	65	*28	20	15
25	25						90	110	60	*28	20	15
26	25						85	120	60	25	20	15
27	25						95	120	55	25	20	15
28	25						110	130	55	25	20	15
29	25						130	140	50	25	20	15
30	30						180	150	45	25	20	15
31	25	-					-	140	-	25	20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	789	30	20	25.5	0.600	0.69	1,560
November	645	25	-	21.5	.506	.56	1,280
December	620	-	-	20.0	.471	.54	1,230
Calendar year 1938	26,159	520	-	71.7	1.69	22.87	51,880
January	558	-	-	18.0	.424	.49	1,110
February	420	-	-	15.0	.353	.37	833
March	620	-	-	20.0	.471	.54	1,230
April	1,995	180	30	66.5	1.56	1.74	3,960
May	5,090	220	110	164	3.86	4.45	10,100
June	2,378	120	45	79.3	1.87	2.09	4,720
July	1,146	65	25	37.0	.871	1.00	2,270
August	665	25	20	21.5	.506	.58	1,320
September	563	35	15	18.8	.442	.49	1,120
Water year 1938-39	15,489	220	-	42.4	.998	13.54	30,730

*Discharge measurement on this day.

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 U. S. 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 1939.

Average discharge.- 11 years, 135 second-feet.

Extremes.- Maximum discharge during year, 680 second-feet May 4 (gage height, 3.35 feet); minimum not determined, probably occurred during period of ice effect.
1928-39: Maximum discharge, 2,050 second-feet June 14, 1933 (gage height, 5.26 feet); minimum discharge 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 ice effect or missing gage heights, Nov. 7, 8, Nov. 12 to Apr. 28, June 29 to July 23, which were computed on basis of records for other stations in South Fork of Salmon River Basin and are fair. Slight regulation by Yellow Pine Co.'s power plant on this stream and small reservoir on South Fork of Meadow Creek.

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Nov. 13, Mar. 25 to Sept. 30

1.40	44	2.60	329
1.70	83	2.90	446
2.00	146	3.20	593
2.30	232	3.50	775

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	67	-	-	-	40	90	511	358	135	71	55
2	68	65	-	-	-	40	95	540	326	130	70	56
3	76	64	-	-	-	40	100	604	309	130	70	58
4	65	65	-	-	-	40	110	644	302	150	72	56
5	68	63	-	*48	-	40	120	633	292	200	71	56
6	65	54	-	-	-	*42	120	556	285	*162	70	60
7	64	60	-	-	-	40	120	496	266	150	68	58
8	63	70	*56	-	-	40	120	464	254	140	68	56
9	64	67	-	-	-	40	*122	486	254	135	68	55
10	60	64	-	-	-	40	*114	506	241	130	67	54
11	82	64	-	-	-	40	110	501	235	130	65	59
12	74	55	-	-	-	41	105	478	232	125	63	72
13	70	60	-	*48	-	*43	100	473	229	125	62	88
14	70	60	-	-	-	41	100	506	226	120	62	70
15	76	60	-	-	*42	40	*103	556	226	115	60	64
16	72	60	*53	-	-	40	110	582	238	110	60	60
17	71	60	-	-	-	42	120	572	217	105	59	58
18	70	60	-	-	-	43	140	551	211	105	59	56
19	70	60	-	*45	*42	45	170	535	220	100	59	55
20	68	60	-	-	-	*48	220	455	223	95	58	54
21	68	55	-	-	-	50	260	417	214	*94	56	54
22	68	45	-	-	-	55	300	381	202	90	55	54
23	67	50	*48	-	-	60	*289	358	199	90	55	54
24	65	55	-	-	-	*69	270	333	190	87	55	54
25	67	55	-	-	-	70	260	315	185	85	55	53
26	65	50	-	-	*43	75	250	315	176	83	54	53
27	65	50	-	*42	-	75	280	336	168	82	58	52
28	67	55	-	-	-	80	320	369	162	80	55	52
29	65	55	*48	-	-	80	384	412	150	77	53	53
30	68	55	-	-	-	85	516	438	140	76	52	54
31	68	-	-	-	-	85	-	408	-	72	53	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	2,114	82	60	68.2	0.656	0.76	4,190
November	1,763	70	45	58.8	.565	.63	3,500
December	1,550	-	-	50.0	.481	.55	3,070
Calendar year 1938	67,913	1,300	-	186	1.79	24.28	134,700
January	1,395	-	-	45.0	.433	.50	2,770
February	1,120	-	-	40.0	.385	.40	2,220
March	1,609	85	40	51.9	.499	.58	3,190
April	5,518	516	90	184	1.77	1.98	10,940
May	14,731	644	315	475	4.57	5.27	29,220
June	6,930	358	140	231	2.22	2.48	13,750
July	3,508	200	72	113	1.09	1.26	6,960
August	1,903	72	52	61.4	.590	.68	3,770
September	1,735	88	52	57.8	.556	.62	3,440
Water year 1938-39	43,874	644	-	120	1.15	15.71	87,020

*Determined from staff-gage reading.

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 1939.

Average discharge.- 11 years, 290 second-feet.

Extremes.- Maximum discharge during year, 2,070 second-feet Apr. 30 (gage height, 4.68 feet); minimum, 41 second-feet Jan. 21 (gage height, 0.91 foot).
1928-39: Maximum discharge, 5,150 second-feet June 9, 1933 (gage height, 7.62 feet); minimum, 22 second-feet Nov. 30, 1933; minimum gage height, 0.70 foot Nov. 30, 1937.

Remarks.- Records good. During late fall of 1936, Bureau of Reclamation cut an intermountain channel to divert a small flow from a tributary of Johnson Creek to Deadwood River Basin in order to supplement storage in Deadwood Reservoir. Measurement of June 7 indicated flow in diversion of 10.8 second-feet.

Rating table, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

0.9	40	2.4	463	3.9	1,395
1.2	80	2.7	610	4.2	1,630
1.5	141	3.0	780	4.5	1,890
1.8	227	3.3	970		
2.1	334	3.6	1,175		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	87	116	94	82	72	70	215	1,630	676	199	82	51
2	96	112	93	82	70	70	234	1,670	616	187	78	51
3	123	108	94	84	78	70	260	1,760	585	182	77	51
4	112	108	91	82	77	70	307	1,800	570	199	75	51
5	104	93	94	82	75	66	296	1,710	535	285	77	51
6	104	82	91	80	75	70	274	1,510	496	300	74	55
7	94	93	93	67	74	66	278	1,360	458	227	74	54
8	94	114	98	78	74	69	289	1,360	436	*180	72	52
9	94	110	100	85	61	70	300	1,400	463	*170	70	52
10	91	102	91	85	72	70	282	1,400	436	162	69	51
11	110	93	67	84	75	70	285	1,360	405	162	67	54
12	151	82	58	82	75	74	292	1,280	379	157	66	75
13	110	†95	69	77	75	75	267	1,240	367	146	64	114
14	106	†100	75	74	75	70	271	1,280	350	141	63	102
15	110	100	84	82	75	70	285	1,400	346	134	61	82
16	118	102	89	80	†70	70	300	1,400	418	127	60	74
17	114	98	84	80	†70	72	323	1,320	392	120	59	67
18	106	96	80	80	†74	74	384	1,280	354	118	59	63
19	102	96	84	78	74	80	458	1,240	375	114	58	60
20	102	98	77	69	70	89	530	1,000	392	110	56	59
21	100	72	82	63	67	96	654	905	367	106	55	59
22	98	59	82	67	70	106	780	840	323	106	55	58
23	96	66	82	†70	72	116	810	780	300	102	54	56
24	94	†85	82	72	70	144	768	738	282	98	54	56
25	94	84	80	77	72	146	665	692	267	94	54	55
26	94	75	70	72	72	154	621	698	250	93	54	55
27	93	77	78	82	70	157	732	738	244	91	59	55
28	96	80	80	80	70	157	970	810	230	93	59	55
29	94	87	80	78	-	170	1,280	872	218	89	56	55
30	114	94	80	80	-	176	1,840	905	208	87	55	55
31	120	-	78	75	-	187	-	780	-	87	54	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	3,221	151	87	104	0.488	0.56	6,390
November	2,777	116	59	92.6	.435	.49	5,510
December	2,580	100	58	83.2	.391	.45	5,120
Calendar year 1938	148,227	3,030	58	406	1.91	23.88	294,000
January	2,409	85	63	77.7	.365	.42	4,780
February	2,024	78	61	72.3	.339	.35	4,010
March	3,044	187	66	98.2	.461	.53	6,040
April	15,250	1,840	215	508	2.38	2.66	30,250
May	37,158	1,800	692	1,199	5.63	6.49	73,700
June	11,738	676	208	391	1.84	2.05	23,280
July	4,466	300	87	144	.676	.78	8,860
August	1,970	82	54	63.5	.298	.34	3,910
September	1,828	114	51	60.9	.286	.32	3,630
Water year 1938-39	88,465	1,840	51	242	1.14	15.44	175,500

*Gage height miseing; discharge computed on basis of weather records and records for South Fork of Salmon River near Warren.
†Stage-discharge relation affected by ice; discharge computed on basis of gage heights, weather records, and records for South Fork of Salmon River near Warren.

Mud Creek near Tamarack, Idaho

Location.- Staff gage, lat. 45°00', long. 116°21', in sec. 9, T. 19 N., R. 1 E., 0.5 mile upstream from Little Mud Creek, 5 miles upstream from confluence with Little Salmon River, and 3¾ miles northeast of Tamarack.
Drainage area.- 15.8 square miles.
Records available.- April 1937 to September 1939 (fragmentary).
Extremes.- Maximum and minimum discharge during year not determined.
1937-38: Maximum discharge observed, about 300 second-feet probably on May 1, 1938 (gage height, 3.34 feet, from floodmark observed May 3, 1938); minimum discharge, probably less than half a second-foot during late summer of 1937.
Remarks.- Records good. No diversion or regulation.

Discharge, in second-feet, water year 1938-39

Oct. 30	*3.8	Mar. 3	*2.3	May 3	*68	Aug. 3	*0.8
Dec. 21	*2.1	31	*4.6	13	†18	Sept. 16	*1.4
Feb. 18	*2.0	Apr. 8	*51	June 3	*46	17	†1.4
20	*1.9	11	*56	30	*1.8	25	†.9

*Discharge measurement. †Determined from staff-gage reading.

Boulder Creek near Tamarack, Idaho

Location.- Water-stage recorder, lat. 45°05', long. 116°27', in SW¼ of 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.- 5.9 square miles.
Records available.- April 1938 to September 1939 except winters.
Extremes.- Maximum discharge during year, 155 second-feet May 3 (gage height, 2.43 feet); minimum, 0.8 second-foot Sept. 10, 22-30 (gage height, 0.65 foot).
1938-39: Maximum discharge, 226 second-feet May 27, 1938 (gage height, 2.95 feet); minimum, that of Sept. 10, 22-30, 1939.
Remarks.- Records good. None for Nov. 5 to Apr. 9. No regulation. Small diversion to Weiser River Basin about 350 feet below station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	2.4					-	93	21	4.5	1.6	0.9
2	1.8	2.2					-	108	19	4.3	1.4	1.0
3	3.9	3.4					-	134	18	4.7	1.4	.9
4	2.1	2.6					-	137	16	5.9	1.4	.9
5	1.9	-					-	122	16	6.4	1.4	.9
6	1.9	-					-	98	15	5.3	1.3	.9
7	1.6	-					-	87	14	4.5	1.3	.9
8	1.6	-					-	82	13	4.1	1.3	.9
9	1.6	-					-	80	13	3.8	1.3	.9
10	1.6	-					11	73	12	3.6	1.2	.8
11	2.6	-					11	76	11	3.4	1.2	.9
12	2.4	-					11	71	10	3.2	1.2	.9
13	1.9	-					11	69	9.8	3.0	1.1	1.4
14	1.8	-					11	67	9.0	2.8	1.1	1.8
15	2.1	-					12	66	10	2.6	1.1	1.3
16	1.9	-					13	66	12	2.6	1.0	1.0
17	1.9	-					16	62	12	2.6	1.0	.9
18	1.8	-					20	57	10	2.4	1.0	.9
19	1.8	-					23	51	11	2.3	1.0	.9
20	1.8	-					27	42	9.8	2.3	1.0	.9
21	1.8	-					33	38	9.0	2.1	.9	.9
22	1.8	-					37	35	8.3	2.1	.9	.8
23	1.6	-					38	31	7.6	2.0	.9	.8
24	1.6	-					38	29	7.0	2.0	.9	.8
25	1.6	-					34	27	6.7	2.0	1.0	.8
26	1.6	-					35	26	6.4	1.8	.9	.8
27	1.6	-					41	26	6.2	1.8	.9	.8
28	1.6	-					58	25	5.6	1.7	.9	.8
29	1.8	-					72	26	5.3	1.7	.9	.8
30	3.0	-					80	26	5.0	1.7	.9	.8
31	2.7	-					-	24	-	1.7	.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	60.4	3.9	1.6	1.95	0.331	0.38	120
April 10-30	632	80	11	30.1	5.10	3.98	1,250
May	1,959	137	24	63.2	10.7	12.34	3,890
June	326.7	21	5.0	10.9	1.85	2.06	648
July	94.9	6.4	1.7	3.06	.519	.60	188
August	34.3	1.6	.9	1.11	.188	.22	68
September	28.0	1.8	.8	.93	.158	.18	56

Grande Ronde River at La Grande, Oreg.

Location.- Water-stage recorder, lat. 45°21', long. 118°09', in sec. 35, T. 2 S., R. 37 E., 2½ miles northwest of La Grande and 4 miles downstream from Fivepoint Creek. Zero of gage is 2,831.25 feet above mean sea level (general adjustment of 1929).

Drainage area.- 678 square miles.

Records available.- February 1918 to June 1923, October 1925 to September 1939. November 1903 to September 1915, at Hilgard, 4 miles upstream; records equivalent.

Average discharge.- 25 years (1905-9, 1910-11, 1912-15, 1918-20, 1921-22, 1925-39), 346 second-feet.

Extremes.- Maximum discharge during year, 4,480 second-feet Mar. 23 (gage height, 6.68 feet); minimum, 5 second-feet Aug. 18 (gage height, 1.26 feet).
1903-15, 1918-23, 1925-39: Maximum discharge, 8,880 second-feet Mar. 18, 1932 (gage height, 8.90 feet); minimum, 4 second-feet Sept. 14, 16-20, 1922.

Remarks.- Records good except those for periods of ice effect, Nov. 26 to Dec. 6, Dec. 13-25, Jan. 21 to Feb. 1, and periods of missing gage heights, Nov. 12-14, Feb. 2-11, June 6, July 15-17, and those below 60 second-feet, which were estimated on basis of weather records and unpublished records for Grande Ronde River at lower reservoir site near La Grande and are poor. Discharge measurements made at cable 3 miles above recorder. Minor diversions for irrigation above station.

Rating tables, water year 1938-39 except for periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Feb. 1				Feb. 12 to Sept. 30							
1.3	17	2.2	212	1.4	13	2.5	265	4.0	1,200	5.5	2,710
1.6	54	2.5	330	1.7	44	3.0	510	4.5	1,620	6.0	3,370
1.9	116			2.0	95	3.5	820	5.0	2,130		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	50	98	173	78	310	2,180	960	166	54	13	7
2	20	54	100	160	95	335	2,130	960	152	52	12	7
3	23	80	100	150	105	400	1,910	960	139	53	11	10
4	25	102	102	122	95	395	1,760	890	130	59	11	10
5	24	97	110	122	80	332	1,480	774	136	60	9	10
6	24	65	117	102	85	405	1,240	678	136	56	8	10
7	24	46	127	109	90	365	1,160	612	136	52	8	10
8	24	68	223	122	95	337	1,200	576	130	45	9	10
9	23	65	220	116	100	319	1,240	552	130	38	10	11
10	22	56	187	111	120	257	1,120	516	133	36	9	11
11	28	46	133	97	160	180	1,080	482	118	34	10	11
12	35	38	106	82	195	225	1,120	450	105	32	10	14
13	38	54	115	74	202	301	1,000	425	93	29	9	18
14	32	70	122	70	214	237	869	420	87	27	9	27
15	31	68	130	72	278	225	820	410	84	26	7	29
16	31	76	140	70	324	306	781	410	95	25	7	25
17	33	94	135	72	324	869	794	466	105	24	6	19
18	32	86	125	72	301	1,400	862	425	112	23	6	21
19	31	74	117	67	301	1,860	1,040	380	130	22	6	18
20	32	80	126	76	274	2,410	1,080	355	136	21	6	18
21	32	54	120	68	253	2,900	1,120	332	126	21	6	17
22	32	56	110	85	270	3,300	1,200	332	108	21	6	17
23	32	68	115	110	270	3,440	1,160	306	93	19	7	15
24	31	127	120	90	288	3,520	1,080	261	87	16	8	14
25	31	109	115	88	310	3,600	960	233	80	17	10	13
26	32	110	141	88	319	3,160	862	241	78	15	9	12
27	32	105	173	65	319	2,350	834	229	76	14	9	12
28	32	100	187	59	342	1,960	925	214	71	13	8	15
29	37	90	183	54	-	1,760	1,120	210	64	12	7	14
30	42	95	216	52	-	1,620	1,080	214	57	14	7	16
31	52	-	198	56	-	1,910	-	187	-	13	6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	938	52	20	30.3	1,860
November	2,283	127	38	76.1	4,530
December	4,311	223	98	139	8,550
Calendar year 1938	106,161	2,230	12	291	210,600
January	2,854	173	52	92.1	5,660
February	5,887	342	78	210	11,680
March	41,038	3,600	180	1,324	81,400
April	35,207	2,180	781	1,174	69,830
May	14,460	960	187	466	28,680
June	3,293	166	57	110	6,530
July	943	60	12	30.4	1,870
August	259	13	6	8.4	514
September	441	29	7	14.7	875
Water year 1938-39	111,914	3,600	6	307	222,000

Peak discharge.- Mar. 20 (10 p.m.) 3,520 sec.-ft.; Mar. 21 (10:30 p.m.) 3,990 sec.-ft.; Mar. 22 (11 p.m.) 4,310 sec.-ft.; Mar. 23 (11 p.m.) 4,480 sec.-ft.; Mar. 24 (11 p.m.) 4,310 sec.-ft.; Mar. 25 (11 p.m.) 3,990 sec.-ft.

Grande Ronde River at Rondowa, Oreg.

Location.- Water-stage recorder, lat. 45°44', long. 117°47', in NW¼ sec. 23, T. 3 N., R. 40 E., 500 feet downstream from Wallowa River at Rondowa. Zero of gage is about 2,281 feet above mean sea level (by railroad company profile and Geological Survey river profile).

Drainage area.- 2,555 square miles.

Records available.- October 1926 to September 1939.

Average discharge.- 13 years, 1,837 second-feet.

Extremes.- Maximum discharge during year, 10,900 second-feet Mar. 25 (gage height, 6.47 feet); minimum, 330 second-feet Aug. 18 (gage height, 0.95 foot).
1926-39: 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; minimum daily discharge, 230 second-feet (estimated) Jan. 8, 1937.

Remarks.- Records good except those for period of missing gage heights, June 24 to Aug. 7, which were estimated on basis of range of stage and records for Imnaha River at Imnaha and Powder River near Robinette and are fair.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

0.9	305	1.9	1,070	3.5	3,270	6.0	9,170
1.1	415	2.2	1,390	4.0	4,220	6.5	10,900
1.3	550	2.6	1,870	4.5	5,260		
1.6	790	3.0	2,430	5.0	6,370		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	397	633	610	673	522	697	6,140	6,140	3,270	1,320	490	385
2	403	641	657	705	441	697	6,140	6,370	2,920	1,300	460	403
3	480	748	697	748	441	697	6,140	6,840	2,750	1,350	440	415
4	508	85[illegible]	697	722	529	697	5,920	6,600	2,750	1,450	420	403
5	487	773	790	697	529	625	5,370	6,370	2,430	1,500	410	385
6	515	722	798	665	550	681	4,940	5,700	2,280	1,400	400	361
7	501	681	832	595	536	641	4,520	5,160	2,070	1,300	390	361
8	487	697	1,110	641	508	649	4,320	4,940	1,940	1,220	385	361
9	474	681	1,200	625	415	665	4,220	4,940	2,070	1,160	397	355
10	474	673	1,130	625	494	673	4,020	4,740	2,000	1,130	397	350
11	595	649	1,020	633	558	748	3,920	4,520	2,000	1,100	379	345
12	657	602	773	641	665	1,490	3,740	4,220	2,070	1,060	367	355
13	572	610	657	641	618	2,000	3,540	4,020	2,140	1,040	367	391
14	536	641	649	618	602	1,620	3,360	4,320	2,210	980	367	428
15	543	657	773	641	942	1,500	3,180	4,630	2,070	920	361	480
16	595	722	756	625	858	1,560	3,090	4,940	2,070	870	335	460
17	572	824	689	618	782	2,510	3,090	5,050	1,800	820	335	434
18	550	773	665	618	807	4,020	3,270	4,740	1,740	760	335	409
19	536	764	730	610	816	5,160	3,640	4,520	1,680	730	340	385
20	529	764	649	580	756	5,920	3,920	3,830	1,680	680	345	385
21	529	689	665	550	681	6,600	4,320	3,450	1,680	700	350	379
22	522	580	610	480	689	7,090	4,840	3,270	1,620	700	361	379
23	515	487	689	572	689	7,620	4,840	3,090	1,680	660	367	373
24	508	522	673	529	697	8,520	4,840	2,750	1,550	620	385	367
25	515	536	649	565	756	9,510	4,520	2,590	1,460	580	409	355
26	508	487	550	508	722	9,510	4,220	2,670	1,400	550	403	350
27	508	474	565	572	730	8,520	4,220	3,090	1,340	520	403	350
28	501	501	641	580	697	7,350	4,840	3,450	1,280	520	403	350
29	522	588	665	520	-	6,600	6,370	4,020	1,300	580	385	350
30	610	602	657	558	-	5,920	6,370	4,520	1,350	560	391	350
31	649	-	649	515	-	5,920	-	3,920	-	530	385	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	16,298	657	397	526	32,330
November	19,579	858	474	653	38,830
December	22,895	1,200	550	739	45,410
Calendar year 1938	704,927	9,140	373	1,931	1,398,000
January	18,930	748	480	611	37,550
February	18,030	942	415	644	35,760
March	116,410	9,510	625	3,755	230,900
April	135,860	6,370	3,090	4,529	269,500
May	139,410	6,840	2,590	4,497	276,500
June	58,600	3,270	1,280	1,953	116,200
July	28,610	1,500	520	923	56,750
August	11,962	490	335	386	23,730
September	11,454	480	345	382	22,720
Water year 1938-39	598,038	9,510	335	1,638	1,186,000

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. Prior to May 17, 1939, staff gage (to Nov. 27, 1938) and water-stage recorder at site 400 feet downstream.

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 1939.

Average discharge.- 16 years (1911-12, 1918-19, 1925-39), 117 second-feet.

Extremes.- Maximum discharge during year, 754 second-feet May 2 (gage height, 3.93 feet, former site and datum); minimum, 18 second-feet Sept. 11, 21-24, 28, 29 (gage height, 0.65 foot).

1906-7, 1911-12, 1915, 1918-19, 1925-39: Maximum discharge observed, 1,240 second-feet May 21, 1912, June 3 or 4, 1933; minimum observed, 4 second-feet Nov. 26, 27. 1930.

Remarks.- Records good except those for periods of ice effect, Nov. 21-26, 28, 29, Dec. 11-14, 16-22, Jan. 2-5, 7, 8, 10-19, 21, 22, Feb. 2-4, 7-10, Feb. 18 to Mar. 3, which were estimated on basis of two discharge measurements, observer's notes, and weather records and are poor. A few small diversions above station for irrigation; beginning in 1937 some water diverted into Big Creek in Powder River Basin.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	30	74	40	42	39	315	627	221	84	30	20
2	22	30	79	41	40	40	325	657	202	80	29	23
3	49	32	60	42	42	42	340	687	197	88	30	22
4	31	51	51	40	41	44	320	657	193	93	30	20
5	25	59	52	39	39	44	281	579	177	83	28	20
6	24	36	47	40	32	42	250	500	172	76	27	20
7	27	34	64	40	30	40	237	456	151	75	27	20
8	24	33	96	40	28	37	245	440	142	71	27	20
9	24	33	83	39	27	37	250	406	151	66	27	19
10	25	31	72	38	28	37	228	406	140	64	26	19
11	25	32	66	37	32	38	232	390	138	59	25	19
12	33	33	61	36	33	44	232	375	136	57	25	21
13	25	36	56	35	32	47	203	380	140	55	24	21
14	26	49	51	35	31	45	192	385	136	52	24	33
15	26	31	47	34	35	44	199	401	146	49	23	27
16	27	33	46	35	36	46	216	423	144	48	23	23
17	24	33	45	36	36	58	250	407	130	46	23	21
18	24	31	44	37	36	92	290	384	144	43	23	20
19	24	32	43	39	35	157	350	356	138	41	22	20
20	24	32	43	42	34	216	390	310	125	41	22	19
21	24	36	42	43	34	272	450	290	117	38	21	19
22	22	41	42	42	36	320	506	274	112	36	21	19
23	22	46	41	41	38	355	500	251	110	35	22	18
24	21	51	40	42	39	370	489	236	104	34	21	18
25	23	57	40	41	40	380	418	231	99	34	21	19
26	22	61	41	44	41	380	380	238	96	34	21	19
27	23	64	45	40	39	350	418	248	92	32	20	19
28	23	69	41	39	38	315	567	261	90	31	20	18
29	24	74	40	37	-	300	723	277	88	30	20	19
30	31	79	39	39	-	281	675	280	87	31	20	19
31	31	-	39	45	-	281	-	248	-	31	20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	797	49	21	25.7	1,580
November	1,289	79	30	43.0	2,560
December	1,630	96	39	52.6	3,230
Calendar year 1938	53,359	920	20	146	105,840
January	1,218	45	34	39.3	2,420
February	994	42	27	35.5	1,970
March	4,793	380	37	155	9,510
April	10,471	723	192	349	20,770
May	12,060	687	231	389	23,920
June	4,118	221	87	137	8,170
July	1,637	93	30	52.8	3,250
August	742	30	20	23.9	1,470
September	614	33	18	20.5	1,220
Water year 1938-39	40,363	723	18	111	80,070

Peak discharge.- Apr. 28 (10 p.m.) 748 sec.-ft.; May 2 (9 p.m.) 754 sec.-ft.

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. Zero of gage is 4,517.69 feet above mean sea level (general adjustment of 1929).

Drainage area.- 9.6 square miles.

Records available.- July 1924 to September 1939.

Average discharge.- 15 years, 11.8 second-feet.

Extremes.- Maximum discharge observed during year, 46 second-feet May 30 (gage height, 1.54 feet); minimum observed, 1.6 second-feet Aug. 26 (gage height, 0.80 foot).
1924-39: Maximum discharge, 300 second-feet (estimated), July 25, 1937 (gage height, 3.63 feet, from floodmark); minimum discharge observed, 0.1 second-foot Dec. 7, 1929, Nov. 1, 6, 1935.

Remarks.- Records fair except those for periods of ice effect, Nov. 6, 7, 10-13, 21-27, Dec. 11-17, 26, Jan. 21-24, 26, Jan. 31 to Feb. 3, 9, 10, which were estimated on basis of weather records and are poor. Shifting-control method used Mar. 1 to May 29, July 1 to Aug. 4. Practically entire low-water flow diverted 1 mile above station for power. Twice-daily gage readings furnished by Inland Power & Light co.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.3	10	6.2	6.2	3.0	5.2	4.5	22	33	22	6.3	3.9
2	9.1	9.1	6.6	6.9	3.0	4.5	5.8	26	34	22	5.6	4.6
3	10	10	6.9	5.5	3.5	4.3	4.8	27	31	26	5.6	6.6
4	10	11	10	5.5	2.7	4.0	5.2	26	34	22	5.6	5.3
5	11	9.6	7.2	5.5	4.8	4.5	5.5	25	29	22	7.1	3.4
6	10	10	6.8	7.6	4.5	4.0	5.2	24	31	19	8.9	3.4
7	9.1	9.0	6.9	6.3	4.8	3.5	5.8	26	29	17	6.3	3.4
8	9.1	9.1	6.9	6.6	4.8	3.5	5.5	23	27	16	6.3	4.6
9	9.6	7.6	6.2	4.8	4.0	3.8	6.6	26	26	17	5.6	3.9
10	8.7	7.5	6.2	4.3	4.5	3.8	5.2	25	24	16	6.6	5.9
11	11	7.5	5.0	3.8	5.2	3.8	5.8	31	25	16	6.4	3.7
12	11	7.5	5.0	4.5	4.8	4.0	6.9	27	24	15	6.3	4.6
13	9.1	8.0	4.0	5.5	4.3	4.0	6.6	28	25	15	7.3	7.3
14	9.1	6.9	4.0	4.8	4.5	4.3	7.5	31	26	15	5.3	7.3
15	9.1	8.2	4.5	6.2	8.3	4.0	6.2	31	27	12	4.6	4.2
16	10	8.3	4.5	5.8	5.8	4.0	6.6	34	29	13	5.3	4.6
17	10	9.6	4.0	5.5	6.2	2.2	5.5	35	27	11	4.9	6.5
18	9.6	8.5	4.8	4.8	6.2	3.2	5.8	35	27	11	4.6	3.9
19	9.6	8.0	4.5	5.5	6.2	4.5	8.7	35	26	11	4.6	3.9
20	9.6	8.3	4.8	5.4	6.2	4.0	9.1	33	24	12	7.0	3.7
21	9.6	7.5	4.8	4.0	5.5	4.5	10	31	21	11	4.6	3.9
22	9.1	7.0	5.2	4.5	4.3	5.2	11	26	22	11	4.2	3.9
23	9.6	7.5	4.3	5.0	4.5	4.8	12	27	22	12	3.9	3.7
24	11	8.0	4.8	3.5	4.3	5.0	11	26	22	11	4.2	4.8
25	9.1	8.5	4.8	2.7	4.3	4.8	10	23	22	10	3.9	3.7
26	9.1	8.5	4.8	3.5	5.2	5.8	8.7	27	21	8.5	3.4	3.9
27	8.7	8.0	4.8	4.8	4.5	4.5	11	31	20	8.5	8.3	4.2
28	9.1	7.2	4.8	5.2	5.0	4.8	17	32	20	9.5	3.9	3.7
29	14	5.8	5.2	5.2	-	4.3	23	37	22	8.1	3.7	4.2
30	12	6.2	4.9	5.5	-	3.8	22	41	23	7.7	4.6	4.2
31	12	-	5.5	4.5	-	4.5	-	41	-	7.7	3.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	306.3	14	8.3	9.88	608
November	247.9	11	5.8	8.26	492
December	168.9	10	4.0	5.45	335
Calendar year 1938	8,042.6	154	.7	22.0	15,950
January	159.4	7.6	2.7	5.14	316
February	134.9	8.3	2.7	4.82	268
March	131.1	5.8	2.2	4.23	260
April	258.5	23	4.5	8.62	513
May	912	41	22	29.4	1,810
June	773	34	20	25.8	1,530
July	435.0	26	7.7	14.0	863
August	168.6	8.9	3.4	5.44	334
September	134.9	7.3	3.4	4.50	268
Water year 1938-39	3,830.5	41	2.2	10.5	7,600

Wallowa Falls power-plant tailrace near Joseph, Oreg.

Location.- Staff gage, lat. 45°16', long. 117°13', in SE¼ sec. 29, T. 3 S., R. 45 E., a quarter of a mile upstream from point where channel discharges into West Fork of Wallowa River and 6 miles south of Joseph. Zero of gage is 4,624.79 feet above mean sea level (general adjustment of 1929).

Records available.- August 1924 to September 1939.

Average discharge.- 15 years, 7.24 second-feet.

Extremes.- Maximum discharge observed during year, 12 second-feet Nov. 22, 28 (gage height, 0.80 foot); no flow at times.
1924-39: Maximum discharge, 17 second-feet Dec. 1, 8, 1930, Jan. 9, 10, 1931; no flow at times.

Remarks.- Records good. Flow regulated by operation of impulse wheel in power house. Water diverted at dam on East Fork of Wallowa River into conduit 1 mile above power house and discharged into West Fork a quarter of a mile downstream. Gage readings furnished by Inland Power and Light Co.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	6.8	6.8	5.9	6.5	6.6	6.8	6.5	6.6	7.6	7.7	8.1
2	5.6	6.8	6.8	6.1	6.6	6.5	5.6	6.8	6.8	6.5	7.7	7.9
3	6.6	6.6	6.8	6.6	5.9	6.5	6.8	6.6	6.4	7.6	7.7	6.8
4	6.5	6.0	5.9	6.6	6.5	6.6	7.0	6.6	5.9	6.5	7.6	7.7
5	6.0	6.5	6.8	6.6	5.8	6.1	6.5	6.6	7.0	7.4	7.2	7.9
6	6.6	5.8	6.0	6.6	6.6	6.6	6.3	6.6	7.2	7.4	6.5	7.9
7	6.3	6.5	7.0	5.7	6.8	6.6	6.3	5.8	7.0	7.2	7.7	7.7
8	6.5	6.6	7.2	5.8	6.8	6.6	6.5	6.6	7.2	7.6	7.9	7.7
9	5.9	6.6	6.8	7.2	6.8	6.5	5.8	6.6	6.8	6.3	7.7	7.7
10	6.5	6.6	6.6	7.0	6.4	6.5	6.3	6.5	6.6	7.4	7.9	6.5
11	6.8	6.3	5.8	7.0	6.6	6.5	6.5	6.0	5.9	7.4	6.1	7.6
12	6.5	6.6	5.8	6.5	5.9	5.8	6.5	6.5	7.0	7.6	7.7	7.9
13	6.6	5.8	6.8	6.4	6.6	6.6	6.8	6.6	7.2	7.4	6.5	7.7
14	6.6	6.6	6.8	6.6	6.6	6.5	5.8	5.8	7.2	7.4	7.7	7.4
15	6.5	6.1	6.6	5.8	4.6	6.6	6.3	6.8	7.6	7.7	8.1	7.6
16	5.8	6.8	6.8	6.6	6.6	6.5	5.8	7.2	7.6	6.3	7.7	7.7
17	6.5	6.6	7.0	6.6	6.5	6.4	6.6	6.8	7.4	7.7	7.7	6.0
18	6.5	5.9	5.9	6.6	6.6	6.6	6.5	6.8	6.1	7.6	7.9	7.7
19	6.6	6.6	6.8	6.5	5.8	5.0	6.3	6.5	7.2	7.6	8.1	7.6
20	6.5	5.8	6.8	5.7	6.8	6.8	6.1	6.5	7.2	7.2	6.6	7.6
21	6.3	6.8	7.0	6.6	6.6	6.8	6.3	5.8	7.2	7.4	7.9	7.4
22	6.5	7.0	7.2	5.9	6.5	6.5	6.6	7.0	7.2	7.1	8.1	7.6
23	5.8	6.5	7.0	5.4	6.5	6.5	5.8	7.0	6.4	6.3	8.1	7.6
24	5.9	5.9	6.8	6.6	6.5	5.8	6.1	5.4	7.4	7.2	7.9	6.2
25	6.5	6.5	5.9	6.8	6.6	6.5	6.6	6.5	6.3	7.6	8.3	7.4
26	6.6	6.5	6.5	6.5	5.8	5.8	6.2	6.5	7.0	7.7	8.1	7.6
27	6.6	5.8	6.8	6.5	6.6	6.8	6.3	6.6	7.6	7.4	4.0	7.6
28	6.5	7.0	6.8	6.6	6.4	6.8	6.6	5.8	7.4	6.4	7.9	7.7
29	6.6	7.0	7.0	5.9	-	6.6	6.6	6.6	7.2	7.7	8.1	7.7
30	5.8	6.8	6.6	6.8	-	6.8	5.6	6.3	7.0	6.6	7.6	7.9
31	6.5	-	7.0	6.6	-	6.6	-	6.8	-	7.7	7.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	198.3	6.8	5.6	6.40	393
November	193.7	7.0	5.8	6.46	384
December	206.4	7.2	5.8	6.66	409
Calendar year 1938	2,264.1	8.3	0.0	6.20	4,490
January	198.6	7.2	5.4	6.41	394
February	178.8	6.8	4.6	6.39	355
March	200.7	6.8	5.8	6.47	398
April	189.8	7.0	5.6	6.33	376
May	201.0	7.2	5.4	6.48	399
June	208.6	7.6	5.9	6.95	414
July	224.5	7.7	6.3	7.24	445
August	233.6	8.3	4.0	7.54	463
September	225.4	8.1	6.0	7.51	447
Water year 1938-39	2,459.4	8.3	4.0	6.74	4,880

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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., just 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 1939.

Average discharge.- 12 years (1927-39), 63.5 second-feet.

Extremes.- Maximum discharge during year, 330 second-feet May 30 (gage height, 2.65 feet); minimum, 5.0 second-feet Feb. 11 (gage height, 1.02 feet).
1915, 1924-39: Maximum discharge, 716 second-feet May 26, 1928 (gage height, 2.65 feet, former site and datum); minimum, 3.4 second-feet Feb. 10, 1938 (gage height, 0.91 foot).

Remarks.- Records good except those for periods of missing gage heights, Nov. 9, Aug. 8-21, which were computed on basis of records for Lostine River near Lostine and Bear Creek near Wallowa and are fair. No diversions above station.

Rating tables, water year 1938-39 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Dec. 11 to Feb. 3)

Oct. 1 to Feb. 3				Feb. 4 to Sept. 30					
1.2	15.0	1.5	30.8	1.0	4.5	1.6	37	2.2	150
1.3	19.5	1.6	42	1.2	10.0	1.8	60	2.4	220
1.4	23.5	1.7	56	1.4	21.5	2.0	95	2.7	355

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	36	28	21	16	15	39	170	180	147	46	26
2	34	34	29	21	14	15	40	202	176	136	44	26
3	45	41	28	21	15	15	43	216	187	144	44	25
4	38	39	29	21	18	15	44	209	180	144	43	25
5	39	34	29	21	18	14	41	198	147	133	43	24
6	36	31	29	20	18	15	40	176	138	124	42	24
7	34	33	32	20	17	14	39	166	130	127	41	24
8	33	35	38	21	16	14	40	166	118	130	40	24
9	32	34	33	20	15	14	39	173	124	130	39	23
10	31	33	31	20	16	14	39	173	127	136	37	23
11	52	32	25	20	16	14	39	170	138	133	36	24
12	42	29	22	20	16	14	40	166	160	124	35	24
13	40	31	22	20	16	14	39	180	176	116	34	26
14	38	30	22	19	14	13	37	209	180	108	33	27
15	36	29	24	19	7.3	14	37	240	170	98	33	24
16	34	33	28	19	13	14	39	244	141	89	32	23
17	33	30	29	19	15	14	42	228	127	81	32	23
18	33	29	27	18	17	14	47	216	113	77	32	22
19	34	29	25	18	18	16	57	198	108	75	32	22
20	35	29	24	18	17	17	68	163	108	70	31	22
21	34	24	24	16	16	20	85	141	111	69	30	22
22	33	21	23	17	16	22	95	133	130	64	30	22
23	32	21	22	17	16	25	93	121	138	62	30	21
24	33	22	22	16	16	28	89	113	130	60	30	21
25	32	23	22	17	16	31	79	113	124	57	30	21
26	30	24	21	18	15	32	75	138	118	56	28	21
27	30	25	22	17	15	31	89	187	118	55	27	20
28	30	27	22	17	14	31	130	224	141	55	27	20
29	40	30	22	17	-	33	194	278	173	52	27	20
30	41	29	22	16	-	34	173	274	176	50	27	20
31	40	-	22	16	-	35	-	213	-	48	27	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	1,105	52	30	35.6	1.15	1.33	2,190
November	897	41	21	29.9	.965	1.08	1,780
December	798	38	21	25.7	.829	.96	1,580
Calendar year 1938	31,312.0	420	9.0	85.8	2.77	37.53	62,090
January	580	21	16	18.7	.603	.70	1,150
February	436.3	18	7.3	15.6	.503	.52	865
March	611	35	13	19.7	.635	.73	1,210
April	1,951	194	37	65.0	2.10	2.34	3,870
May	5,798	278	113	187	6.03	6.95	11,500
June	4,287	187	108	143	4.61	5.14	8,500
July	2,950	147	48	95.2	3.07	3.54	5,850
August	1,062	46	27	34.3	1.11	1.28	2,110
September	689	27	20	23.0	.742	.83	1,370
Water year 1938-39	21,164.3	278	7.3	58.0	1.87	25.40	41,980

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 1939.

Average discharge.- 12 years (1912-13, 1928-39), 173 second-feet.

Extremes.- Maximum discharge during year, 1,160 second-feet May 30 (gage height, 5.23 feet); minimum, 14 second-feet Feb. 16 (gage height, 0.45 foot).
1912-14, 1915, 1925-39: 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, Nov. 23-26, Dec. 12-15, Feb. 1-3, 9, 10, 21, 22, Mar. 5-8, and those for period of missing gage heights, June 15-27, which were computed on basis of weather records and records for Hurricane Creek near Joseph and are fair. No large diversions above station. Flow regulated slightly by Minam Lake Reservoir.

Rating tables, water year 1938-39, except periods of ice effect (gage height, in feet, and and discharge, in second-feet)

Oct. 1 to Apr. 3				Apr. 4 to Sept. 30					
0.4	12	1.2	67	0.6	19.5	1.5	97	3.2	430
.6	22	1.4	90	.8	31	1.8	142	3.6	550
.8	33	1.6	117	1.0	44	2.4	246	4.0	690
1.0	48			1.2	61	2.8	330	5.0	1,080

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	60	42	48	29	31	154	638	568	392	67	27
2	34	56	48	46	28	29	166	690	520	318	62	29
3	46	64	48	46	32	28	173	800	550	342	57	27
4	42	70	52	45	32	28	173	760	535	380	55	26
5	40	62	60	44	32	27	163	672	405	330	54	25
6	41	54	54	39	32	27	152	568	355	285	52	25
7	39	60	63	41	31	28	147	520	307	285	50	25
8	37	56	100	42	31	29	150	535	296	285	49	24
9	36	54	88	41	29	29	148	585	307	285	47	24
10	35	52	75	41	31	28	142	568	330	296	46	23
11	57	52	65	39	31	29	139	550	355	285	44	23
12	59	46	60	39	34	32	140	535	445	265	43	25
13	50	54	58	38	34	32	131	568	520	246	41	32
14	47	50	58	36	37	31	124	655	535	228	40	34
15	48	48	58	38	19	29	123	742	500	197	38	32
16	48	57	57	36	24	29	120	820	430	177	37	29
17	47	55	52	36	51	34	128	800	325	155	36	26
18	43	55	50	36	52	39	150	725	290	140	35	24
19	43	52	53	36	35	43	189	655	270	136	35	24
20	43	51	47	32	32	50	210	490	270	124	33	23
21	43	40	48	25	31	71	265	418	280	117	32	22
22	42	34	46	28	31	78	307	380	300	110	31	22
23	41	33	49	35	31	90	307	342	350	104	30	22
24	41	33	52	31	31	103	307	307	340	101	30	22
25	45	34	52	32	30	120	275	307	320	97	31	22
26	42	35	48	30	29	128	256	380	320	94	31	22
27	41	35	52	33	28	128	275	535	350	90	30	22
28	41	38	51	33	29	125	405	708	380	86	29	22
29	49	42	49	33	-	125	672	920	430	84	29	22
30	69	42	49	32	-	123	672	1,040	460	77	28	22
31	63	-	48	29	-	128	-	742	-	71	27	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,386	69	34	44.7	2,750
November	1,474	70	33	49.1	2,920
December	1,732	100	42	55.9	3,440
Calendar year 1938	79,051	1,570	32	217	156,800
January	1,140	48	25	36.8	2,260
February	896	52	19	32.0	1,780
March	1,851	128	27	59.7	3,670
April	6,763	672	120	225	13,410
May	18,955	1,040	307	611	37,600
June	11,643	568	270	388	23,090
July	6,182	392	71	199	12,260
August	1,249	67	27	40.3	2,480
September	747	34	22	24.9	1,480
Water year 1938-39	54,018	1,040	19	148	107,100

Bear Creek near Wallowa, Oreg.

Location.- Water-stage recorder, lat. 45°32', long. 117°33', in NW¼ 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 1939. April 1924 to November 1931 at site 1 mile upstream and above intakes of two irrigation ditches with a combined capacity of about 3 second-feet.

Extremes.- Maximum discharge during year, 596 second-feet Apr. 29 (gage height, 2.58 feet); minimum, 7 second-feet Sept. 21-28 (gage height, 0.57 foot).
1915, 1924-39: Maximum discharge, 1,620 second-feet Apr. 22, 1936 (gage height, 3.82 feet, from floodmarks); minimum, 3 second-feet Jan. 20, Feb. 1, 1937.

Remarks.- Records good except those for periods of ice effect, Nov. 22 to Dec. 1, Dec. 12-23, 26-28, Jan. 6-9, Jan. 20 to Feb. 17, Feb. 21-23, Mar. 5-10, which were computed on basis of weather records and records for Lostine River near Lostine and are fair. Small diversions above station for irrigation.

Rating tables, water year 1938-39 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 26				Mar. 27 to Sept. 30					
0.6	8	1.4	89	0.5	4.5	1.2	51	2.3	410
.8	18	1.6	126	.6	7.5	1.4	79	2.6	610
1.0	35			.8	17	1.7	141		
1.2	60			1.0	31	2.0	245		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	24	30	23		19	184	434	275	124	16	8
2	11	24	31	23		19	198	446	255	103	16	9
3	13	34	29	22		19	198	505	260	115	15	8
4	11	43	30	20		18	194	477	241	136	14	8
5	11	36	42	21		18	177	422	198	115	13	8
6	11	31	41	18		18	153	368	174	99	13	8
7	10	33	57	19		18	139	339	147	90	13	8
8	10	33	104	20		18	144	344	147	84	12	8
9	10	32	98	20	25	18	141	368	180	76	12	8
10	11	31	88	20		18	131	362	177	73	11	7
11	24	30	74	20		17	129	344	194	67	11	7
12	16	37	63	20		24	127	334	217	61	10	9
13	13	34	55	20		24	117	344	241	54	10	10
14	13	27	53	20		24	109	392	237	49	10	11
15	15	28	53	20		24	105	440	217	43	9	10
16	16	36	50	20		25	105	484	177	40	9	8
17	15	41	47	20	23	32	117	505	150	36	9	8
18	14	37	43	20	24	50	150	440	153	34	9	8
19	14	36	42	20	23	77	198	398	164	33	9	7
20	15	36	40		20	106	217	317	174	29	8	7
21	16	32	33		20	144	270	270	167	29	8	7
22	16	27	30		20	182	334	250	180	25	8	7
23	16	25	25		20	202	306	225	184	25	8	7
24	16	23	23		20	215	285	209	164	23	8	7
25	17	23	22	20	20	228	237	209	150	22	9	7
26	16	25	20		20	228	213	250	136	21	8	7
27	17	25	22		20	217	241	328	136	20	8	7
28	17	28	22		20	198	392	410	144	19	8	7
29	20	30	22		-	184	547	470	156	19	8	7
30	22	30	22		-	177	498	464	150	18	8	7
31	24	-	20		-	167	-	344	-	18	8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	460	24	10	14.8	912
November	931	43	23	31.0	1,850
December	1,331	104	20	42.9	2,640
Calendar year 1938	42,325	820	8	116	83,950
January	626	23	-	20.2	1,240
February	650	-	20	23.2	1,290
March	2,728	228	17	88.0	5,410
April	6,356	547	105	212	12,610
May	11,492	505	209	371	22,790
June	5,545	275	136	185	11,000
July	1,700	136	18	54.8	3,370
August	318	16	8	10.3	631
September	235	11	7	7.8	466
Water year 1938-39	32,372	547	7	88.7	64,210

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 1939. March 1904 to November 1906 and August 1910 to October 1911, at practically same site.

Average discharge.- 11 years (1928-39), 57.9 second-feet.

Extremes.- Maximum discharge observed during year, 343 second-feet Mar. 20 (gage height, 2.00 feet); minimum observed, 18 second-feet Aug. 11, 12.

1904-6, 1910-11, 1928-39: Maximum discharge observed, 1,180 second-feet Apr. 15, 1904 (gage height, 4.3 feet, former datum); minimum observed, 16 second-feet Jan. 5, 1937.

Remarks.- Records good. Discharge for period of ice effect, Feb. 9-11, computed on basis of gage heights and weather records. Large part of low flow diverted for irrigation. No regulation. Twice-daily gage readings and results of two discharge measurements furnished by Washington Water Power Co.

Rating tables, water year 1938-39 except period of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Feb. 4				Feb. 5 to Sept. 30			
0.54	18	1.3	125	0.48	19	1.3	131
.7	34	1.6	198	.7	42	1.6	203
1.0	72	2.0	343	1.0	78	2.0	343

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	37	39	37	32	33	129	136	73	36	26	27
2	29	34	41	37	28	33	145	136	68	33	25	28
3	33	39	44	39	30	34	140	161	65	38	26	27
4	30	44	42	37	32	34	129	156	64	39	26	25
5	31	37	46	36	33	33	118	138	65	38	25	25
6	33	36	48	34	34	33	103	125	65	38	26	25
7	32	37	46	34	33	33	93	114	60	36	27	25
8	32	34	46	34	32	31	90	108	59	35	26	25
9	30	37	44	34	30	31	90	110	61	33	25	25
10	30	36	45	34	30	31	86	106	61	33	24	24
11	41	37	48	34	35	32	84	104	59	33	20	25
12	34	34	41	32	42	53	88	101	57	33	19	27
13	32	36	42	33	34	55	84	99	53	31	21	29
14	32	36	41	33	37	49	75	103	52	31	23	29
15	32	39	44	33	84	46	74	112	53	29	23	27
16	34	39	41	33	46	58	72	127	53	29	23	25
17	33	44	39	33	40	97	70	129	52	29	23	25
18	32	39	39	33	40	145	73	120	53	27	23	25
19	32	39	39	33	38	188	86	114	52	26	25	25
20	32	44	39	32	36	244	88	101	51	26	24	25
21	32	39	39	32	36	235	93	96	48	27	23	25
22	31	37	38	31	35	235	110	103	45	27	23	25
23	32	33	39	33	35	241	110	96	44	27	25	25
24	31	39	39	32	35	230	112	86	44	27	25	25
25	32	37	38	32	35	224	106	85	43	27	25	25
26	31	36	38	32	35	213	94	84	42	27	25	23
27	31	32	37	32	36	180	93	84	42	26	25	23
28	31	33	37	32	35	149	106	81	40	25	25	23
29	34	37	37	32	-	140	145	84	39	25	25	24
30	34	38	37	33	-	118	145	82	38	25	25	25
31	37	-	36	32	-	112	-	75	-	25	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,000	41	29	32.3	1,980
November	1,119	44	32	37.3	2,220
December	1,269	48	36	40.9	2,520
Calendar year 1938	24,168	330	27	66.2	47,940
January	1,038	39	31	33.5	2,060
February	1,028	84	28	36.7	2,040
March	3,370	244	31	109	6,680
April	3,034	145	70	101	6,020
May	3,356	161	75	108	6,660
June	1,601	73	38	53.4	3,180
July	941	39	25	30.4	1,870
August	751	27	19	24.2	1,490
September	761	29	23	25.4	1,510
Water year 1938-39	19,268	244	19	52.8	38,230

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, October 1929 to September 1939.

Average discharge.- 10 years, 3,246 second-feet.

Extremes.- Maximum discharge during year, 23,600 second-feet May 4 (gage height, 10.91 feet); minimum, 413 second-feet Sept. 27-30 (gage height, 2.52 feet).
1930-39: 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 Feb. 10, 15-25, which were computed on basis of weather records and records for other stations in Clearwater River Basin and are good. Discharge interpolated Oct. 15. No diversions.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 4 to Sept. 30)

2.5	389	4.3	2,220	6.4	6,420	9.0	15,270
2.8	589	4.6	2,680	6.8	7,500	9.5	17,350
3.1	834	4.9	3,180	7.2	8,690	10.0	19,520
3.4	1,120	5.2	3,730	7.6	9,980	10.5	21,750
3.7	1,440	5.6	4,540	8.0	11,380	11.0	24,040
4.0	1,810	6.0	5,440	8.5	13,270		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	477	682	852	925	748	740	5,320	20,400	9,320	3,360	852	444
2	457	682	825	954	674	757	6,420	20,000	8,080	3,010	817	444
3	504	765	834	1,030	658	757	6,820	21,300	7,790	2,920	791	450
4	504	992	817	1,020	740	748	7,360	22,700	7,940	3,010	791	450
5	504	870	880	972	782	732	6,550	21,300	7,360	2,920	782	444
6	597	757	944	934	765	740	5,560	17,800	6,680	2,920	774	457
7	643	699	992	889	757	732	4,870	15,300	5,920	2,600	732	510
8	546	699	1,940	861	666	723	4,760	14,100	5,440	2,440	707	497
9	510	715	2,370	852	560	740	4,870	14,100	5,560	2,300	691	477
10	497	699	1,880	843	650	757	4,650	14,100	5,440	2,150	682	450
11	658	666	1,460	889	723	800	4,440	14,100	5,210	2,080	666	444
12	954	620	972	925	825	861	4,440	14,100	5,100	2,080	643	470
13	825	628	658	889	843	1,080	4,120	14,100	5,320	1,940	620	575
14	774	666	782	889	808	1,130	4,020	14,900	5,560	1,880	597	715
15	818	740	1,120	880	950	1,050	4,220	16,900	5,440	1,730	582	707
16	861	1,050	1,400	880	975	1,020	4,220	18,600	5,920	1,600	560	628
17	765	1,410	1,130	861	900	1,110	4,440	19,100	5,100	1,510	546	546
18	682	1,040	1,070	870	850	1,460	5,100	17,400	4,980	1,430	531	510
19	643	898	1,100	870	850	2,010	6,550	17,400	4,980	1,350	524	484
20	628	880	982	861	825	2,840	7,790	14,100	4,980	1,410	517	470
21	628	834	907	834	775	3,640	9,000	12,100	5,100	1,370	504	457
22	620	757	992	765	725	4,220	11,400	11,400	4,870	1,260	497	444
23	604	597	1,010	674	750	4,650	12,100	10,700	4,870	1,190	490	438
24	589	546	982	825	775	4,980	12,100	9,980	4,540	1,130	484	432
25	604	707	954	825	800	5,680	10,700	9,320	4,120	1,080	484	426
26	620	635	723	748	774	6,300	9,320	9,650	3,920	1,040	504	420
27	620	524	643	757	765	5,680	9,980	10,700	3,640	1,000	490	413
28	604	567	889	852	757	5,100	12,500	12,100	3,540	982	490	413
29	604	782	1,020	817	-	4,760	16,900	13,300	3,540	944	490	413
30	628	898	982	800	-	4,650	21,800	14,100	3,540	898	477	413
31	658	-	907	765	-	4,440	-	11,400	-	889	457	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	19,626	954	457	633	0.419	0.48	38,930
November	23,005	1,410	524	767	.508	.57	45,630
December	33,017	2,370	643	1,065	.705	.81	65,490
Calendar year 1938	1,256,229	29,800	407	3,442	2.28	30.94	2,492,000
January	26,756	1,030	674	863	.572	.66	53,070
February	21,670	975	560	774	.513	.53	42,980
March	74,887	6,300	723	2,416	1.60	1.84	148,500
April	232,320	21,800	4,020	7,744	5.13	5.72	460,800
May	466,550	22,700	9,320	15,050	9.97	11.49	925,400
June	163,800	9,320	3,540	5,460	3.62	4.04	324,900
July	56,423	3,360	889	1,820	1.21	1.40	111,900
August	18,772	852	457	606	.401	.46	37,230
September	14,441	715	413	481	.391	.36	28,640
Water year 1938-39	1,151,267	22,700	413	3,154	2.09	28.36	2,283,000

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 of Clearwater River.

Drainage area.- 4,850 square miles.

Records available.- August 1910 to September 1939.

Average discharge.- 29 years, 8,077 second-feet.

Extremes.- Maximum discharge during year, 46,400 second-feet May 4 (gage height, 13.30 feet); minimum, 776 second-feet Sept. 30 (gage height, 2.84 feet).
1910-39: 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 periods of missing or doubtful gage heights, Oct. 28 to Nov. 3, and June 12 to Aug. 1, which were computed on basis of records for other stations in Clearwater River Basin and are good. Practically no diversion or regulation above station. Gage-height record collected in cooperation with U. S. Weather Bureau.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used May 5 to Sept. 30)

2.8	745	4.4	2,960	6.5	8,280	9.0	18,100	11.5	32,850
3.1	1,075	4.8	3,680	7.0	9,970	9.5	20,650	12.0	36,400
3.4	1,450	5.2	4,540	7.5	11,760	10.0	23,440	12.5	40,120
3.7	1,860	5.6	5,560	8.0	13,720	10.5	26,410	13.0	44,020
4.0	2,310	6.0	6,720	8.5	15,800	11.0	29,550		

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,030	1,600	1,890	1,940	1,620	1,650	11,000	40,900	17,200	6,400	1,650	883
2	1,050	1,650	1,890	2,020	1,530	1,660	13,700	39,400	15,000	5,900	1,570	861
3	1,100	2,000	1,850	2,180	1,420	1,690	15,000	41,700	14,100	5,600	1,520	883
4	1,170	2,470	1,800	2,220	1,500	1,680	16,200	44,000	14,100	5,700	1,490	894
5	1,160	2,260	1,880	2,100	1,610	1,650	15,000	41,700	13,300	5,800	1,490	883
6	1,280	1,860	2,180	2,020	1,640	1,650	12,500	35,000	12,500	5,800	1,480	872
7	1,400	1,660	2,120	1,940	1,610	1,650	11,000	30,200	11,400	5,300	1,400	938
8	1,320	1,590	3,310	1,860	1,400	1,640	10,300	27,000	10,300	4,800	1,350	983
9	1,160	1,650	4,900	1,830	1,100	1,640	10,700	27,600	10,300	4,500	1,320	960
10	1,110	1,640	4,200	1,860	1,220	1,680	10,300	27,000	10,700	4,200	1,300	905
11	1,240	1,540	3,310	1,890	1,400	1,790	9,970	27,000	9,970	4,100	1,270	861
12	2,160	1,420	2,470	2,070	1,580	2,130	9,970	26,400	9,400	4,000	1,240	850
13	2,060	1,360	1,640	2,060	1,760	2,880	9,620	25,800	9,500	3,800	1,210	949
14	1,860	1,450	1,380	2,010	1,760	2,790	8,940	27,000	9,700	3,600	1,160	1,300
15	1,860	1,590	1,780	1,980	2,040	2,550	9,280	30,200	9,500	3,400	1,120	1,530
16	2,060	1,890	2,550	2,000	2,160	2,470	9,620	33,600	10,500	3,200	1,100	1,370
17	1,860	3,310	2,280	1,940	1,950	2,710	9,970	34,200	10,000	3,000	1,080	1,170
18	1,620	2,630	1,940	1,940	1,880	3,780	11,000	31,500	9,500	2,880	1,040	1,050
19	1,490	2,130	1,950	1,940	1,890	6,030	14,100	31,500	10,000	2,880	1,030	983
20	1,410	2,010	2,010	1,920	1,830	6,720	16,200	26,400	9,900	2,780	1,010	927
21	1,400	1,980	1,780	1,850	1,730	8,280	19,100	21,700	10,300	2,800	983	905
22	1,300	1,790	1,830	1,730	1,610	9,280	23,400	20,600	9,700	2,680	972	883
23	1,360	1,550	1,960	1,570	1,650	10,300	25,800	20,100	9,300	2,400	960	861
24	1,320	1,270	2,010	1,590	1,710	11,000	25,200	18,600	9,000	2,300	938	850
25	1,300	1,350	2,010	1,750	1,780	12,200	22,900	17,200	8,300	2,200	927	840
26	1,330	1,450	1,660	1,660	1,760	14,100	19,600	17,600	7,650	2,100	960	829
27	1,360	1,180	1,350	1,610	1,720	12,900	20,100	18,600	7,200	2,000	972	818
28	1,350	1,040	1,570	1,710	1,710	11,800	24,000	20,600	6,900	1,950	949	818
29	1,350	1,350	1,960	1,780	-	10,700	32,800	21,700	6,700	1,900	938	818
30	1,400	1,710	2,080	1,720	-	10,300	41,700	25,200	6,600	1,800	938	818
31	1,500	-	1,960	1,660	-	9,970	-	21,200	-	1,780	916	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	44,440	2,160	1,030	1,434	0.296	0.34	88,160
November	52,380	3,310	1,040	1,746	.360	.40	103,900
December	67,600	4,900	1,360	2,177	.449	.52	133,900
Calendar year 1938	2,657,376	58,100	894	7,280	1.50	20.38	5,271,000
January	58,350	2,220	1,570	1,882	.388	.46	115,700
February	46,670	2,160	1,100	1,663	.343	.36	92,370
March	170,270	14,100	1,640	5,493	1.13	1.30	337,700
April	488,970	41,700	8,940	16,300	3.36	3.75	969,900
May	871,200	44,000	17,200	28,100	5.79	6.68	1,728,000
June	308,520	17,200	6,600	10,280	2.12	2.36	611,900
July	111,200	6,400	1,750	3,587	.740	.85	220,600
August	36,283	1,650	916	1,170	.241	.28	71,970
September	28,492	1,530	818	950	.196	.22	56,510
Water year 1938-39	2,284,176	44,000	818	6,258	1.29	17.51	4,531,000

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 1939.

Average discharge.- 13 years, 14,400 second-feet.

Extremes.- Maximum discharge during year, 77,500 second-feet May 4 (gage height, 15.10 feet); minimum, 1,680 second-feet Sept. 28 (gage height, 2.25 feet).

1926-39: Maximum discharge, 172,000 second-feet Dec. 23, 1933 (gage height, 23.19 feet), from rating curve extended logarithmically above 100,000 second-feet; minimum, probably less than 500 second-feet Jan. 9, 1937, during period of ice effect.

Maximum stage known, 25.6 feet Jan. 5, 1928 (former site and datum, 2,500 feet upstream), during severe ice jam.

Remarks.- Records excellent except those for Aug. 10-16, which were interpolated and are good. No diversions or regulation above station.

Rating table, water year 1938-39 (gage height, in feet, and discharge, second-feet)

2.2	1,620	4.6	6,570	7.0	15,420	10.0	33,030	13.0	57,000
2.6	2,200	5.0	7,710	7.5	17,790	10.5	36,690	13.5	61,650
3.0	2,920	5.4	9,010	8.0	20,350	11.0	40,480	14.0	66,430
3.4	3,720	5.8	10,450	8.5	23,150	11.5	44,390	14.5	71,380
3.8	4,590	6.2	12,000	9.0	26,200	12.0	48,430	15.0	76,480
4.2	5,530	6.6	13,650	9.5	29,500	12.5	52,650	15.5	81,680

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,960	2,920	3,510	3,930	3,310	3,510	26,200	68,400	27,500	10,100	3,210	1,890
2	2,040	3,110	3,930	4,040	3,210	3,410	31,600	65,500	24,300	9,720	3,110	1,820
3	2,120	3,110	3,930	4,370	3,020	3,510	33,000	69,400	22,000	9,010	3,020	1,810
4	2,280	3,930	4,040	4,820	3,020	3,620	33,000	73,400	22,000	9,360	2,920	1,820
5	2,460	5,050	3,820	4,590	3,210	3,510	31,600	69,400	21,400	9,720	2,920	1,860
6	2,370	4,150	4,820	4,370	3,310	3,510	26,200	59,800	20,400	9,360	2,920	1,850
7	2,730	3,410	5,050	4,150	3,210	3,510	22,600	50,100	18,300	9,010	2,730	1,830
8	2,640	3,110	5,660	3,930	3,110	3,410	20,900	45,200	16,800	8,020	2,730	1,980
9	2,370	3,110	10,100	3,820	2,460	3,410	22,000	45,200	16,400	7,560	2,640	2,040
10	2,200	3,210	9,360	3,720	2,200	3,410	22,600	45,200	16,800	7,120	2,580	1,950
11	2,280	3,210	7,260	3,820	2,550	3,620	21,400	43,600	15,900	6,840	2,530	1,830
12	4,260	2,920	5,530	4,040	3,020	5,410	21,400	43,600	15,000	6,700	2,480	1,760
13	4,940	2,730	3,720	4,370	3,410	8,020	21,400	42,800	15,000	6,570	2,420	1,810
14	4,370	2,730	2,730	4,150	3,930	8,020	19,300	43,600	15,000	6,040	2,360	2,120
15	4,150	2,920	3,020	4,040	4,700	7,120	19,300	47,600	14,500	5,910	2,310	3,210
16	3,720	3,510	4,040	4,150	5,170	6,570	20,900	51,800	15,400	5,530	2,260	3,310
17	3,620	6,300	4,590	4,040	4,820	6,980	21,400	53,500	16,400	5,170	2,200	2,640
18	3,210	6,570	4,040	3,930	4,480	9,720	23,200	50,100	14,500	5,050	2,120	2,280
19	2,920	4,820	3,720	3,930	4,370	13,600	28,200	48,400	15,900	4,820	2,010	2,040
20	2,730	4,260	3,820	4,040	4,260	18,300	33,000	44,400	15,900	4,590	1,940	1,960
21	2,640	4,260	3,720	4,040	3,930	23,200	36,700	36,700	16,800	4,700	1,880	1,890
22	2,640	3,930	3,510	3,720	3,620	26,800	43,600	33,800	15,900	4,700	1,850	1,830
23	2,550	3,310	3,720	3,410	3,510	29,500	47,600	32,300	14,500	4,370	1,860	1,810
24	2,460	2,730	3,820	3,310	3,620	31,600	46,800	30,200	14,500	4,150	1,820	1,790
25	2,460	2,550	3,930	3,510	3,820	34,500	42,800	28,200	13,600	4,040	1,830	1,720
26	2,460	2,820	3,510	3,510	3,820	39,000	37,400	27,500	12,400	3,820	1,820	1,720
27	2,460	2,640	3,020	3,310	3,720	36,000	36,000	28,800	11,600	3,720	1,890	1,720
28	2,460	2,200	2,640	3,310	3,620	30,900	41,200	30,900	11,200	3,510	1,950	1,710
29	2,550	2,200	3,310	3,620	-	27,500	55,300	32,300	10,800	3,510	1,950	1,720
30	2,550	2,920	4,040	3,620	-	25,600	68,400	36,000	10,400	3,310	1,920	1,740
31	2,730	-	4,150	3,510	-	23,700	-	34,500	-	3,210	1,900	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	87,330	4,940	1,960	2,817	0.294	0.34	173,200
November	104,640	6,570	2,200	3,488	.364	.41	207,600
December	136,060	10,100	2,640	4,389	.459	.53	269,900
Calendar year 1938	5,086,180	123,000	1,810	13,930	1.46	19.76	10,090,000
January	121,120	4,820	3,310	3,907	.408	.47	240,200
February	100,430	5,170	2,200	3,587	.375	.39	199,200
March	450,470	39,000	3,410	14,530	1.52	1.75	893,500
April	955,000	68,400	19,300	31,830	3.33	3.72	1,894,000
May	1,412,200	73,400	27,500	45,550	4.76	5.49	2,801,000
June	491,100	27,500	10,400	16,370	1.71	1.91	974,100
July	189,240	10,100	3,210	6,105	.638	.74	375,400
August	72,080	3,210	1,820	2,325	.243	.28	143,000
September	59,460	3,310	1,710	1,982	.207	.23	117,900
Water year 1938-39	4,179,130	73,400	1,710	11,450	1.20	16.26	8,289,000

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 1939.

Average discharge.- 10 years, 2,498 second-feet.

Extremes.- Maximum discharge during year, 16,900 second-feet May 4 (gage height, 9.10 feet); minimum, 277 second-feet Sept. 25-29 (gage height, 1.25 feet).
1929-39: 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. No diversions.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	339	550	665	722	565	529	4,020	14,300	5,920	2,100	572	306
2	350	543	625	756	522	543	4,710	14,300	5,240	1,960	550	306
3	373	625	649	835	515	543	5,020	15,600	4,820	1,850	536	312
4	373	817	610	790	529	543	5,570	15,900	4,920	1,960	522	317
5	379	673	748	730	550	529	4,710	14,900	4,610	1,960	522	306
6	434	565	826	697	558	536	4,020	12,400	4,220	1,900	494	317
7	441	522	880	673	543	522	3,570	10,700	3,840	1,740	474	333
8	403	515	1,820	657	415	529	3,480	10,100	3,480	1,600	467	344
9	367	522	1,870	649	434	529	3,660	10,400	3,570	1,510	460	323
10	350	515	1,540	657	508	543	3,400	10,100	3,480	1,440	454	306
11	602	480	1,190	705	536	595	3,320	10,100	3,400	1,380	448	296
12	773	428	835	773	588	681	3,400	9,850	3,230	1,340	428	296
13	681	428	649	722	625	871	3,150	9,850	3,150	1,260	415	323
14	714	474	665	705	602	808	3,070	10,400	3,150	1,190	403	441
15	689	580	853	705	748	748	3,320	11,500	3,070	1,140	397	494
16	641	975	937	697	697	722	3,570	12,400	3,660	1,060	385	415
17	543	1,190	773	673	641	808	3,750	12,100	3,320	1,000	379	361
18	494	756	705	673	618	1,100	4,310	11,200	3,320	946	367	328
19	467	657	673	689	610	1,460	5,460	11,200	3,480	899	361	317
20	448	673	665	665	580	1,900	6,390	9,040	3,570	937	350	301
21	441	649	618	641	565	2,380	7,490	7,740	3,660	975	339	296
22	428	565	633	543	565	2,750	9,040	7,740	3,230	850	333	291
23	415	441	665	550	550	2,990	9,580	7,490	3,230	826	328	287
24	409	441	697	543	558	3,320	9,310	6,750	3,070	782	328	282
25	415	487	714	625	572	3,840	7,990	6,510	2,750	748	333	277
26	422	529	572	558	550	4,310	7,240	6,510	2,600	722	344	277
27	441	434	641	565	543	3,930	7,740	6,990	2,450	681	333	277
28	441	403	722	595	536	3,480	9,580	7,490	2,310	665	333	277
29	428	467	722	618	-	3,320	12,700	7,740	2,240	649	328	277
30	480	536	773	595	-	3,230	15,200	9,040	2,240	610	328	282
31	522	-	689	558	-	3,150	-	7,240	-	602	317	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	14,703	773	339	474	0.402	0.46	29,160
November	17,440	1,190	403	581	.492	.55	34,590
December	25,624	1,870	572	827	.701	.81	50,820
Calendar year 1938	957,494	20,500	296	2,623	2.22	30.18	1,899,000
January	20,564	835	543	663	.562	.65	40,790
February	15,823	748	415	565	.479	.50	31,380
March	51,739	4,310	522	1,669	1.41	1.63	102,600
April	177,770	15,200	3,070	5,926	5.02	5.60	352,600
May	317,580	15,900	6,510	10,240	8.68	10.01	629,900
June	105,230	5,920	2,240	3,508	2.97	3.31	208,700
July	37,322	2,100	602	1,204	1.02	1.18	74,030
August	12,628	572	317	407	.345	.40	25,050
September	9,565	494	277	319	.270	.30	18,970
Water year 1938-39	805,988	15,900	277	2,208	1.87	25.40	1,599,000

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 power house of Washington Water Power Co., 6 miles southeast of Grangeville.

Drainage area.- 865 square miles.

Records available.- November 1910 to September 1916 and April 1923 to September 1939.

Average discharge.- 20 years (1912-16, 1923-39), 804 second-feet.

Extremes.- Maximum discharge observed during year, 4,060 second-feet Apr. 30 (gage height, 7.36 feet); minimum, 95 second-feet Sept. 25 (gage height, 2.58 feet).
1910-16, 1923-39: 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. Diurnal fluctuations caused by operation of power plant just above station. No diversion for irrigation. Gage read twice daily. Gage-height record furnished by Washington Water Power Co.

Rating table, water year 1938-39 (gage height, in feet, and discharge, in second-feet)

2.5	81	4.0	649	6.0	2,270
2.8	142	4.4	892	6.4	2,720
3.1	232	4.8	1,180	6.8	3,220
3.4	349	5.2	1,510	7.2	3,770
3.7	490	5.6	1,875	7.6	4,360

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	123	202	222	199	166	181	1,510	3,770	1,260	622	184	98
2	130	229	229	219	153	187	1,780	3,630	1,180	594	172	110
3	153	243	222	232	150	187	1,970	3,770	1,100	541	172	112
4	161	315	209	222	187	181	2,270	3,770	1,100	678	169	106
5	156	303	243	209	161	172	1,880	3,350	1,100	678	199	108
6	219	219	232	206	164	187	1,510	2,960	1,030	796	184	112
7	193	206	236	199	172	166	1,340	2,720	960	622	169	118
8	164	219	441	199	156	166	1,420	2,490	892	541	164	125
9	153	232	394	199	137	187	1,510	2,490	1,030	490	153	110
10	137	202	345	199	156	184	1,340	2,270	960	466	150	102
11	181	172	264	206	169	196	1,340	2,270	860	441	142	100
12	418	161	156	216	196	209	1,420	2,170	827	441	140	106
13	246	172	118	209	178	254	1,260	2,070	796	394	135	125
14	209	212	135	209	175	246	1,180	2,070	765	376	130	246
15	250	216	193	209	193	232	1,260	2,070	765	362	125	216
16	311	222	225	202	164	232	1,260	2,170	1,100	328	123	175
17	268	354	181	199	172	272	1,260	2,270	1,030	307	118	137
18	229	315	164	199	169	394	1,510	2,070	1,100	307	118	130
19	206	264	222	199	178	516	1,970	2,270	1,260	303	112	110
20	202	243	172	190	178	706	2,170	2,070	1,180	299	112	112
21	199	219	181	193	172	627	2,490	1,690	1,180	358	110	106
22	190	193	184	135	164	1,030	2,960	1,690	1,030	280	112	106
23	181	156	212	184	175	1,180	2,960	1,600	960	257	104	104
24	175	118	209	178	187	1,340	2,960	1,510	926	243	100	102
25	181	150	196	187	187	1,510	2,720	1,340	860	229	106	98
26	181	140	150	169	187	1,780	2,490	1,340	796	222	110	102
27	169	128	169	190	187	1,600	2,490	1,510	765	219	108	106
28	172	128	196	190	187	1,420	2,840	1,420	706	225	108	104
29	172	181	196	187	-	1,340	3,630	1,420	678	206	110	106
30	187	202	196	184	-	1,340	3,910	1,780	649	196	110	104
31	202	-	190	172	-	1,260	-	1,420	-	199	106	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches.	Acre-feet
October	6,118	418	123	197	0.228	0.26	12,130
November	6,316	354	118	211	.244	.27	12,530
December	6,682	441	118	216	.250	.29	13,250
Calendar year 1938	294,224	5,830	93	806	.932	12.66	583,600
January	6,090	232	135	196	.227	.26	12,080
February	4,820	196	137	172	.199	.21	9,560
March	19,682	1,780	166	635	.734	.85	39,040
April	60,610	3,910	1,180	2,020	2.34	2.61	120,200
May	69,440	3,770	1,340	2,240	2.59	2.99	137,700
June	28,845	1,260	649	962	1.11	1.24	57,210
July	12,220	796	196	394	.455	.52	24,240
August	4,155	199	100	134	.155	.18	8,240
September	3,596	246	98	120	.139	.16	7,130
Water year 1938-39	228,574	3,910	98	626	.724	9.84	453,300

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 1939.

Average discharge.- 13 years, 5,494 second-feet.

Extremes.- Maximum discharge recorded during year, 31,000 second-feet May 4 (gage height, 18.3 feet), from rating curve extended logarithmically above 24,000 second-feet; minimum discharge, 806 second-feet Sept. 27 (gage height, 2.25 feet).

1926-39: Maximum discharge, 100,000 second-feet Dec. 23, 1933 (gage height, 35.5 feet, from floodmarks), from rating curve extended logarithmically above 24,000 second-feet; minimum, probably less that 250 second-feet Jan. 8, 1937, during period of ice effect.

Remarks.- Records excellent except those for periods of missing or incomplete gage heights, Nov. 23, Feb. 8, 9, Feb. 26 to Mar. 2, May 3-5, July 30, 31, which were computed on basis of weather records and records for other stations in Clearwater River Basin and are good. No diversions or regulation above station.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,060	1,280	1,530	1,650	1,350	1,350	10,300	23,300	9,090	3,280	1,350	910
2	995	1,220	1,650	1,690	1,320	1,300	12,400	23,000	8,130	3,160	1,350	862
3	1,020	1,280	1,770	1,990	1,250	1,350	13,000	25,000	7,660	3,040	1,320	910
4	1,280	2,080	1,730	2,180	1,280	1,380	12,800	27,000	7,660	3,520	1,280	938
5	1,150	1,990	1,770	1,900	1,350	1,320	11,400	23,000	7,210	3,280	1,280	910
6	1,150	1,490	2,540	1,770	1,380	1,320	9,770	19,500	6,620	3,040	1,250	910
7	1,280	1,320	2,280	1,650	1,350	1,320	8,450	17,300	6,340	2,920	1,180	995
8	1,120	1,280	3,400	1,610	1,150	1,280	8,130	15,900	5,920	2,700	1,180	1,020
9	1,060	1,280	4,430	1,570	950	1,320	8,770	16,600	5,920	2,590	1,180	938
10	1,020	1,350	3,650	1,570	965	1,350	8,930	16,100	5,780	2,430	1,150	910
11	1,320	1,280	2,760	1,610	1,120	1,420	8,610	15,900	5,640	2,380	1,150	855
12	2,920	1,150	1,860	1,810	1,220	1,990	9,090	15,500	5,360	2,330	1,150	855
13	1,990	1,150	1,350	1,770	1,490	2,590	8,610	15,200	5,220	2,280	1,080	938
14	2,280	1,180	1,380	1,690	1,650	2,480	7,970	15,700	5,080	2,180	1,060	1,250
15	1,810	1,320	1,730	1,650	1,650	2,230	8,290	14,600	4,950	2,080	1,080	1,730
16	1,460	1,990	1,990	1,690	1,690	2,040	9,260	17,800	5,220	1,940	1,020	1,420
17	1,380	3,280	1,730	1,650	1,610	2,080	9,770	17,300	5,220	1,900	1,020	1,120
18	1,250	2,330	1,730	1,650	1,570	2,480	10,600	15,700	4,950	1,860	1,020	995
19	1,180	1,730	1,570	1,690	1,530	3,400	12,800	15,900	5,360	1,810	995	938
20	1,150	1,730	1,570	1,730	1,610	4,820	14,400	14,000	5,500	1,770	995	910
21	1,120	1,770	1,460	1,650	1,420	6,340	15,900	12,100	5,780	1,810	938	910
22	1,080	1,530	1,490	1,490	1,320	7,660	18,500	11,500	5,080	1,770	965	882
23	1,080	1,300	1,530	1,350	1,350	8,930	19,000	11,000	4,820	1,690	938	882
24	1,060	1,060	1,490	1,420	1,380	9,940	18,000	10,300	4,690	1,650	938	855
25	1,060	1,180	1,570	1,530	1,460	11,500	15,700	9,940	4,300	1,570	938	855
26	1,060	1,280	1,350	1,460	1,400	13,000	13,800	9,770	4,040	1,570	995	855
27	1,060	1,020	1,080	1,350	1,400	11,400	14,200	9,940	3,910	1,490	1,020	855
28	1,060	910	1,220	1,420	1,350	9,940	16,800	10,100	3,780	1,460	995	855
29	1,060	995	1,530	1,530	-	9,260	22,200	10,100	3,520	1,490	965	855
30	1,080	1,320	1,770	1,460	-	8,930	24,400	11,700	3,400	1,450	938	855
31	1,180	-	1,730	1,380	-	8,610	-	10,600	-	1,400	938	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	39,775	2,920	995	1,283	0.526	0.61	78,890
November	44,075	3,280	910	1,469	.602	.67	87,420
December	58,640	4,430	1,080	1,892	.775	.89	116,300
Calendar year 1938	1,896,809	53,200	910	5,197	2.13	28.91	3,762,000
January	50,560	2,180	1,350	1,631	.668	.77	100,300
February	38,565	1,690	950	1,377	.564	.59	76,490
March	144,330	13,000	1,280	4,656	1.91	2.20	286,300
April	381,850	24,400	7,970	12,730	5.22	5.82	757,400
May	481,350	27,000	9,770	15,530	6.36	7.33	954,700
June	166,150	9,090	3,400	5,538	2.27	2.53	329,600
July	67,840	3,520	1,400	2,188	.397	1.03	134,600
August	33,658	1,350	938	1,086	.445	.51	66,760
September	28,993	1,730	855	966	.396	.44	57,510
Water year 1938-39	1,535,786	27,000	855	4,208	1.72	23.39	3,046,000

South Fork of Palouse River above Paradise Creek, near Pullman, Wash.

Location.- Water-stage recorder and Parshall flume through low concrete dam, lat. 46°42' 20", long. 117°09'55", in SE¼ sec. 8, T. 14 N., R. 45 E., 1 mile upstream from Paradise Creek and 2 miles southeast of Pullman.

Drainage area.- 81.1 square miles.

Records available.- May 1934 to September 1939.

Extremes.- Maximum discharge during year, 533 second-feet Mar. 21 (gage height, 4.89 feet); no flow Oct. 1-3, July 24 to Sept. 30.
1934-39: Maximum discharge, that of Mar. 21, 1939; no flow frequently during latter part of summer.

Remarks.- Records excellent. Discharge for period of missing gage heights, Oct. 1-13, computed on basis of unpublished records for South Fork of Palouse River below Robinson Park Dam, near Moscow, Idaho, and records for station at Pullman. A 2-foot Cippoletti or a 6-inch rectangular weir, inserted in the flume, was used as control Oct. 14 to Dec. 29, Feb. 8-12, June 2 to Sept. 30, and discharge for these periods was computed by use of weir formulas. Slight regulation at times from operations at Robinson Park Lake in headwaters. No diversions.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.59	1.0	5.1	1.8	14	44	8.9	1.1	0.23		
2	0	1.1	1.7	5.3	1.5	17	26	8.4	1.3	.19		
3	0	1.2	3.1	5.8	1.2	20	35	7.7	1.4	.48		
4	8.5	1.4	3.0	3.6	1.4	17	31	7.2	1.4	.64		
5	10	1.4	3.4	3.5	1.5	13	26	7.2	1.3	.47		
6	.90	1.2	3.0	3.9	1.6	15	23	6.7	1.3	.88		
7	.50	.89	2.2	3.0	1.2	13	22	6.0	1.2	.79		
8	.60	.79	1.8	2.6	1.6	13	20	5.7	1.2	.64		
9	.60	.84	1.7	2.8	1.5	14	18	5.0	1.3	.39		
10	.70	1.0	1.3	2.8	1.6	19	18	4.7	1.3	.32		
11	1.0	.89	1.0	2.9	1.5	91	17	4.3	1.4	.16		
12	.90	.89	.84	3.5	10	250	30	3.7	1.4	.10		
13	.90	.94	.69	3.6	18	145	34	3.3	1.1	.10		
14	.84	.94	.69	3.3	23	96	25	3.2	.94	.08		
15	.60	2.0	.79	3.6	244	82	21	3.0	.89	.08		
16	.74	2.3	.74	3.0	77	102	18	2.9	.94	.06		
17	.56	2.9	.69	2.8	48	204	16	3.3	.99	.04		
18	.51	1.8	.74	4.0	59	291	16	3.9	1.2	.03		
19	.47	1.3	.69	5.2	44	346	15	4.3	1.2	.02		
20	.43	1.2	.69	3.3	26	383	15	3.4	1.2	.02		
21	.52	1.1	.79	2.5	22	373	15	3.0	1.3	.02		
22	.54	.89	.74	2.1	17	332	14	3.9	.99	.02		
23	.43	.69	.94	1.6	17	286	14	4.0	.74	.01		
24	.40	.74	.99	1.6	22	259	13	2.8	.89	0		
25	.34	.64	1.0	1.6	21	239	15	1.9	.64	0		
26	.40	.60	.94	1.7	16	163	13	1.8	.60	0		
27	.32	.60	.84	1.9	17	93	11	1.9	.51	0		
28	.26	.64	1.7	2.4	16	71	9.9	1.6	.43	0		
29	.44	.84	4.2	2.8	-	58	9.1	1.5	.36	0		
30	.60	.99	5.4	2.4	-	49	9.5	1.4	.26	0		
31	.46	-	3.9	2.3	-	44	-	1.2	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	33.36	10	0	1.08	0.013	0.015	66
November	33.20	2.9	.59	1.11	.014	.016	66
December	51.20	5.4	.69	1.65	.020	.023	102
Calendar year 1938	6,404.82	209	0	17.5	.216	2.938	12,700
January	96.5	5.8	1.6	3.11	.038	.044	191
February	713.4	244	1.2	25.5	.314	.327	1,420
March	4,112	383	13	133	1.64	1.891	8,160
April	593.5	44	9.1	19.8	.244	.272	1,180
May	127.8	8.9	1.2	4.12	.051	.059	253
June	30.78	1.4	.26	1.03	.013	.014	61
July	5.77	.88	0	.186	.0023	.003	11
August	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0
Water year 1938-39	5,797.51	383	0	15.9	.196	2.664	11,510

Peak discharge.- Mar. 12 (6 p.m.) 368 sec.-ft.; Mar. 18 (10 p.m.) 451 sec.-ft.; Mar. 19 (10:10 p.m.) 487 sec.-ft.; Mar. 21 (12:50 a.m.) 533 sec.-ft.; Mar. 22 (1:10 a.m.) 451 sec.-ft.; Mar. 23 (1:45 a.m.) 386 sec.-ft.

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 1939.

Extremes.- Maximum discharge during year, 968 second-feet Mar. 21 (gage height, 4.01 feet); minimum, 0.23 second-foot Oct. 26.
1934-39: Maximum discharge, that of Mar. 21, 1939; minimum, that of Oct. 26, 1938.

Remarks.- Records excellent. Discharge for Oct. 4, 5 computed on basis of unpublished records for station below Robinson Park Dam, and that for Jan. 30, 31 computed on basis of records for South Fork above Paradise Creek near Pullman. A 2-foot Cippoletti weir, inserted in 6-foot opening, was used as control Oct. 1-3, Oct. 6 to Nov. 4, July 19 to Sept. 30, and discharge for these periods was computed by use of weir formulas. No large diversions. Slight regulation caused by storage of small amount back of Robinson Park Dam in headwaters and by operation of Moscow sewage-disposal plant on Paradise Creek.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	2.0	2.5	11	3.9	25	59	11	2.5	1.3	0.56	0.64
2	1.2	2.4	5.3	11	3.3	29	41	11	2.4	1.3	.60	.64
3	1.5	3.8	6.6	13	3.2	35	47	9.9	2.5	1.9	.56	.60
4	11	3.8	5.5	6.9	3.2	30	43	9.3	2.7	2.6	.60	.56
5	12	2.5	6.0	6.9	3.8	23	36	8.9	2.7	1.9	.56	.47
6	2.4	2.3	5.7	7.5	3.7	25	32	8.5	2.8	2.3	.47	.47
7	1.6	2.1	4.2	6.4	3.4	23	31	7.7	2.5	1.9	.51	.51
8	1.5	2.9	3.5	5.9	3.4	22	28	7.3	2.4	1.7	.47	.56
9	1.5	2.4	3.2	5.9	3.5	23	25	6.7	2.8	1.5	.60	.56
10	1.6	2.8	2.7	5.9	3.4	31	23	6.5	2.5	1.5	.56	.56
11	2.9	2.4	2.2	5.9	3.7	145	23	6.1	2.4	1.4	.56	.60
12	2.6	2.2	2.0	6.6	31	363	28	5.3	2.4	1.3	.51	.60
13	2.9	2.5	1.9	7.7	39	259	52	4.9	2.2	1.3	.51	.79
14	2.3	2.6	2.0	6.9	57	171	37	4.7	1.9	1.3	.43	.95
15	1.8	5.6	2.0	7.3	418	153	30	4.4	2.1	1.3	.43	.79
16	1.8	6.6	1.9	6.1	136	184	23	4.7	2.2	1.2	.56	.74
17	1.7	5.9	1.9	6.1	86	358	20	5.1	2.2	1.2	.51	.69
18	1.4	3.4	1.9	7.5	115	501	20	5.9	2.3	1.2	.51	.64
19	1.4	3.1	1.9	10	86	598	18	6.8	2.3	1.0	.51	.60
20	1.4	3.3	1.9	7.5	50	666	18	5.3	2.5	.84	.47	.69
21	1.4	2.7	2.0	5.5	37	645	18	4.9	2.5	.69	.43	.64
22	1.2	2.3	2.0	4.6	31	561	17	5.7	2.1	.74	.43	.69
23	1.8	1.9	2.8	3.6	28	458	16	5.9	1.9	.64	.51	.74
24	.93	2.0	2.7	3.8	43	374	16	4.9	1.9	.60	.51	.79
25	1.3	1.8	3.2	3.7	39	334	18	3.8	1.8	.60	.60	.79
26	.33	1.8	2.3	3.9	27	234	16	3.6	1.6	.69	.60	.84
27	.94	1.7	2.2	4.4	31	144	14	3.4	1.7	.64	.56	.79
28	1.1	1.7	5.6	5.5	28	120	13	3.4	1.6	.64	.56	.79
29	1.6	2.0	15	6.3	-	88	11	3.5	1.5	.64	.51	.84
30	1.9	2.3	13	5.5	-	69	12	2.9	1.4	.64	.60	.84
31	1.6	-	8.1	5.0	-	61	-	2.5	-	.56	.70	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off	
						Inches	Acre-feet
October	69.7	12	0.33	2.25	0.017	0.020	138
November	84.8	6.6	1.7	2.83	.021	.023	168
December	125.7	15	1.9	4.05	.031	.036	249
Calendar year 1938	10,703.66	376	.33	29.3	.222	3.017	21,230
January	203.8	13	3.6	6.57	.050	.058	404
February	1,320.5	418	3.2	47.2	.358	.373	2,620
March	6,752	666	22	218	1.65	1.902	13,390
April	785	59	11	26.2	.198	.221	1,560
May	184.5	11	2.5	5.95	.045	.052	366
June	66.3	2.8	1.4	2.21	.017	.019	132
July	37.02	2.6	.56	1.19	.0090	.010	73
August	16.50	.70	.43	.532	.0040	.005	33
September	20.41	.95	.47	.680	.0052	.006	40
Water year 1938-39	9,666.23	666	.33	26.5	.201	2.725	19,170

Peak discharge.- Feb. 15 (5:20 a.m.) 530 sec.-ft.; Mar. 18 (9 p.m.) 812 sec.-ft.; Mar. 19 (10:45 p.m.) 866 sec.-ft.; Mar. 21 (12:30 a.m.) 968 sec.-ft.; Mar. 22 (12:30 a.m.) 812 sec.-ft.; Mar. 22 (12 p.m.) 668 sec.-ft.

Missouri Flat Creek at Pullman, Wash.

Location.- Water-stage recorder and Parshall flume through low concrete 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 mouth.

Drainage area.- 27.5 square miles.

Records available.- February 1934 to September 1939.

Extremes.- Maximum discharge during year, 432 second-feet Mar. 19 (gage height, 3.25 feet); practically no flow Oct. 1, 3-6, 18, 19, 21-24, 27, Aug. 1, 2, 4.
1934-39: Maximum discharge, that of Mar. 19, 1939; practically no flow for long periods in each year.

Remarks.- Records excellent except those above 150 second-feet, which are fair. A 1-foot Cippoletti weir or a 3-inch rectangular weir, inserted in the flume, was used as control Oct. 1 to Dec. 29, Jan. 26 to Feb. 12, May 1 to Sept. 30; discharge for these periods computed by use of weir formulas. No diversion or regulation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.02	0.17	2.8	0.58	4.3	7.0	0.47	0.16	0.01	0	0.01
2	.01	.05	.75	2.6	.46	5.1	5.9	.45	.11	.01	.01	.01
3	0	.19	.77	3.1	.38	6.2	5.0	.42	.10	.01	.01	.01
4	0	.08	.59	1.1	.45	5.4	3.9	.42	.12	.03	0	.01
5	0	.04	.76	1.4	.50	4.2	3.0	.39	.12	.02	.01	.01
6	0	.03	.50	1.1	.48	3.9	2.6	.35	.14	.03	.01	.01
7	.01	.02	.37	.86	.52	4.4	2.8	.32	.16	.01	.01	.01
8	.01	.03	.32	.80	.45	4.0	2.5	.28	.19	.01	.01	.01
9	.01	.03	.28	.80	.35	4.1	2.0	.28	.19	.01	.01	.01
10	.01	.06	.21	.75	.37	5.6	2.0	.25	.16	.01	.01	.01
11	.06	.04	.14	.86	.40	24	2.0	.21	.12	.01	.01	.01
12	.03	.03	.08	.97	5.0	68	8.5	.19	.11	.01	.01	.01
13	.04	.04	.06	1.2	5.1	59	8.6	.17	.07	.02	.01	.01
14	.02	.07	.06	1.2	7.1	35	5.0	.16	.04	.01	.01	.01
15	.01	.43	.08	1.2	73	27	3.1	.14	.06	.01	.01	.01
16	.01	.71	.07	.90	26	26	2.0	.17	.07	.01	.01	.01
17	.01	.38	.07	.92	16	109	1.6	.25	.06	.01	.01	.01
18	0	.21	.10	1.4	27	165	1.3	.32	.06	.01	.01	.01
19	0	.16	.08	2.4	19	194	1.2	.45	.09	.01	.01	.01
20	.01	.35	.10	1.7	10	210	1.2	.35	.10	.01	.01	.01
21	0	.21	.11	.97	7.0	175	1.0	.32	.08	.01	.01	.01
22	0	.14	.12	.70	5.3	136	.86	.35	.06	.01	.01	.01
23	0	.07	.21	.65	5.6	101	.80	.35	.03	.01	.01	.01
24	0	.07	.28	.56	9.5	76	.75	.30	.02	.01	.01	.01
25	.01	.04	.28	.42	6.5	60	.98	.25	.01	.01	.01	.01
26	.01	.04	.12	.48	4.5	36	.92	.28	.01	.01	.01	.01
27	0	.03	.12	.56	5.8	23	.75	.25	.01	.01	.01	.01
28	.01	.06	.71	.64	4.9	17	.60	.21	.01	.01	.01	.01
29	.01	.08	2.7	.92	-	13	.48	.21	.01	.01	.01	.01
30	.02	.12	2.6	.80	-	9.5	.41	.19	.01	.01	.01	.01
31	.01	-	1.2	.74	-	7.8	-	.17	-	.01	.01	-

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	0.31	0.06	0	0.010	0.00036	0.0004	0.61
November	3.83	.71	.02	.128	.0047	.005	7.6
December	14.01	2.7	.06	.452	.016	.018	28
Calendar year 1938	2,271.80	122	0	6.22	.226	3.073	4,510
January	35.50	3.1	.42	1.15	.042	.048	70
February	242.24	73	.35	8.65	.315	.328	480
March	1,618.5	210	3.9	52.2	1.90	2.190	3,210
April	78.75	8.6	.41	2.62	.095	.106	156
May	8.92	.47	.14	.288	.010	.012	18
June	2.48	.19	.01	.083	.0030	.003	4.9
July	.37	.03	.01	.012	.00044	.0005	.73
August	.28	.01	0	.009	.00033	.0004	.56
September	.30	.01	.01	.010	.00036	.0004	.60
Water year 1938-39	2,005.49	210	0	5.49	.200	2.712	3,980

Peak discharge.- Mar. 18 (6 p.m.) 347 sec.-ft.; Mar. 19 (6:10 p.m.) 432 sec.-ft.; Mar. 20 (5:30 p.m.) 390 sec.-ft.; Mar. 21 (7:10 p.m.) 284 sec.-ft.; Mar. 22 (7 p.m.) 213 sec.-ft.

Fourmile Creek at Shawnee, Wash.

Location.- Water-stage recorder and Parshall flume through low concrete dam, lat. 46°49' 55", long. 117°16'20", in SW¼NE¼ sec. 33, T. 16 N., R. 44 E., half a mile upstream from mouth and three-quarters of a mile north of Shawnee.

Drainage area.- 71.9 square miles.

Records available.- March 1934 to September 1939.

Extremes.- Maximum discharge during year, 740 second-feet Mar. 19 (gage height, 3.83 feet); no flow Oct. 1 to Nov. 10, July 2, July 11 to Sept. 30.
1934-39: Maximum discharge, 786 second-feet Jan. 24, 1935 (gage height, 4.13 feet); no flow for long periods in each year.

Remarks.- Records excellent. A 2-foot or a 6-inch Cippoletti weir, inserted in the flume, was used as control Oct. 1 to Dec. 29, Jan. 26 to Feb. 13, May 3 to Sept. 30; discharge for these periods computed by use of weir formulas. No diversion or regulation.

Discharge, in second-feet, water year October 1938 to September 1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.54	8.8	1.6	13	27	2.1	0.64	0.01		
2		0	1.2	8.6	1.2	16	24	1.8	.64	0		
3		0	1.9	9.5	.99	21	21	1.8	.51	.03		
4		0	3.2	2.7	.99	17	17	2.2	.47	.05		
5		0	2.3	3.4	1.1	14	14	2.0	.64	.04		
6		0	2.2	3.5	1.3	13	12	2.1	.84	.06		
7		0	1.5	2.3	1.1	15	13	1.8	.60	.04		
8		0	1.1	2.0	.99	12	12	1.7	.64	.03		
9		0	.94	2.2	.79	12	9.9	1.6	.64	.02		
10		0	.74	2.4	.84	16	9.9	1.4	.60	.01		
11		.14	.47	2.8	.94	90	9.3	1.3	.56	0		
12		.30	.32	2.2	3.6	274	29	1.2	.47	0		
13		.30	.26	2.1	8.2	202	31	1.1	.43	0		
14		.32	.23	3.1	15	99	20	.99	.32	0		
15		.56	.29	2.8	166	80	14	.89	.29	0		
16		.92	.26	2.4	77	120	9.8	.89	.29	0		
17		.70	.29	2.2	46	252	8.2	1.2	.47	0		
18		.48	.32	4.8	67	361	7.3	1.3	.39	0		
19		.36	.32	12	51	394	6.3	1.5	.43	0		
20		.50	.36	5.8	29	373	5.9	1.4	.47	0		
21		.48	.36	2.5	23	261	5.6	1.3	.39	0		
22		.35	.39	1.6	17	225	4.7	1.5	.26	0		
23		.20	.60	1.3	17	175	4.4	1.5	.18	0		
24		.18	1.2	1.1	25	146	4.1	1.5	.12	0		
25		.16	1.3	.99	22	135	4.7	1.2	.10	0		
26		.14	.69	1.1	15	91	5.1	1.1	.08	0		
27		.14	.51	1.4	18	60	3.9	1.2	.07	0		
28		.18	2.4	2.6	16	46	2.9	.99	.06	0		
29		.28	15	3.9	-	37	2.2	.99	.04	0		
30		.40	15	2.7	-	30	2.1	.94	.02	0		
31		-	8.5	2.3	-	28	-	.64	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
October	0	0	0	0	0	0	0
November	7.09	.92	0	.236	.0033	.004	14
December	64.69	15	.23	2.09	.029	.033	128
Calendar year 1938	6,158.32	274	0	16.9	.235	3.182	12,220
January	107.09	12	.99	3.45	.048	.055	212
February	627.64	166	.79	22.4	.312	.325	1,240
March	3,648	394	12	118	1.64	1.891	7,240
April	340.3	31	2.1	11.3	.157	.175	675
May	43.13	2.2	.64	1.39	.019	.022	86
June	11.66	.84	.02	.389	.0054	.006	23
July	.29	.06	0	.009	.00013	.0001	.58
August	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0
Water year 1938-39	4,849.89	394	0	13.3	.185	2.511	9,620

Peak discharge.- Mar. 18 (7:50 p.m.) 728 sec.-ft.; Mar. 19 (7 p.m.) 740 sec.-ft.; Mar. 20 (6 p.m.) 576 sec.-ft.

In addition to the records of stream flow obtained at gaging stations in the Snake River Basin and reported in the preceding pages, measurements of flow were made at other points, as shown in the following table.

Miscellaneous discharge measurements in Snake River Basin during the water year October 1938 to September 1939

Mud Lake Basin, Idaho

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
Nov. 6	Camas Creek.....	Mud Lake.....	NE¼ sec. 12, T. 13 N., R. 37 E., 150 feet below Frazier Dam and 8½ miles northwest of Kilgore.	8.71
7	Beaver Creek....	Camas Creek.....	Sec. 11, T. 12 N., R. 36 E., 1.8 miles north of Spencer.	25.0
June 29	....do.....	....do.....	Sec. 23, T. 12 N., R. 36 E., at county road bridge, ¼ mile southeast of Spencer.	13.5

Portneuf River Basin, Idaho

May 5	Birch Creek.....	Marsh Creek.....	Sec. 27, T. 12 S., R. 36 E., at point of Birch Creek-Devil Creek transmountain diversion, about 3/8 mile below power plant, 8 miles southwest of Downey.	14.5
June 3	....do.....	....do.....	....do.....	9.95

Tributaries between Portneuf River and Salmon Falls Creek, Idaho

July 14	Devil Corral outlet.	Snake River.....	Sec. 32, T. 9 S., R. 18 E., about 3/8 mile above mouth and 4½ miles north of Kimberly.	31.6
Dec. 12	Blue Lakes outlet.	....do.....	SW¼SW¼ sec. 28, T. 9 S., R. 17 E., at mouth, 4 miles north of Twin Falls.	212
Mar. 29	....do.....	....do.....	....do.....	192
May 10	....do.....	....do.....	....do.....	201
June 8	....do.....	....do.....	....do.....	183
July 21	....do.....	....do.....	....do.....	197
Aug. 27	....do.....	....do.....	....do.....	207

Tributaries between Salmon Falls Creek and Big Wood River, Idaho

Dec. 6	Little Canyon Creek.	Snake River.....	Sec. 8, T. 5 S., R. 10 E., 3 miles north of Glenns Ferry.	5.36

Tributaries between Big Wood and Owyhee Rivers, Idaho

Oct. 13	Ake lateral No.1	Mountain Home Feeder canal.	Sec. 36, T. 2 S., R. 6 E., at head, 5 miles north of Mountain Home.	*0.25
Mar. 10	....do.....	....do.....	....do.....	0
17	....do.....	....do.....	....do.....	*0.6
Apr. 10	....do.....	....do.....	....do.....	*.3
May 6	....do.....	....do.....	....do.....	.49
June 16	....do.....	....do.....	....do.....	*.1
Aug. 18	....do.....	....do.....	....do.....	*.1
Oct. 13	Ake lateral No.2	....do.....	....do.....	1.90
Mar. 10	....do.....	....do.....	....do.....	*0.8
17	....do.....	....do.....	....do.....	1.05
Apr. 10	....do.....	....do.....	....do.....	4.50
May 6	....do.....	....do.....	....do.....	5.23
June 16	....do.....	....do.....	....do.....	2.68
Aug. 18	....do.....	....do.....	....do.....	2.82
Mar. 10	Ake lateral No.3	....do.....	....do.....	0
17	....do.....	....do.....	....do.....	0
Apr. 10	....do.....	....do.....	....do.....	0
Aug. 18	....do.....	....do.....	....do.....	0

Boise River Basin, Idaho

May 13	Gambrinus Creek.	Moore Creek.....	Sec. 9, T. 6 N., R. 6 E., ½ mile above mouth, 5 miles northeast of Idaho City.	3.22
26	....do.....	....do.....	....do.....	1.35
June 9	....do.....	....do.....	....do.....	1.17
23	....do.....	....do.....	....do.....	.68
Aug. 17	....do.....	....do.....	....do.....	.31

Malheur River Basin, Oreg.

June 14	Malheur River...	Snake River.....	Sec. 8, T. 19 S., R. 34 E.	29.1
July 9	....do.....	....do.....	....do.....	23.8
June 14	....do.....	....do.....	Sec. 30, T. 19 S., R. 34 E.	18.5
14	....do.....	....do.....	Sec. 4, T. 20 S., R. 34 E.	25.6
July 9	....do.....	....do.....	....do.....	14.8
Apr. 14	Crane Creek.....	South Fork of Malheur River.	Sec. 2, T. 25 S., R. 34 E., above Stewart ranch.	2.0
June 14	Warmsprings Creek.	Cottonwood Creek.....	NW¼ sec. 9, T. 20 S., R. 36 E.	7.8

*Estimated.

Miscellaneous discharge measurements in Snake River Basin during the water year October 1938 to September 1939--Continued

Payette River Basin, Idaho

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
Nov. 2	Cruzen canal....	Lake Fork of Payette River.	Sec. 3, T. 17 N., R. 3 E., at head, 5 miles south of McCall.	6.67
May 6	....do.....	....do.....	....do.....	0
16	....do.....	....do.....	....do.....	36.5
July 20	....do.....	....do.....	....do.....	45.0
Aug. 28	....do.....	....do.....	....do.....	39.2

Powder River Basin, Oreg.

July 9	Cracker Creek...	Powder River.....	NW¼ sec. 32, T. 9 S., R. 37 E., at mouth.	14.9
9	Power plant spillway.	Cracker Creek.....	SW¼ sec. 29, T. 9 S., R. 37 E.	.58
9	Power plant tailrace.	....do.....	SW¼ sec. 29, T. 9 S., R. 37 E., below county road near Sumpter.	1.62
9	McCully Creek...	Powder River.....	NW¼ sec. 32, T. 9 S., R. 37 E., at mouth.	2.36
9	Stoddard Creek..	....do.....	NW¼ sec. 20, T. 10 S., R. 38 E. near McEwen.	0
10	Unnamed Creek...	....do.....	SW¼ sec. 29, T. 10 S., R. 38 E., at Phillips ranch, near McEwen.	.02
10	Dean Creek.....	....do.....	SE¼ sec. 28, T. 10 S., R. 38 E., near McEwen.	.14
10	Deer Creek.....	....do.....	SW¼ sec. 5, T. 10 S., R. 38 E., 800 feet above mouth of Alder Creek, near McEwen.	5.2
10	Bridge Creek....	....do.....	SE¼ sec. 15, T. 10 S., R. 38 E., near Hershal.	0
9	Union Creek.....	....do.....	SW¼ sec. 14, T. 10 S., R. 38 E., near Hershal.	.24
10	Springs.....	....do.....	NW¼ sec. 23, T. 10 S., R. 38 E., at Barnett ranch, at Hershal.	.70
9	California Gulch	....do.....	NW¼ sec. 29, T. 10 S., R. 39 E., near Mason.	*.05
10	Spring.....	....do.....	SW¼ sec. 33, T. 10 S., R. 39 E., above Miles ranch	.45
10	Poker Creek.....	....do.....	NW¼ sec. 34, T. 10 S., R. 39 E., near Lockhart.	0
9	Lake Creek.....	....do.....	NE¼ sec. 34, T. 10 S., R. 39 E., at mouth, near Lockhart.	*.02
10	Denny Creek.....	....do.....	SW¼ sec. 35, T. 10 S., R. 39 E., near Denny.	.20
9	Rancheria Creek.	....do.....	NW¼ sec. 36, T. 10 S., R. 39 E., at mouth, near Salisbury.	*.10
9	Stices Gulch....	....do.....	NE¼ sec. 36, T. 10 S., R. 39 E., at mouth, near Salisbury.	*.08
May 9	Pine Creek.....	....do.....	NW¼SE¼ sec. 25, T. 8 S., R. 38 E., below Cartmill ditch.	14.8
11	....do.....	....do.....	....do.....	12.6
12	....do.....	....do.....	....do.....	12.2
13	....do.....	....do.....	....do.....	12.2

Salmon River Basin, Idaho

Nov. 15	Big Creek.....	Pahsimeroi River.....	Sec. 22, T. 13 N., R. 24 E., at mouth of canyon, ¼ mile below North Fork of Big Creek, 8½ miles southeast of Patterson.	25.0
June 7	Johnson Creek diversion.	Johnson Creek.....	Sec. 23, T. 14 N., R. 7 E., about ½ mile below point of Johnson Creek-Deadwood River transmountain diversion, 9 miles south of Landmark ranger station, and 11 miles southeast of Knox.	10.8

*Estimated.

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YEARLY-DISCHARGE SUMMARY

PART 13. SNAKE RIVER BASIN

The following tables summarize in convenient form for general reference and for use in preliminary investigations the figures of yearly discharge and run-off for certain gaging stations in the Snake River Basin, previously published in the annual series of water-supply papers. All gaging stations, both active and discontinued, at which 10 or more complete years of record have been collected and published are represented, also some special stations, as noted below. The summaries present figures of maximum and minimum daily discharge and yearly mean discharge and run-off, for both the water years ending September 30 and the calendar years. The figures for the water years prior to 1911 and figures for the calendar years 1911 to 1933 have not been previously published in the annual water-supply papers but are included in these summaries.

The number of the water-supply paper in which the figures of daily and monthly discharge as well as yearly discharge are published is shown in the column headed W.S.P. (no. and page). The descriptions contained in the water-supply papers indicated give detailed information relative to the gaging stations, including location, diversions, regulation by storage, effect of irrigation, and other pertinent information. Records for stations which were operated prior to 1901 are generally contained in the annual reports of the Geological Survey. Reference is made to these reports if records have not also been published in water-supply papers.

Figures of drainage area are given for each station when known. These figures have been revised from time to time as more accurate maps have become available. The discharge per square mile and run-off in inches in the following tables, in general, have been revised according to the latest figure for the drainage area.

Summaries for incomplete years are given for those stations in irrigated regions for which seasonal records were collected in order to show the flow available for irrigation. They have been compiled from the records of daily and monthly discharge contained in the water-supply paper indicated. For summaries after 1911 if the period extends beyond Sept. 30, records of daily and monthly discharge after that day are contained in the water-supply paper indicated for the following year. An incomplete year is included for other stations if the maximum daily discharge or minimum daily discharge for all the years of record occurred in that year.

Former names under which records for some of the stations have been published in the annual water-supply papers are indicated in these yearly summaries as follows:

1. If the name of the stream or town or other feature to which the station is referred has been changed, the former name is given in parentheses, indicating that records for some of the earlier years are published under the obsolete name.

2. If the entire name of a station has been changed, the superseded name and years when it was used are given in parentheses beneath the present name.

Summary of yearly discharge, in second-feet, at stations in SNAKE RIVER MAIN STEM

Jackson Lake at Moran, Wyo.

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day		Contents on Sept. 30	Maximum day	Minimum day		Contents on Dec. 31
1909	332-276	320,680	-		116,620	320,680	-		-
1910	332-276	317,460	89,910		112,900	317,460	89,910		164,980
1911	332-277	322,400	66,440		74,160	322,400	66,440		104,560
1912	332-277	442,360	46,900		111,970	442,360	46,900		52,180
1913	362-263	453,730	51,300		71,820	453,730	50,420		50,420
1914	393-17	453,280	50,420		117,180	453,280	50,420		160,160
1915	413-16	483,470	55,570		58,960	483,470	55,570		123,310
1916	443-17	750,270	57,530		264,550	750,270	124,060		330,370
1917	463-8	797,780	264,550		341,440	797,780	326,050		429,020
1918	483-8	797,530	153,830		167,130	797,530	153,830		260,200
1919	513-13	628,680	0		340	628,680	0		79,580
1920	513-14	746.040	0		142,920	746,040	80,310		246,960
1921	533-12	847,230	144,240		170,250	847,230	151,340		260,200
1922	553-12	847,480	171,030		255,650	847,480	244,070		314,240
1923	573-9	848,000	142,920		145,200	848,000	142,920		221,430
1924	593-12	486,700	2,410		2,410	486,700	2,410		97,230
1925	613-13	848,250	2,410		390,020	848,250	98,150		479,340
1926	633-11	758,980	690		1,380	758,980	690		92,110
1927	653-11	848,000	690		519,100	848,000	92,840		549,450
1928	673-11	847,740	520,960		590,030	847,740	538,210		581,490
1929	693-12	847,480	388,250		395,140	847,480	388,250		451,460
1930	708-11	827,120	246,140		246,140	827,120	246,140		327,340
1931	723-12	546,870	4,990		4,990	546,870	4,810		68,410
1932	738-12	807,880	4,810		376,070	807,880	69,300		433,760
1933	753-12	850,050	203,340		204,140	850,050	203,340		250,890
1934	768-11	438,500	5,500		5,500	438,500	5,500		85,180
1935	793-15	713,460	5,850		113,270	713,460	85,910		165,960
1936	813-15	855,940	113,270		360,660	855,940	166,540		407,880
1937	833-10	857,220	231,820		232,020	857,220	231,820		296,960
1938	863-11	855,940	232,020		398,710	855,940	297,810		478,430
1939	883-11	850,300	312,530		313,170	-	-		-

Note.- Figures given in the above table are of usable contents.
Figures of contents obtained from capacity table in use since 1917, after dredging of lake outlet. Figures prior to 1918 include about 50,000 acre-feet of storage not ther available for release. Storage in reservoir began in 1906, but records not available until 1909.

Summary of yearly discharge, in second-feet, at stations on Snake River main stem--Continued

Snake River near Moran, Wyo.
(Drainage area, 820 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1904	135-181	7,930	440	1,790	1,302,000	7,930	390	1,756	1,275,000
1905	178-103	4,990	374	1,080	780,000	4,990	374	1,063	769,500
*1906	214-80	5,930	374	1,240	899,000	5,930	0	1,170	846,000
*1907	252-220	7,380	0	1,750	1,270,000	7,380	0	1,920	1,389,000
1908	252-220	6,300	0	1,550	1,124,000	6,300	560	1,520	1,106,000
1909	272-252	10,600	0	2,020	1,461,000	10,600	0	2,110	1,534,000
1910	292-291	12,100	0	1,720	1,242,000	12,100	60	1,490	1,078,000
1911	312-265	9,700	56	1,910	1,385,000	9,700	44	1,980	1,430,000
1912	332-280	9,350	44	1,620	1,176,000	9,350	69	1,790	1,297,000
1913	362-265	10,100	104	2,040	1,476,000	10,100	104	1,970	1,427,000
1914	393-19	9,520	40	1,530	1,104,000	9,520	28	1,450	1,052,000
1915	413-19	9,520	28	1,150	828,000	9,520	28	1,030	748,000
1916	443-19	9,350	30	1,410	1,017,000	9,350	40	1,430	1,036,000
1917	463-10	12,000	44	1,600	1,161,000	12,000	34	1,560	1,132,000
1918	483-10	14,720	22	1,970	1,423,000	14,720	22	1,960	1,420,000
1919	513-17	11,600	24	1,180	852,000	11,600	13	1,180	854,000
1920	513-17	10,800	13	1,170	851,000	10,800	12	1,170	846,000
1921	533-14	10,900	12	1,440	1,041,000	10,900	12	1,440	1,042,000
1922	553-14	11,000	17	1,280	922,000	11,000	15	1,290	931,000
1923	573-11	10,600	12	1,460	1,055,000	10,600	12	1,450	1,048,000
1924	593-14	8,720	19	1,090	791,000	8,720	11	1,090	790,000
1925	613-15	9,100	11	1,300	940,000	9,100	11	1,300	941,000
1926	633-13	9,590	26	1,590	1,152,000	9,590	10	1,590	1,155,000
1927	653-13	12,500	10	1,240	898,000	12,500	10	1,390	1,010,000
1928	673-12	10,200	14	1,740	1,260,000	10,200	14	1,700	1,237,000
1929	693-13	7,500	30	1,460	1,061,000	7,500	34	1,340	972,000
1930	708-12	7,620	34	1,300	943,000	7,620	24	1,300	941,000
1931	723-13	7,110	21	1,130	817,000	7,110	9	1,120	813,000
1932	738-13	6,890	8	856	621,000	6,890	8	860	623,000
1933	753-13	7,530	15	1,450	1,050,000	7,530	15	1,460	1,055,000
1934	768-12	5,760	17	1,140	827,000	5,760	10	1,128	815,900
1935	793-16	8,260	10	1,141	825,900	8,260	11	1,154	835,700
1936	813-16	5,850	18	1,131	821,300	5,850	18	1,121	813,900
1937	833-11	7,610	23	1,264	908,000	7,610	23	1,267	917,500
1938	863-12	7,450	30	1,352	979,000	7,450	23	1,347	974,700
1939	883-12	6,890	23	1,352	978,400	-	-	-	-

*Yearly figures not previously published; discharge for periods of missing record estimated.
Note.- Records not adjusted for change in contents in Jackson Lake.

Snake River near Lyon, Idaho

*1904	135-184	51,450	2,960	9,050	6,573,000	51,450	1,495	8,840	6,422,000
*1905	178-105	17,850	1,495	4,560	3,306,000	17,850	1,800	4,480	3,240,000
*1906	214-82	26,500	1,700	6,010	4,350,000	26,500	1,700	6,030	4,368,000
*1907	252-223	31,900	1,850	9,570	6,926,000	31,900	-	10,000	7,237,000
*1908	252-223	26,000	2,790	6,970	5,061,000	26,000	2,430	6,670	4,844,000
*1909	272-255	44,000	2,430	9,550	6,911,000	44,000	2,860	9,880	7,165,000
*1910	292-293	29,000	2,660	7,730	5,599,000	29,000	2,260	7,300	5,283,000

*Yearly figures not previously published; discharge for periods of missing record estimated.

Snake River near Heise, Idaho
(Drainage area, 5,740 square miles)

1911	312-269	36,000	2,700	7,950	5,758,000	36,000	2,700	7,980	5,777,000
1912	332-283	34,600	2,310	8,190	5,949,000	34,600	2,310	8,550	6,207,000
1913	362-267	33,900	2,430	8,900	6,442,000	33,900	2,430	8,810	6,377,000
1914	393-20	33,400	2,480	8,020	5,809,000	33,400	2,480	7,960	5,764,000
*1915	413-21	16,900	2,180	5,440	3,940,000	16,900	2,180	5,180	3,749,000
*1916	443-22	27,800	-	7,940	5,761,000	27,800	-	8,120	5,897,000
*1917	463-13	37,900	-	8,970	6,448,000	37,900	-	8,990	6,507,000
*1918	483-13	51,600	-	9,140	6,620,000	51,600	-	9,090	6,580,000
*1919	513-19	17,900	-	5,340	3,869,000	17,900	-	5,110	3,697,000
*1920	513-19	25,700	1,980	7,000	5,082,000	25,700	1,980	7,090	5,148,000
*1921	533-16	33,300	-	7,860	5,690,000	33,300	-	7,830	5,682,000
*1922	553-16	25,500	-	7,090	5,129,000	25,500	-	7,090	5,133,000
*1923	573-13	24,100	-	7,110	5,144,000	24,100	-	7,110	5,150,000
*1924	593-15	15,000	2,190	5,190	3,766,000	15,000	2,110	5,110	3,713,000
1925	613-17	24,700	2,100	7,640	5,530,000	24,700	2,180	7,820	5,663,000
1926	633-15	18,700	2,340	5,940	4,296,000	18,700	2,300	5,820	4,212,000
1927	653-14	36,600	2,000	7,980	5,782,000	36,600	2,000	8,390	6,075,000
1928	673-13	35,500	2,370	8,540	6,195,000	35,500	2,370	8,300	6,027,000
1929	693-14	23,600	2,410	6,220	4,506,000	23,600	2,410	6,050	4,381,000
1930	708-13	19,700	2,200	6,100	4,419,000	19,700	1,500	6,190	4,477,000
1931	723-14	12,100	1,500	4,450	3,231,000	12,100	1,940	4,220	3,059,000
1932	738-14	21,300	1,710	5,960	4,325,000	21,300	1,710	6,100	4,436,000
1933	753-14	25,600	2,100	5,970	4,323,000	25,600	2,040	5,890	4,260,000
1934	768-13	13,400	1,920	4,120	2,980,000	13,400	1,760	3,981	2,882,000
1935	793-17	21,400	1,580	5,531	4,004,000	21,400	1,580	5,637	4,081,000
1936	813-27	28,600	1,800	7,030	5,103,000	28,600	1,800	7,114	5,164,000
1937	833-13	17,400	1,960	5,443	3,941,000	17,400	1,960	5,411	3,918,000
1938	863-14	22,600	1,940	6,898	4,994,000	22,600	1,940	7,006	5,072,000
1939	883-15	18,800	2,120	6,087	4,406,000	-	-	-	-

*Yearly figures not previously published; discharge for period of missing record estimated.
Note.- Records not adjusted for change in contents in Jackson Lake.

Summary of yearly discharge, in second-feet, at stations on Snake River main stem--Continued

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

Period (May to September)	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
*1919	513-20	7,830	-	1,375,000
*1920	513-20	9,090	-	1,680,000
*1921	533-17	9,610	-	1,582,000
*1922	553-17	9,820	-	1,702,000
*1923	573-16	9,470	-	1,787,000
*1924	593-19	9,290	3,380	1,700,000
1925	613-20	10,000	881	1,769,000
1926	633-19	8,300	3,330	1,789,000
*1927	653-16	10,000	-	1,812,000
*1928	673-14	9,080	-	1,940,000
*1929	693-15	10,000	-	1,788,000
1930	708-14	9,000	2,440	1,873,000
1931	723-15	7,700	1,800	1,501,000
1932	738-15	9,880	546	1,839,000
1933	753-15	10,200	284	1,816,000
1934	768-14	7,800	2,130	1,337,000
1935	793-18	9,310	506	1,703,000
1936	813-28	10,100	475	1,925,000
1937	833-14	9,070	431	1,810,000
1938	863-15	9,360	570	1,938,000
1939	883-16	8,450	1,450	2,012,000

*Figures for period not previously published; discharge for periods of missing record estimated by Idaho Water District No. 36.

Note.- Records include flow of Riley ditch, which diverted about 4,000 acre-feet annually at a point 1 mile above Heise gaging station.

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

*1919	513-24, 27	2,970	-	417,000
*1920	513-24, 27	3,240	-	648,000
*1921	533-19, 21	3,350	-	606,000
*1922	553-19, 22	3,300	-	573,000
*1923	573-18, 21	2,870	-	614,000
*1924	593-21, 26	3,540	493	538,000
1925	613-23, 28	3,820	886	769,000
1926	633-21, 26	3,460	493	547,000
*1927	653-18, 22	3,950	-	759,000
*1928	673-17	3,630	-	802,000
*1929	693-18	3,980	-	726,000
1930	708-17	3,870	1,250	798,000
1931	723-18	3,420	176	533,000
1932	738-18	3,990	410	753,000
1933	753-17	4,190	416	754,000
1934	768-16	3,540	313	454,000
1935	793-20	3,820	563	690,000
1936	813-30	4,030	775	800,000
1937	833-16	3,930	313	721,000
1938	863-17	4,050	797	781,800
1939	883-18	3,780	1,200	839,900

*Figures for period not previously published; discharge for periods of missing record estimated by the Idaho Water District No. 36.

Snake River at Clough ranch, near Blackfoot, Idaho
(Drainage area, 11,700 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1911	312-271	32,900	625	6,780	4,906,000	32,900	625	6,960	5,048,000
1912	332-287	34,000	2,410	8,050	5,839,000	34,000	2,660	8,500	6,165,000
1913	362-269	32,400	1,920	8,970	6,495,000	32,400	1,920	8,900	6,441,000
1914	393-24	35,500	2,130	7,540	5,467,000	35,500	2,130	7,520	5,444,000
1915	413-26	15,600	388	4,440	3,211,000	15,600	388	4,020	2,913,000
*1916	443-26	24,700	1,020	6,870	4,980,000	24,700	1,410	7,030	5,104,000
1917	463-16	35,900	1,530	8,380	6,068,000	35,900	1,530	8,400	6,082,000
1918	483-17	46,200	1,790	7,720	5,584,000	46,200	1,790	7,570	5,483,000
1919	513-30	11,900	118	3,640	2,635,000	11,900	118	3,220	2,335,000
1920	513-30	21,400	266	4,600	3,342,000	21,400	558	4,900	3,559,000
1921	533-22	28,800	1,380	6,410	4,637,000	28,800	1,730	6,330	4,584,000
1922	553-24	25,300	449	5,360	3,882,000	25,300	443	5,250	3,807,000
1923	573-23	20,400	445	4,890	3,534,000	20,400	483	5,050	3,654,000
1924	593-27	9,120	131	2,620	1,902,000	9,120	131	2,310	1,678,000
1925	613-30	24,300	467	5,930	4,298,000	24,300	1,920	6,520	4,714,000
1926	633-28	12,580	147	3,830	2,772,000	12,580	147	3,270	2,374,000
1927	653-23	33,600	749	6,260	4,537,000	33,600	1,330	6,930	5,006,000
1928	673-18	33,200	343	6,570	4,769,000	33,200	343	6,270	4,550,000
1929	693-19	21,000	191	3,850	2,792,000	21,000	191	3,730	2,702,000
1930	708-18	8,310	163	3,060	2,220,000	8,310	163	3,070	2,221,000
1931	723-19	4,800	139	1,740	1,263,000	4,800	139	1,170	848,000
1932	738-19	16,400	158	2,830	2,059,000	16,400	182	3,120	2,263,000
1933	753-18	14,800	169	2,850	2,066,000	14,800	169	2,760	2,000,000
1934	768-17	2,920	124	983	712,000	2,760	111	739	535,000
1935	793-21	10,600	111	2,001	1,449,000	10,600	158	2,268	1,642,000
1936	813-31	25,000	158	3,969	2,881,000	25,000	187	4,070	2,954,000
1937	833-17	12,400	163	2,414	1,748,000	12,400	163	2,374	1,718,000
1938	863-18	19,300	157	4,385	3,174,000	19,300	157	4,737	3,429,000
1939	883-19	12,700	166	3,134	2,269,000	-	-	-	-

*Yearly figures not previously published; discharge for periods of missing record estimated.

Note.- Records not adjusted for change in contents in Jackson Lake.

Summary of yearly discharge, in second-feet, at stations on Snake River main stem--Continued

American Falls Reservoir at American Falls, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day		Contents on Sept. 30	Maximum day	Minimum day		Contents on Dec. 31
1927	653-24	1,708,960	4,390		1,389,200	1,708,960	407,030		1,501,270
1928	673-19	1,711,200	967,670		967,670	1,711,200	855,280		1,155,210
1929	693-20	1,575,400	738,630		746,000	1,575,400	738,630		876,260
1930	708-19	1,321,350	547,360		552,340	1,321,350	547,360		931,290
1931	723-20	1,553,840	26,180		39,330	1,553,840	17,200		231,800
1932	738-20	1,278,140	17,200		232,230	1,278,140	228,260		673,350
1933	753-19	1,405,340	228,260		244,430	1,405,340	236,850		655,090
1934	768-18	1,143,680	27,730		32,300	1,143,680	17,500		250,750
1935	793-22	1,004,560	17,500		45,220	1,004,560	42,460		481,660
1936	813-32	1,726,010	46,960		606,230	1,726,010	489,960		1,146,450
1937	833-18	1,722,020	401,640		411,900	1,722,020	401,640		950,150
1938	863-19	1,726,580	412,920		684,720	1,726,580	672,350		1,483,460
1939	883-20	1,722,020	247,370		252,050	-	-		-

Note.- Figures given in the above table are of usable contents. Storage began Mar. 1, 1926.

Snake River at Neeley, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
*1907	252-214	35,300	4,270	11,700	8,486,000	35,300	5,320	12,400	8,939,000
1908	252-214	88,000	3,660	9,320	6,773,000	33,000	3,660	9,140	6,622,000
1909	272-257	41,100	5,280	11,800	8,541,000	41,100	5,280	12,300	8,878,000
*1910	292-300	31,800	2,610	10,200	7,356,000	31,800	2,610	9,410	6,808,000
1911	312-273	37,600	3,150	9,780	7,077,000	37,600	3,150	10,000	7,268,000
1912	332-289	36,600	5,200	11,100	8,042,000	36,600	5,300	11,600	8,424,000
1913	362-271	35,500	5,010	11,900	8,601,000	35,500	5,160	11,700	8,500,000
1914	393-26	37,700	4,870	10,400	7,549,000	37,700	4,870	10,300	7,465,000
1915	413-28	17,300	2,780	6,840	4,953,000	17,300	2,780	6,390	4,623,000
1916	443-28	26,800	3,760	9,400	6,824,000	26,800	-	9,640	6,992,000
1917	463-18	37,500	3,700	11,200	8,119,000	37,500	3,700	11,300	8,176,000
1918	483-19	48,400	4,360	10,500	7,590,000	48,400	4,360	10,300	7,470,000
1919	513-33	14,900	2,440	6,370	4,606,000	14,900	2,440	5,910	4,276,000
1920	513-33	24,700	2,760	7,340	5,326,000	24,700	3,340	7,700	5,585,000
1921	533-25	32,050	3,840	9,360	6,773,000	32,050	4,500	9,260	6,701,000
1922	553-26	28,600	3,040	8,310	6,017,000	28,600	3,040	8,190	5,932,000
1923	573-24	22,900	3,110	7,780	5,628,000	22,900	3,220	8,030	5,812,000
1924	593-29	11,120	2,450	5,370	3,902,000	11,120	2,180	4,950	3,593,000
1925	613-31	26,260	2,180	8,690	6,287,000	26,260	4,480	9,350	6,766,000
1926	633-30	11,160	2,660	6,610	4,785,000	11,160	1,040	5,460	3,950,000
1927	653-26	33,700	1,040	7,010	5,077,000	33,700	1,360	8,110	5,865,000
1928	673-20	28,760	2,100	9,880	7,170,000	28,760	1,570	9,480	6,880,000
1929	693-22	14,400	500	6,890	4,986,000	14,400	130	6,860	4,965,000
1930	708-20	10,600	130	6,140	4,442,000	10,600	140	5,810	4,202,000
1931	723-21	10,800	140	5,260	3,811,000	10,800	125	4,910	3,552,000
1932	738-21	12,100	125	5,340	3,874,000	12,100	124	5,260	3,815,000
1933	753-20	11,700	124	5,520	4,006,000	11,700	181	5,500	3,988,000
1934	768-19	9,370	181	3,830	2,777,000	9,370	371	3,796	2,749,000
1935	793-23	11,900	371	4,526	3,277,000	11,900	478	4,482	3,245,000
1936	813-33	28,400	144	5,734	4,163,000	28,400	144	5,705	4,141,000
1937	833-19	15,800	250	5,355	3,877,000	15,800	250	5,351	3,874,000
1938	863-20	24,700	256	6,656	4,819,000	24,700	270	6,640	4,807,000
1939	883-21	15,000	270	6,422	4,650,000	-	-	-	-

*Yearly figures not previously published; discharge for period of missing record estimated.
Note.- Records not adjusted for change in contents in American Falls Reservoir, which began storing Mar. 1, 1926.

Lake Walcott near Minidoka, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day		Contents on Sept. 30	Maximum day	Minimum day		Contents on Dec. 31
1909	463-19	74,070	1,720		1,720	74,070	-3,140		-
1910	463-19	87,620	-3,140		37,260	87,620	-		-
1911	463-19	95,550	-		91,570	95,550	-		-
1912	463-20	104,460	48,410		59,130	104,460	5,240		57,300
1913	463-20	101,210	5,240		68,090	101,210	-9,170		6,200
1914	463-21	103,140	-9,170		92,970	103,140	6,200		59,020
1915	463-21	104,460	39,440		51,600	104,460	39,440		50,000
1916	463-22	100,610	44,190		89,710	100,610	48,410		49,470
1917	463-22	105,310	49,470		72,830	105,310	49,470		86,100
1918	483-20	105,910	63,040		91,230	105,910	68,640		81,280
1919	513-34	106,510	14,980		14,980	106,510	14,980		80,950
1920	513-34	107,110	15,480		92,860	107,110	79,480		84,010
1921	533-26	106,630	60,630		60,630	106,630	26,550		84,940
1922	553-27	110,740	26,550		51,060	110,740	43,130		89,830
1923	573-25	109,990	35,090		55,040	109,990	35,090		89,940
1924	593-30	108,740	-2,380		-950	108,740	-2,380		89,830
1925	613-32	109,360	570		95,550	109,360	86,800		89,130
1926	633-31	108,360	11,710		13,600	108,360	11,710		54,720
1927	653-26	106,870	17,660		102,900	106,870	50,850		91,690
1928	673-21	106,030	84,940		91,690	100,010	82,860		94,020
1929	693-23	102,660	-1,430		102,660	102,660	-1,430		71,170
1930	708-21	97,840	53,970		96,390	97,470	55,360		69,410
1931	723-22	96,870	15,580		17,060	96,870	15,580		63,700
1932	738-22	97,840	17,460		78,920	97,840	36,430		66,550

Summary of yearly discharge, in second-feet, at stations on Snake River main stem--*Continued*

Lake Walcott near Minidoka, Idaho--Continued

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day		Contents on Sept. 30	Maximum day	Minimum day		Contents on Dec. 31
1933	753-21	96,630	36,430		83,540	96,630	31,660		71,170
1934	768-20	97,960	10,530		11,220	97,960	10,330		62,160
1935	793-24	98,320	10,330		22,490	98,320	11,120		64,470
1936	813-34	101,210	11,120		48,410	101,210	11,620		60,420
1937	833-20	97,110	11,620		50,520	97,110	33,950		66,990
1938	863-21	99,760	33,950		79,480	99,760	60,310		66,550
1939	883-22	98,560	61,830		76,770	-	-		-

Note.- Negative figures indicate storage not available for irrigation diversion.

Snake River near Minidoka, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1896	(a)	53,000	4,600	8,870	6,443,000	53,000	4,880	8,940	6,491,000
*1897	(b)	47,500	4,800	10,100	7,299,000	47,500	4,800	10,100	7,301,000
*1898	(c)	26,360	4,350	8,000	5,791,000	26,360	4,350	8,070	5,844,000
*1899	(d)	39,200	4,850	10,400	7,508,000	39,200	4,850	10,500	7,620,000
†1901	-	29,500	2,090	7,070	5,125,000	29,500	2,090	7,320	5,297,000
†1902	-	27,800	2,140	7,510	5,445,000	27,800	2,140	7,480	5,408,000
1903	100-445	22,950	2,640	7,540	5,457,000	22,950	2,640	7,620	5,505,000
1904	135-175	38,000	4,100	10,000	7,278,000	38,000	4,100	10,000	7,261,000
1905	178-95	13,700	1,880	5,720	4,147,000	13,700	1,880	5,290	3,827,000
*1906	214-74	24,300	1,640	7,130	5,168,000	24,300	1,640	7,230	5,238,000
*1907	252-217	35,000	-	10,500	7,622,000	35,000	-	11,200	8,121,000
1908	252-217	30,000	1,880	8,580	6,214,000	30,000	1,880	8,440	6,118,000
1909	272-260	37,900	5,440	11,100	8,009,000	37,900	5,560	11,400	8,231,000
*1910	292-306	28,000	1,810	9,100	6,588,000	28,000	1,810	8,390	6,074,000
1911	312-276	33,800	1,820	8,880	6,413,000	33,800	2,290	9,270	6,704,000
1912	332-291	34,300	3,880	10,400	7,534,000	34,300	3,080	10,800	7,874,000
1913	362-273	32,800	3,080	10,800	7,852,000	32,800	4,720	10,800	7,834,000
1914	393-27	36,100	2,710	9,510	6,890,000	36,100	2,710	9,230	6,685,000
1915	413-30	16,200	1,880	5,960	4,312,000	16,200	1,880	5,530	4,008,000
1916	443-30	23,900	3,280	8,420	6,115,000	23,900	3,280	8,780	6,369,000
1917	463-24	34,300	4,310	10,300	7,488,000	34,300	4,640	10,400	7,498,000
1918	483-22	45,800	4,160	9,430	6,823,000	45,800	2,880	9,250	6,700,000
1919	513-37	13,600	1,700	5,480	3,971,000	13,600	1,700	4,930	3,562,000
1920	513-37	21,900	1,760	6,050	4,382,000	21,900	2,630	6,540	4,749,000
1921	533-28	32,500	2,670	8,580	6,209,000	32,500	2,140	8,420	6,096,000
1922	553-29	27,000	2,140	7,320	5,306,000	27,000	1,760	7,190	5,210,000
1923	573-27	20,600	1,740	6,820	4,941,000	20,600	1,730	7,070	5,115,000
1924	593-32	7,220	1,730	4,560	3,312,000	7,220	1,770	4,020	2,916,000
1925	613-34	24,710	1,770	7,270	5,266,000	24,710	3,000	8,030	5,812,000
1926	633-33	8,350	2,140	5,590	4,049,000	8,350	1,110	4,410	3,189,000
1927	653-28	31,630	1,110	5,710	4,136,000	31,630	1,500	5,860	4,966,000
1928	673-22	26,170	1,500	8,710	6,323,000	26,170	1,670	8,330	6,038,000
1929	693-24	14,800	1,670	5,930	4,296,000	14,800	1,260	5,920	4,282,000
1930	708-22	7,920	1,260	5,000	3,622,000	7,370	1,230	4,710	3,408,000
1931	723-23	7,740	1,060	4,310	3,119,000	7,740	1,060	3,900	2,827,000
1932	738-23	8,880	1,140	4,140	3,002,000	8,880	770	4,080	2,963,000
1933	753-22	8,670	770	4,300	3,113,000	8,670	1,050	4,240	3,070,000
1934	768-21	7,250	1,050	3,330	2,411,000	7,250	310	3,187	2,308,000
1935	793-25	8,730	120	3,405	2,465,000	8,730	120	3,429	2,483,000
1936	813-35	26,500	165	4,620	3,354,000	26,500	165	4,607	3,345,000
1937	833-21	13,400	255	4,252	3,078,000	13,400	405	4,218	3,053,000
1938	863-22	22,300	405	5,470	3,960,000	22,300	416	5,523	3,998,000
1939	883-23	12,500	416	5,286	3,287,000	-	-	-	-

a 18th Ann. Rept., pt. 4, p. 336.
b 19th Ann. Rept., pt. 4, p. 447.
c 20th Ann. Rept., pt. 4, p. 474.
d 21st Ann. Rept., pt. 4, p. 405.

*Yearly figures not previously published; discharge for periods of missing record estimated.
†Previously unpublished.
Note.- Flow regulated by storage in several reservoirs above station.

Snake River at Milner, Idaho

1910	292-313	32,600	38	8,020	5,803,000	32,600	38	6,960	5,041,000
1911	312-282	35,100	39	6,510	4,699,000	35,100	39	6,590	4,767,000
*1912	332-297	32,600	71	7,450	5,411,000	32,600	71	8,130	5,902,000
1913	362-280	29,900	18	8,030	5,820,000	29,900	18	8,020	5,812,000
1914	393-33	31,500	13	6,900	5,001,000	31,500	13	7,110	5,148,000
*1915	413-33	20,700	9	4,030	2,920,000	11,400	9	3,430	2,481,000
*1916	443-33	19,000	15	5,990	4,333,000	19,000	15	5,590	4,052,000
*1917	463-27	28,100	18	7,030	5,096,000	28,100	21	7,420	5,378,000
*1918	483-24	39,800	26	6,170	4,464,000	39,800	26	6,120	4,425,000
1919	513-41	11,100	13	3,350	2,426,000	11,100	13	2,750	1,992,000
1920	513-41	15,400	14	3,060	2,219,000	15,400	14	3,560	2,584,000
1921	533-31	26,680	12	5,700	4,126,000	26,680	12	5,530	3,999,000
1922	553-32	21,500	12	4,530	3,282,000	21,500	12	4,430	3,208,000
1923	573-29	15,300	9	3,770	2,730,000	15,300	9	4,070	2,947,000
1924	593-34	6,430	8	2,420	1,759,000	6,320	8	1,760	1,280,000
1925	613-37	18,200	8	4,170	3,018,000	18,200	13	5,030	3,643,000
1926	633-35	7,090	10	2,900	2,097,000	6,870	10	1,540	1,118,000
1927	653-30	25,110	15	2,420	1,751,000	25,110	20	3,700	2,679,000
1928	673-23	20,300	16	5,500	3,994,000	20,300	16	5,140	3,726,000
1929	693-25	14,100	20	2,850	2,062,000	14,100	20	2,870	2,078,000
1930	708-23	7,750	10	1,770	1,279,000	5,970	10	1,400	1,016,000

*Yearly figures not previously published; discharge for periods of missing record estimated.

Summary of yearly discharge, in second-feet, at stations on Snake River main stem--Continued

Snake River at Milner, Idaho--Continued

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1931	723-24	5,720	9	930	672,000	3,380	9	475	344,000
1932	738-24	3,530	10	492	357,000	3,670	10	466	339,000
1933	753-23	3,670	9	524	380,000	1,900	9	469	340,000
1934	768-22	1,450	6	246	178,000	823	5	162	117,200
1935	793-26	404	4	156	112,700	404	4	182	131,900
1936	813-36	19,600	2	1,064	772,200	19,600	2	1,057	767,500
1937	833-22	5,860	7	732	529,700	5,860	7	732	529,900
1938	863-23	17,700	5	1,955	1,415,000	17,700	5	2,022	1,464,000
1939	883-24	9,730	5	1,490	1,079,000	-	-	-	-

Note.- Flow regulated by storage in several reservoirs above station.

Snake River near Kimberly, Idaho

1924	593-34	7,160	378	2,930	2,130,000	6,950	378	2,240	1,630,000
1925	613-37	17,400	428	4,770	*3,450,000	17,400	471	5,650	4,090,000
1926	633-35	7,820	405	3,410	2,470,000	7,600	405	2,010	1,460,000
1927	653-30	25,600	462	2,860	2,070,000	25,600	471	4,140	3,000,000
1928	673-24	21,200	420	6,030	4,380,000	21,200	420	5,720	4,150,000
1929	693-26	14,000	471	3,420	2,470,000	14,000	471	3,420	2,470,000
1930	708-24	8,730	444	2,280	1,650,000	6,950	444	1,900	1,370,000
1931	723-25	6,530	366	1,380	997,000	4,010	366	905	655,000
1932	738-25	4,010	391	905	658,000	4,200	391	890	646,000
1933	753-24	4,200	385	974	704,000	2,550	385	921	666,000
1934	768-23	1,810	362	653	472,600	1,210	362	555	401,700
1935	793-27	785	315	511	369,800	770	315	531	384,100
1936	813-37	21,000	-	1,465	1,063,000	21,000	-	1,465	1,063,000
1937	833-23	6,290	206	1,100	796,500	6,290	206	1,100	796,300
1938	863-24	18,500	-	2,355	1,705,000	18,500	-	2,445	1,770,000
1939	883-25	10,500	153	1,913	1,385,000	-	-	-	-

*Corrected. Figure as previously published is erroneous.

Note.- Practically entire flow diverted at Milner during irrigation season; no diversions between Milner and Kimberly. Flow regulated since Nov. 23, 1935, by operation of Twin Falls power plant.

Snake River near Twin Falls, Idaho

1912	332-302	29,600	680	8,000	5,810,000	29,600	680	8,580	6,230,000
1913	362-285	30,200	520	8,750	6,330,000	30,200	520	8,730	6,320,000
1914	393-36	32,200	550	7,660	5,540,000	32,200	550	7,730	5,590,000
1915	413-34	20,000	468	4,580	3,320,000	15,100	468	4,050	2,940,000
1916	443-34	19,700	595	6,350	4,610,000	19,700	595	6,420	4,660,000
1920	513-42	17,500	540	3,850	2,790,000	17,500	540	4,410	3,200,000
1921	533-32	30,200	570	6,880	4,990,000	30,200	570	6,670	4,830,000
1922	553-32	21,500	598	5,460	3,950,000	21,500	598	5,380	3,900,000
1923	573-31	16,500	570	4,680	3,390,000	16,500	570	5,010	3,630,000
1924	593-36	7,700	475	3,240	2,350,000	7,440	475	2,500	1,820,000
1925	613-39	18,900	570	5,180	3,750,000	18,900	625	6,140	4,440,000
1926	633-37	8,360	545	3,770	2,730,000	8,100	545	2,280	1,650,000
1927	653-32	26,000	625	3,150	2,280,000	26,000	625	4,520	3,270,000
1928	673-25	22,300	598	6,490	4,710,000	22,300	598	6,130	4,450,000
1929	693-27	16,900	455	3,730	2,700,000	16,900	455	3,710	2,690,000
1930	708-25	9,040	505	2,520	1,830,000	7,160	505	2,170	1,570,000
1931	723-26	6,800	455	1,620	1,170,000	4,400	455	1,110	806,000
1932	738-26	5,150	390	1,130	821,000	5,150	390	1,080	784,000
1933	753-25	4,400	480	1,120	813,000	2,580	480	1,070	772,000
1934	768-24	-	432	783	567,200	-	432	684	495,100
1935	793-28	952	390	673	487,300	978	390	703	508,300
1936	813-38	21,200	311	1,681	1,220,000	21,200	311	1,685	1,223,000
1937	833-24	6,690	390	1,331	963,400	6,690	390	1,330	963,200
1938	863-25	19,400	386	2,627	1,902,000	19,400	386	2,704	1,958,000
1939	883-26	10,800	414	2,129	1,541,000	-	-	-	-

Note.- Flow regulated by operation of Twin Falls and Shoshone power plants. Practically entire flow at Milner diverted during irrigation season.

Snake River near Hagerman, Idaho

1913	362-286	32,200	4,920	12,400	9,000,000	32,200	4,920	12,400	8,980,000
1914	393-38	34,700	4,920	11,200	8,090,000	34,700	4,920	11,300	8,150,000
1915	413-36	22,300	4,030	8,320	6,030,000	17,800	4,030	7,940	5,750,000
1920	513-44	-	4,520	7,800	5,660,000	-	4,520	8,380	6,080,000
1921	533-34	33,800	4,720	10,800	7,790,000	33,800	4,720	10,600	7,680,000
1922	553-34	-	4,720	9,700	7,020,000	-	4,720	9,620	6,960,000
1923	573-32	20,300	-	9,030	6,550,000	20,300	-	9,480	6,860,000
1924	593-38	12,600	4,720	7,810	5,670,000	11,600	4,720	6,977	5,060,000
1925	613-40	22,600	5,120	9,540	6,900,000	22,600	5,120	10,500	7,620,000
1926	633-39	-	4,720	8,040	5,820,000	11,900	4,720	6,590	4,770,000
1927	653-33	30,600	5,330	7,760	5,620,000	30,600	5,330	9,150	6,630,000
1928	673-26	24,900	5,540	11,000	8,000,000	24,900	5,540	10,700	7,760,000
1929	693-28	18,800	5,330	8,520	6,170,000	18,800	5,330	8,510	6,160,000
1930	708-26	13,800	4,800	7,320	5,300,000	11,800	4,800	6,940	5,020,000
1931	723-27	11,800	4,600	6,280	4,550,000	8,900	4,600	5,850	4,240,000
1932	738-27	10,200	5,200	6,100	4,430,000	10,200	5,200	6,140	4,460,000
1933	753-26	9,500	5,080	6,160	4,460,000	7,350	5,080	6,090	4,410,000
1934	768-25	7,350	4,700	5,616	4,066,000	6,600	4,700	5,358	3,877,000

Summary of yearly discharge, in second-feet, at stations on Snake River main stem--Continued

Snake River near Hagerman, Idaho--Continued

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1935	793-29	5,880	4,880	5,337	3,864,000	6,080	4,880	5,418	3,922,000
1936	813-39	25,500	5,220	6,666	4,839,000	25,500	5,220	6,757	4,905,000
1937	833-25	10,900	4,680	6,252	4,526,000	10,900	4,680	6,251	4,526,000
1938	863-26	22,300	5,000	7,575	5,484,000	22,300	5,000	7,678	5,559,000
1939	883-27	14,900	4,780	7,073	5,121,000	-	-	-	-

Note.- Practically entire flow at Milner diverted during irrigation season.

Snake River at King Hill, Idaho

1910	292-318	34,000	4,760	12,900	9,370,000	34,000	4,760	12,200	8,860,000
1911	312-287	38,100	5,530	12,300	8,940,000	38,100	5,530	12,700	9,170,000
1912	332-305	37,400	6,530	13,600	9,840,000	37,400	6,530	14,200	10,300,000
1913	362-289	36,500	6,310	14,300	10,400,000	36,500	6,310	14,300	10,400,000
1914	393-39	37,500	6,180	13,400	9,690,000	37,500	6,180	13,400	9,700,000
1915	413-38	26,300	5,740	10,300	7,420,000	17,000	5,740	9,800	7,090,000
1916	443-37	24,800	6,310	12,400	8,990,000	24,800	6,310	12,600	9,180,000
1917	463-31	36,600	-	15,300	11,000,000	36,600	-	15,100	10,900,000
1918	483-24	47,200	7,530	13,300	9,610,000	47,200	7,530	13,700	9,900,000
1919	513-46	18,100	6,060	10,800	7,770,000	18,100	6,060	9,800	7,100,000
1920	513-46	20,900	6,280	9,790	7,100,000	20,900	6,280	10,300	7,500,000
1921	533-36	37,500	6,280	13,100	9,470,000	37,500	6,280	12,900	9,370,000
1922	553-37	28,700	6,390	11,900	8,650,000	28,700	6,390	11,800	8,560,000
1923	573-34	23,300	6,280	11,000	7,970,000	23,300	6,280	11,400	8,270,000
1924	593-39	15,800	6,070	9,430	6,850,000	15,800	6,070	8,570	6,230,000
1925	613-42	25,300	6,710	11,400	8,260,000	25,300	6,710	12,500	9,040,000
1926	633-40	15,300	-	10,000	7,240,000	14,600	-	8,510	6,170,000
1927	653-35	33,300	6,780	9,840	7,120,000	33,300	6,780	11,300	8,190,000
1928	673-27	26,200	6,780	13,000	9,440,000	26,200	6,780	12,600	9,140,000
1929	693-29	21,000	6,780	10,400	7,540,000	21,000	6,780	10,400	7,530,000
1930	708-27	16,000	6,550	9,240	6,690,000	13,600	6,550	8,860	6,420,000
1931	723-28	13,600	6,320	8,120	5,880,000	10,900	6,320	7,610	5,510,000
1932	738-28	13,600	6,550	7,800	5,660,000	13,600	6,550	7,900	5,730,000
1933	753-27	11,800	6,320	8,040	5,820,000	9,800	6,320	8,020	5,810,000
1934	768-26	9,800	6,320	7,474	5,411,000	9,000	6,320	7,120	5,155,000
1935	793-30	7,730	6,100	7,004	5,070,000	8,480	6,100	7,143	5,172,000
1936	813-40	27,000	6,550	8,553	6,209,000	27,000	6,550	8,613	6,253,000
1937	833-26	12,400	6,550	8,113	5,874,000	12,400	6,550	8,153	5,903,000
1938	863-28	27,000	7,010	9,991	7,233,000	27,000	7,010	10,130	7,333,000
1939	883-29	17,400	6,480	9,203	6,663,000	-	-	-	-

Note.- Practically entire flow at Milner diverted during irrigation season.

Snake River near Murphy, Idaho
(Drainage area, 41,900 square miles)

1914	393-41	38,700	5,440	14,300	10,400,000	38,700	5,440	14,300	10,300,000
1915	413-40	23,800	5,560	10,500	7,630,000	19,000	5,560	9,890	7,160,000
1916	443-39	27,000	6,140	12,900	9,340,000	27,000	6,210	13,200	9,560,000
1917	463-32	37,900	5,660	15,700	11,400,000	37,900	5,660	16,000	11,500,000
1918	483-26	46,100	-	13,700	9,900,000	46,100	-	13,700	9,940,000
1919	513-49	18,700	6,190	11,000	7,950,000	18,700	6,190	9,930	7,200,000
1920	513-49	22,900	6,080	10,200	7,360,000	22,900	6,080	10,800	7,820,000
1921	533-37	40,800	-	13,800	9,970,000	40,800	-	13,600	9,860,000
1922	553-39	30,300	6,310	12,500	9,020,000	30,300	6,310	12,400	8,960,000
1923	573-36	23,800	6,670	11,400	8,250,000	23,800	6,670	11,800	8,540,000
1924	593-41	15,800	6,130	9,760	7,090,000	15,800	6,130	8,920	6,480,000
1925	613-43	25,500	6,830	11,900	8,630,000	25,500	6,830	13,000	9,400,000
1926	633-42	15,500	6,380	10,300	7,480,000	14,800	6,380	8,840	6,400,000
1927	653-36	-	6,910	10,300	7,430,000	-	6,910	11,700	8,480,000
1928	673-28	-	7,000	13,400	9,760,000	-	7,000	13,100	9,480,000
1929	693-30	21,300	6,600	10,800	7,790,000	21,300	6,600	10,800	7,800,000
1930	708-28	16,300	6,800	9,590	6,940,000	14,000	6,800	9,210	6,670,000
1931	723-29	14,000	6,590	8,420	6,110,000	11,400	6,590	7,940	5,750,000
1932	738-29	14,800	6,600	8,430	6,120,000	14,800	6,600	8,480	6,160,000
1933	753-28	12,000	6,500	8,320	6,020,000	10,400	6,500	8,310	6,020,000
1934	768-27	9,920	6,000	7,628	5,523,000	9,290	6,000	7,297	5,283,000
1935	793-31	9,140	6,400	7,372	5,337,000	9,140	6,400	7,500	5,430,000
1936	813-41	28,900	6,790	9,205	6,682,000	28,900	6,790	9,279	6,736,000
1937	833-27	13,400	6,520	8,433	6,105,000	13,400	6,520	8,523	6,170,000
1938	863-29	27,800	7,200	10,620	7,690,000	27,800	7,200	10,760	7,789,000
1939	883-30	19,000	7,090	9,640	6,979,000	-	-	-	-
		Snake River at Weiser, Idaho							
1911	312-289	-	-	-	-	67,200	5,800	22,100	16,000,000
1912	332-307	73,800	7,080	23,100	16,800,000	73,800	7,080	23,800	17,300,000
1913	362-292	66,500	6,790	22,400	16,200,000	66,500	6,790	22,600	16,400,000
1914	393-42	50,800	6,210	22,300	16,200,000	50,800	6,210	22,500	16,300,000
1915	413-42	28,600	5,550	14,400	10,400,000	26,700	5,550	13,200	9,560,000
1916	443-41	58,400	7,140	23,600	17,100,000	58,400	7,140	24,300	17,600,000
*1917	463-34	69,400	6,490	24,800	18,000,000	69,400	6,490	25,400	18,400,000
*1918	483-27	62,400	7,140	20,200	14,600,000	62,400	7,140	19,800	14,300,000
1919	513-51	53,800	5,550	16,900	12,200,000	53,800	5,550	15,900	11,500,000
1920	513-51	36,800	5,860	14,700	10,700,000	36,800	5,860	15,600	11,400,000
1921	533-40	83,100	7,140	25,200	18,300,000	83,100	7,140	25,200	18,300,000
1922	553-41	67,100	7,140	21,400	15,500,000	67,100	7,140	21,100	15,300,000
1923	573-37	41,500	7,480	17,700	12,800,000	41,500	7,480	18,100	13,100,000
1924	593-42	28,900	5,100	12,400	8,990,000	28,900	5,100	11,100	8,040,000

*Revised yearly figures not previously published.

Summary of yearly discharge, in second-feet, at stations on Snake River main stem--Continued

Snake River at Weiser, Idaho--Continued

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1925	613-45	63,100	7,140	19,700	14,300,000	63,100	7,300	21,400	15,500,000
1926	633-43	34,700	5,980	14,100	10,200,000	37,700	5,980	12,600	9,100,000
1927	653-37	56,300	8,290	20,700	15,000,000	56,300	8,480	22,900	16,600,000
1928	673-29	62,300	7,640	22,700	16,400,000	62,300	7,640	21,300	15,500,000
1929	693-31	31,300	6,980	14,900	10,800,000	31,300	6,980	14.700	10,700,000
1930	708-29	21,100	7,180	13,100	9,500,000	20,000	7,180	12,800	9,260,000
1931	723-30	19,000	6,310	10,900	7,880,000	19,000	6,310	10.200	7,390,000
1932	738-30	53,300	-	15,600	11,300,000	53,300	-	15.900	11,600,000
1933	753-29	39,500	7,470	13,600	9,840,000	39,500	7,470	13.600	9,830,000
1934	768-28	19,400	6,860	10,880	7,680,000	19,400	6,860	10.390	7,522,000
1935	793-32	23,700	7,350	11,240	8,136,000	23,700	7,350	11,250	8,144,000
1936	813-42	59,900	7,980	15,590	11,320,000	59,900	7,980	15,800	11,470,000
1937	833-28	35,000	7,300	12,030	8,708,000	35,000	7,300	12,500	9,047,000
1938	863-30	67,200	8,690	20,420	14,790,000	67,200	8,690	20.480	14,820,000
1939	883-31	38,900	8,160	14,110	10,220,000	-	-	-	-

Snake River at Oxbow, Oregon

1924	593-44	29,800	5,280	13,000	9,420,000	29,800	5,280	11,700	8,470,000
1925	613-47	67,600	7,150	20,700	15,000,000	67,600	7,150	22,200	16,100,000
1926	633-45	31,400	6,000	14,300	10,300,000	31,400	6,000	12,900	9,310,000
1927	653-39	60,400	8,170	21,400	15,500,000	60,400	8,170	23.500	17,000,000
1928	673-30	66,300	7,710	23,700	17,200,000	66,300	7,710	22,500	16,300,000
1929	693-32	32,200	7,470	15,700	11,400,000	32,200	7,470	15.700	11,300,000
1930	708-30	22,500	7,230	13,500	9,790,000	22,500	7,230	13.100	9,460,000
1931	723-31	18,900	6,330	11,200	8,080,000	18,900	6,330	10.500	7,620,000
1932	738-31	52,400	7,710	16,500	11,900,000	52,400	7,710	16.800	12,200,000
1933	753-30	41,100	7,960	14,500	10,500,000	41,100	7,960	14,500	10,500,000
1934	768-29	20,200	7,230	11,320	8,197,000	20,200	7,230	10.810	7,829,000
1935	793-33	25,300	7,470	11,760	8,512,000	25,300	7,470	11,750	8,508,000
1936	813-43	62,500	7,960	16,180	11,750,000	62,500	7,960	16.390	11,900,000
1937	833-29	33,800	7,230	12,510	9,058,000	33,800	7,230	13.000	9,414,000
1938	863-31	71,500	8,740	21,430	15,510,000	71,500	8,740	21,500	15,560,000
1939	883-32	41,700	8,210	14,740	10,670,000	-	-	-	-

Snake River near Clarkston, Wash.
(published as Snake River at Riparia, 1916-35; drainage area, 104,000 square miles)
(Drainage area, 103,200 square miles)

1916	463-36	230,000	15,200	64,100	46,500,000	230,000	18,800	64.500	46,800,000
1917	463-36	256,000	16,200	63,800	46,300,000	256,000	16,200	66.800	48,300,000
1918	483-29	216,000	15,000	58,800	42,600,000	216,000	15,000	55.760	40,300,000
1919	513-54	167,000	10,900	40,000	28,900,000	167,000	10,900	39,000	28,200,000
1920	513-54	148,000	-	42,500	30,800,000	148,000	13,900	45.400	32,900,000
1921	533-42	270,000	16,700	68,800	49,800,000	270,000	16,700	68.200	49,400,000
1922	553-43	233,000	14,500	54,400	39,400,000	-	-	-	-
1929	693-33	155,000	13,100	37,300	27,000,000	155,000	13,100	37,300	27,000,000
1930	708-31	95,600	13,100	34,500	25,000,000	95,600	13,100	33.800	24,500,000
1931	723-32	107,000	10,600	28,400	20,600,000	107,000	10,600	27,600	20,000,000
1932	738-32	219,000	14,400	47,900	34,800,000	219,000	-	49,300	35,800,000
1933	753-31	245,000	-	45,100	32,700,000	245,000	-	48.000	34,800,000
1934	768-30	149,000	12,200	40,600	29,400,000	118,000	12,200	37,070	26,840,000
1935	793-34	130,000	13,100	34,560	25,020,000	130,000	12,200	33.670	24,370,000
1936	813-44	213,000	12,200	43,330	31,460,000	213,000	13,000	43.430	31,530,000
1937	833-30	110,000	9,100	30,300	21,940,000	110,000	9,100	31,410	22,740,000
1938	863-32	214,000	15,200	51,860	37,540,000	214,000	16,700	52,180	37,770,000
1939	883-33	144,000	14,000	37,740	27,320,000	-	-	-	-

HENRYS FORK BASIN

Henrys Lake near Lake, Idaho

Year	W.S.P. (no. and page)	Usable contents in acre-feet			Year	W.S.P. (no. and page)	Usable contents in acre-feet		
		Irrigation season					Irrigation season		
		Maximum day	Minimum day	Contents on Sept. 30			Maximum day	Minimum day	Contents on Sept. 30
1923	693-34	44,040	-	33,200	1932	738-36	33,360	4,300	9,865
1924	693-34	49,438	5,073	5,073	1933	753-36	37,468	7,203	7,240
1925	693-35	46,964	5,073	46,964	1934	768-37	18,678	176	176
1926	693-35	63,642	9,522	10,305	1935	793-40	20,629	140	2,026
1927	693-35	49,555	10,305	49,000	1936	813-66	25,700	2,030	8,555
1928	693-35	75,192	49,000	56,910	1937	833-37	30,550	1,700	1,700
1929	693-35	64,430	14,940	15,400	1938	863-39	42,678	1,409	25,132
1930	708-32	34,072	4,839	5,114	1939	883-40	53,418	25,864	49,204
1931	723-33	18,528	4,300	4,300					

Note.- Gage read occasionally during irrigation season; not read at other times. Contents given on Sept. 30 is for gage reading nearest that date.

Summary of yearly discharge, in second-feet, at stations in Henrys Fork Basin--Continued

Henrys Fork near Lake, Idaho
(Drainage area, 104 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
*1921	533-45	314	-	91.5	66,300	314	-	89.5	64,700
*1922	553-46	569	1	94.5	68,400	569	1	83.0	60,000
*1923	573-41	332	1	26.5	19,130	332	1	26.5	19,150
*1924	593-47	664	1	72.3	52,400	664	1	72.9	52,900
*1925	613-50	63	2	14.2	10,300	63	2	15.7	11,400
*1926	633-48	675	-	89.8	65,000	675	5	89.5	64,800
*1927	653-42	145	5	17.0	12,300	145	5	18.0	13,000
*1928	673-32	312	-	39.0	28,300	312	-	45.8	33,300
*1929	693-36	762	26	95.2	68,800	762	10	88.2	63,800
*1930	708-33	371	10	59.3	42,900	371	4	57.9	41,900
*1931	723-34	349	4	29.1	21,100	349	2	28.1	20,300
*1932	738-37	531	2	40.7	29,600	531	2	41.4	29,900
*1933	753-37	481	4	48.8	35,300	481	2	48.5	35,100
*1934	768-38	288	2	29.8	21,600	288	2	29.7	21,500
*1935	793-41	349	2	30.4	22,000	349	2	30.6	22,200
*1936	813-67	353	2	29.9	21,700	353	2	29.9	21,600
1937	833-38	351	2	41.9	30,350	351	.1	41.5	30,010
1938	863-40	387	.1	32.7	23,640	387	1	33.1	23,940
1939	883-40	36	3	10.6	7,610	-	-	-	-

*Yearly figures not previously published; discharge for periods of missing records estimated.
Note.- Flow regulated since Sept. 22, 1922, by storage in Henrys Lake.

Henrys Fork at Warm River, Idaho
(Drainage area, 660 square miles)

1911	312-296	3,100	912	1,190	863,000	3,100	912	1,190	864,000
1912	332-312	3,300	830	1,260	918,000	3,300	790	1,260	913,000
1913	362-298	3,100	705	1,300	940,000	3,100	705	1,340	970,000
1914	393-47	3,010	880	1,300	943,000	3,010	880	1,280	924,000
1919	513-59	2,400	642	996	721,000	2,400	644	977	707,000
1920	513-59	3,390	644	1,010	731,000	3,390	644	1,010	732,000
1921	533-46	3,170	623	1,160	844,000	3,170	623	1,200	865,000
1922	553-47	2,920	700	1,110	802,000	2,920	700	1,090	787,000
1923	573-43	2,490	780	1,020	738,000	2,490	706	1,010	730,000
1924	593-49	1,530	706	900	654,000	1,530	482	878	637,000
1925	613-51	2,510	482	1,030	747,000	2,510	530	1,070	771,000
1926	633-49	2,180	689	1,020	738,000	2,180	700	1,000	726,000
1927	653-44	3,330	625	1,100	800,000	3,330	625	1,160	839,000
1928	673-33	2,110	735	1,060	772,000	2,110	735	1,030	750,000
1929	693-37	1,930	628	1,010	730,000	1,930	628	980	708,000
1930	708-34	1,860	645	901	653,000	1,860	520	895	648,000
1931	723-35	1,200	520	757	548,000	1,200	421	724	524,000
1932	738-39	2,560	421	860	624,000	2,560	425	882	640,000
1933	753-39	1,790	425	871	630,000	1,790	451	873	632,000
1934	768-40	1,020	607	727	526,000	1,020	540	703	509,000
1935	793-43	1,660	540	786	568,700	1,660	540	791	573,000
1936	813-69	2,060	540	809	587,200	2,060	607	816	592,000
1937	833-40	1,950	640	827	598,900	1,950	530	827	598,400
1938	863-42	2,540	530	948	686,500	2,540	258	921	667,000
1939	883-51	1,770	258	800	578,800	-	-	-	-

Note.- Flow regulated by storage in Henrys Lake since September 1922 and in Island Park Reservoir since November 1938.

Henrys Fork near Ashton, Idaho
(published as North Fork Snake River near Ora, Idaho, 1904-8)
(Drainage area, 1,030 square miles)

1904	135-172	5,370	1,020	1,600	1,160,000	5,370	1,020	1,610	1,171,000
1905	178-93	2,280	990	1,220	886,000	2,280	990	1,160	838,000
1906	214-73	3,030	910	1,250	906,000	3,030	910	1,250	909,000
*1907	252-225	3,750	990	1,450	1,050,000	3,750	990	1,500	1,080,000
1908	252-225	4,000	1,070	1,450	1,050,000	4,000	1,070	1,440	1,040,000
*1925	613-53	5,340	890	1,450	1,048,000	5,340	872	1,500	1,089,000
*1926	633-51	3,230	872	1,410	1,022,000	3,230	1,030	1,400	1,016,000
*1927	653-45	5,060	1,060	1,600	1,160,000	5,060	1,070	1,670	1,207,000
1928	673-34	3,360	1,080	1,490	1,078,000	3,360	1,080	1,460	1,060,000
1929	693-38	3,230	1,120	1,450	1,051,000	3,230	928	1,410	1,021,000
1930	708-35	2,680	928	1,240	895,000	2,680	870	1,200	873,000
1931	723-36	1,630	870	1,030	755,000	1,630	440	995	720,000
1932	738-40	4,060	440	1,240	903,000	4,060	477	1,280	930,000
1933	753-40	2,760	477	1,240	900,000	2,760	574	1,240	897,000
1934	768-41	1,670	732	996	521,000	1,670	706	959	694,400
1935	793-44	2,450	494	1,064	770,200	2,450	443	1,063	769,600
1936	813-70	3,170	443	1,125	816,600	3,170	622	1,150	834,300
1937	833-41	2,920	654	1,140	825,400	2,920	612	1,139	824,900
1938	863-43	4,040	612	1,325	959,600	4,040	464	1,307	945,900
1939	883-52	2,830	464	1,176	851,300	-	-	-	-

*Yearly figures not previously published; discharge for periods of missing record estimated.

Summary of yearly discharge, in second-feet, at stations in Henrys Fork Basin--Continued

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

Period (May to September)	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
*1919	513-62	1,154	354	210,000
*1920	513-62	1,422	224	240,000
*1921	533-49	1,270	266	228,000
*1922	553-49	1,410	328	239,000
*1923	573-45	1,320	401	244,000
*1924	593-51	1,390	250	226,000
*1925	613-54	1,420	299	235,000
1926	633-51	1,320	233	225,000
*1927	653-46	1,180	337	235,000
*1928	673-35	1,320	328	242,000
*1929	693-39	1,350	232	244,000
1930	708-36	1,220	308	232,000
1931	723-37	1,150	124	178,000
1932	738-41	1,260	279	237,000
1933	753-41	1,360	281	243,000
1934	768-42	1,140	41	130,000
1935	793-45	1,280	322	223,500
1936	813-71	1,340	303	239,400
1937	833-42	1,330	328	230,300
1938	863-44	1,260	346	243,900
1939	883-53	1,350	437	280,000

*Figures for period not previously published; discharge for periods of missing records estimated by Idaho Water District No. 36.

Henrys Fork at St. Anthony, Idaho

1919	513-65	6,210	603	448,000
1920	513-65	5,500	530	556,000
*1921	533-50	7,140	614	768,000
1922	553-51	6,540	654	667,000
1923	573-46	4,610	539	542,000
1924	593-52	2,320	502	300,000
1925	613-56	8,250	855	798,000
1926	633-53	3,720	750	395,000
1927	653-47	8,150	924	947,000
1928	673-36	6,380	602	645,000
1929	693-40	5,220	532	565,000
1930	708-37	2,030	455	263,000
1931	723-38	3,020	413	249,000
1932	738-42	7,470	666	631,000
1933	753-42	4,750	559	509,000
1934	768-43	1,340	456	249,000
1935	793-46	3,580	590	411,000
1936	813-72	4,870	515	435,000
1937	833-43	4,260	570	435,000
1938	863-45	6,610	676	631,100
1939	883-54	4,910	554	430,600

*Figures for period not previously published; discharge for period of missing record estimated.

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

*1919	513-66	1,055	308	187,000
*1920	513-66	1,236	347	214,000
*1921	533-51	1,050	297	204,000
*1922	553-52	1,180	318	201,000
*1923	573-47	1,050	439	219,000
*1924	593-53	1,140	353	212,000
*1925	613-56	1,040	340	210,000
1926	633-54	1,060	275	205,000
*1927	653-48	954	363	215,000
*1928	673-37	1,080	382	217,000
*1929	693-41	1,170	333	222,000
1930	708-38	1,130	307	199,000
1931	723-39	1,090	175	155,000
1932	738-43	1,150	324	213,000
1933	753-43	1,140	313	217,000
1934	768-44	1,000	127	131,000
1935	793-47	1,060	321	208,600
1936	813-73	1,260	328	216,800
1937	833-44	1,220	271	212,800
1938	863-46	1,130	439	223,100
1939	883-55	1,270	380	234,700

*Figures for period not previously published; discharge for periods of missing record estimated by Idaho Water District No. 36.

Summary of yearly discharge, in second-feet, at stations in Henrys Fork Basin--Continued

Henrys Fork near Rexburg, Idaho
(Drainage area, 3,010 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
*1909	272-276	7,680	1,160	2,640	1,910,000	7,680	1,160	2.810	2,030,000
1910	292-330	6,810	500	2,330	1,689,000	6,810	500	2.180	1,580,000
1911	312-298	6,650	710	2,330	1,690,000	6,650	710	2.400	1,740,000
1912	332-314	7,200	1,480	2,680	1,940,000	7,200	1,480	2.710	1,970,000
1913	362-300	6,720	680	2,820	2,040,000	6,720	680	2.820	2,040,000
1914	393-49	7,030	633	2,510	1,820,000	7,030	633	2.550	1,846,000
*1915	413-48	6,200	518	1,960	1,420,000	6,200	518	1,800	1,307,000
*1916	443-48	6,440	675	2,310	1,680,000	6,440	675	2.330	1,694,000
*1917	463-73	8,560	1,000	2,720	1,970,000	8,560	1,000	2.760	2,000,000
*1918	483-69	7,490	572	2,290	1,660,000	7,490	572	2.250	1,626,000
*1919	513-68	5,840	355	1,700	1,230,000	5,840	355	1,630	1,183,000
*1920	513-68	6,280	435	1,800	1,303,000	6,280	435	1,820	1,324,000
*1921	533-53	8,280	511	2,290	1,660,000	8,280	511	2.290	1,656,000
*1922	553-54	6,430	507	2,000	1,450,000	6,430	507	2.000	1,450,000
*1923	573-48	4,930	523	1,780	1,286,000	4,930	523	1,760	1,273,000
*1924	593-55	1,710	394	1,180	860,000	1,410	394	1,090	795,000
*1925	613-58	8,980	605	2,440	1,772,000	8,980	1,010	2.630	1,902,000
*1926	633-55	4,880	636	1,660	1,204,000	4,880	636	1,550	1,124,000
*1927	653-49	9,490	934	2,560	1,855,000	9,490	934	2.700	1,952,000
*1928	673-38	7,700	512	2,280	1,658,000	7,700	512	2.250	1,633,000
*1929	693-42	6,090	566	1,950	1,415,000	6,090	566	1,900	1,374,000
*1930	708-39	3,000	422	1,350	981,000	3,000	422	1,320	957,000
*1931	723-40	2,120	250	1,070	778,000	2,120	250	885	641,000
1932	738-44	7,060	295	1,540	1,120,000	7,060	548	1,690	1,226,000
1933	753-44	4,980	371	1,550	1,120,000	4,980	371	1,490	1,080,000
1934	768-45	1,620	183	829	601,000	1,040	183	695	503,000
1935	793-48	3,620	240	1,032	747,500	3,620	319	1,166	844,000
1936	813-74	5,640	422	1,554	1,128,000	5,640	422	1,570	1,140,000
1937	833-45	3,990	363	1,284	929,630	3,990	363	1,287	931,600
1938	863-47	6,170	476	1,883	1,364,000	6,170	476	1,956	1,416,000
1939	883-56	5,030	546	1,565	1,133,000	-	-	-	-

*Yearly figures not previously published; discharge for periods of missing record estimated.

Warm River at Warm River, Idaho
(Drainage area, 144 square miles)

*1912	332-316	900	192	287	208;000	900	192	284	206,000
1913	362-302	768	200	291	211,000	768	200	305	221,000
1914	393-51	725	201	290	210,000	725	201	286	207,000
*1918	483-71	370	208	240	174,000	370	197	240	174,000
1919	513-71	492	197	247	179,000	492	193	240	174,000
1920	513-71	575	173	222	162,000	575	173	223	162,000
1921	533-54	609	169	255	185,000	609	169	260	188,000
1922	553-55	466	196	238	172,000	466	196	235	170,000
1923	573-50	404	184	226	163,000	404	174	223	161,000
1924	593-57	281	155	195	141,000	281	123	189	137,000
1925	613-61	576	123	228	165,000	576	171	235	170,000
1926	633-57	345	170	209	152,000	345	170	207	150,000
1927	653-50	543	178	243	176,000	543	187	249	180,000
1928	673-39	497	181	238	173,000	497	181	238	173,000
1929	693-43	405	196	.224	162,000	405	176	218	158,000
1930	708-40	264	176	194	140,000	264	174	191	138,000
1931	723-41	226	166	177	128,000	226	152	173	125,000
1932	738-45	408	152	200	145,000	408	160	204	148,000

*Yearly figures not previously published; discharge for period of missing recori estimated.

Robinson Creek at Warm River, Idaho

*1912	332-318	1,140	55	188	136,000	1,140	55	189	137,000
1913	362-303	735	60	169	122,000	735	60	171	124,000
1914	393-52	675	73	164	118,000	675	73	160	116,000
*1918	483-72	524	-	124	89,800	524	-	123	88,900
1919	513-73	462	49	108	78,200	462	49	105	76,000
1920	513-73	606	37	107	77,400	606	37	108	78,600
1921	533-56	698	34	147	106,000	698	34	152	110,000
1922	553-57	648	44	124	89,600	648	44	118	85,600
1923	573-51	523	44	114	82,500	523	44	114	82,300
1924	593-59	266	46	73	53,100	266	32	70	50,500
1925	613-62	781	32	162	117,000	781	41	170	123,000
1926	633-58	557	55	111	80,400	557	55	107	77,300
1927	653-52	910	59	170	123,000	910	62	182	132,000
1928	673-40	851	68	152	110,000	851	68	140	102,000
1929	693-44	695	62	122	88,200	695	44	119	86,000
1930	708-41	311	44	80	58,200	311	45	78	56,200
1931	723-42	217	37	60	43,300	217	22	56	40,400
1932	738-46	746	20	122	89,000	746	20	128	92,800

*Yearly figures not previously published; discharge for period of missing recori estimated.

Summary of yearly discharge, in second-feet, at stations in Henrys Fork Basin--Continued

Diversions from Fall River above gaging station near Squirrel, Idaho

Period (May to September)	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
*1919	513-74	178	0	18,500
*1920	513-74	235	0	29,100
*1921	533-57	249	0	28,000
*1922	553-58	269	0	29,800
1923	573-52	274	0	23,500
*1924	593-60	242	0	16,200
*1925	613-63	241	0	26,400
1926	633-59	244	0	16,800
*1927	653-52	219	0	29,000
*1928	673-41	201	0	25,600
*1929	693-45	233	0	14,800
1930	708-42	261	0	12,700
1931	723-43	204	0	11,200
1932	738-47	224	0	14,200
1933	753-45	228	0	13,900
1934	768-46	194	0	7,560
1935	793-49	209	0	12,980
1936	813-75	166	0	11,550
1937	833-46	236	0	14,350
1938	863-48	210	0	20,220
1939	883-63	195	0	30,770

*Yearly figures not previously published; discharge for periods of missing record estimated by Idaho Water District No. 36.

Fall River near Squirrel (at Fremont), Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
*1905	178-99	2,712	168	730	528,000	2,712	168	694	503,000
*1906	214-77	2,580	-	659	477,000	2,580	-	664	480,000
*1907	252-228	3,130	305	870	629,000	3,130	305	902	653,000
1908	252-228	2,970	255	822	597,000	2,970	255	904	584,000
*1918	483-73	5,380	-	862	624,000	5,380	-	860	622,000
1919	513-77	4,730	344	632	458,000	4,730	334	625	452,000
1920	513-77	2,900	279	686	499,000	2,900	279	698	507,000
1921	533-58	3,560	346	779	564,000	3,560	346	784	567,000
1922	553-60	3,980	371	778	564,000	3,980	370	763	552,000
1923	573-53	2,630	350	724	524,000	2,630	350	732	530,000
1924	593-61	1,920	138	543	394,000	1,920	138	522	379,000
1925	613-65	3,650	236	897	650,000	3,650	318	952	688,000
1926	633-61	2,520	350	680	492,000	2,520	279	647	468,000
1927	653-54	6,440	256	1,050	764,000	6,440	256	1,130	818,000
1928	673-42	4,330	495	1,010	732,000	4,330	456	959	695,000
1929	693-46	3,540	382	788	571,000	3,540	192	752	544,000
1930	708-43	2,300	72	586	425,000	2,300	72	578	419,000
1931	723-44	3,120	205	475	344,000	3,120	205	453	328,000
1932	738-48	5,600	108	771	559,000	5,600	108	820	596,000
1933	753-46	4,960	296	788	571,000	4,960	296	765	554,000
1934	768-47	1,780	255	514	372,000	1,780	255	502	363,000
1935	793-50	2,940	215	643	465,600	2,940	215	672	486,600
1936	813-76	4,040	340	792	575,000	4,040	340	793	575,300
1937	833-47	3,010	265	686	496,500	3,010	265	678	490,600
1938	863-49	3,050	341	840	608,100	3,050	341	867	627,900
1939	883-64	2,670	378	747	541,100	-	-	-	-

*Yearly figures not previously published; discharge for period of missing record estimated.

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

Period (May to September)	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
*1919	513-78	707	-	104,000
*1920	513-78	860	-	138,000
*1921	533-59	816	-	144,000
*1922	553-61	937	-	143,000
*1923	573-54	913	-	147,000
*1924	593-62	787	-	115,000
*1925	613-66	865	-	144,000
1926	633-61	791	22	134,000
*1927	653-54	896	-	148,000
*1928	673-43	754	-	164,000
*1929	693-47	850	-	151,000
1930	708-44	888	273	158,000
1931	723-45	823	25	93,000
1932	738-49	900	231	166,000
1933	753-47	987	92	148,000
1934	768-48	685	20	88,600
1935	793-51	871	28	117,700
1936	813-77	881	95	160,000
1937	833-48	862	40	137,000
1938	863-50	854	164	162,400
1939	883-65	909	103	155,900

*Figures for period not previously published; discharge for periods of missing record estimated by Idaho Water District No. 36.

Summary of yearly discharge, in second-feet, at stations in Henrys Fork Basin--Continued

Fall River near Chester, Idaho

Period (May to September)	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
1920	513-80	3,220	25	250,000
1921	533-61	3,600	67	328,000
1922	553-62	2,980	56	294,000
1923	573-55	2,590	18	251,000
*1924	593-63	1,380	55	126,000
*1925	613-67	4,140	243	413,000
1926	633-63	2,190	40	146,000
1927	653-56	5,680	301	497,000
1928	673-44	4,150	220	348,000
1929	693-48	3,640	18	272,000
1930	708-45	1,620	14	116,000
1931	723-46	2,630	14	119,000
1932	738-50	5,040	134	315,000
1933	753-48	4,210	20	274,000
1934	768-49	1,150	51	92,700
1935	793-52	2,560	35	228,000
1936	813-78	3,410	54	253,000
1937	833-49	2,440	10	221,000
*1938	863-51	3,200	103	314,500
1939	883-66	2,800	23	194,400

*Figures for period not previously published; discharge for periods of missing record estimated.

Teton River near St. Anthony, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1903	100-455	May to September				3,075	613	-	364,000
*1904	135-179	5,385	-	883	641,000	5,385	365	842	611,000
*1905	178-101	1,755	253	581	421,000	1,755	253	555	402,000
*1906	214-79	4,020	88	710	514,000	4,020	88	727	526,000
*1907	252-230	3,040	253	892	645,000	3,040	253	935	678,000
1908	252-230	5,820	427	957	695,000	5,820	427	947	687,000
1920	513-81	May to September				3,040	623	-	371,000
1921	533-62	May to September				4,310	625	-	474,000
1922	553-64	3,150	334	775	561,000	3,150	334	770	557,000
1923	573-57	May to September				3,340	532	-	331,000
1924	593-65	May to September				1,490	400	-	197,000
1925	613-69	May to September				4,100	895	-	514,000
1926	633-64	May to September				2,220	398	-	227,000
1927	653-57	May to September				4,080	671	-	513,000
1928	673-45	May to September				4,220	624	-	466,000
1929	693-49	May to September				2,990	529	-	329,000
1930	708-47	May to September				1,630	538	-	251,000
1931	723-48	May to September				1,200	333	-	164,000
1932	738-53	May to September				3,390	508	-	370,000
1933	753-49	May to September				2,560	452	-	278,000
1934	768-51	826	248	410	298,000	826	248	392	283,600
1935	793-54	2,410	248	571	413,700	2,410	248	584	422,700
1936	813-79	3,840	280	774	561,700	3,840	280	777	564,300
1937	833-50	1,930	273	567	410,600	1,930	273	573	415,200
1938	863-52	3,440	316	867	627,500	3,440	316	887	641,800
1939	883-71	2,210	365	736	532,500	-	-	-	-

*Yearly figures not previously published; discharge for periods of missing record estimated.
Note.- Figures for 1903, 1920-21, 1923-33, are for the periods indicated in those years.

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

Period (May to September)	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
*1919	513-82	907	232	138,000
*1920	513-82	1,304	-	227,000
*1921	533-63	1,180	301	215,000
*1922	553-64	1,300	-	207,000
*1923	573-57	1,200	-	213,000
*1924	593-65	1,210	253	168,000
*1925	613-69	1,220	318	211,000
1926	633-65	1,290	343	195,000
*1927	653-58	1,460	-	236,000
*1928	673-46	-	371	247,000
*1929	693-49	1,380	-	227,000
1930	708-48	1,370	451	218,000
1931	723-49	1,170	267	152,000
1932	738-54	1,260	340	239,000
1933	753-50	1,470	269	217,000
1934	768-52	714	127	101,600
1935	793-55	1,300	310	212,600
1936	813-80	1,330	320	229,500
1937	833-51	1,430	58	200,800
1938	863-53	1,420	102	233,600
1939	883-73	1,420	288	249,000

*Figures for period not previously published; discharge for periods of missing record estimated.

Summary of yearly discharge, in second-feet, at stations in
BLACKFOOT RIVER BASIN

Blackfoot River above reservoir, near Henry, Idaho
(Drainage area, 360 square miles)

Calendar year	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
1914, Mar. 25 to Dec. 31	393-53	1,350	-	158,000
*1915	413-52	537	-	98,400
1916, Mar. 22 to Nov. 13	443-51	1,020	-	99,800
1917, Apr. 23 to Dec. 31	463-79	2,060	-	143,000
1918, Mar. 21 to Nov. 30	483-79	520	58	84,100
1919, Mar. 29 to Nov. 30	513-92	1,100	23	62,400
1920, Apr. 1 to Nov. 30	513-92	1,680	-	120,000
1921, Mar. 12 to Dec. 19	533-71	1,360	59	142,000
1922, Mar. 26 to Dec. 9	553-72	1,570	71	124,000
1923, Apr. 1 to Dec. 8	573-64	824	-	89,200
1924, Mar. 16 to Nov. 21	593-73	1,110	-	64,700
1925, Mar. 8 to Sept. 30	613-75	893	67	85,200

*Year complete.

Blackfoot River near Henry, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1909	272-279	1,640	138	388	281,000	1,640	138	400	291,000
1910	292-331	980	4	322	233,000	980	4	263	190,000
1911	312-298	440	4	62.7	45,400	440	10	61.5	44,500
1912	332-318	515	6	105	76,300	515	6	136	98,500
1913	362-305	950	9	402	291,000	950	14	391	283,000
1914	393-55	-	29	299	216,000	916	29	389	282,000
1915	413-55	1,060	44	408	295,000	1,060	35	344	249,000
1916	443-54	928	35	290	210,000	928	35	283	205,000
1917	463-82	799	3	247	179,000	799	3	236	171,000
1918	483-82	750	23	259	188,000	750	23	238	172,000
1919	513-97	-	17	252	182,000	-	-	244	176,000
1920	513-97	1,120	8.2	201	146,000	1,120	8.2	200	145,000
1921	533-74	1,190	9	220	160,000	1,190	-	226	164,000
1922	553-75	1,010	-	363	263,000	1,010	-	364	263,000
1923	573-67	1,010	22	308	223,000	1,010	-	329	238,000
1924	593-76	936	4	196	142,000	936	3	169	123,000
1925	613-79	552	3	56.2	40,700	-	-	-	-

Note.- Flow regulated by storage in Blackfoot-Marsh Reservoir, 1 mile upstream.

Little Blackfoot River at Henry, Idaho

*1914	393-63	-	6.9	-	-	-	6.9	-	-
1915	413-60	88	-	20.2	14,600	88	-	20.2	14,600
1916	443-59	108	11	18.8	13,700	108	11	18.6	13,500
1917	463-86	177	11	24.2	17,500	177	11	25.4	18,400
1918	483-87	136	11	20.2	14,600	136	8.7	18.8	13,600
1919	513-103	108	7.2	16.7	12,100	108	7.2	16.9	12,200
1920	513-103	159	8.4	20.1	14,600	159	8.4	21.5	15,600
1921	533-79	91	14	23.7	17,100	91	14	23.0	16,600
1922	553-80	-	11	19.5	14,100	-	10	18.4	13,300
1923	573-72	55	10	14.2	10,300	55	10	14.4	10,500
1924	593-81	146	8.6	14.1	10,200	146	8.3	13.7	9,930
1925	613-84	60	8.3	13.0	9,390	-	-	-	-

*Year incomplete.

Meadow Creek near Henry, Idaho

Calendar year	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
1914, Apr. 20 to Nov. 30	393-64	254	-	13,900
1915, Apr. 25 to Nov. 7	413-62	49	2.3	5,670
1916, Apr. 7 to Nov. 11	443-61	182	-	15,600
1917, May 1 to Nov. 15	463-88	408	11	24,300
1918, Apr. 17 to Sept. 30	483-88	110	5	8,810
1919, Apr. 19-24, May 16 to Oct. 8	513-106	210	-	3,940
1920, May 11 to Oct. 25	513-106	273	-	8,360
1921, Apr. 12 to Nov. 15	533-81	127	-	14,000
1922, May 6 to Sept. 30	553-82	244	-	8,930
1923, Apr. 20 to Oct. 15	573-73	155	3.2	10,800
1924, May 4 to Sept. 19	593-82	54	2.6	2,340
1925, Apr. 4 to Sept. 30	613-85	310	12	33,200

Summary of yearly discharge, in second-feet, at stations in
MUD LAKE-LOST RIVER BASIN

MUD LAKE BASIN

Camas Creek at Camas, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1927	653-61	155	2.7	25.7	18,600	155	-	30.8	22,300
1928	673-50	54	.2	19.3	14,000	51	0.2	14.3	10,400
1929	693-52	83	-	12.7	9,190	83	-	11.2	8,070
1930	708-54	85	0	7.20	5,210	85	0	6.98	5,060
1931	723-52	128	0	4.33	3,130	128	0	3.41	2,470
1932	738-57	311	0	23.2	16,800	311	0	24.7	18,000
1933	753-53	193	0	10.2	7,420	193	0	8.76	6,340
1934	768-55	33	0	.88	635	33	0	.80	579
1935	813-83	155	0	14.6	10,580	155	0	14.6	10,580
1936	813-83	360	0	11.9	8,600	360	0	11.9	8,600
1937	833-55	222	0	7.3	5,310	222	0	7.3	5,310
1938	863-57	800	0	50.5	36,550	800	0	52.0	37,660
1939	883-77	221	0	22.1	15,990	-	-	-	-

Beaver Creek at Dubois, Idaho
(Drainage area, 220 square miles)

1921	553-92	Apr. 15 to Dec. 31				538	13	-	42,800
1922	553-97	570	-	53.1	38,400	570	-	53.3	38,600
1923	573-85	205	6.0	43.9	31,800	205	6.0	42.6	38,800
1924	593-94	-	0	19.5	14,200	-	-	-	-
1925	613-93	Mar. 16 to Sept. 30				418	-	-	34,000
1926	633-73	Mar. 1 to Sept. 30				350	0	-	13,300
1927	653-63	Mar. 23 to Dec. 4				293	5	-	20,000
1928	673-51	Mar. 20 to Dec. 31				-	-	-	3,690
1929	693-53	118	0	7.0	5,020	-	-	-	-
1930	708-57	Mar. 18 to Sept. 30				442	0	-	6,560
1931	723-53	Mar. 20 to Dec. 31				109	0	-	1,190
1932	738-58	59	0	3.8	2,730	59	0	3.8	2,730
1933	753-54	93	0	2.18	1,570	93	0	2.18	1,570
1934	768-56	0	0	0	0	0	0	0	0
1935	793-59	79	0	4.1	2,960	79	0	4.1	2,960
1936	813-84	49	0	.8	615	49	0	.8	615
1937	833-56	9	0	.1	71	9	0	.1	71
1938	863-58	217	0	24.5	17,700	217	0	24.6	17,820
1939	883-79	240	0	13.9	10,050	-	-	-	-

Note.- Figures for 1921, 1925-28, 1930-31, are for the periods indicated in those years.

Beaver Creek at Camas, Idaho

*1921	533-94	153	0	-	-	153	0	20.1	9,980
1922	553-98	141	0	13.8	10,000	141	0	13.8	10,000
1923	573-86	83	0	8.60	6,230	83	0	8.60	6,230
1924	593-95	102	0	2.09	1,520	102	0	2.09	1,520
1925	613-95	139	0	13.8	10,000	139	0	13.8	10,000
1926	633-75	153	0	6.53	4,720	153	0	6.53	4,720
1927	653-64	86	0	4.86	3,520	86	0	4.86	3,520
1928	673-52	62	0	.87	633	62	0	.87	633
1929	693-53	0	0	0	0	0	0	0	0
1930	708-57	153	0	2.39	1,730	153	0	2.39	1,730
1931	723-53	0	0	0	0	0	0	0	0
1932	738-58	0	0	0	0	0	0	0	0
1933	753-54	0	0	0	0	0	0	0	0
1934	768-56	0	0	0	0	0	0	0	0
1935	793-59	0	0	0	0	0	0	0	0
1936	813-85	0	0	0	0	0	0	0	0
1937	833-56	0	0	0	0	0	0	0	0
1938	863-59	54	0	2.9	2,120	54	0	2.9	2,120
1939	883-80	118	0	5.18	3,740	-	-	-	-

*Year ending Sept. 30 incomplete.

LITTLE LOST RIVER BASIN

Little Lost River near Howe, Idaho

Calendar year	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
1921, Apr. 27 to Nov. 6	533-99	153	55	38,000
1922, Apr. 27 to Sept. 30	553-106	161	68	33,800
1923, Apr. 15 to Oct. 15	573-92	176	-	38,400
1924, Apr. 16 to Oct. 31	593-98	141	45	27,700
1925, Mar. 29 to Oct. 31	613-96	148	51	40,500
1926, Mar. 16 to Oct. 31	633-76	114	29	29,400
1927, Mar. 27 to Oct. 31	653-65	168	36	39,100
1928, Apr. 1 to Oct. 29	673-53	168	39	38,000
1929, Apr. 1 to Oct. 31	693-54	138	29	29,200
1930, Mar. 19 to Oct. 31	708-58	160	32	30,800
1931, Mar. 21 to Oct. 31	723-54	99	21	19,600
1932, Apr. 6 to Oct. 31	738-59	138	18	29,500
1933, Apr. 8 to Oct. 31	753-55	114	25	23,300
1934, Mar. 14 to Nov. 24	768-57	68	23	20,670
1935, Apr. 1 to Oct. 31	793-60	154	23	27,260
1936, Mar. 19 to Oct. 31	813-86	112	17	23,690
1937, Apr. 6 to Nov. 20	833-57	48	14	11,920
1938, Apr. 1 to Nov. 16	863-60	150	12	29,310

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Summary of yearly discharge, in second-feet, at stations in
BIG LOST RIVER BASIN

Big Lost River at Howell ranch, near Chilly, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1904	135-190	Apr. 25 to Dec. 31				1,605	73	-	239,700
1905	178-110	1,355	65	250	180,800	1,355	65	238	172,300
1906	214-87	Apr. 21 to Aug. 31				2,380	235	-	192,000
1907	272-288	July 1 to Nov. 16				2,210	166	-	175,000
1908	272-288	Apr. 1 to Nov. 30				2,030	35	-	220,000
1909	272-288	Apr. 11 to Nov. 13				2,880	50	-	258,000
1910	292-336	June 15 to Nov. 19				870	114	-	79,700
1911	312-302	Apr. 23 to Nov. 11				3,420	112	-	296,000
1912	332-326	Apr. 1 to Nov. 23				1,940	27	-	164,000
1913	362-314	Apr. 13 to Nov. 30				2,590	-	-	250,000
1914	393-66	Mar. 23 to Nov. 14				2,200	61	-	258,000
1920	513-117	May 11 to Oct. 31				1,490	-	-	145,000
*1921	533-102	Apr. 1 to Nov. 7				3,340	77	-	251,000
1922	553-109	Apr. 1 to Nov. 13				3,280	62	-	241,000
1923	573-95	Apr. 1 to Oct. 31				2,060	-	-	198,000
1924	593-101	Apr. 1 to Nov. 8				820	55	-	81,200
1925	613-99	Mar. 28 to Nov. 4				2,130	73	-	224,000
1926	633-79	Apr. 7 to Nov. 13				747	-	-	89,500
1927	653-68	Apr. 1 to Nov. 12				2,380	-	-	213,000
1928	673-55	Mar. 31 to Nov. 3				1,910	73	-	159,000
1929	693-56	Apr. 11 to Oct. 31				1,300	40	-	105,000
1930	708-60	Apr. 3 to Nov. 16				1,760	67	-	171,000
1931	723-56	Apr. 11 to Nov. 14				720	48	-	76,400
1932	738-61	Apr. 4 to Nov. 30				2,180	39	-	199,000
1933	753-57	Apr. 1 to Oct. 31				1,660	-	-	121,000
1934	768-59	Apr. 1 to Nov. 30				573	42	-	67,870
1935	793-62	Apr. 1 to Nov. 30				2,180	55	-	186,800
1936	813-88	Apr. 1 to Oct. 31				1,190	60	-	130,200
1937	833-59	Apr. 1 to Nov. 21				802	-	-	88,220
1938	863-62	Apr. 1 to Nov. 6				3,070	55	-	319,500

*Records do not include flow of about 2,300 acre-feet, which bypassed gage through old channel on right bank.

Note.- Figures for 1904, 1906-38, are for the periods indicated in those years.

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

1920	513-119	305	0	37.4	27,200	305	0	39.2	28,400
*1921	533-110	-	2	75.0	71,800	-	2	75.0	71,800
1922	553-114	999	-	96.3	69,600	999	-	94.2	68,200
1923	573-97	646	-	64.8	47,000	646	-	67.8	49,100
1924	593-103	179	0	13.7	9,920	179	0	9.89	7,180
1925	613-101	775	0	81.9	59,400	775	0	83.3	60,400
1926	633-80	185	0	11.7	8,470	185	0	10.4	7,570
1927	653-70	800	0	65.3	47,200	800	0	65.9	47,700
1928	673-56	750	0	56.8	41,200	750	0	57.5	41,700
1929	693-57	348	0	21.8	15,900	348	0	20.7	15,100
1930	708-61	646	0	46.0	33,400	646	0	48.1	34,900
1931	723-57	50	0	4.6	3,300	50	0	2.0	1,460
1932	738-62	960	0	77.3	56,100	960	0	77.6	56,400
1933	753-58	706	0	37.4	27,100	706	0	37.0	26,800
1934	768-60	0	0	0	0	0	0	0	0
1935	793-63	900	0	70.3	50,920	900	0	70.3	50,920
1936	813-89	322	0	22.7	16,480	322	0	22.7	16,480
1937	833-60	192	0	9.1	6,620	192	0	9.1	6,620
1938	863-63	1,320	0	165	119,100	1,320	0	171	124,100
1939	883-85	250	4	30.0	21,700	-	-	-	-

*Records include estimated flow of 17,540 acre-feet in overflow channel.

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

1920	513-122	210	-	42.5	30,900	210	-	43.5	31,600
1921	533-112	-	23	96.2	69,700	-	23	96.3	69,800
1922	553-116	1,080	-	105	76,100	1,080	-	110	79,600
1923	573-98	534	30	92.6	67,200	534	30	90.8	65,900
1924	593-105	141	22	37.5	27,200	141	-	32.8	23,800
1925	613-103	498	13	67.2	48,600	498	13	71.5	51,700
1926	633-82	91	26	37.8	27,400	91	23	33.8	24,500
1927	653-71	493	15	65.2	47,200	493	15	69.1	50,000
1928	673-57	387	28	61.4	44,500	387	28	59.2	42,900
1929	693-58	188	18	36.2	26,200	188	18	36.0	26,000
1930	708-62	346	18	49.3	35,600	346	18	49.5	35,800
1931	723-58	60	19	29.8	21,600	60	19	28.0	20,300
1932	738-63	450	16	54.0	39,200	450	16	54.5	39,500
1933	753-59	260	16	35.5	25,700	260	16	35.1	25,400
1934	768-61	32	13	21.6	15,650	27	13	20.3	14,710
1935	793-64	364	9	38.7	28,010	364	9	41.1	29,760
1936	813-90	234	14	39.5	28,680	234	14	40.6	29,430
1937	833-61	85	21	31.3	22,670	85	21	28.9	20,850
1938	863-64	734	13	93.9	67,990	734	13	102	73,690
1939	883-86	127	39	58.2	42,150	-	-	-	-

Combined flow of Big Lost River (east and west channels) and Warm Spring Creek (east and west channels) above Mackay Reservoir, near Mackay, Idaho

1920	513-126	751	101	190	138,000	751	101	196	142,000
*1921	-	2,180	125	324	†252,000	2,180	125	327	†254,000
1922	553-119	2,680	128	355	257,000	2,680	128	357	258,000

*Not previously published.

†Includes estimated flow of 17,540 acre-feet in overflow channel.

Summary of yearly discharge, in second-feet, at stations in Big Lost River Basin--Continued

Combined flow of Big Lost River (east and west channels) and Warm Spring Creek (east and west channels) above Mackay Reservoir, near Mackay, Idaho--Continued

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1923	573-101	1,570	145	306	221,000	1,570	145	310	224,000
1924	593-108	513	100	168	122,000	513	100	152	110,000
1925	613-106	1,670	88	286	207,000	1,670	88	301	218,000
1926	633-85	416	103	171	124,000	416	103	157	114,000
1927	653-74	1,680	95	263	191,000	1,680	95	271	196,000
1928	673-58	1,450	104	244	177,000	1,450	104	241	175,000
1929	693-59	738	86	167	121,000	738	86	163	118,000
1930	708-63	1,280	79	209	152,000	1,280	79	215	155,000
1931	723-59	237	103	138	100,000	237	103	129	93,400
1932	738-64	1,720	85	245	178,000	1,720	85	251	182,000
1933	753-60	1,180	87	182	132,000	1,180	87	176	128,000
1934	768-62	139	81	110	79,950	131	81	107	77,320
1935	813-91	1,580	75	213	154,600	1,580	75	222	160,500
1936	813-92	793	91	177	128,200	793	91	177	128,200
1937	833-62	394	90	138	99,690	394	90	131	94,570
1938	863-65	2,520	97	390	282,100	2,520	97	410	297,100
1939	883-87	504	127	193	139,800	-	-	-	-

Big Lost River below Mackay Reservoir, near Mackay, Idaho

1904	135-187	-	-	-	-	1,755	160	410	297,400
1905	178-108	1,120	122	262	189,800	1,120	122	248	179,300
1913	362-316	1,740	133	385	279,000	1,740	133	389	282,000
1914	393-67	1,880	41	367	266,000	1,880	41	372	270,000
1919	513-128	-	-	-	-	881	76	208	151,000
1920	513-128	1,010	-	224	162,000	1,010	-	211	153,000
1921	533-115	2,990	50	361	261,000	2,990	58	378	274,000
1922	553-120	2,160	58	374	271,000	2,160	87	359	260,000
1923	573-103	1,350	87	314	227,000	1,350	48	345	249,000
1924	593-109	812	48	213	154,000	780	38	179	130,000
1925	613-107	1,380	38	311	225,000	1,380	56	311	225,000
1926	633-87	700	56	188	136,000	700	25	187	135,000
1927	653-75	1,430	25	279	202,000	1,430	35	283	205,000
1928	673-60	1,220	35	264	192,000	1,220	35	263	191,000
1929	693-61	802	35	186	135,000	802	35	183	132,000
1930	708-65	1,340	35	225	163,000	1,340	53	230	166,000
1931	723-61	570	53	163	118,000	570	39	158	114,000
1932	738-66	1,280	39	256	186,000	1,280	49	260	189,000
1933	753-62	1,580	49	208	150,000	1,580	50	208	150,000
1934	768-64	500	50	128	92,900	500	35	122	88,390
1935	793-66	1,250	35	229	166,000	1,250	50	238	172,100
1936	813-94	925	50	194	140,600	925	37	193	140,100
1937	833-64	715	37	165	119,400	715	50	160	116,600
1938	863-67	2,440	50	354	256,700	2,440	70	375	271,800
1939	883-89	744	87	241	174,800	-	-	-	-

Note.- Sharp ditch diverts above station and Streeter ditch below, except it was above site at station used from May 1913 to March 1915. Flow regulated in Mackay Reservoir since 1917 by storage.

Warm Spring Creek (east channel) near Mackay, Idaho

1920	513-136	69	9	21.4	15,600	69	9	21.5	15,600
1921	533-123	-	14	34.4	25,000	-	14	34.3	24,900
1922	553-128	225	12	35.2	25,500	225	12	35.7	25,900
1923	573-106	127	19	34.1	24,700	127	19	35.2	25,500
1924	593-113	52	13	22.7	16,500	52	13	20.9	15,200
1925	613-110	148	13	31.8	23,000	148	13	35.0	25,300
1926	633-90	42	15	26.6	19,200	42	15	23.9	17,300
1927	653-76	154	15	32.1	23,300	154	15	34.2	24,800
1928	673-61	-	15	32.2	23,400	-	15	31.5	23,100
1929	693-62	60	14	25.7	18,600	60	14	25.4	18,400
1930	708-66	105	11	29.7	21,500	105	11	30.3	22,000
1931	723-62	35	17	25.1	18,200	35	17	23.6	17,100
1932	738-67	114	14	29.9	21,700	114	14	32.8	23,800
1933	753-63	74	16	30.8	22,300	74	16	29.7	21,500
1934	768-65	35	15	24.1	17,450	32	15	22.8	16,540
1935	793-67	111	15	29.2	21,140	111	15	31.0	22,450
1936	813-95	75	17	30.8	22,340	75	17	28.3	20,560
1937	833-65	33	13	21.1	15,290	33	13	21.0	15,200
1938	863-68	192	15	34.8	25,220	192	15	34.1	24,700
1939	883-90	37	13	18.6	13,440	-	-	-	-

Warm Spring Creek (west channel) near Mackay, Idaho

1920	513-139	173	65	88.4	64,200	173	65	91.4	66,400
1921	533-125	411	84	118	85,800	411	84	121	87,700
1922	553-130	381	76	118	85,500	381	76	117	84,400
1923	573-108	270	92	114	82,800	270	93	116	84,000
1924	593-115	141	64	94.3	68,400	141	64	88.5	64,200
1925	613-112	251	61	105	76,100	251	61	111	80,800
1926	633-92	117	62	94.5	68,500	116	62	89.2	64,600
1927	653-78	257	64	100	72,700	257	64	102	73,800
1928	673-62	212	61	93.8	68,100	212	61	92.4	67,100
1929	693-63	144	54	83.1	60,200	144	54	80.7	58,400

Summary of yearly discharge, in second-feet, at stations in Big Lost River Basin--Continued

Warm Spring Creek (west channel) near Mackay, Idaho--Continued

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1930	708-67	185	50	84.4	61,000	185	50	86.7	62,800
1931	723-63	97	59	79.1	57,200	95	59	75.5	54,600
1932	738-68	196	54	84.0	61,000	196	54	86.6	62,900
1933	753-64	146	53	78.2	56,600	146	53	74.7	54,100
1934	768-66	77	52	64.7	46,830	75	52	63.6	46,050
1935	793-68	202	49	75.3	54,480	202	49	79.3	57,380
1936	813-96	162	56	83.6	60,690	162	56	85.1	61,740
1937	833-66	99	52	76.1	55,110	99	52	71.7	51,910
1938	863-69	297	62	96.3	69,740	297	64	103	74,620
1939	883-91	121	61	86.3	62,510	-	-	-	-

PORTNEUF RIVER BASIN

Portneuf River at Topaz, Idaho

*1913	362-337	902	-	-	-	902	-	-	-
1914	393-79	770	163	292	211,000	-	-	-	-
1920	513-150	853	152	227	165,000	853	152	232	169,000
1921	533-137	771	160	279	202,000	771	160	279	202,000
1922	553-143	822	168	260	188,000	-	-	-	-
1924	593-118	605	121	205	149,000	605	121	192	140,000
1925	613-116	680	121	214	155,000	680	131	221	160,000
1926	633-95	322	121	200	145,000	322	121	193	140,000
1927	653-81	492	138	219	159,000	492	155	227	165,000
1928	673-64	492	130	221	160,000	492	130	212	154,000
1929	693-65	372	134	193	140,000	372	134	194	140,000
1930	708-69	267	119	164	118,000	267	119	162	117,000
1931	723-65	258	87	139	101,000	258	87	133	96,500
1932	738-70	380	102	167	122,000	380	102	169	123,000
1933	753-66	358	93	161	117,000	358	93	159	115,000
1934	768-68	240	69	119	85,910	240	65	114	82,500
1935	793-70	372	65	142	102,800	372	81	145	105,200
1936	813-98	524	81	188	136,300	524	102	190	137,900
1937	833-68	358	102	163	117,700	358	102	166	120,100
1938	863-71	396	111	194	140,500	396	115	195	141,400
1939	883-93	460	87	160	115,800	-	-	-	-

*Year incomplete.

Portneuf River at Pocatello, Idaho

*1897	(a)	1,881	-	-	-	1,881	-	-	-
*1898	(a)	-	14	-	-	-	14	-	-
1913	362-339	915	53	287	208,000	915	53	275	199,000
1914	393-81	1,080	130	384	278,000	1,080	130	397	287,000
1915	413-77	473	52	238	172,000	473	52	215	156,000
1916	443-69	817	90	265	192,000	817	90	274	199,000
1918	483-96	564	80	291	211,000	564	80	278	201,000
1919	513-152	832	44	261	189,000	832	44	252	183,000
1920	513-152	1,020	68	277	201,000	1,020	68	284	206,000
1921	533-138	1,500	115	414	299,000	1,500	115	421	304,000
1922	553-144	1,510	136	369	267,000	1,510	136	363	262,000
1923	573-113	737	105	309	224,000	737	105	321	232,000
1924	593-120	471	53	244	177,000	471	53	218	158,000
1925	613-118	737	97	274	199,000	737	97	290	210,000
1926	633-97	601	54	229	165,000	601	54	213	154,000
1927	653-82	821	68	277	200,000	821	68	296	214,000
1928	673-65	647	81	270	196,000	647	81	250	182,000
1929	693-66	578	66	239	173,000	578	66	255	185,000
1930	708-70	427	29	190	138,000	427	29	180	130,000
1931	723-66	460	21	169	122,000	460	21	149	108,000
1932	738-71	595	64	212	154,000	595	64	226	164,000
1933	753-67	504	47	211	153,000	504	47	202	146,000
1934	768-69	270	21	118	85,160	270	21	106	76,530
1935	793-71	438	26	153	110,500	438	26	158	114,200
1936	813-99	802	46	218	158,000	802	46	232	168,100
1937	833-69	606	49	207	149,600	606	49	206	148,800
1938	863-72	702	65	238	172,500	702	65	253	183,100
1939	883-94	740	36	216	156,000	-	-	-	-

a 20th Ann. Rept., pt. 4, p. 475. *Year incomplete.

TRIBUTARIES BETWEEN PORTNEUF RIVER AND SALMON FALLS CREEK

North Side Minidoka canal near Minidoka, Idaho

*1909	272-262	-	-	-	-	1,220	0	450	326,000
*1910	292-308	1,200	0	490	355,000	1,200	0	482	349,000
1911	312-278	1,220	0	514	372,000	1,220	0	517	374,000
1912	332-293	1,190	0	495	359,000	1,190	0	478	346,000
1913	362-275	1,421	0	502	363,000	1,421	0	498	361,000
1914	393-29	1,520	0	549	397,000	1,520	0	538	389,000
*1915	413-83	1,493	0	550	398,000	1,493	0	587	425,000
*1916	443-72	1,490	0	614	446,000	1,490	0	575	418,000
*1917	463-99	1,500	0	533	386,000	1,500	0	521	377,000
1918	483-99	1,500	0	640	463,000	1,500	0	647	468,000

*Yearly figures not previously published; discharge for periods of missing record estimated.

Summary of yearly discharge, in second-feet, at stations on tributaries between Portneuf River and Salmon Falls Creek--Continued

North Side Minidoka canal near Minidoka, Idaho--Continued

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1919	513-157	1,490	0	553	400,000	1,490	0	537	389,000
1920	513-157	1,490	0	619	449,000	1,490	0	618	448,000
1921	533-142	1,500	0	598	433,000	1,500	0	618	447,000
1922	553-148	1,490	0	613	444,000	1,490	0	638	462,000
1923	573-116	1,490	0	624	452,000	1,490	0	620	448,000
*1924	593-123	1,490	0	538	391,000	1,490	0	533	387,000
*1925	613-121	1,490	0	667	483,000	1,490	0	702	509,000
1926	633-100	1,490	0	628	454,000	1,490	0	629	455,000
1927	653-85	1,580	0	673	487,000	1,580	0	700	507,000
*1928	673-67	1,620	0	757	549,000	1,620	0	729	529,000
1929	693-67	1,590	0	653	473,000	1,590	0	687	497,000
1930	708-71	1,620	0	723	524,000	1,620	0	679	491,000
1931	723-67	1,600	0	596	431,000	1,600	0	540	391,000
1932	738-72	1,670	0	607	441,000	1,670	0	689	500,000
1933	753-68	1,620	0	721	522,000	1,620	0	700	507,000
1934	768-70	1,140	0	333	241,000	1,140	0	332	240,000
1935	793-72	1,600	0	632	457,400	1,600	0	611	442,100
1936	813-100	1,650	0	617	448,000	1,650	0	641	465,700
1937	833-70	1,650	0	640	463,100	1,650	0	645	467,000
1938	863-74	1,680	0	666	481,800	1,680	0	659	477,000
1939	883-96	1,670	0	704	509,400	-	-	-	-

*Yearly figures not previously published; discharge for periods of missing record estimated.

South Side Minidoka canal near Minidoka, Idaho

*1909	272-263	-	-	-	-	243	0	75	54,000
*1910	292-309	486	0	137	99,600	486	0	146	106,000
1911	312-280	734	0	229	166,000	734	0	242	175,000
1912	332-295	807	0	234	170,000	807	0	248	180,000
1913	362-277	848	0	293	212,000	848	0	269	195,000
1914	393-30	932	0	309	224,000	932	0	318	230,000
*1915	413-84	938	0	339	245,000	938	0	359	260,000
*1916	443-74	1,012	0	373	271,000	1,012	0	362	263,000
1917	463-100	1,057	0	337	244,000	1,057	0	330	239,000
1918	483-101	1,060	0	391	283,000	1,060	0	387	280,000
1919	513-160	1,020	0	331	240,000	1,020	0	327	237,000
1920	513-160	1,060	0	396	287,000	1,060	0	397	288,000
1921	533-144	1,100	0	336	243,000	1,100	0	339	245,000
1922	553-150	1,050	0	349	253,000	1,050	0	345	250,000
1923	573-118	1,060	0	357	259,000	1,060	0	355	257,000
1924	593-125	953	0	327	237,000	953	0	337	245,000
1925	613-122	1,080	0	417	302,000	1,080	0	435	314,000
1926	633-102	1,060	0	435	315,000	1,060	0	437	316,000
*1927	653-86	1,070	0	426	308,000	1,070	0	424	307,000
*1928	673-68	1,100	0	453	329,000	1,100	0	452	328,000
1929	693-68	1,100	0	428	310,000	1,100	0	406	294,000
1930	708-72	1,140	0	438	317,000	1,140	0	432	313,000
1931	723-68	1,170	0	430	311,000	1,170	0	435	315,000
1932	738-73	1,240	0	440	319,000	1,240	0	442	321,000
1933	753-69	1,240	0	505	365,000	1,240	0	514	372,000
1934	768-71	825	0	264	191,000	825	0	301	218,100
1935	793-73	1,300	0	495	358,500	1,300	0	466	337,200
1936	813-101	1,320	0	485	352,100	1,320	0	489	354,800
1937	833-71	1,340	0	467	338,100	1,340	0	468	339,000
1938	863-75	1,350	0	485	351,300	1,350	0	473	342,800
1939	883-97	1,270	0	488	353,300	-	-	-	-

*Yearly figures not previously published; discharge for periods of missing record estimated.

Goose Creek above Trapper Creek, near Oakley, Idaho

1911	312-317	May 1 to Dec. 31				80	3.6	-	12,400
1912	332-359	493	12	80.7	58,500	493	14	82.5	59,800
1913	362-349	418	-	53.9	39,100	418	14	53.9	39,100
1914	393-89	331	12	71.8	52,000	-	-	-	-
1915	413-84	Mar. 4 to Dec. 30				80	1	-	17,600
1916	443-74	Mar. 9 to Sept. 30				243	7.8	-	34,900
1919	513-160	Apr. 1 to Nov. 23				-	2.9	-	18,000
1920	513-160	Apr. 1 to Dec. 4				231	5.6	-	25,100
1921	533-145	Mar. 27 to Nov. 23				670	23	-	76,100
1922	553-150	Apr. 20 to Oct. 27				543	18	-	38,200
1923	573-118	Mar. 28 to Dec. 3				181	12	-	33,200
1924	593-125	Mar. 25 to Nov. 18				148	7.0	-	19,200
1925	613-123	Mar. 5 to Dec. 14				242	11	-	34,700
1926	633-102	Mar. 8 to Dec. 31				95	5.5	-	15,900
1927	653-87	-	5.8	44.9	32,400	-	5.8	44.7	32,400
1928	673-69	208	4.2	40.8	29,600	208	4.2	40.3	29,200
1929	693-69	198	6.0	42.8	31,000	198	6.0	43.1	31,300
1930	708-73	78	3.2	24.6	17,800	78	3.2	24.2	17,500
1931	723-69	65	.3	19.7	14,200	65	.3	18.3	13,300
1932	738-74	228	6.6	42.8	31,100	228	6.6	43.8	31,800
1933	753-70	156	4.0	31.0	22,400	156	4.0	30.7	22,200
1934	768-72	46	0	15.3	11,080	46	0	14.6	10,540
1935	793-74	93	0	22.6	16,330	93	0	22.0	15,950
1936	813-102	217	0	35.5	25,780	217	4.4	36.8	26,730
1937	833-72	136	1.5	29.1	21,090	136	1.5	29.3	21,230
1938	863-76	233	3.2	41.5	30,030	233	3.2	42.0	30,380
1939	883-98	552	.1	36.1	26,100	-	-	-	-

Note.- Figures for 1911, 1915-26, are for the periods indicated in those years.

Summary of yearly discharge, in second-feet, at stations on tributaries between Portneuf River and Salmon Falls Creek--Continued

Trapper Creek near Oakley, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1911	312-320	May 1 to Dec. 31				27	6.7	-	6,020
1912	332-361	66	-	19.4	14,100	66	-	19.6	14,200
1913	362-352	Jan.1 to Feb.28, Apr.1 to Dec.31				38	-	-	10,400
1914	393-91	-	-	19.2	13,900	-	-	-	-
1915	413-86	Mar. 3 to Dec. 17				21	-	-	7,000
1916	443-76	Mar. 10 to Sept. 30				52	9.7	-	9,680
1919	513-163	Mar. 28 to Nov. 19				35	-	-	7,170
1920	513-163	Mar. 12 to Dec. 3				38	8.3	-	8,560
1921	533-147	Mar. 21-29, Apr. 28 to Nov. 23				97	13	-	14,400
1922	553-152	Apr. 19 to Nov. 8				88	13	-	11,400
1923	573-119	Mar. 28 to Dec. 10				35	11	-	9,150
1924	593-126	Mar. 28 to Dec. 9				24	-	-	7,080
1925	613-124	Mar. 1 to Dec. 13				40	10	-	8,970
1926	633-104	Mar. 9 to Dec. 31				16	-	-	6,870
1927	653-88	47	-	15.5	11,200	47	-	15.4	11,200
1928	673-70	47	-	14.7	10,700	47	-	14.3	10,400
1929	693-70	44	-	13.5	9,760	44	-	13.6	9,850
1930	708-74	16	7.1	9.86	7,140	16	-	9.41	6,810
1931	723-72	-	-	8.65	6,270	-	-	8.87	6,420
1932	738-76	40	-	13.9	10,100	40	-	13.8	10,000
1933	753-72	34	7.3	11.3	8,200	34	7.3	11.5	8,360
1934	768-74	12	6.0	8.86	6,410	12	6.0	8.80	6,370
1935	793-76	19	5.6	9.88	7,150	19	5.6	9.79	7,080
1936	813-104	47	6.5	15.2	11,020	47	-	15.8	11,460
1937	833-74	38	7.7	14.2	10,300	38	7.7	14.1	10,230
1938	863-78	42	8.1	14.2	10,280	42	6.5	13.9	10,100
1939	883-100	27	6.5	12.6	9,140	-	-	-	-

P. A. lateral near Milner, Idaho

1916	(*)	-	0	7.9	5,720	-	0	7.9	5,720
1917	(*)	-	0	14.8	10,700	-	0	14.8	10,700
1918	(*)	-	0	22.1	16,000	-	0	22.1	16,000
1919	513-167	61	0	15.2	11,000	61	0	15.2	11,000
1920	513-167	60	0	22.4	16,300	60	0	23.4	17,000
1921	533-150	62	0	21.5	15,600	62	0	20.6	14,900
1922	553-155	60	0	20.6	14,900	60	0	21.3	15,400
1923	573-122	61	0	21.7	15,700	61	0	21.0	15,200
1924	593-129	55	0	14.0	10,200	55	0	16.8	12,200
1925	613-127	55	0	23.6	17,100	55	0	21.1	15,300
1926	633-107	55	0	20.7	15,000	55	0	20.5	14,800
1927	653-91	58	0	21.7	15,700	58	0	21.9	15,900
1928	673-71	57	0	22.8	16,600	57	0	22.8	16,600
1929	693-71	57	0	21.6	15,600	57	0	21.6	15,600
1930	708-75	64	0	22.5	16,300	64	0	22.5	16,300
1931	723-73	63	0	24.0	17,400	63	0	24.2	17,500
1932	738-77	64	0	23.2	16,900	64	0	22.8	16,600
1933	753-73	61	0	24.2	17,600	61	0	24.2	17,600
1934	768-75	62	0	23.4	16,900	62	0	23.5	16,980
1935	793-77	62	0	23.3	16,880	62	0	23.3	16,870
1936	813-105	62	0	24.9	18,100	62	0	24.9	18,060
1937	833-75	62	0	24.2	17,500	62	0	24.3	17,590
1938	863-79	62	0	24.6	17,790	62	0	24.5	17,720
1939	883-101	60	0	24.8	17,920	-	-	-	-

*From records of North Side Canal Co.

Milner low-lift (Murtaugh) canal at Milner, Idaho

1921	533-152	53	0	8.3	6,020	53	0	8.3	6,020
*1922	553-156	96	0	20.9	15,130	96	0	21.0	15,200
*1923	573-124	100	0	29.3	21,200	100	0	29.4	21,300
1924	593-131	102	0	25.1	18,200	102	0	25.1	18,200
1925	613-129	106	0	32.5	23,500	106	0	32.1	23,200
1926	633-108	104	0	34.6	25,000	104	0	36.3	26,300
1927	653-92	106	0	41.2	29,800	106	0	39.3	28,500
1928	673-72	143	0	45.0	32,700	143	0	45.7	33,100
1929	693-72	167	0	49.1	35,500	167	0	48.3	35,000
1930	708-76	167	0	46.7	33,800	167	0	46.7	33,800
1931	723-74	167	0	52.1	37,700	167	0	52.9	38,300
1932	738-78	170	0	53.2	38,600	170	0	52.3	38,000
1933	753-74	173	0	62.7	45,400	173	0	64.0	46,300
1934	768-76	130	0	41.1	29,700	130	0	42.3	30,640
1935	793-78	128	0	48.1	34,820	128	0	45.5	32,980
1936	813-106	174	0	58.8	42,770	174	0	58.8	42,770
1937	833-76	172	0	57.1	41,310	172	0	57.1	41,310
1938	863-80	170	0	55.1	39,870	170	0	55.1	39,870
1939	883-102	166	0	65.4	47,320	-	-	-	-

*Yearly figures not previously published; discharge for periods of missing record estimated.

Gooding canal at Milner, Idaho

1930	708-77	385	0	56	40,200	638	0	135	97,700
1931	723-75	1,610	0	569	412,000	1,610	0	506	367,000
1932	738-79	2,170	0	698	507,000	2,170	0	712	516,000
1933	753-75	2,010	0	718	520,000	2,010	0	728	527,000
1934	768-77	1,610	0	537	389,000	1,610	0	520	376,700
1935	793-79	2,210	0	709	513,300	2,210	0	740	535,800

Summary of yearly discharge, in second-feet, at stations on tributaries between Portneuf River and Salmon Falls Creek--Continued

Gooding canal at Milner, Idaho --Continued

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1936	813-107	2,270	0	843	611,900	2,270	0	795	577,500
1937	833-77	2,250	0	822	594,700	2,250	0	827	598,400
1938	863-81	2,300	0	848	614,100	2,300	0	872	631,100
1939	883-103	2,310	0	935	676,700	-	-	-	-

North Side Twin Falls canal at Milner, Idaho

1910	292-316	2,280	0	594	430,000	2,280	0	704	509,000
1911	312-285	2,690	0	1,410	1,020,000	2,690	15	1,550	1,120,000
1912	332-299	2,710	15	1,650	1,200,000	2,710	21	1,650	1,200,000
1913	362-282	2,800	21	1,690	1,220,000	2,800	50	1,720	1,248,000
1914	393-35	2,680	0	1,530	1,110,000	2,680	0	1,320	958,000
1915	413-92	2,600	0	1,120	813,000	2,600	0	1,130	821,000
1916	443-81	2,830	0	1,500	1,090,000	2,830	0	1,720	1,245,000
1917	463-102	2,830	0	1,510	1,090,000	2,830	0	1,280	924,000
1918	483-103	2,950	0	1,490	1,080,000	2,950	0	1,510	1,090,000
1919	513-170	2,990	0	898	650,000	2,990	0	960	695,000
1920	513-170	3,130	0	1,470	1,060,000	3,130	0	1,460	1,059,000
1921	533-154	3,200	0	1,440	1,040,000	3,200	0	1,450	1,051,000
1922	553-159	3,100	0	1,340	969,000	3,100	0	1,310	950,000
1923	573-126	3,090	0	1,470	1,060,000	3,090	0	1,450	1,048,000
1924	593-133	2,980	0	781	567,000	2,980	212	870	631,000
1925	613-131	3,120	0	1,620	1,170,000	3,120	0	1,560	1,131,000
1926	633-110	3,000	0	1,210	878,000	3,000	0	1,290	934,000
1927	653-94	3,080	0	1,680	1,220,000	3,080	0	1,600	1,156,000
1928	673-73	3,180	0	1,660	1,200,000	3,180	0	1,670	1,210,000
1929	693-73	3,200	0	1,580	1,140,000	3,200	0	1,530	1,109,000
1930	708-78	3,160	0	1,570	1,140,000	3,160	0	1,550	1,124,000
1931	723-76	3,170	0	1,200	869,000	3,170	0	1,290	935,000
1932	738-80	2,970	0	1,430	1,040,000	2,970	0	1,400	1,018,000
1933	753-76	2,960	0	1,360	985,000	2,960	0	1,370	989,000
1934	768-78	2,350	0	941	681,000	2,350	0	841	609,000
1935	793-80	2,600	0	942	681,700	2,600	0	957	692,800
1936	813-108	2,890	0	1,165	843,000	2,890	0	1,228	891,600
1937	833-78	2,990	0	1,176	851,600	2,990	0	1,163	842,000
1938	863-82	2,790	0	1,218	831,800	2,790	0	1,194	864,600
1939	883-104	2,620	0	1,252	906,800	-	-	-	-

South Side Twin Falls canal at Milner, Idaho

1910	292-318	3,040	105	1,230	888,000	3,040	105	1,250	901,000
1911	312-287	3,240	85	1,330	967,000	3,240	85	1,380	997,000
1912	332-301	3,120	30	1,370	996,000	3,120	30	1,360	985,000
1913	362-284	3,250	11	1,480	1,070,000	3,250	11	1,510	1,094,000
1914	393-36	3,190	87	1,560	1,130,000	3,190	87	1,560	1,133,000
1915	413-94	3,250	94	1,480	1,070,000	3,250	94	1,470	1,064,000
*1916	443-83	3,670	94	1,870	1,350,000	3,690	94	2,220	1,613,000
*1917	463-104	3,690	23	2,160	1,568,000	3,680	23	1,870	1,357,000
*1918	483-105	4,600	120	2,000	1,445,000	4,600	120	1,970	1,422,000
1919	513-173	3,780	116	1,510	1,090,000	3,780	116	1,520	1,098,000
1920	513-173	3,560	0	1,810	1,310,000	3,560	0	1,780	1,295,000
1921	533-156	3,610	52	1,670	1,210,000	3,610	52	1,700	1,232,000
1922	553-161	3,680	9	1,740	1,260,000	3,680	9	1,730	1,254,000
1923	573-128	3,620	76	1,810	1,310,000	3,620	139	1,790	1,298,000
1924	593-135	3,380	49	1,530	1,110,000	3,380	49	1,510	1,094,000
1925	613-133	3,490	40	1,700	1,230,000	3,490	40	1,710	1,243,000
1926	633-112	3,560	53	1,720	1,250,000	3,560	56	1,770	1,282,000
1927	653-96	3,700	180	1,830	1,330,000	3,700	139	1,800	1,304,000
1928	673-74	3,630	103	1,880	1,360,000	3,630	103	1,850	1,342,000
1929	693-74	3,630	105	1,760	1,280,000	3,630	67	1,760	1,279,000
1930	708-79	3,760	67	1,780	1,290,000	3,760	100	1,790	1,295,000
1931	723-77	3,530	84	1,740	1,260,000	3,530	84	1,720	1,247,000
1932	738-81	3,700	100	1,700	1,230,000	3,700	100	1,720	1,249,000
1933	753-77	3,720	115	1,890	1,370,000	3,720	115	1,890	1,367,000
1934	768-79	3,390	103	1,710	1,240,000	3,390	103	1,693	1,225,000
1935	793-81	3,480	106	1,646	1,192,000	3,480	106	1,640	1,187,000
1936	813-109	3,620	45	1,744	1,266,000	3,620	45	1,758	1,276,000
1937	833-79	3,640	68	1,738	1,258,000	3,640	68	1,710	1,238,000
1938	863-83	3,530	40	1,699	1,230,000	3,530	15	1,697	1,229,000
1939	883-105	3,620	15	1,859	1,346,000	-	-	-	-

*Yearly figures not previously published; discharge for periods of missing record estimated.

Rock Creek near Twin Falls, Idaho

1923	573-128	462	99	203	147,000	538	99	224	162,000
1924	593-135	538	97	202	147,000	414	97	185	134,000
1925	613-133	665	112	232	168,000	665	119	228	165,000
1926	633-112	538	93	163	118,000	550	93	165	120,000
1927	653-96	-	96	218	158,000	-	96	222	161,000
1928	673-75	-	112	209	152,000	-	112	215	156,000
1929	693-75	640	110	251	182,000	640	110	255	184,000
1930	708-80	735	88	254	184,000	735	88	248	180,000
1931	723-78	514	95	199	144,000	514	95	199	144,000
1932	738-82	542	95	239	173,000	542	95	252	183,000
1933	753-78	693	106	253	183,000	693	106	242	176,000
1934	768-80	-	-	191	138,500	-	-	178	128,900
1935	793-82	396	94	167	120,800	396	94	170	122,900
1936	813-110	693	97	212	153,700	693	97	214	155,600
1937	833-80	488	104	219	158,400	488	104	224	162,400
1938	863-84	301	114	197	142,900	350	114	195	140,900
1939	883-107	358	135	203	147,200	-	-	-	-

Summary of yearly discharge, in second-feet, at stations in
SALMON FALLS CREEK BASIN

Salmon Falls Creek near San Jacinto, Nev.

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1911	312-326	953	18	138	100,000	953	18	136	98,600
1912	332-371	1,280	26	212	154,000	1,280	30	220	160,000
1913	362-359	608	24	151	109,000	608	24	145	105,000
1914	393-110	828	16	182	132,000	828	16	182	131,000
1915	413-98	246	14	74.7	54,000	246	14	69.3	50,100
1916	443-84	617	-	148	108,000	-	-	-	-
1920	513-173	568	16	114	83,100	568	16	116	84,300
1922	553-163	1,140	23	170	123,000	1,140	23	167	121,000
1923	573-130	509	30	134	96,700	509	30	138	99,600
1924	593-137	600	16	111	80,900	600	16	106	76,700
1925	613-136	716	24	144	104,000	716	24	148	107,000
1926	633-114	314	18	78.0	56,500	314	18	75.0	54,300
1927	653-97	802	24	133	96,300	802	24	135	97,500
1928	673-76	579	18	122	88,400	579	18	120	86,700
1929	693-76	521	19	117	84,400	521	19	117	84,400
1930	708-81	376	20	72.3	52,400	376	20	71.3	51,600
1931	723-79	202	11	55.9	40,500	202	11	54.6	39,500
1932	738-83	761	23	150	109,000	761	23	152	110,000
1933	753-79	477	16	99.0	71,800	477	16	98.9	71,600
1934	768-81	93	12	45.4	32,920	93	12	44.5	32,200
1935	793-85	569	14	108	77,930	569	14	108	77,850
1936	813-111	789	18	124	89,770	789	18	125	90,530
1937	833-81	357	11	81.6	59,080	357	11	80.8	58,490
1938	863-85	789	18	143	103,800	789	18	146	105,600
1939	883-108	1,400	11	120	86,670	-	-	-	-

BIG WOOD RIVER BASIN

Big Wood River at Hailey, Idaho
(Drainage area, 640 square miles)

1916	443-89	3,120	4	500	363,000	3,120	-	532	386,000
1917	483-105	3,450	-	469	339,000	3,450	-	454	328,000
1918	483-105	2,630	10	356	257,000	2,630	22	390	282,000
1919	513-178	1,900	4.9	288	209,000	1,900	-	254	184,000
1920	513-178	1,130	-	234	170,000	1,130	-	222	161,000
1921	533-171	3,560	-	434	314,000	3,560	-	427	309,000
1922	553-165	3,280	-	400	290,000	3,280	-	401	290,000
1923	573-131	2,420	-	335	243,000	2,420	-	367	265,000
1924	593-139	587	.1	90.3	65,500	587	.1	56.4	40,900
1925	613-136	2,660	.1	420	304,000	2,660	-	430	312,000
1926	633-116	945	5.4	138	99,700	945	3.4	129	93,100
1927	653-99	3,060	3.4	411	298,000	3,060	-	437	317,000
1928	673-77	2,170	-	296	215,000	2,170	-	271	197,000
1929	693-77	1,090	-	112	81,000	1,090	2	111	80,100
1930	708-82	1,640	2	251	182,000	1,640	2	253	183,000
1931	723-86	595	0	69.7	50,500	595	0	67.9	49,100
1932	738-85	2,440	0	367	267,000	2,440	1	371	270,000
1933	753-81	1,960	2	212	153,000	1,960	-	206	149,000
1934	768-83	545	-	87.2	63,130	545	-	87.0	63,010
1935	793-85	2,020	1	226	163,700	2,020	1	226	163,900
1936	813-113	1,800	1	202	146,700	1,800	0	202	146,700
1937	833-84	810	0	101	72,950	810	0	107	77,480
1938	863-88	4,340	0	615	445,500	4,340	12	626	453,400
1939	883-111	760	2	131	94,740	-	-	-	-

Note.- Water diverted around station by Hailey power plant and returned to river through Big Wood Slough. Figures of total flow of river at Hailey (combined flow of Big Wood River and Big Wood Slough) are given in the following table.

Combined flow of Big Wood River and Big Wood Slough at Hailey, Idaho
(Drainage area, 640 square miles)

1916	443-91	3,270	34	570	414,000	3,270	34	576	418,000
1917	483-109	3,580	82	567	411,000	3,580	89	567	411,000
1918	483-109	2,700	122	410	296,000	2,700	122	421	304,000
1919	513-182	1,920	114	326	236,000	1,920	85	312	226,000
1920	513-182	1,180	85	312	227,000	1,180	96	315	228,000
1921	533-174	3,910	132	624	452,000	3,910	86	630	456,000
1922	553-168	3,590	86	583	422,000	3,590	96	578	419,000
1923	573-134	2,660	-	493	357,000	2,660	126	503	364,000
1924	593-141	809	91	221	161,000	809	-	196	142,000
1925	613-139	2,800	-	553	401,000	2,800	106	574	415,000
1926	633-118	1,030	99	256	185,000	1,030	88	234	170,000
1927	653-102	3,190	88	519	377,000	3,190	89	546	396,000
1928	673-78	2,270	120	395	287,000	2,270	120	374	272,000
1929	693-78	1,160	87	225	163,000	1,160	87	220	159,000
1930	708-83	1,690	92	347	251,000	1,690	92	355	257,000
1931	723-87	636	34	170	123,000	636	15	153	111,000
1932	738-86	2,520	15	435	317,000	2,520	60	451	328,000
1933	753-82	2,000	84	311	225,000	2,000	84	304	220,000
1934	768-84	575	63	177	128,400	575	63	169	122,600
1935	793-86	2,160	68	346	250,600	2,160	81	352	255,000
1936	813-11	1,960	85	331	240,600	1,960	83	329	239,200
1937	833-85	988	77	225	163,100	988	77	225	163,200
1938	863-89	4,500	82	722	522,800	4,500	99	755	546,700
1939	883-112	941	102	294	212,800	-	-	-	-

Summary of yearly discharge, in second-feet, at stations in Big Wood River Basin--Continued

Big Wood River near Bellevue, Idaho
(Drainage area, 823 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1911	312-330	July 6 to Nov. 14				1,750	97	-	85,600
1912	332-375	Apr. 18 to Nov. 18				1,550	84	-	155,000
1913	362-365	May 1 to Sept. 30				2,180	65	-	194,000
1914	393-122	June 12 to Dec. 28				1,610	64	-	107,000
1915	413-102	Mar. 1 to Dec. 31				700	62	-	127,000
1916	443-92	2,230	46	391	284,000	-	-	-	-
1917	483-110	Apr. 1 to Oct. 31				2,670	78	-	300,000
1918	483-110	Jan. 1 to Sept. 30				2,540	54	-	183,000
1919	513-184	Apr. 22 to Oct. 31				1,250	32	-	78,700
1920	513-184	Apr. 6 to Dec. 31				772	25	-	75,100
1921	533-176	Jan.1 to June 16, July 8 to Dec.31				3,160	-	-	270,000
1922	553-168	2,440	30	384	278,000	-	-	-	-
1923	573-134	Mar. 31 to Dec. 31				1,840	74	-	221,000
1924	593-141	Jan. 1-2, Mar. 29 to Sept. 30				307	-	-	30,100
1925	613-139	Mar. 31 to Sept. 30				2,100	101	-	235,000
1926	633-118	Mar. 31 to Sept. 30				578	40	-	49,200
1927	653-102	Apr. 1 to Sept. 30				2,390	120	-	237,000
1928	673-79	Mar. 15 to Sept. 30				1,820	52	-	121,000
1929	693-79	Mar. 29 to Sept. 30				470	43	-	38,100
1930	708-84	Mar. 29 to Sept. 30				1,100	26	-	99,300
1931	723-88	Apr. 1 to Oct. 8				123	14	-	17,600
1932	738-87	Apr. 2 to Sept. 30				1,820	7	-	173,000
1933	753-83	Apr. 10 to Oct. 12				1,300	41	-	86,900
1934	768-85	Mar. 20 to Sept. 30				116	21	-	20,180
1935	793-87	Apr. 1 to Oct. 31				1,340	25	-	109,300
1936	813-115	Apr. 1 to Nov. 30				1,220	28	-	110,600
1937	833-86	Mar. 27 to Nov. 30				630	28	-	48,970
1938	863-90	Mar. 10 to Nov. 30				3,190	69	-	369,000

Note.- Figures for 1911-15, 1917-21, 1923-38, are for the periods indicated in those years.

Big Wood River below Magic Dam, near Richfield, Idaho

1913	362-367	1,200	9	443	321,000	1,200	9	471	341,000
1914	393-124	2,480	106	624	453,000	2,480	83	597	433,000
1915	413-106	1,180	0	320	232,000	1,180	0	302	219,000
1916	443-94	2,560	20	643	467,000	2,560	20	650	472,000
1917	483-113	3,610	14	731	528,000	3,610	14	730	527,000
1918	483-113	1,610	15	409	296,000	1,610	15	416	301,000
1919	513-187	1,550	-	344	249,000	1,550	-	330	239,000
1920	513-187	1,740	1.6	162	118,000	1,740	1.6	148	107,000
1921	533-178	4,080	1.9	635	460,000	4,080	1.9	641	464,000
1922	553-178	3,330	-	646	467,000	3,330	-	656	474,000
1923	573-138	1,800	-	506	365,000	1,800	-	493	356,000
1924	593-144	1,570	-	171	124,000	1,570	-	172	125,000
1925	613-142	2,450	4.2	529	384,000	2,450	-	530	384,000
1926	633-121	1,390	16	259	188,000	1,390	-	258	187,000
1927	653-104	3,210	-	565	409,000	3,210	-	570	413,000
1928	673-81	1,530	-	426	309,000	1,530	-	430	312,000
1929	693-81	1,180	3.6	157	114,000	1,180	3.6	154	112,000
1930	708-86	1,340	4.2	218	158,000	1,340	-	211	153,000
1931	723-90	1,080	1.6	94.3	68,300	1,080	1.6	91.9	66,500
1932	738-89	1,830	1.6	233	169,000	1,830	-	239	173,000
1933	753-85	1,320	22	295	213,000	1,320	-	293	212,000
1934	768-87	656	4	213	154,300	656	2	214	154,800
1935	793-89	780	2	222	160,600	780	2	218	157,700
1936	813-117	750	3	232	168,200	750	3	233	169,500
1937	833-88	772	10	243	175,900	772	5	241	174,700
1938	863-92	5,330	5	747	541,100	5,330	5	753	545,000
1939	883-115	2,250	16	419	303,600	-	-	-	-

Note.- Records not adjusted for change in contents in Magic Reservoir.

Big Wood River at Gooding, Idaho
(published as Malade River at Toponis, Idaho, 1896-99)

1896	(a)	June 1 to Sept. 30			5,942	101	-	315,629
1897	(b)	June 6-19, July 1 to Sept. 30			2,360	0	-	64,922
1898	(c)	Mar. 13 to July 31			1,590	2	-	147,083
1899	(d)	Feb. 18 to Oct. 14			2,390	5	-	197,269
1921	533-182	Apr. 1 to Sept. 16			2,250	0	-	111,000
1922	553-182	Apr. 1 to Sept. 16			2,340	3	-	107,000
1923	573-143	Apr. 3 to Sept. 30			112	0	-	11,800
1924	593-149	May 9-28			53	16	-	1,520
1925	613-147	Apr. 1 to Sept. 30			713	0	-	23,700
1926	633-126	Apr. 24 to July 4			87	0	-	5,680
1927	653-109	Mar. 31 to Sept. 30			1,660	0	-	55,700
1928	673-83	May 1 to Sept. 30			63	3	-	6,170
1929	693-82	May 1 to July 31			61	0	-	5,900
1930	708-88	Apr. 1 to Aug. 31			90	0	-	7,470
1931	723-91	Apr. 1 to Sept. 30			64	0	-	6,740
1932	738-91	Apr. 3 to Sept. 30			142	0	-	18,600
1933	753-87	Apr. 1 to Oct. 7			248	0	-	20,600
1934	768-89	Mar. 22 to Sept. 30			54	0	-	10,300
1935	793-91	Apr. 1 to Sept. 30			95	0	-	11,800
1936	813-119	Apr. 1 to Sept. 30			280	0	-	26,820
1937	833-90	Apr. 1 to Nov. 30			271	0	-	24,780
1938	863-95	Apr. 1 to Nov. 30			3,820	0	-	310,900

a 18th Ann. Rept., pt. 4, p. 336.
b 19th Ann. Rept., pt. 4, p. 448.
c 20th Ann. Rept., pt. 4, p. 477.
d 21st Ann. Rept., pt. 4, p. 407.

Summary of yearly discharge, in second-feet, at stations in Big Wood River Basin--Continued

Big Wood River near Gooding, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1916	443-98	Apr. 1 to Dec. 31				1,670	1	-	113,000
1917	463-105	2,320	0	315	228,000	2,320	0	326	236,000
1918	483-119	290	0	66.5	48,100	290	0	62.9	45,500
1919	513-192	1,020	0	82.0	59,300	1,020	0	66.0	47,700
1920	513-192	169	0	20.1	14,600	170	0	32.2	23,400
1921	533-184	2,580	0	234	170,000	2,580	0	236	171,000
1922	553-184	3,680	0	251	182,000	3,680	0	249	180,000
1923	573-145	Jan. 1-6, Apr. 1 to Sept. 30				334	1	-	17,600
1924	593-150	Apr. 1 to June 3				39	-	-	1,470
1925	613-148	Apr. 1 to Sept. 16				592	0	-	21,400
1926	633-127	Apr. 1 to July 3				30	0	-	2,080
1927	653-110	Mar. 31 to Sept. 30				1,640	0	-	60,400
1928	673-84	Mar. 28 to Sept. 30				143	0	-	6,500
1929	693-83	Mar. 26 to Sept. 30				74	0	-	4,570
1930	708-89	Apr. 1 to Sept. 30				156	0	-	6,220
1931	723-92	Apr. 1 to Sept. 30				37	0	-	3,280
1932	738-92	Mar. 29 to Sept. 30				209	1	-	17,200
1933	753-88	Mar. 31 to Sept. 30				334	10	-	24,400
1934	768-90	Mar. 23 to Sept. 30				45	0	-	6,150
1935	793-92	Apr. 1 to Oct. 31				165	0	-	8,550
1936	813-120	Mar. 12 to Dec. 26				621	0	-	42,780
1937	833-91	Mar. 6 to Dec. 31				1,100	1	-	46,740
1938	863-96	3,700	1	462	334,800	3,700	-	462	334,800
1939	883-118	1,810	-	159	114,800	-	-	-	-

Note.- Figures for 1916, 1923-37, are for the periods indicated in those years.

Big Wood Slough at Hailey, Idaho

1916	443-99	184	2.4	69.6	50,600	190	2.4	43.6	31,600
1917	483-120	244	2.6	97.4	70,500	244	2.0	113	82,000
1918	483-120	197	-	54.2	39,200	197	-	30.9	22,400
1919	513-197	166	.9	37.5	27,100	196	.9	57.1	41,300
1920	513-197	196	3.0	78.1	56,800	255	11	92.8	67,400
1921	533-190	419	66	190	138,000	419	80	203	147,000
1922	553-186	314	75	183	133,000	310	75	177	128,000
1923	573-147	292	-	158	114,000	292	-	137	98,700
1924	593-151	246	18	131	95,200	246	18	139	101,000
1925	613-150	226	59	134	96,900	241	59	143	104,000
1926	633-129	241	12	118	85,500	198	12	106	76,800
1927	653-112	262	27	109	78,700	262	27	109	78,800
1928	673-85	163	16	98.9	71,800	164	16	102	74,100
1929	693-84	175	9	113	81,900	238	9	109	79,000
1930	708-90	238	8	95.8	69,400	211	8	103	74,300
1931	723-93	203	2	99.8	72,200	195	-	85.2	61,700
1932	738-93	153	0	68.6	49,800	181	0	79.9	58,100
1933	753-89	181	2	99.1	71,800	202	2	98.2	71,100
1934	768-91	202	-	90.1	65,270	146	-	82.4	59,640
1935	793-93	207	67	120	86,920	207	80	126	91,130
1936	813-121	230	16	129	93,880	230	16	127	92,450
1937	833-92	247	25	125	90,160	247	25	118	85,770
1938	863-97	242	19	107	77,120	270	0	129	93,150
1939	883-119	270	0	163	118,100	-	-	-	-

Camas Creek near Blaine, Idaho
(Drainage area, 618 square miles)

Calendar year	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
1912, May 9 to Nov. 18	332-384	670	5.5	35,600
1913, Apr. 26 to Sept. 18	362-373	488	8.9	28,300
1914, June 10 to Nov. 23	393-128	136	6.1	8,440
1915, May 18 to July 31	413-111	125	5	5,240
1916, May 17 to Nov. 8	443-101	495	6.4	27,300
1917, June 1 to Sept. 21	483-124	852	4.8	30,700
1918, Apr. 3 to Sept. 30	483-124	734	2.7	33,500
1919, May 20 to Oct. 22	513-200	164	2.4	6,060
1920, Apr. 5 to Sept. 30	513-200	398	-	18,400
1921, June 1 to Sept. 30	533-192	-	-	27,300
1923, Apr. 3 to Sept. 25	573-148	-	-	33,700
1924, Mar. 29 to June 30	593-152	272	3.4	11,900
1925, Mar. 31 to Apr. 8, May 15 to Sept. 30	613-152	4,930	4.7	78,700
1926, Mar. 27 to Sept. 30	633-130	500	1.8	17,900
1927, Mar. 15 to Sept. 30	653-113	3,350	4.0	188,000
1928, Mar. 15 to Sept. 30	673-86	1,600	2.7	64,000
1929, Mar. 18 to Sept. 30	693-85	-	2.3	46,000
1930, Mar. 29 to Sept. 30	708-91	480	2.1	28,900
1931, Apr. 1 to Oct. 8	723-94	410	-	11,900
1932, Mar. 30 to Sept. 30	738-94	2,570	2.4	107,000
1933, Apr. 12 to Oct. 19	753-90	2,230	2.0	69,800
1934, Mar. 12 to Sept. 30	768-92	287	1.6	11,750
1935, Apr. 1 to Nov. 20	793-94	2,870	1.7	55,860
1936, Apr. 1 to Nov. 7	813-122	5,800	2.1	121,200
1937, Mar. 25 to Nov. 30	833-93	3,050	1.7	57,580
1938, Mar. 11 to Nov. 26	863-98	8,000	3.0	227,500
1939	883-120	-	-	-

Summary of yearly discharge, in second-feet, at stations in Big Wood River Basin--Continued

Little Wood River near Carey, Idaho
(Drainage area, 312 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1921	533-194	968	-	226	164,000	968	-	226	163,000
1922	553-188	1,010	-	217	157,000	1,010	-	215	155,000
1923	573-150	708	-	161	117,000	708	-	165	120,000
1924	593-154	278	-	71.7	52,100	-	-	-	-
1925	613-156	Mar. 9-28, Apr. 14 to Dec. 31				734	-	-	105,000
1926	633-135	349	-	83.5	60,400	349	-	76.6	55,500
1927	653-118	1,080	-	197	143,000	-	-	-	-
1928	673-90	Mar. 7 to Nov. 30				481	21	-	67,900
1929	693-89	Mar. 1 to Dec. 31				273	8	-	42,500
1930	708-95	428	24	98.0	70,900	428	-	98.7	71,500
1931	723-98	160	7	45.7	33,100	160	7	39.7	28,700
1932	738-98	928	14	151	109,000	928	-	156	113,000
1933	753-94	516	17	90.8	65,800	516	17	89.0	64,500
1934	768-96	143	5.9	45.6	33,030	143	5.9	42.4	30,710
1935	793-98	624	15	112	81,350	624	19	115	83,550
1936	813-126	776	23	108	78,620	776	-	108	78,380
1937	833-97	437	-	75.5	54,620	942	11	81.5	59,000
1938	863-102	2,900	18	292	211,400	2,900	-	296	214,400
1939	883-124	568	14	91.5	66,260	-	-	-	-

Note.- Figures for 1925, 1928-29, are for the periods indicated in those years.

Little Wood River near Richfield, Idaho

1911	312-338	Jan. 1 to Oct. 9				722	59	-	144,000
1912	332-385	May 1 to Dec. 31				220	35	-	65,400
1913	362-375	382	44	152	110,000	-	-	-	-
1914	393-129	Jan.1 to Feb.28, Apr.1 to Sept.30				451	43	-	79,400
1915	413-113	Apr. 12 to Dec. 21				181	45	-	53,600
1916	443-102	Mar. 29 to Sept. 25				528	63	-	72,300
1917	483-127	May 1 to Oct. 17				601	54	-	79,800
1918	483-127	Apr. 1 to Sept. 30				316	22	-	44,000
1919	513-204	Apr. 21 to Aug. 12				282	11	-	19,900
1920	513-204	Apr. 14 to Dec. 31				202	8.2	-	52,300
1921	533-196	535	-	177	128,000	535	-	184	134,000
1922	553-190	Jan.1-12, Mar.14 to Oct.15, Dec.3-20				553	72	-	106,000
1923	573-153	Apr. 3 to Oct. 9				301	70	-	64,800
1924	593-156	Apr. 1 to Oct. 8				234	58	-	31,600
1925	613-158	Apr. 1 to Sept. 30				390	48	-	55,600
1926	633-137	Apr. 1 to Oct. 11				255	52	-	32,400
1927	653-119	Apr. 4 to Sept. 30				353	73	-	60,600
1928	673-91	Mar. 29 to Sept. 30				248	63	-	40,900
1929	693-90	Mar. 27 to Sept. 30				153	59	-	33,900
1930	708-96	Apr. 1 to Sept. 30				200	64	-	33,800
1931	723-99	Apr. 1 to Sept. 30				148	40	-	23,900
1932	738-99	Apr. 1 to Sept. 30				263	42	-	48,200
1933	753-95	Apr. 6 to Sept. 30				210	14	-	34,800
1934	768-97	Apr. 1 to Sept. 30				80	40	-	21,030
1935	793-99	Apr. 1 to Oct. 31				161	33	-	35,530
1936	813-127	Apr. 6 to Nov. 30				354	58	-	53,210
1937	833-98	Mar. 27 to Nov. 30				194	56	-	46,910
1938	863-103	Apr. 1 to Nov. 22				830	97	-	116,600

Note.- Figures for 1911-12, 1914-20, 1922-38, are for the periods indicated in those years.

Little Wood River at Shoshone, Idaho

Calendar year	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
1922, Apr. 1 to Oct. 10.....	553-192	642	1	118,000
1923, Apr. 1 to Oct. 10.....	573-155	387	43	104,000
1924, Apr. 1 to Oct. 4.....	593-158	343	1.8	35,900
1925, Apr. 1 to Sept. 30.....	613-159	481	96	101,000
1926, Apr. 1 to Sept. 30.....	633-138	316	36	52,000
1927, Apr. 1 to Sept. 30.....	653-121	447	66	99,100
1928, Mar. 26 to Sept. 30.....	673-92	431	45	85,700
1929, Mar. 27 to Sept. 30.....	693-91	331	28	36,100
1930, Apr. 1 to Sept. 30.....	708-97	331	30	41,100
1931, Apr. 1 to Oct. 4.....	723-100	388	17	63,500
1932, Apr. 1 to Sept. 30.....	738-100	447	43	102,000
1933, Apr. 1 to Sept. 30.....	753-96	434	85	109,000
1934, Apr. 1 to Sept. 30.....	768-98	358	10	105,200
1935, Apr. 1 to Oct. 9.....	793-100	437	19	84,150
1936, Apr. 1 to Oct. 31.....	813-128	439	25	117,200
1937, Mar. 27 to Nov. 11.....	833-99	433	22	121,100
1938, Apr. 1 to Nov. 10.....	863-104	565	6	138,800

Summary of yearly discharge, in second-feet, at stations in Big Wood River Basin--Continued

Fish Creek above dam, near Carey, Idaho
(Drainage area, about 56 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1920	513-207	May 3 to Dec. 31				46	2.2	-	5,470
1921	533-198	126	4.0	29.8	21,600	126	-	29.8	21,600
1922	553-194	154	-	26.3	19,000	-	-	-	-
1923	573-156	May 12 to July 18				-	9.1	-	4,850
1924	593-159	Apr. 11 to July 28				-	1.3	-	2,400
1925	613-162	May 7 to Dec. 31				49	.9	-	5,720
1926	633-140	-	0	10.2	7,400	-	0	10.2	7,410
1927	653-122	134	0	27.1	19,700	-	-	-	-
1928	673-93	Apr. 22 to Oct. 7				41	1.9	-	4,020
1929	693-92	May 3 to Oct. 31				30	.4	-	2,370
1930	708-98	Apr. 18 to Oct. 25				34	2.2	-	4,180
1931	723-101	Apr. 21 to Nov. 15				19	.6	-	2,100
1932	738-101	Apr. 10 to Nov. 5				100	1.2	-	12,400
1933	753-97	Apr. 18 to Oct. 10				52	-	-	4,380
1934	768-99	Mar. 19 to July 14				16	.5	-	1,660
1935	813-129	Apr. 1 to Oct. 20				65	.7	-	7,180
1937	833-100	May 1 to Sept. 30				25	.4	-	2,010
1938	863-105	Apr. 24 to Oct. 31				165	1.9	-	11,940
1939	883-127	May 6 to July 22				22	3.6	-	1,250

Note.- Figures for 1920, 1923-25, 1928-39, are for the periods indicated in those years.

Fish Creek near Carey, Idaho

1919	513-208	Apr. 10 to Dec. 31				95	2.8	-	10,200
1920	513-208	65	-	16.3	11,800	-	-	-	-
1923	573-158	May 12 to Sept. 12				108	4.0	-	11,000
1924	593-160	Apr. 11 to July 28				90	6.4	-	8,680
1925	613-163	May 7 to Dec. 11				96	0	-	11,200
1926	633-142	Apr. 29 to Nov. 30				70	-	-	11,000
1927	653-124	May 6 to Oct. 29				170	1.5	-	17,400
1928	673-94	Apr. 22 to Oct. 6				137	-	-	14,000
1929	693-92	May 3 to Dec. 31				57	-	-	7,980
1930	708-99	63	0	12.4	8,950	-	-	-	-
1931	723-102	Apr. 23 to Nov. 20				42	.8	-	5,930
1932	738-102	Apr. 10 to Oct. 22				103	1.6	-	14,200
1933	753-98	Apr. 18 to Dec. 31				106	.7	-	11,600
1934	768-100	53	-	8.18	5,930	53	-	7.97	5,780
1935	813-131	90	-	14.2	10,270	90	-	14.4	10,400
1936	813-131	96	-	17.2	12,490	96	-	17.3	12,530
1937	833-101	77	-	10.2	7,360	77	-	10.1	7,280
1938	863-106	334	.3	24.9	18,000	-	-	-	-
1939	883-128	May 13 to Sept. 24				114	3.4	-	10,380

Note.- Figures for 1919, 1923-29, 1931-33, 1939, are for the periods indicated in those years. Flow regulated by storage in Fish Creek Reservoir.

Silver Creek near Picabo, Idaho

1920	513-211	May 25 to Dec. 31				204	28	-	52,700
1921	533-202	263	88	149	108,000	263	88	156	113,000
1922	553-198	297	68	163	118,000	-	-	-	-
1923	573-159	Apr. 3 to Sept. 30				309	71	-	54,200
1924	593-163	Apr. 1 to Sept. 30				158	83	-	36,600
1925	613-166	Apr. 1 to Sept. 30				237	57	-	49,000
1926	633-146	Mar. 28 to Oct. 19				-	81	-	40,[illegible]00
1927	653-127	Apr. 5 to Sept. 30				219	35	-	44,200
1928	673-96	Apr. 2 to Sept. 30				169	79	-	45,700
1929	693-94	Mar. 29 to Sept. 30				229	82	-	43,300
1930	708-100	Apr. 1 to Sept. 30				151	80	-	43,200
1931	723-103	Apr. 1 to Sept. 30				182	68	-	32,700
1932	738-103	Apr. 1 to Sept. 30				217	36	-	44,500
1933	753-99	Apr. 14 to Sept. 30				206	39	-	39,100
1934	768-101	Apr. 1 to Sept. 30				112	63	-	30,340
1935	793-103	Apr. 1 to Dec. 31				171	55	-	59,240
1936	813-133	278	87	122	88,780	278	87	123	89,230
1937	833-102	245	-	118	85,590	245	-	117	84,390
1938	863-107	220	60	132	95,300	220	60	143	103,800
1939	883-129	250	86	138	100,100	-	-	-	-

Note.- Figures for 1920, 1923-35, are for the periods indicated in those years.

TRIBUTARIES BETWEEN BIG WOOD AND OWYHEE RIVERS

Bruneau River near Grandview, Idaho

1895	(a)	-	-	-	-	1,101	25	218	*158,210
1896	(b)	3,630	40	402	291,783	3,630	40	405	292,474
1897	(c)	3,840	30	513	371,231	3,840	30	513	372,075
1898	(d)	1,040	15	238	172,174	1,040	15	229	164,818
1899	(e)	2,452	45	537	389,000	2,452	45	547	395,920
1910	292-375	-	-	-	-	5,700	16	594	431,000
1911	312-351	2,220	1	413	299,000	2,220	1	398	289,000
1912	332-401	3,100	1.5	498	361,000	-	-	-	-
1913	362-392	-	-	-	-	1,600	8	332	241,000

a Bull. 140, p. 239
b 18th Ann. Rept., pt. 4, p. 339.
c 19th Ann. Rept., pt. 4, p. 450.
d 20th Ann. Rept., pt. 4, p. 481.
e 21st Ann. Rept., pt. 4, p. 406.

*Corrected. Figure as previously published in error.

Summary of yearly discharge, in second-feet, at stations on tributaries between Big Wood and Owyhee Rivers--Continued

Bruneau River near Grandview, Idaho--Continued

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1914	393-138	1,990	16	465	337,000	1,990	16	458	332,000
1915	413-117	1,210	5	220	160,000	1,210	5	224	162,000
1916	443-106	1,920	7	432	313,000	-	-	-	-

OWYHEE RIVER BASIN

Owyhee River near Gold Creek, Nev.

1918	483-131	217	-	21.1	15,300	217	-	19.9	14,400
1919	513-215	-	-	39.4	28,600	-	-	40.3	29,200
1920	513-215	-	-	46.7	33,800	-	-	47.9	34,700
1921	533-206	620	2	85.0	61,600	-	-	-	-
1923	573-164	217	-	25.3	18,300	217	-	25.4	18,400
1924	593-169	580	2	25.0	18,200	580	-	25.8	18,700
*1925	613-173	690	1	59.6	43,100	690	-	-	-
1937	833-106	250	-	25.8	18,700	250	-	25.5	18,460
1938	863-115	413	0	33.4	24,160	413	0	32.4	23,450
1939	883-139	693	0	54.8	39,680	-	-	-	-

*Calendar year incomplete.

Owyhee River at Mountain City, Nev.

1927	653-131	-	-	-	-	1,060	6	123	89,200
1928	673-99	1,510	2	109	78,800	1,510	2	104	75,800
1929	693-98	706	2	92.1	66,700	706	2	91.6	66,300
1930	708-103	388	2	45.2	32,800	388	2	46.0	33,400
1931	723-109	215	0	19.3	13,900	215	0	17.0	12,300
1932	738-108	852	1	125	90,500	852	1	126	91,700
1933	753-104	730	3	78.1	56,700	730	3	78.4	56,800
1934	768-105	92	0	15.6	11,300	92	0	15.0	10,900
1935	793-107	1,120	1	117	84,760	1,120	1	117	84,880
1936	813-137	1,760	3	144	104,700	1,760	-	145	105,300
1937	833-107	556	1	70.1	50,780	556	1	70.8	51,250
1938	863-116	1,430	3	119	86,250	1,430	6	119	85,840
1939	883-140	1,180	6	109	78,680	-	-	-	-

Owyhee River below Owyhee Dam, Oreg.

1930	708-104	1,780	92	340	246,000	1,780	92	337	224,100
1931	723-111	2,160	91	204	148,000	2,160	91	201	145,800
1932	738-110	13,900	27	1,160	840,000	13,900	-	1,149	834,400
1933	753-107	1,440	-	429	310,000	1,440	-	410	296,700
1934	768-108	291	1.4	109	78,590	291	1.5	98.2	71,130
1935	793-110	291	-	96.7	70,000	291	-	98.3	71,160
1936	813-140	11,700	-	673	488,900	11,700	-	679	493,200
1937	833-110	11,200	-	410	296,800	11,200	-	404	292,500
1938	863-119	8,190	-	897	649,600	8,190	-	902	653,000
1939	883-144	5,610	-	326	235,900	-	-	-	-

Owyhee River near Owyhee, Oreg.

1891	370-67	10,000	170	1,300	944,000	10,000	200	1,331	963,300
1892	370-67	18,000	280	3,170	2,300,000	18,000	320	3,260	2,366,000
1893	370-67	14,800	500	2,100	1,520,000	14,800	800	2,265	1,640,000
1895	370-67	-	-	-	-	5,060	75	802	580,400
1896	370-67	6,820	125	965	701,000	-	-	-	-
1904	370-67	20,900	4	1,530	1,110,000	20,900	4	1,520	1,103,000
1905	370-67	2,380	4	465	338,000	2,380	4	445	322,200
1906	370-67	11,600	10	1,410	1,020,000	11,600	17	1,418	1,026,000
1907	370-67	17,200	20	1,830	1,320,000	17,200	20	1,853	1,342,000
1908	370-67	4,460	25	477	345,000	4,460	25	467	339,200
1909	370-67	14,500	42	1,640	1,190,000	14,500	42	1,635	1,220,000
1910	370-67	23,200	25	1,900	1,390,000	23,200	25	1,900	1,382,000
1911	312-363	14,200	2	1,470	1,070,000	14,200	2	1,490	1,010,000
1912	332-410	14,200	3	1,580	1,140,000	14,200	3	1,620	1,170,000
1913	362-411	8,210	7	716	517,500	8,210	7	700	506,500
1914	393-152	8,310	1	1,240	895,000	8,310	1	1,211	876,800
1915	413-125	4,420	6	368	266,000	4,420	6	336	265,100
1916	443-116	12,000	1.5	*1,060	767,000	-	-	-	-
1922	553-206	14,500	3	1,160	843,000	14,500	3	1,131	819,600
1923	573-166	5,080	1	484	349,000	5,080	1	493	356,800
1924	593-172	7,880	0	302	218,000	7,880	0	290	210,200
1925	613-176	7,100	2	745	539,000	7,100	2	766	554,500
1926	633-153	5,960	0	482	350,000	5,960	0	475	343,500
1927	653-132	7,750	9	1,090	792,000	-	-	-	-

*Corrected. Figure as previously published in error.

Summary of yearly discharge, in second-feet, at stations in
BOISE RIVER BASIN

Boise River near Twin Springs, Idaho
(Drainage area, 830 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off Inches	Run-off Acre-feet	Maximum day	Minimum day	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
1912	332-416	7,900	280	1,420	1.71	23.25	1,030,000	7,900	-	1,420	1.71	23.37	1,030,000
1913	362-419	7,220	-	1,270	1.53	20.70	918,000	7,220	-	1,290	1.55	21.01	932,000
1914	393-161	5,520	340	1,280	1.54	20.88	924,000	5,520	-	1,260	1.52	20.55	909,000
1915	413-132	3,030	-	747	.900	12.22	541,000	3,030	206	728	.877	11.89	526,000
1916	443-123	7,990	191	1,530	1.84	25.06	1,110,000	7,990	175	1,530	1.84	25.15	1,110,000
1917	463-122	8,390	175	1,340	1.61	21.92	970,000	8,390	-	1,380	1.66	22.53	997,000
1918	483-138	7,590	263	1,330	1.60	21.74	962,000	7,590	-	1,290	1.55	21.13	935,000
1919	513-230	7,990	-	991	1.19	16.20	718,000	7,990	-	986	1.19	16.12	714,000
1920	513-230	5,460	233	1,020	1.23	16.76	741,000	5 460	233	1,070	1.29	17.55	776,000
1921	533-214	8,600	313	1,740	2.10	28.50	1,260,000	8,600	364	1,740	2.10	28.40	1,260,000
1922	553-214	7,660	258	1,360	1.63	22.01	974,000	7,660	258	1,310	1.58	21.35	945,000
1923	573-175	6,080	-	1,060	1.28	17.28	766,000	6,080	-	1,060	1.28	17.35	768,000
1924	593-179	2,850	215	574	.692	9.42	416,000	2,850	-	569	.686	9.32	412,000
1925	613-180	6,860	-	1,380	1.66	22.56	999,000	6,860	234	1,390	1.67	22.76	1,010,000
1926	633-156	3,640	230	677	.816	11.08	490,000	3,640	230	695	.837	11.36	503,000
1927	653-135	9,400	193	1,520	1.83	24.79	1,100,000	9,400	193	1,590	1.92	26.06	1,150,000
1928	673-102	8,980	320	1,470	1.77	24.09	1,070,000	8,980	213	1,360	1.64	22.35	991,000
1929	693-102	5,130	213	821	.989	13.44	595,000	5,130	175	824	.993	13.48	597,000
1930	708-105	3,680	175	839	1.01	13.74	608,000	3,680	210	833	1.00	13.65	603,000
1931	723-112	2,870	199	627	.755	10.29	455,000	2,870	184	612	.737	10.02	444,000
1932	738-11	7,060	184	1,150	1.39	18.82	833,000	7,060	164	1,160	1.40	19.02	841,000
1933	753-108	6,660	164	994	1.20	16.24	720,000	6,660	189	1,000	1.20	16.34	724,000
1934	768-109	3,440	189	733	.833	11.98	530,300	3,440	200	737	.888	12.04	533,200
1935	793-111	4,780	231	999	1.20	16.34	722,900	4,780	150	978	1.18	16.02	708,300
1936	813-141	8,460	150	1,155	1.39	18.95	838,200	8,460	186	1,155	1.39	18.96	838,700
1937	833-111	3,370	186	709	.854	11.60	513,200	4,600	237	761	.917	12.45	551,300
1938	863-120	8,070	237	1,436	1.73	23.47	1,040,000	8,070	242	1,419	1.71	23.19	1,027,000
1939	883-145	4,120	221	816	.983	13.34	590,400	-	-	-	-	-	-

Boise River at Dowling ranch, near Arrowrock, Idaho
(Drainage area, 2,220 square miles, revised)

1912	332-418	14,000	390	2,870	1.29	17.56	2,080,000	14,000	-	2,860	1.29	17.56	2,070,000
1913	362-420	14,000	518	2,470	1.11	15.07	1,790,000	14,000	722	2,510	1.13	15.34	1,810,000
1914	393-162	11,500	649	2,620	1.18	16.02	1,890,000	11,500	-	2,570	1.16	15.75	1,860,000
1915	413-134	3,240	315	1,430	-	-	1,040,000	3,240	315	1,360	-	-	986,000
1916	443-125	13,100	391	3,010	-	-	2,190,000	13,100	391	3,040	-	-	2,210,000
1917	463-124	11,000	129	2,850	-	-	2,070,000	11,000	20	2,820	-	-	2,040,000
1918	483-141	11,800	20	2,400	-	-	1,740,000	11,800	181	2,410	-	-	1,740,000
1919	513-235	12,100	104	2,040	-	-	1,470,000	12,100	104	2,040	-	-	1,470,000
1920	513-235	6,700	70	1,880	-	-	1,360,000	6,700	70	1,900	-	-	1,380,000
1921	533-217	16,200	-	3,460	-	-	2,500,000	16,200	-	3,500	-	-	2,530,000
1922	553-217	14,300	110	2,860	-	-	2,070,000	14,300	-	2,800	-	-	2,030,000
1923	573-178	9,300	-	2,150	-	-	1,560,000	9,300	-	2,190	-	-	1,590,000
1924	593-182	3,400	-	1,140	-	-	827,000	3,400	-	1,090	-	-	794,000
1925	613-183	13,600	-	2,810	-	-	2,040,000	13,600	-	2,890	-	-	2,090,000
1926	633-159	3,990	-	1,380	-	-	999,000	3,990	-	1,300	-	-	942,000
1927	653-138	14,300	-	3,130	-	-	2,270,000	14,300	-	3,170	-	-	2,300,000
1928	673-104	17,600	-	2,920	-	-	2,120,000	17,600	-	2,880	-	-	2,080,000
1929	693-104	6,490	-	1,640	-	-	1,190,000	6,490	-	1,670	-	-	1,210,000
1930	708-107	7,050	10	1,650	-	-	1,200,000	7,050	10	1,650	-	-	1,190,000
1931	723-114	4,090	-	1,190	-	-	861,000	4,090	-	1,130	-	-	817,000
1932	738-113	12,600	10	2,340	-	-	1,700,000	12,600	10	2,370	-	-	1,720,000
1933	753-110	11,400	12	1,970	-	-	1,430,000	11,400	32	2,020	-	-	1,460,000
1934	768-111	3,950	-	1,330	-	-	962,500	3,950	-	1,319	-	-	955,100
1935	793-113	8,990	6	1,945	-	-	1,408,000	8,990	2	1,901	-	-	1,376,000
1936	813-143	15,100	2	2,392	-	-	1,737,000	15,100	2	2,400	-	-	1,742,000
1937	833-113	5,450	2	1,402	-	-	1,015,000	5,450	3	1,412	-	-	1,022,000
1938	863-122	14,400	4	3,113	-	-	2,254,000	14,400	3	3,064	-	-	2,218,000
1939	883-147	7,250	3	1,693	-	-	1,226,000	-	-	-	-	-	-

Note.- Flow regulated since Feb. 21, 1915, by storage in Arrowrock Reservoir, 4 miles upstream.

Boise River below Moore Creek, near Highland, Idaho
(published as Boise River near Boise, 1895-1904, and Boise River near Highland, 1905-15)

Year	W.S.P. (no. and page)	Water year ending Sept. 30.				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1895	(a)	-	-	-	-	*7,880	620	*2,120	*1,540,000
1896	(a)	*35,500	620	*4,510	*3,270,000	*35,500	620	*4,510	*3,270,000
1898	(b)	*6,540	-	2,030	1,470,000	*6,540	-	2,130	1,540,000
1899	(c)	19,000	550	3,990	2,890,000	19,000	986	4.010	2,900,000
1900	(d)	12,000	802	2,970	2,160,000	12,000	*802	2,870	2,080,000
1901	75-201	12,700	740	2,720	1,970,000	12,700	740	2,720	1,970,000
1902	85-207	8,190	527	2,030	1,470,000	8,190	527	1,990	1,440,000
1903	100-436	16,800	500	2,560	2,250,000	-	-	-	-
1904	135-199	Mar. 1 to Oct. 31				19,700	-	-	2,640,000
1905	176-121	Mar. 18 to Dec. 31				6,260	450	-	973,000
1906	214-93	8,710	450	2,330	1,690,000	-	-	-	-
1907	252-245	Feb. 8 to Dec. 31				17,000	810	-	3,020,000
1908	252-245	10,600	782	2,520	1,830,000	10,600	650	2,530	1,840,000

a 18th Ann. Rept., pt. 4, p. 340.
b 20th Ann. Rept., pt. 4, p. 483.
c 21st Ann. Rept., pt. 4, p. 411.
d 22d Ann. Rept., pt. 4, p. 431.

*Revised figures not previously published.

Summary of yearly discharge, in second-feet, at stations in Boise River Basin--Continued

Boise River below Moore Creek, near Highland, Idaho--Continued

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1909	272-317	16,000	650	3,770	2,730,000	16,000	705	4,040	2,930,000
1910	292-388	16,600	780	3,780	2,740,000	16,600	780	3,540	2,560,000
1911	312-371	15,100	780	3,420	2,470,000	15,100	780	3,400	2,460,000
1912	332-420	15,600	812	3,390	2,460,000	15,600	-	3,380	2,460,000
1913	362-422	13,300	-	2,820	2,040,000	13,300	824	2,840	2,050,000
1914	393-164	11,300	718	2,920	2,120,000	11,300	-	2,880	2,080,000
1915	413-136	3,570	-	1,630	1,180,000	3,570	432	1,540	1,120,000
1916	443-126	14,600	432	3,540	2,570,000	-	-	-	-

Note.- Figures for 1904-5, 1907, are for the periods indicated in those years.

Boise River at Notus, Idaho

*1920	513-238	-	10	-	-	-	10	-	-
1921	533-219	14,500	31	2,530	1,830,000	14,500	31	2,570	1,860,000
1922	553-220	12,300	23	1,960	1,420,000	-	-	-	-
1925	613-186	10,200	17	1,500	1,090,000	10,200	19	1,670	1,210,000
1926	633-161	1,570	13	426	309,000	1,230	13	323	234,000
1927	653-140	11,500	27	1,980	1,430,000	11,500	27	2,080	1,510,000
1928	673-105	14,000	19	1,960	1,420,000	14,000	19	1,860	1,350,000
1929	693-105	4,180	19	405	293,000	4,180	19	377	273,000
1930	708-108	3,880	25	378	274,000	3,880	25	414	300,000
1931	723-115	1,040	12	300	217,000	1,040	12	249	180,000
1932	738-114	9,460	16	1,050	760,000	9,460	26	1,120	816,000
1933	753-111	8,180	28	731	529,000	8,180	28	712	515,000
1934	768-112	1,160	16	292	211,400	780	16	266	192,700
1935	793-114	5,070	24	607	439,700	5,070	24	587	424,900
1936	813-147	13,000	23	1,267	919,700	13,000	23	1,267	920,000
1937	833-116	1,360	19	264	191,400	1,360	19	279	202,300
1938	863-132	12,000	34	1,982	1,435,000	12,000	34	2,026	1,467,000
1939	883-153	5,730	17	551	398,600	-	-	-	-

*Year incomplete.

South Fork of Boise River near Lenox, Idaho
(Drainage area, 1,090 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1912	332-422	5,800	314	1,200	1.10	15.01	871,000	5,800	-	1,200	1.10	14.97	869,000
1913	362-424	5,440	-	1,040	.954	12.93	752,000	5,440	-	1,050	.963	13.05	759,000
1914	393-165	5,450	316	1,200	1.10	14.97	869,000	5,450	-	1,200	1.10	14.88	864,000
1915	413-141	2,050	230	647	.594	8.08	469,000	2,050	230	625	.573	7.81	453,000
1916	443-131	7,180	231	1,380	1.27	17.25	1,000,000	7,180	-	1,400	1.28	17.50	1,020,000
1917	463-128	8,740	-	1,350	1.24	16.80	977,000	8,740	-	1,360	1.25	16.91	983,000
1918	483-145	4,810	293	1,010	.927	12.54	729,000	4,810	-	994	.912	12.38	720,000
1919	513-240	4,810	229	872	.800	10.86	631,000	4,810	229	860	.789	10.71	622,000
1920	513-240	3,460	237	735	.674	9.19	534,000	3,460	237	748	.686	9.35	543,000
1921	533-221	8,420	255	1,500	1.38	18.70	1,090,000	8,420	290	1,500	1.38	18.74	1,090,000
1922	553-223	6,680	278	1,200	1.10	14.99	873,000	6,680	278	1,190	1.09	14.87	866,000
1923	573-182	4,910	292	979	.898	12.19	708,000	4,910	250	986	.905	12.27	712,000
1924	593-186	2,000	144	487	.447	6.08	354,000	2,000	144	460	.422	5.74	334,000
1925	613-188	6,560	-	1,260	1.16	15.64	911,000	6,560	142	1,280	1.17	15.90	926,000
1926	633-163	2,660	142	580	.532	7.21	420,000	2,660	148	575	.528	7.15	416,000
1927	653-142	7,990	229	1,340	1.23	16.75	974,000	7,990	-	1,400	1.28	17.50	1,020,000
1928	673-107	7,360	243	1,150	1.06	14.36	835,000	7,360	-	1,080	.991	13.43	782,000
1929	693-107	3,440	189	653	.599	8.12	474,000	3,440	189	658	.604	8.20	477,000
1930	708-110	3,300	180	714	.655	8.90	518,000	3,300	180	714	.655	8.89	518,000
1931	723-117	2,000	125	467	.428	5.81	338,000	2,000	125	445	.408	5.55	322,000
1932	738-116	5,550	185	1,010	.927	12.62	733,000	5,550	-	1,030	.945	12.89	749,000
1933	753-113	5,020	-	843	.773	10.48	610,000	5,020	209	844	.774	10.51	611,000
1934	768-114	2,000	113	530	.486	6.63	384,100	2,000	113	521	.478	6.50	377,400
1935	793-116	4,030	177	842	.772	10.48	609,200	4,030	-	834	.765	10.39	603,800
1936	813-150	7,620	-	1,050	.963	13.09	762,000	7,620	-	1,057	.970	13.18	767,200
1937	833-118	2,940	138	606	.556	7.55	439,100	3,900	138	642	.589	8.00	465,000
1938	863-135	8,000	186	1,463	1.34	18.91	1,059,000	8,000	-	1,465	1.34	18.93	1,061,000
1939	883-158	3,180	166	735	.674	9.15	531,900	-	-	-	-	-	-

Moore Creek near Arrowrock, Idaho
(Drainage area, 426 square miles)

1916	443-140	-	-	-	-	-	-	3,140	49	484	1.14	15.49	352,000
1917	463-140	2,380	28	368	0.864	11.72	266,000	2,380	28	393	.923	12.51	284,000
1918	483-147	2,170	29	340	.798	10.83	246,000	2,170	29	318	.746	10.12	230,000
1919	513-243	2,380	20	296	.695	9.42	214,000	2,380	20	293	.688	9.33	212,000
1920	513-243	1,150	17	245	.575	7.81	178,000	1,150	17	260	.610	8.30	189,000
1921	533-223	2,170	33	518	1.22	16.48	374,000	2,170	33	528	1.24	16.81	382,000
1922	553-225	1,990	44	400	.939	12.77	290,000	1,990	44	373	.876	11.90	270,000
1923	573-184	1,150	32	240	.563	7.66	174,000	1,150	32	242	.568	7.72	175,000

Summary of yearly discharge, in second-feet, at stations in Boise River Basin--Continued

Moore Creek near Arrowrock, Idaho--Continued
(Drainage area, 426 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off Inches	Run-off Acre-feet	Maximum day	Minimum day	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
1924	593-191	358	7.9	97.7	0.229	3.13	70,900	358	7.9	93.9	0.220	3.01	68,200
1925	613-194	2,280	24	341	.800	10.85	247,000	2,280	32	348	.817	11.06	252,000
1926	633-169	809	12	161	.378	5.13	116,000	1,020	12	175	.411	5.58	127,000
1927	653-146	2,670	33	488	1.15	15.54	353,000	2,670	49	510	1.20	16.25	369,000
1928	673-110	2,810	27	438	1.03	14.01	318,000	2,810	27	395	.927	12.65	288,000
1929	693-110	1,040	16	195	.458	6.20	141,000	1,040	16	197	.462	6.26	143,000
1930	708-113	730	15	155	.364	4.93	112,000	730	15	149	.350	4.76	108,000
1931	723-120	885	8	127	.298	4.01	91,600	885	8	123	.289	3.88	88,700
1932	738-119	2,950	11	338	.793	10.78	245,000	2,950	21	346	.812	11.05	251,000
1933	753-116	1,930	20	254	.596	8.08	184,000	1,930	20	255	.599	8.12	185,000
1934	768-117	1,040	9	148	.347	4.71	106,900	1,040	9	148	.347	4.72	106,900
1935	793-119	1,930	16	247	.580	7.87	178,800	1,930	16	236	.554	7.52	171,000
1936	813-153	4,100	18	324	.761	10.34	235,200	4,100	19	327	.768	10.43	237,300
1937	833-121	1,500	14	193	.453	6.16	140,100	1,500	14	217	.509	6.90	156,800
1938	863-138	2,860	28	465	1.09	14.83	336,800	2,860	41	459	1.08	14.63	332,400
1939	883-164	1,500	12	221	.519	7.02	159,600	-	-	-	-	-	-

MALHEUR RIVER BASIN

Malheur River near Drewsey, Oreg.
(Drainage area, 1,010 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1927	653-147	1,460	10	231	167,000	1,460	10	234	169,200
1928	673-111	2,040	2	198	144,000	2,040	2	187	136,000
1929	693-111	825	1	90.8	65,700	825	1	93.5	67,670
1930	708-114	775	1	66.2	47,900	775	1	63.6	46,050
1931	723-129	475	.4	55.7	40,300	475	.4	55.5	40,140
1932	738-121	3,400	2	173	125,000	3,400	.7	166	120,200
1933	753-118	788	.2	103	74,400	788	.2	111	80,640
1934	768-119	126	0	34.3	24,850	126	0	33.9	24,560
1935	793-121	870	0	86.3	62,510	870	0	83.4	60,360
1936	813-155	1,500	0	137	99,150	1,500	0	138	99,920
1937	833-125	705	0	81.8	59,210	1,450	0	101	73,410
1938	863-141	1,890	4	275	198,800	1,890	4	257	186,400
1939	883-173	995	0	101	73,100	-	-	-	-

Malheur River below Warmsprings Reservoir, near Riverside, Oreg.
(Drainage area, 1,100 square miles)

1909	370-89	-	-	-	-	1,950	2	215	155,500
1910	370-89	5,490	-	385	279,000	5,490	-	375	271,700
*1911	(†)	1,880	-	192	139,000	1,880	-	187	135,400
*1912	(†)	1,740	19	216	156,000	1,740	19	219	159,100
*1913	(†)	1,000	-	169	122,000	1,000	-	171	124,100
*1914	(†)	1,780	1.6	276	200,000	1,780	1.6	271	196,300
1915	(†)	739	4	105	75,900	739	4	104	75,030
1916	443-142	3,300	11	356	258,000	3,300	11	358	259,600
1920	513-247	310	.5	90.7	65,800	310	.5	83.4	60,560
1921	533-228	1,430	1	221	160,000	1,430	1	221	160,100
1922	553-227	1,870	1	261	189,000	1,870	1	235	192,100
1923	573-188	463	1	124	90,200	463	1	121	87,740
1924	593-193	435	1	139	101,000	435	1	138	100,300
1925	613-196	425	1	137	99,100	425	1	140	101,300
1926	633-172	470	1	146	106,000	470	1	145	104,900
1927	653-149	825	1	170	123,000	825	1	170	123,100
1928	673-113	1,240	1	265	192,000	1,240	1	273	197,900
1929	693-113	545	1	145	105,000	545	1	136	98,410
1930	708-116	318	.5	46.8	33,900	318	.5	46.6	33,760
1931	723-131	343	.5	49.0	35,500	343	.5	49.4	35,740
1932	738-123	480	.5	82.5	59,800	480	.5	82.1	59,520
1933	753-120	496	0	101	73,400	496	0	101	73,430
1934	768-121	402	0	112	81,290	402	0	112	81,350
1935	793-123	472	0	78.7	56,950	472	0	78.4	56,900
1936	833-126	735	0	124	89,760	735	0	129	93,710
1937	833-126	475	0	89.5	64,800	475	0	84.1	60,870
1938	863-143	415	0	105	75,770	415	0	110	79,480
1939	883-174	665	0	172	124,700	-	-	-	-

*From reports of State engineer.
†Yearly figures not previously published; discharge for periods of missing record estimated.
Note.- Flow completely regulated since November 1919 by storage in Warmsprings Reservoir.

Summary of yearly discharge, in second-feet, at stations in Malheur River Basin--Continued

Malheur River at (near) Namorf, Oreg.
(Drainage area, 2,590 square miles, revised)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1914	393-171	2,970	15	524	380,000	2,970	15	519	375,600
1915	413-147	1,110	18	214	155,000	1,110	18	212	153,900
1916	443-144	6,850	40	656	477,000	6,580	40	659	478,400
1917	463-144	4,410	16	423	306,000	4,410	16	422	305,500
1918	483-149	1,240	20	180	130,000	1,240	20	183	132,400
1919	513-250	2,940	4	347	251,000	2,940	4	336	243,000
1920	513-250	2,500	-	198	144,000	2,500	-	194	140,800
1921	533-230	3,950	43	545	395,000	3,950	73	549	397,800
1922	553-229	3,210	73	507	367,000	3,210	73	512	370,800
1923	573-190	500	73	222	161,000	500	-	213	153,900
1927	653-151	-	46	370	268,000	1,310	53	368	266,700
1928	673-114	1,760	53	425	308,000	1,760	-	427	309,700
1929	693-114	760	-	227	164,000	-	-	-	-

Malheur River near Hope, Oreg.
(Drainage area, 3,030 square miles)

*1919	513-253	330	4.0	-	-	330	4.0	-	-
1923	573-192	616	80	238	173,000	616	-	229	165,600
1924	593-195	-	-	216	157,000	-	-	220	159,500
1925	613-198	5,140	50	352	255,000	-	-	-	-
1927	653-1[illegible]	2,270	60	378	273,000	2,270	65	381	275,600
1928	653-115	2,210	-	438	318,000	2,210	-	441	320,500
1929	693-115	627	37	219	159,000	627	37	207	149,800
1930	708-117	462	10	91.7	66,400	462	10	82.7	59,870
1931	723-132	310	7	72.6	52,500	310	7	73.1	52,920
1932	738-124	2,650	-	186	135,000	2,650	25	191	139,000
1933	753-121	-	25	168	122,000	600	44	172	124,800
1934	768-122	254	20	101	73,180	254	17	95.1	68,840
1935	793-124	528	-	93.1	67,440	528	-	83.0	60,080
1936	813-158	5,420	-	159	115,100	5,420	-	165	119,700
1937	833-128	367	15	87.2	63,120	571	15	96.3	69,690
1938	863-144	1,770	19	232	168,200	1,770	15	224	161,800
1939	883-175	1,320	15	120	86,880	-	-	-	-

*Year incomplete.

North Fork of Malheur River at (near) Beulah, Oreg.
(Drainage area, 420 square miles)

1910	370-125	4,900	-	204	148,000	4,900	5	203	148,000
1911	412-381	1,250	5	96.5	69,600	1,250	5	94.6	68,230
1927	653-155	929	-	159	115,000	929	25	161	116,600
1928	673-117	842	23	122	88,800	842	23	119	86,140
1929	693-117	295	17	75.8	54,800	295	-	73.2	52,910
1930	708-119	138	17	51.5	37,300	138	17	49.9	36,160
1931	723-134	173	8	47.8	34,600	173	-	47.8	34,590
1932	738-126	1,190	18	121	87,500	1,190	-	121	87,830
1933	753-123	566	-	105	76,200	566	-	107	77,680
1934	768-124	77	-	40.3	29,190	77	-	37.5	27,170
1935	793-125	370	13	61.0	44,120	370	0	58.1	42,070
1936	813-161	226	0	54.6	39,640	226	0	49.3	35,750
1937	833-131	401	.1	89.4	64,690	401	0	88.9	64,330
1938	863-147	1,260	0	155	112,600	1,260	0	155	112,500
1939	883-178	374	0	68.1	49,330	-	-	-	-

Note.- Flow regulated since Dec. 21, 1935, by storage in Agency Valley Reservoir.

PAYETTE RIVER BASIN

South Fork of Payette River near Garden Valley, Idaho
(Drainage area, 779 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1925	613-212	6,930	-	1,420	1.82	24.80	1,030,000	6,930	315	1,450	1.86	25.19	1,050,000
1926	633-183	3,810	315	793	1.02	13.82	574,000	3,810	-	789	1.01	13.76	572,000
1927	653-160	9,660	-	1,740	2.23	30.31	1,260,000	9,660	-	1,830	2.35	31.93	1,330,000
1928	673-121	10,600	514	1,680	2.16	29.33	1,220,000	10,600	320	1,580	2.03	27.61	1,150,000
1929	693-118	4,800	320	906	1.17	15.84	658,000	4,800	230	902	1.16	15.71	653,000
1930	708-120	4,060	230	947	1.22	16.49	686,000	4,060	250	945	1.21	16.46	684,000
1931	723-135	2,400	301	695	.892	12.10	503,000	2,400	-	663	-	-	480,000
1932	738-127	5,870	-	1,220	-	-	889,000	5,870	-	1,270	-	-	919,000
1933	753-124	7,460	273	1,200	-	-	869,000	7,460	-	1,210	-	-	879,000
1934	768-125	3,080	311	1,054	-	-	762,900	3,080	305	1,023	-	-	740,400
1935	793-126	3,810	250	1,040	-	-	752,900	3,810	243	1,021	-	-	739,500
1936	813-162	6,250	217	1,208	-	-	876,900	6,250	217	1,235	-	-	896,600
1937	833-132	3,120	234	856	-	-	619,500	3,120	275	881	-	-	638,100
1938	863-148	7,490	275	1,495	-	-	1,082,000	7,490	348	1,536	-	-	1,112,000
1939	883-179	3,050	290	998	-	-	722,200	-	-	-	-	-	-

Note.- Flow regulated since Nov. 2, 1930, by storage in Deadwood Reservoir on Deadwood River.

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Summary of yearly discharge, in second-feet, at stations in Payette River Basin--Continued

South Fork of Payette River near Banks, Idaho
(Drainage area, 1,200 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off Inches	Run-off Acre-feet	Maximum day	Minimum day	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
1922	553-246	9,900	-	1,850	1.54	20.99	1,340,000	9,900	406	1,780	1.48	20.17	1,290,000
1923	573-210	8,020	-	1,620	1.35	18.35	1,180,000	8,020	422	1,650	1.38	18.60	1,190,000
1924	593-208	4,100	378	894	.745	10.13	650,000	4,100	-	867	.722	9.82	630,000
1925	613-213	9,130	-	1,920	1.60	21.74	1,390,000	9,130	366	1,950	1.62	21.99	1,410,000
1926	633-185	5,040	366	1,020	.850	11.50	735,000	5,040	417	1,040	.867	11.80	755,000
1927	653-162	11,900	362	2,400	2.00	27.18	1,740,000	11,900	362	2,540	2.12	28.77	1,840,000
1928	673-122	12,100	602	2,260	1.88	25.66	1,640,000	12,100	420	2,090	1.74	23.72	1,520,000
1929	693-119	6,050	420	1,190	.992	13.43	859,000	6,050	389	1,190	.992	13.43	858,000
1930	708-121	4,590	389	1,240	1.03	13.98	895,000	4,590	393	1,230	1.02	13.89	890,000
1931	723-136	3,040	417	913	.761	10.35	661,000	3,040	318	868	-	-	629,000
1932	753-125	8,100	318	1,720	-	-	1,250,000	8,100	-	1,770	-	-	1,290,000
1933	753-125	9,060	342	1,580	-	-	1,150,000	9,060	358	1,590	-	-	1,150,000
1934	768-126	5,100	358	1,356	-	-	981,600	5,100	399	1,326	-	-	960,300
1935	793-127	5,220	358	1,388	-	-	1,005,000	5,220	320	1,359	-	-	983,800
1936	813-163	8,580	320	1,671	-	-	1,213,000	8,580	334	1,700	-	-	1,234,000
1937	833-133	4,140	320	1,143	-	-	827,400	5,300	320	1,198	-	-	867,000
1938	863-149	9,680	394	2,149	-	-	1,556,000	9,680	550	2,176	-	-	1,575,000
1939	883-180	4,540	422	1,321	-	-	956,400	-	-	-	-	-	-

Payette River near Horseshoe Bend, Idaho
(Drainage area, 2,230 square miles)

1908	252-253	11,000	850	2,990	-	-	2,170,000	11,000	940	3,040	-	-	2,200,000
1909	272-332	19,500	985	4,210	-	-	3,050,000	19,500	1,050	4,480	-	-	3,240,000
1910	292-407	16,200	795	4,360	-	-	3,160,000	16,200	795	4,110	-	-	2,970,000
1911	312-389	18,700	795	3,960	-	-	2,860,000	18,700	920	3,860	-	-	2,800,000
1912	332-445	17,300	920	3,500	-	-	2,540,000	17,300	-	3,510	-	-	2,730,000
1913	362-443	18,800	-	3,470	1.56	21.13	2,510,000	18,800	-	3,510	1.57	21.36	2,540,000
1914	393-189	12,900	801	3,100	1.39	18.87	2,250,000	12,900	-	3,070	1.38	18.69	2,230,000
1915	413-154	9,220	770	2,150	.964	13.09	1,560,000	-	-	-	-	-	-
1920	513-260	11,300	550	2,540	1.14	15.50	1,840,000	11,300	-	2,710	1.22	16.54	1,970,000
1921	533-235	21,700	940	4,490	2.01	27.35	3,250,000	21,700	866	4,420	1.98	26.88	3,200,000
1922	553-238	17,600	754	3,290	1.48	20.05	2,390,000	17,600	530	3,170	1.42	19.34	2,300,000
1923	573-202	14,000	530	2,910	1.30	17.71	2,110,000	14,000	-	2,950	1.32	17.96	2,140,000
1924	593-200	8,470	580	1,520	.682	9.32	1,110,000	8,470	418	1,490	.668	9.14	1,090,000
1925	613-206	16,100	418	3,390	1.52	20.64	2,450,000	16,100	637	3,420	1.53	20.83	2,480,000
1926	633-188	9,370	594	1,780	.798	10.85	1,290,000	9,370	594	1,890	.848	11.51	1,370,000
1927	653-165	20,600	624	4,340	1.95	26.44	3,140,000	20,600	-	4,580	2.05	27.94	3,320,000
1928	673-124	21,500	812	3,950	1.77	24.16	2,880,000	21,500	-	3,590	1.61	21.91	2,610,000
1929	693-121	10,800	-	1,990	.892	12.11	1,440,000	10,800	582	2,000	.897	12.18	1,450,000
1930	708-122	8,310	582	2,150	.964	13.08	1,560,000	8,310	550	2,130	.955	12.95	1,540,000
1931	723-137	6,350	550	1,460	-	-	1,060,000	6,350	450	1,410	-	-	1,020,000
1932	738-129	16,100	450	3,160	-	-	2,290,000	16,100	469	3,240	-	-	2,350,000
1933	753-127	18,500	469	2,700	-	-	1,960,000	18,500	556	2,720	-	-	1,970,000
1934	768-127	8,310	524	2,258	-	-	1,635,000	8,310	506	2,212	-	-	1,601,000
1935	793-128	9,880	505	2,285	-	-	1,654,000	9,880	436	2,228	-	-	1,613,000
1936	813-164	17,400	436	2,897	-	-	2,103,000	17,400	492	2,933	-	-	2,129,000
1937	833-134	8,250	464	1,884	-	-	1,364,000	9,330	464	2,008	-	-	1,454,000
1938	863-150	18,500	516	3,949	-	-	2,859,000	18,500	800	3,949	-	-	2,859,000
1939	883-181	8,920	671	2,221	-	-	1,608,000	-	-	-	-	-	-

Note.- Flow regulated by storage in Payette Lake, Lake Fork, and Deadwood Reservoirs.

Payette River near Emmett, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1926	633-190	10,300	62	1,690	1,230,000	10,300	62	1,840	1,330,000
1927	653-166	20,600	385	4,620	3,350,000	20,600	737	4,840	3,500,000
1928	673-126	21,400	486	4,140	3,010,000	21,400	486	3,770	2,740,000
1929	693-122	11,000	372	1,980	1,440,000	11,000	365	1,990	1,440,000
1930	708-123	8,270	365	2,070	1,500,000	8,270	404	2,030	1,480,000
1931	723-138	6,290	385	1,390	1,010,000	6,290	282	1,330	963,000
1932	738-130	17,100	282	3,310	2,400,000	17,100	418	3,390	2,460,000
1933	753-128	19,500	418	2,770	2,000,000	19,500	546	2,790	2,020,000
1934	768-128	8,520	329	2,159	1,563,000	8,520	329	2,123	1,536,000
1935	793-129	10,100	336	2,293	1,660,000	10,100	140	2,225	1,611,000
1936	813-165	20,400	140	3,008	2,184,000	20,400	416	3,033	2,202,000
1937	833-135	8,510	416	1,849	1,339,000	8,510	432	2,018	1,461,000
1938	863-151	21,000	3	4,245	3,073,000	21,000	3	4,223	3,057,000
1939	883-182	8,990	308	2,178	1,577,000	-	-	-	-

Note.- Flow partly regulated by storage in Black Canyon Reservoir and other reservoirs upstream.

Summary of yearly discharge, in second-feet, at stations in Payette River Basin--Continued

Deadwood River below Deadwood Reservoir, near Lowman, Idaho
(Drainage area, 108 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1928	673-127	2,100	-	270	2.50	34.09	196,000	2,100	-	253	2.34	31.90	184,000
1929	693-123	975	-	142	1.31	17.82	103,000	975	-	144	1.33	18.07	104,000
1930	708-125	691	-	158	1.46	19.85	114,000	691	-	153	-	-	111,000
1931	723-140	1,140	-	104	-	-	75,500	1,140	-	96.5	-	-	69,800
1932	738-132	1,210	-	143	-	-	104,000	1,210	-	169	-	-	122,000
1933	753-129	1,070	-	210	-	-	152,000	1,070	-	211	-	-	153,000
1934	768-129	1,210	-	252	-	-	182,500	1,210	0	225	-	-	163,000
1935	793-130	1,180	0	160	-	-	115,800	1,180	0	159	-	-	115,000
1936	813-169	1,150	0	151	-	-	109,900	1,150	0	176	-	-	127,800
1937	833-138	1,050	0	156	-	-	113,200	1,050	0	147	-	-	106,600
1938	863-154	1,320	-	183	-	-	132,700	1,320	-	226	-	-	163,400
1939	883-195	1,200	-	239	-	-	172,900	-	-	-	-	-	-

Note.- Flow regulated since Nov. 2, 1930, by storage in Deadwood Reservoir.

Deadwood River near Lowman, Idaho
(Drainage area, 201 square miles)

1922	553-248	2,700	-	448	2.23	30.22	323,000	2,700	-	436	2.17	29.38	314,000
1923	573-212	2,250	-	395	1.97	26.64	286,000	2,250	-	400	1.99	26.97	289,000
1924	593-210	-	75	193	.960	13.10	140,000	-	-	184	.915	12.49	134,000
1925	613-215	2,420	-	435	2.16	29.37	315,000	2,420	-	444	2.21	30.02	322,000
1926	633-192	1,520	86	243	1.21	16.43	176,000	1,520	80	242	1.20	16.32	175,000
1927	653-169	3,820	80	562	2.80	37.89	406,000	3,820	-	587	2.92	39.61	424,000
1928	673-128	3,600	115	498	2.48	33.70	361,000	3,600	-	468	2.33	31.68	340,000
1929	693-124	1,740	-	256	1.27	17.23	185,000	1,740	-	260	1.23	17.57	188,000
1930	708-126	1,240	-	281	1.40	19.00	203,000	1,240	46	274	-	-	199,000
1931	723-141	1,320	46	196	-	-	142,000	1,320	-	184	-	-	134,000
1932	738-133	1,380	-	334	-	-	242,000	1,380	-	361	-	-	262,000
1933	753-130	1,240	42	376	-	-	272,000	1,240	-	379	-	-	274,000
1934	768-130	1,250	-	387	-	-	280,000	1,250	-	359	-	-	259,900
1935	793-131	1,260	38	306	-	-	221,300	1,260	34	300	-	-	217,500
1936	813-170	1,510	34	346	-	-	251,400	1,510	40	373	-	-	270,400
1937	833-139	1,080	-	276	-	-	199,700	1,080	-	275	-	-	199,400
1938	863-155	2,280	48	432	-	-	313,000	2,280	48	471	-	-	341,200
1939	883-186	1,260	-	371	-	-	268,800	-	-	-	-	-	-

Note.- Flow partly regulated since Nov. 2, 1930, by storage in Deadwood Reservoir.

North Fork of Payette River at Lardo, Idaho
(Drainage area, 131 square miles)

1909	272-332	4,250	35	466	3.56	48.32	337,000	4,250	58	487	3.72	50.50	352,000
1910	292-408	2,760	14	437	3.34	45.34	317,000	2,760	4.0	400	3.06	41.54	290,000
1911	312-392	4,090	4.0	468	3.57	48.46	339,000	4,090	3.0	457	3.49	47.37	331,000
1912	332-447	3,020	3.0	348	2.66	36.21	253,000	3,020	30	354	2.70	36.75	257,000
1913	362-446	3,640	30	420	3.21	43.57	305,000	3,640	24	420	3.21	43.57	304,000
1914	393-190	2,730	24	344	2.63	35.70	249,000	2,730	36	359	2.74	37.19	260,000
1915	413-156	1,300	19	252	1.92	26.0	182,000	1,300	10	230	1.75	23.82	166,000
1916	443-150	3,410	10	451	3.44	46.97	328,000	3,410	21	455	3.47	47.35	330,000
1920	513-262	3,070	3	265	2.02	27.55	193,000	3,070	-	309	2.36	32.10	224,000
1921	533-237	3,590	6	514	3.92	53.18	371,000	3,590	6	475	3.63	49.16	343,000
1922	553-240	3,690	8	352	2.69	36.52	255,000	3,690	-	347	2.65	35.97	251,000
1923	573-205	2,900	-	333	2.54	34.40	241,000	2,900	7	338	2.58	35.00	245,000
1924	593-203	2,440	7	187	1.43	19.46	136,000	2,440	3	181	1.38	18.79	131,000
1925	613-210	3,000	3	387	2.95	40.05	280,000	3,000	3	396	3.02	40.99	287,000
1926	633-195	1,900	2.9	239	1.82	24.71	173,000	1,900	1.4	257	1.96	26.57	186,000
1927	653-172	3,340	1.4	483	3.69	50.08	350,000	3,340	19	511	3.90	52.99	370,000
1928	673-130	3,570	19	420	3.21	43.62	305,000	3,570	5.7	370	2.82	38.45	269,000
1929	693-126	2,380	-	243	1.85	25.20	176,000	2,380	.4	238	1.82	24.60	172,000
1930	708-128	1,740	.4	265	2.02	27.45	192,000	1,740	-	274	2.09	28.44	199,000
1931	723-143	1,660	-	171	1.31	17.69	124,000	1,660	.2	160	1.22	-	116,000
1932	738-134	3,320	.2	373	-	-	270,000	3,320	-	376	-	-	273,000
1933	753-133	4,260	-	325	-	-	235,000	4,260	-	325	-	-	235,000
1934	768-132	2,000	-	282	-	-	204,100	2,000	0	280	-	-	202,700
1935	793-133	2,300	0	288	-	-	208,200	2,300	-	287	-	-	207,500
1936	813-172	3,150	-	309	-	-	224,200	3,150	-	309	-	-	224,300
1937	833-141	1,960	-	218	-	-	157,700	1,960	-	230	-	-	166,600
1938	863-157	3,330	6	494	-	-	357,400	3,330	0	487	-	-	352,400
1939	883-188	2,050	0	258	-	-	186,500	-	-	-	-	-	-

Note.- Flow partly regulated by storage in Payette Lake.

Lake Fork of Payette River above reservoir, near McCall, Idaho
(Drainage area, 54.6 square miles)

Calendar year	W.S.P. (no. and page)	Maximum day	Minimum day	Run-off in acre-feet
1926, May 9 to Nov. 8.....	633-197	647	9	30,500
1927, Apr. 3 to Oct. 16.....	653-174	1,870	28	123,000
1928, May 1 to Sept. 26.....	673-131	1,620	15	87,400
1929, Apr. 26 to Sept. 30.....	693-127	1,000	12	56,700
1930, May 1 to Sept. 16.....	708-129	643	8	47,600
1931, Apr. 19 to Aug. 29.....	723-144	862	7	52,700
1932, Apr. 15 to Sept. 30.....	738-135	1,780	-	97,900
1933, Apr. 15 to Sept. 30.....	753-134	2,300	14	84,200
1934, Mar. 15 to Nov. 13.....	768-133	1,120	13	81,020
1935, Apr. 1 to Oct. 13.....	793-134	810	6	68,720
1936, Apr. 1 to Oct. 30.....	813-173	1,320	5	84,400
1937, Apr. 1 to Nov. 30.....	863-158	734	2	61,000
1938, Mar. 1 to Nov. 10.....	863-158	1,240	19	113,300

Summary of yearly discharge, in second-feet, at stations in
WEISER RIVER BASIN

Weiser River above Crane Creek, near Weiser, Idaho
(Drainage area, 1,160 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1922	553-250	9,000	44	1,100	794,000	9,000	44	1,070	774,000
1923	573-214	4,860	60	941	682,000	4,860	60	931	675,000
1924	593-212	-	10	309	224,000	-	10	310	225,000
1925	613-218	6,380	15	1,090	790,000	6,380	18	1,090	791,000
1926	633-202	5,260	-	514	372,000	6,280	-	670	485,000
1927	653-179	9,950	54	1,470	1,060,000	9,950	55	1,430	1,030,000
1928	673-134	8,050	33	1,060	772,000	8,050	33	941	683,000
1929	693-129	4,140	14	508	368,000	4,140	14	505	365,000
1930	708-132	3,100	12	392	284,000	3,100	12	385	278,000
1931	723-146	4,060	-	383	277,000	4,060	-	378	274,000
1932	738-138	13,000	-	1,030	750,000	13,000	19	1,040	757,000
1933	753-137	5,940	15	783	566,000	5,940	15	827	597,000
1934	768-136	3,500	-	495	358,600	3,500	-	470	340,200
1935	793-137	3,800	7	651	471,600	3,800	7	624	451,900
1936	813-176	5,530	8	807	585,600	5,530	14	807	585,700
1937	833-148	4,480	9	501	362,400	9,500	9	646	468,000
1938	863-165	9,500	33	1,516	1,097,000	9,000	33	1,408	1,019,000
1939	883-198	5,600	22	596	431,400	-	-	-	-

Weiser River near (at) Weiser, Idaho
(Drainage area, 1,670 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1890	(a)	Mar. 13 to Dec. 31						11,200	80	-	1.04	11.37	1,010,000
1891	(a)	Jan. 1 to June 30						9,300	190	-	.766	5.16	461,000
*1895	(b)	-	-	-	-	-	-	4,300	66	680	.407	5.53	492,000
*1896	(b)	12,000	-	1,690	1.02	12.49	1,110,000	-	-	-	-	-	-
*1897	(c)	Apr. 1 to Sept. 30						10,500	105	-	1.46	9.92	884,000
*1898	(d)	Mar. 13 to Dec. 31						3,500	35	-	.411	4.49	400,000
*1899	(e)	7,850	80	1,340	.802	10.90	971,000	-	-	-	-	-	-
*1900	(f)	Mar. 1 to Dec. 31						10,600	35	-	.707	8.01	713,000
*1901	75-201	8,730	35	1,300	.778	10.55	941,000	8,730	35	1,250	.749	10.13	904,000
*1902	85-205	9,180	35	991	.594	8.05	719,000	9,180	35	1,010	.605	8.22	733,000
*1903	100-421	14,500	35	1,350	.809	10.89	973,000	14,500	35	1,370	.820	11.12	994,000
*1904	135-219	16,900	47	2,020	1.21	16.45	1,470,000	16,900	47	1,930	1.16	15.73	1,400,000
1911	312-395	-	-	-	-	-	-	8,010	14	988	-	-	716,000
1912	332-457	5,070	42	1,030	-	-	747,000	5,070	65	1,030	-	-	749,000
1913	362-452	9,220	55	1,180	-	-	857,000	9,220	55	1,210	-	-	874,000
1914	393-195	4,900	34	1,000	-	-	727,000	4,900	34	968	-	-	702,000

a 12th Ann. Rept., pt. 2, p. 358.
b 18th Ann. Rept., pt. 14, p. 352.
c 19th Ann. Rept., pt. 4, p. 456.
d 20th Ann. Rept., pt. 4, p. 488.
e 21st Ann. Rept., pt. 4, p. 412.
f 22d Ann. Rept., pt. 4, p. 432.

*Revised records not previously published.
Note.- Figures for 1890-91, 1897-98, 1900, are for the periods indicated in those years.

Lost Creek near Tamarack, Idaho
(Drainage area, 29.4 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1911	312-399	Jan. 1 to July 31				158	0	-	22,500
1912	332-459	Jan. 1 to May 30				-	-	-	14,500
1913	362-456	Mar. 17 to Oct. 31				323	5.8	-	35,000
1914	393-197	Apr. 11 to Aug. 21				-	-	-	20,100
1920	513-270	May 21 to Sept. 30, Nov. 20-29				177	5.0	-	13,700
1921	533-250	May 10 to Sept. 30				672	10	-	34,200
1924	593-216	May 22 to Sept. 30				53	-	-	6,220
1925	613-222	Apr. 18 to Oct. 10				-	1	-	20,300
1926	633-204	May 8 to Aug. 16, Oct. 1 to Nov. 7				66	2	-	7,350
1927	653-180	May 5 to Oct. 15				382	1	-	23,700
1928	673-136	Apr. 29 to May 22, July 13 to Oct. 3				303	-	-	18,700
1929	693-131	May 14 to Nov. 23				189	1.4	-	12,200
1930	708-134	Mar. 29 to Dec. 31				99	1.3	-	12,500
1931	723-148	61	-	13.3	9,640	61	-	13.1	9,490
1932	738-140	484	2.1	44.6	32,400	484	-	47.6	34,600
1933	753-140	259	2.4	34.9	25,200	259	0	33.5	24,200
1934	768-139	147	0	27.3	19,750	147	5	27.4	19,820
1935	793-140	147	3	25.8	18,710	147	0	26.3	19,070
1936	813-178	212	0	31.7	23,050	212	0	31.3	22,700
1937	833-153	69	0	19.3	13,990	69	0	19.5	14,110
1938	863-170	444	1	52.4	37,930	444	5	54.1	39,860
1939	883-203	158	5	32.7	23,720	-	-	-	-

Note.- Figures from 1911-30 are for the periods indicated in those years. Flow regulated by storage in Lost Valley Reservoir.

Summary of yearly discharge, in second-feet, at stations in Weiser River Basin--Continued

Crane Creek near Midvale, Idaho
(Drainage area, 242 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
*1910	292-418	-	-	-	-	4,240	-	-	-
1912	332-464	-	-	-	-	633	0	113	82,000
†1913	362-462	1,370	0	84.3	61,100	1,370	0	73.7	53,400
1914	393-198	792	0	85.4	61,800	792	0	90.4	65,400
1915	413-161	629	0	48.3	34,900	-	-	-	-
1925	613-228	674	0	75.9	55,000	674	0	76.7	55,500
1926	633-209	163	0	31.3	22,700	163	0	33.7	24,400
1927	653-185	596	0	48.5	35,100	617	0	77.5	56,000
1928	673-139	921	0	193	140,000	921	0	161	117,000
1929	693-135	615	0	42.1	30,500	615	0	42.1	30,500
1930	708-139	186	0	26.6	1[illegible],300	186	0	27.0	19,600
1931	723-151	173	0	37.3	27,000	173	0	38.1	27,600
1932	738-143	615	0	64.9	47,100	615	0	64.4	46,700
1933	753-143	746	0	74.2	53,700	746	0	74.2	53,700
1934	768-142	211	0	41.4	29,990	211	0	41.1	29,790
1935	793-143	226	0	29.7	21,510	226	0	30.0	21,690
1936	813-181	821	0	69.2	50,270	821	0	68.8	49,980
1937	833-158	218	0	36.1	26,150	218	0	36.8	26,680
1938	863-178	828	0	91.5	66,210	828	0	91.1	65,970
1939	883-211	814	0	56.0	40,590	-	-	-	-

*Calendar year incomplete.
†Records do not include between 1,000 and 2,000 acre-feet (estimated) that flowed over spillway during period Mar. 31 to Apr. 3.

Crane Creek at mouth, near Weiser, Idaho
(Drainage area, 288 square miles)

1922	553-256	-	0.4	97.8	70,800	-	0.4	100	72,400
1923	573-222	714	3.1	48.4	35,100	714	3.1	49.2	35,600
1924	593-225	473	.6	19.9	14,500	393	.6	15.0	10,900
1925	613-230	-	1.5	73.4	53,100	-	-	74.0	53,600
1926	633-211	572	3.0	25.9	18,800	572	3.0	29.6	21,400
1927	653-186	1,900	1.1	81.1	58,700	1,900	1.1	112	81,100
1928	673-140	1,180	.9	215	156,000	1,180	.9	181	131,000
1929	693-136	750	1.3	50.2	36,400	750	.8	49.7	36,000
1930	708-140	281	.8	32.3	23,400	281	1.6	32.8	23,800
1931	723-152	432	.6	43.8	31,700	432	.6	44.7	32,300
1932	738-144	778	.9	78.4	56,900	778	.9	77.8	56,500
1933	753-144	800	2.8	83.3	60,300	800	3.6	83.9	60,700
1934	768-143	178	1	39.3	28,440	178	1	38.8	28,070
1935	793-144	218	1	32.1	23,220	218	1	32.0	23,150
1936	813-182	875	2	76.6	55,610	875	1	75.8	55,040
1937	833-159	283	1	38.5	27,880	402	1	42.4	30,670
1938	863-179	1,030	4	107	77,620	1,030	3	104	75,410
1939	883-212	1,100	1	60.6	43,850	-	-	-	-

BURNT RIVER BASIN

Burnt River near Hereford, Oreg.
(Drainage area, 309 square miles)

1930	708-142	322	5	42.4	30,700	322	5	40.7	29,450
1931	723-154	668	4.5	44.8	32,400	668	-	41.4	29,960
1932	738-146	970	2	92.3	66,900	970	2	94.9	68,840
1933	753-146	*700	5	78.8	57,100	*700	5	80.4	58,170
1934	768-145	122	7	31.0	22,460	122	5	28.4	20,560
1935	793-146	575	2	47.3	34,270	575	2	47.5	34,370
1936	813-184	1,120	4	65.9	47,840	1,120	3.2	65.4	47,490
1937	833-162	464	.5	42.5	30,770	464	0	47.8	34,580
1938	863-182	705	0	94.2	68,160	705	.4	87.3	63,190
1939	883-216	302	0	53.5	38,710	-	-	-	-

*Estimated.

POWDER RIVER BASIN

Powder River at Salisbury, Oreg.
(Drainage area, 230 square miles)

1904	370-150	1,590	2	-	-	1,590	2	201	145,800
1905	370-150	316	-	76.5	55,500	316	-	73.6	53,320
1906	370-150	810	-	108	78,400	810	5	111	80,350
1907	370-150	878	7	161	116,000	878	11	161	116,600
1908	370-150	588	.1	119	86,300	588	.1	121	87,550
1909	370-150	630	0	105	75,800	630	0	110	79,760
1910	370-150	1,660	-	164	120,000	1,660	4	161	117,000
1911	312-409	454	1	110	79,700	436	1	108	78,440
1912	332-473	970	6	176	127,000	970	15	177	128,000
1913	362-467	941	3	153	111,000	941	3	152	110,000
1927	(*)	1,010	6	134	97,300	1,010	-	142	102,700
1928	(*)	1,010	5	141	103,000	-	-	-	-
1930	708-144	233	3	48.0	34,700	233	3	47.4	34,340
1931	723-156	289	0	44.6	32,300	289	0	44.9	32,470
1932	738-149	970	1.0	128	92,700	970	2.6	128	93,000
1933	753-148	715	2.6	113	81,700	715	3.4	114	82,800
1934	768-147	202	.1	40.4	29,220	202	.1	40.0	28,950

*From reports of State engineer.

Summary of yearly discharge, in second-feet, at stations in Powder River Basin--Continued

Powder River at Salisbury, Oreg.--Continued
(Drainage area, 230 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1935	813-186	418	0.4	64.0	46,350	418	0.4	61.3	44,410
1936	813-186	845	.7	82.9	60,210	845	1.0	83.2	60,370
1937	833-164	394	3.0	64.6	46,790	394	3.9	72.5	52,470
1938	863-184	820	4.9	137	99,540	820	4.9	132	95,250
1939	883-217	645	.3	73.8	53,420	-	-	-	-

Powder River near Robinette, Oreg.
(Drainage area, 1,710 square miles)

1929	693-141	2,810	33	365	265,000	2,810	33	359	260,100
1930	708-145	770	29	216	156,000	770	29	214	154,600
1931	723-157	1,070	19	238	172,000	1,070	19	233	170,600
1932	738-151	3,190	24	596	433,000	3,190	72	612	444,400
1933	753-149	3,680	-	549	398,000	3,680	60	553	400,500
1934	768-148	870	26	247	178,900	870	26	233	170,900
1935	793-149	1,610	28	290	209,900	1,610	28	273	198,800
1936	813-188	3,010	31	378	274,200	3,010	36	379	274,800
1937	833-165	1,280	25	266	192,900	1,280	25	303	221,500
1938	863-185	3,100	44	708	512,700	3,100	83	690	499,900
1939	883-218	2,200	26	378	273,800	-	-	-	-

IMNAHA RIVER BASIN

Imnaha River at Imnaha, Oreg.
(Drainage area, 705 square miles)

1929	693-142	2,330	-	389	282,000	2,330	37	393	284,800
1930	708-146	1,030	37	304	220,000	1,030	43	297	214,900
1931	723-158	1,190	43	247	179,000	1,190	25	245	177,700
1932	738-152	3,450	25	511	370,000	3,450	40	516	374,300
1933	753-150	3,190	42	499	360,000	3,190	42	510	369,100
1934	768-149	1,120	80	322	233,000	1,120	80	312	225,900
1935	793-150	1,650	71	369	266,800	1,650	44	361	261,300
1936	813-189	1,740	40	312	226,600	1,740	40	309	224,400
1937	833-166	1,560	35	303	219,200	1,560	35	329	238,300
1938	883-219	4,200	88	754	546,100	4,200	64	748	541,200
1939	883-210	1,370	64	327	236,900	-	-	-	-

SALMON RIVER BASIN

Salmon River below Valley Creek, at Stanley, Idaho
(Drainage area, 535 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1926	633-216	1,840	-	430	0.804	10.91	311,000	1,840	-	428	0.800	10.86	310,000
1927	653-189	4,650	-	798	1.49	20.25	578,000	4,650	-	835	1.56	21.21	605,000
1928	673-143	4,380	-	772	1.44	19.66	561,000	4,380	160	726	1.36	18.49	528,000
1929	693-143	2,340	160	458	.856	11.64	332,000	2,340	-	444	.830	11.28	322,000
1930	708-147	2,500	-	504	.942	12.78	365,000	2,500	-	533	.996	13.50	386,000
1931	723-159	1,450	200	410	.766	10.38	296,000	1,450	205	387	.723	9.81	280,000
1932	738-153	3,230	-	628	1.17	15.96	456,000	3,230	-	634	1.19	16.13	461,000
1933	753-151	4,300	-	570	1.07	14.45	412,000	4,300	-	581	1.09	14.73	420,000
1934	768-150	1,600	202	482	.901	12.25	348,900	1,600	202	478	.893	12.15	345,800
1935	793-151	2,470	224	536	1.00	13.58	387,900	2,470	200	526	.983	13.32	380,600
1936	813-190	3,500	200	640	1.20	16.28	464,400	3,500	216	642	1.20	16.33	465,800
1937	833-167	1,690	196	422	.789	10.70	305,200	1,690	196	424	.793	10.77	307,000
1938	863-187	3,700	206	753	1.41	19.14	545,500	3,700	-	776	1.45	19.70	561,800
1939	883-221	1,560	202	458	.856	11.63	331,900	-	-	-	-	-	-

Salmon River below Yankee Fork, near Clayton, Idaho
(Drainage area, 841 square miles)

1922	553-265	-	-	-	-	-	-	6,760	-	1,100	1.31	17.74	796,000
1923	573-231	4,920	352	962	1.14	15.53	696,000	4,920	-	972	1.16	15.69	704,000
1924	593-233	2,820	-	602	.716	9.74	437,000	-	-	-	-	-	-
1926	633-218	-	274	612	.728	9.89	444,000	-	274	588	.699	9.50	426,000
1927	653-191	8,000	249	1,170	1.39	18.91	848,000	8,000	249	1,230	1.46	19.91	892,000
1928	673-144	7,230	-	1,170	1.39	19.01	852,000	7,230	278	1,120	1.33	18.07	811,000
1929	693-144	3,330	278	687	.817	11.09	498,000	3,330	-	674	.801	10.88	488,000
1930	708-148	3,760	-	781	.929	12.61	566,000	3,760	-	805	.957	13.00	583,000
1931	723-160	2,350	231	574	.683	9.27	415,000	2,350	212	544	.647	8.78	394,000
1932	738-154	5,220	212	929	1.10	15.04	675,000	5,220	-	944	1.12	15.29	685,000
1933	753-152	6,250	-	861	1.02	13.88	624,000	6,250	-	877	1.04	14.13	635,000
1934	768-151	2,830	279	735	.874	11.86	532,300	2,830	279	723	.860	11.67	523,600
1935	793-152	4,000	282	796	.946	12.85	576,500	4,000	250	784	.932	12.66	567,600
1936	813-191	6,000	250	964	1.15	15.62	699,900	6,000	282	968	1.15	15.68	702,600
1937	833-168	2,620	-	592	.704	9.56	428,800	2,620	-	595	.707	9.60	430,800
1938	863-188	6,610	272	1,130	1.34	18.24	818,200	6,610	320	1,164	1.38	18.79	842,800
1939	883-222	2,620	272	682	.811	11.02	493,900	-	-	-	-	-	-

Summary of yearly discharge, in second-feet, at stations in Salmon River Basin--Continued

Salmon River near Challis, Idaho
(Drainage area, 1,740 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off Inches	Run-off Acre-feet	Maximum day	Minimum day	Mean	Per square mile	Run-off Inches	Run-off Acre-feet
1929	693-145	5,220	436	1,060	0.609	8.28	768,000	5,220	383	1,040	0.598	8.14	755,000
1930	708-149	5,760	383	1,210	.695	9.46	878,000	5,760	406	1,240	.713	9.66	898,000
1931	723-161	3,180	390	855	.491	6.66	619,000	3,180	346	806	.463	6.29	584,000
1932	738-155	8,190	346	1,390	.799	10.90	1,010,000	8,190	260	1,420	.816	11.09	1,030,000
1933	753-153	9,250	260	1,260	.724	9.82	910,000	9,250	-	1,270	.730	9.95	922,000
1934	768-152	3,820	406	1,016	.584	7.94	735,400	3,820	406	997	.573	7.79	722,000
1935	793-153	6,700	422	1,181	.679	9.19	854,800	6,700	375	1,176	.676	9.16	851,600
1936	813-192	8,980	375	1,399	.804	10.94	1,015,000	8,980	422	1,398	.803	10.94	1,015,000
1937	833-169	3,650	-	880	.506	6.87	636,900	3,650	-	884	.508	6.89	640,000
1938	863-189	9,010	440	1,682	.967	13.11	1,218,000	9,010	440	1,739	.999	13.56	1,259,000
1939	883-223	3,430	424	1,021	.587	7.97	738,800	-	-	-	-	-	-

Salmon River at Salmon, Idaho
(Drainage area, 3,600 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1914	393-220	8,420	-	2,070	1,500,000	8,420	-	2,080	1,500,000
1915	413-173	3,780	-	1,540	1,120,000	3,780	-	1,500	1,080,000
1916	443-165	11,600	-	2,500	1,820,000	-	-	-	-
1920	513-289	-	-	-	-	6,810	-	1,720	1,250,000
1921	533-267	16,400	875	2,530	1,830,000	16,400	805	2,550	1,840,000
1922	553-267	14,300	805	2,250	1,630,000	14,300	-	2,220	1,610,000
1923	573-233	10,200	715	1,950	1,410,000	10,200	715	1,980	1,430,000
1924	593-234	4,370	595	1,260	918,000	4,370	595	1,180	858,000
1925	613-241	9,380	595	2,150	1,560,000	9,380	735	2,240	1,630,000
1926	633-220	3,300	595	1,250	908,000	3,300	595	1,180	852,000
1927	653-192	10,800	675	2,090	1,510,000	10,800	675	2,180	1,580,000
1928	673-145	11,900	-	2,080	1,510,000	11,800	620	2,000	1,450,000
1929	693-146	5,840	620	1,380	997,000	5,840	660	1,360	987,000
1930	708-150	5,780	666	1,520	1,100,000	5,780	-	1,550	1,130,000
1931	723-162	3,690	558	1,170	847,000	3,690	558	1,110	803,000
1932	738-156	9,640	576	1,820	1,320,000	9,640	400	1,850	1,340,000
1933	753-154	9,920	400	1,610	1,160,000	9,920	-	1,630	1,180,000
1934	768-153	3,940	530	1,297	939,000	3,940	530	1,254	907,900
1935	793-154	6,330	651	1,413	1,023,000	6,330	562	1,413	1,023,000
1936	813-193	8,300	562	1,724	1,252,000	8,300	690	1,742	1,264,000
1937	833-170	3,780	350	1,157	837,800	3,780	350	1,128	817,000
1938	863-190	9,600	645	2,208	1,468,000	9,600	660	2,123	1,537,000
1939	883-224	3,780	600	1,355	980,800	-	-	-	-

Salmon River at Whitebird, Idaho
(Drainage area, 13,400 square miles)

1911	312-415	76,200	3,290	13,100	9,480,000	76,200	3,150	13,000	9,400,000
1912	332-486	75,100	3,010	12,800	9,260,000	75,100	3,010	12,900	9,330,000
1913	362-494	81,200	2,670	13,200	9,570,000	81,200	2,670	13,200	9,530,000
1914	393-222	51,500	3,430	10,100	7,330,000	51,500	2,800	10,100	7,300,000
1915	413-175	33,400	2,800	7,860	5,690,000	33,400	2,790	7,740	5,600,000
1916	443-167	84,900	2,690	14,600	10,600,000	84,900	2,500	14,600	10,600,000
1917	463-151	77,000	2,500	12,900	9,320,000	-	-	-	-
1920	513-291	56,700	-	9,600	6,970,000	56,700	-	10,100	7,300,000
1921	533-269	88,800	3,190	14,900	10,800,000	88,800	3,190	14,800	10,700,000
1922	553-269	67,200	2,900	11,100	8,040,000	67,200	2,820	10,900	7,880,000
1923	573-234	56,000	2,820	9,850	7,130,000	56,000	2,660	9,960	7,210,000
1924	593-236	40,100	2,560	6,930	5,030,000	40,100	2,560	6,790	4,930,000
1925	613-243	58,600	-	11,300	8,190,000	58,600	2,440	11,500	8,320,000
1926	633-221	30,600	2,150	6,850	4,960,000	30,600	2,150	6,920	5,010,000
1927	653-194	73,800	2,900	12,600	9,110,000	73,800	-	13,200	9,520,000
1928	673-146	-	3,900	12,900	9,330,000	-	2,900	12,200	8,830,000
1929	693-147	48,200	2,900	8,150	5,890,000	48,200	2,340	8,070	5,840,000
1930	708-151	40,100	2,340	8,550	6,190,000	40,100	2,340	8,570	6,210,000
1931	723-163	29,200	2,070	5,810	4,200,000	29,200	1,820	5,590	4,040,000
1932	753-155	66,100	1,820	10,900	7,940,000	66,100	1,700	11,200	8,110,000
1933	753-155	80,900	1,700	10,200	7,410,000	80,900	2,500	10,300	7,470,000
1934	768-154	34,400	2,290	7,648	5,536,000	34,400	2,290	7,502	5,431,000
1935	793-155	42,100	2,340	8,048	5,827,000	42,100	1,700	7,896	5,718,000
1936	813-194	69,200	1,700	9,788	7,106,000	69,200	2,240	9,813	7,124,000
1937	833-171	33,400	1,980	6,475	4,687,000	33,400	1,980	6,621	4,793,000
1938	863-191	74,300	2,400	12,300	8,907,000	74,300	2,450	12,480	9,034,000
1939	883-225	40,500	2,450	8,090	5,857,000	-	-	-	-

Summary of yearly discharge, in second-feet, at stations in Salmon River Basin--Continued

Valley Creek at Stanley, Idaho
(Drainage area, 176 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1912	362-497	978	-	215	1.22	16.61	156,000	978	-	215	1.22	16.61	156,000
1913	362-497	1,040	-	238	1.35	18.33	172,000	-	-	-	-	-	-
*1921	533-271	1,850	-	-	-	-	-	1,850	-	-	-	-	-
1923	573-236	886	53	188	1.07	14.48	136,000	886	53	192	1.09	14.82	139,000
1924	593-237	485	41	120	.682	9.25	86,900	485	41	115	.653	8.87	83,200
1925	613-244	932	-	217	1.23	16.78	157,000	932	-	220	1.25	16.95	159,000
1926	633-223	507	-	115	.653	8.88	83,300	507	-	114	.648	8.83	82,800
1927	653-195	1,390	54	246	1.40	18.95	178,000	1,390	-	260	1.48	20.10	189,000
1928	673-147	1,300	-	242	1.38	18.69	175,000	1,300	-	229	1.30	17.69	166,000
1929	693-148	689	63	144	.818	11.06	104,000	689	-	139	.790	10.73	101,000
1930	708-152	631	-	149	.847	11.50	108,000	631	-	155	.881	11.97	112,000
1931	723-164	457	44	124	.705	9.54	89,600	457	44	116	.659	8.96	84,200
1932	738-158	838	46	184	1.05	14.25	134,000	838	-	186	1.06	14.39	135,000
1933	753-157	1,340	-	173	.983	13.31	125,000	1,340	-	176	1.00	13.57	127,000
1934	768-155	565	43	148	.841	11.38	106,900	565	43	147	.835	11.30	106,100
1935	793-156	710	56	157	.892	12.16	113,900	710	50	155	.881	11.96	112,000
1936	813-195	1,170	50	199	1.13	15.39	144,600	1,170	55	200	1.14	15.45	145,200
1937	833-172	538	48	130	.739	10.01	94,010	538	48	136	.773	10.45	98,230
1938	863-192	1,090	61	237	1.35	18.28	171,600	1,090	63	236	1.34	18.23	171,100
1939	883-226	457	41	128	.727	9.89	92,620	-	-	-	-	-	-

*Year incomplete.

Yankee Fork of Salmon River near Clayton, Idaho
(Drainage area, 195 square miles)

*1921	533-272	3,360	-	-	-	-	-	3,360	-	-	-	-	-
1923	573-238	1,640	-	212	1.09	14.77	154,000	1,640	-	210	1.08	14.61	152,000
1924	593-239	729	-	109	.559	7.61	79,100	-	-	-	-	-	-
1926	633-225	602	-	102	.523	7.07	73,700	602	14	98.3	.504	6.82	71,200
1927	653-197	2,420	14	256	1.31	17.81	185,000	2,420	-	263	1.35	18.30	190,000
1928	673-148	2,520	-	247	1.27	17.26	180,000	2,520	-	244	1.25	17.03	177,000
1929	693-149	859	20	134	.687	9.31	96,900	859	20	136	.697	9.46	98,400
1930	708-153	1,120	-	173	.887	12.02	125,000	1,120	27	171	.877	11.93	124,000
1931	723-165	665	27	108	.554	7.55	78,400	665	34	106	.544	7.37	76,400
1932	738-159	1,600	-	211	1.08	14.73	153,000	1,600	-	212	1.09	14.82	154,000
1933	753-158	1,800	-	203	1.04	14.09	147,000	1,800	-	203	1.04	14.11	147,000
1934	768-156	-	-	156	.80	10.85	113,000	-	-	157	.805	10.96	114,000
1935	793-157	1,160	-	174	.892	12.14	126,100	1,160	-	169	.867	11.81	122,600
1936	813-196	2,010	-	224	1.15	15.64	162,600	2,010	-	226	1.16	15.80	164,200
1937	833-173	800	-	118	.605	8.23	85,410	800	-	118	.605	8.22	85,340
1938	863-193	2,060	-	254	1.30	17.65	183,600	2,060	-	258	1.32	18.00	187,100
1939	883-227	818	-	143	.733	10.00	103,700	-	-	-	-	-	-

*Year incomplete.

East Fork of Salmon River near Clayton, Idaho
(Drainage area, 497 square miles)

1929	693-150	1,120	29	175	0.352	4.80	127,000	1,120	40	172	0.346	4.73	125,000
1930	708-154	1,400	46	217	.437	5.94	158,000	1,400	55	227	.457	6.19	164,000
1931	723-166	795	54	142	.286	3.88	103,000	795	31	131	.264	3.58	95,000
1932	738-160	2,830	31	270	.543	7.40	196,000	2,830	35	276	.555	7.56	200,000
1933	753-159	1,690	35	187	.376	5.10	136,000	1,690	-	186	.374	5.05	135,000
1934	768-157	490	49	122	.245	3.34	88,570	490	46	117	.235	3.20	84,720
1935	793-158	1,460	46	206	.414	5.64	149,200	1,460	30	207	.416	5.67	149,700
1936	813-197	1,300	30	188	.378	5.15	136,400	1,300	-	189	.380	5.17	136,900
1937	833-174	815	-	133	.268	3.64	96,160	815	-	134	.270	3.67	97,170
1938	863-194	3,580	34	378	.761	10.34	273,900	-	-	391	.787	10.67	282,800
1939	883-228	-	-	160	.322	4.35	115,600	-	-	-	-	-	-

Lemhi River at Salmon, Idaho

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1929	693-152	1,400	53	282	204,000	1,400	53	282	204,000
1930	708-157	-	40	197	142,000	-	40	187	135,000
1931	723-168	530	14	176	127,000	530	14	168	122,000
1932	738-162	1,260	34	240	175,000	1,260	34	253	184,000
1933	753-161	1,090	27	237	172,000	1,090	27	236	171,000
1934	768-159	508	15	165	119,600	390	15	154	111,700
1935	793-160	1,040	19	198	143,600	1,040	19	195	141,100
1936	813-199	2,300	38	224	162,900	2,300	38	226	163,800
1937	833-176	267	14	136	98,380	267	14	130	94,300
1938	863-196	1,260	48	260	188,300	1,260	48	284	205,300
1939	883-231	890	-	246	178,100	-	-	-	-

Summary of yearly discharge, in second-feet, at stations in Salmon River Basin--Continued

Middle Fork of Salmon River near Cape Horn, Idaho
(Drainage area, 138 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1929	693-153	935	63	168	1.22	16.47	121,000	935	-	163	1.18	16.07	118,000
1930	708-159	946	-	179	1.30	17.57	129,000	946	-	182	1.32	17.87	131,000
1931	723-170	652	-	135	.978	13.26	97,600	652	-	130	.942	12.77	94,000
1932	738-164	1,380	-	233	1.69	22.93	169,000	1,380	-	236	1.71	23.32	172,000
1933	753-163	2,120	-	218	1.58	21.51	158,000	2,120	-	218	1.58	21.45	158,000
1934	768-161	1,040	-	192	1.39	18.83	138,800	1,040	-	190	1.38	18.73	137,900
1935	793-162	1,110	-	192	1.39	18.87	138,900	1,110	-	189	1.37	18.61	137,000
1936	813-201	1,720	-	222	1.61	21.90	161,300	1,720	-	223	1.62	22.03	162,200
1937	833-178	910	-	153	1.11	15.08	111,100	910	-	156	1.13	15.30	112,800
1938	863-198	1,940	-	292	2.12	28.67	211,000	1,940	-	296	2.14	29.08	214,000
1939	883-235	825	-	163	1.18	16.08	118,200	-	-	-	-	-	-

Bear Valley Creek near Cape Horn, Idaho
(Drainage area, 180 square miles)

*1926	633-228	-	44	-	-	-	-	-	44	-	-	-	-
*1928	673-150	2,890	-	-	-	-	-	2,890	-	-	-	-	-
1929	693-154	1,400	-	195	1.08	14.67	141,000	1,400	-	194	1.08	14.65	141,000
1930	708-160	1,040	-	220	1.22	16.59	159,000	1,040	-	218	1.21	16.43	158,000
1931	723-171	925	58	150	.833	11.27	108,000	925	55	146	.811	11.01	106,000
1932	738-165	2,110	55	289	1.61	21.83	210,000	2,110	-	293	1.63	22.14	213,000
1933	753-164	-	-	268	1.49	20.24	194,000	-	-	269	1.49	20.28	195,000
1934	768-166	1,400	-	234	1.30	17.66	169,400	1,400	-	237	1.32	17.85	171,300
1935	793-164	1,500	-	236	1.31	17.80	170,600	1,500	-	231	1.28	17.41	166,800
1936	833-180	2,280	-	277	1.54	20.93	201,000	2,280	50	276	1.53	20.84	200,200
1937	833-180	1,080	-	175	.972	13.18	126,400	1,080	-	181	1.01	13.64	130,800
1938	863-200	2,390	-	338	1.88	25.52	244,900	2,390	-	338	1.88	25.54	245,100
1939	883-237	1,210	-	194	1.08	14.61	140,400	-	-	-	-	-	-

*Year incomplete.

South Fork of Salmon River near Knox, Idaho
(Drainage area, 92 square miles)

1929	693-155	600	25	95.1	1.03	14.04	68,900	600	-	96.6	1.05	14.26	69,900
1930	708-161	-	-	136	1.48	20.09	98,600	-	-	133	1.45	19.59	96,200
1931	723-172	648	16	86.2	.937	12.70	62,400	648	16	87.1	.947	12.84	63,100
1932	738-166	745	25	143	1.55	21.12	104,000	745	-	143	1.55	21.19	104,000
1933	753-165	1,560	-	104	1.13	15.37	75,400	1,560	-	103	1.12	15.23	74,800
1934	768-167	593	-	97.8	1.06	14.43	70,780	593	-	100	1.09	14.78	72,520
1935	793-165	878	-	116	1.26	17.17	84,250	878	-	113	1.23	16.74	82,100
1936	813-204	1,340	-	138	1.50	20.42	100,100	1,340	-	136	1.48	20.23	99,100
1937	833-182	580	-	86.5	.940	12.77	62,600	580	-	93.7	1.02	13.82	67,840
1938	863-201	1,340	20	188	2.04	27.68	135,800	1,340	-	186	2.02	27.40	134,400
1939	883-238	605	-	97.1	1.06	14.34	70,330	-	-	-	-	-	-

East Fork of South Fork of Salmon River at Stibnite, Idaho
(Drainage area, 19.5 square miles)

1929	693-156	155	-	19.6	1.01	13.69	14,200	155	-	19.4	0.995	13.50	14,000
1930	708-162	242	-	26.9	1.38	18.75	19,500	242	-	27.3	1.40	19.00	19,800
1931	723-173	100	-	14.5	.744	10.09	10,500	100	-	13.7	.703	9.52	9,880
1932	738-167	209	-	28.5	1.46	19.91	20,700	209	-	29.2	1.50	20.44	21,300
1933	753-168	343	-	29.7	1.52	20.94	21,800	343	-	29.4	1.51	20.51	21,300
1934	768-169	117	-	20.9	1.07	14.57	15,140	117	-	21.3	1.09	14.84	15,420
1935	793-167	155	-	22.0	1.13	15.27	15,900	155	-	21.9	-	-	15,840
1936	813-206	190	-	25.3	-	-	18,360	190	-	25.1	-	-	18,210
1937	833-184	99	-	17.6	-	-	12,740	99	-	17.9	-	-	12,950
1938	863-203	230	-	31.7	-	-	22,940	230	-	32.2	-	-	23,300
1939	883-240	98	-	19.1	-	-	13,790	-	-	-	-	-	-

East Fork of South Fork of Salmon River near Stibnite, Idaho
(Drainage area, 42.5 square miles)

1929	693-157	314	10	44.8	1.05	14.33	32,500	314	10	44.7	1.05	14.29	32,400
1930	708-163	460	-	53.6	1.26	17.12	38,800	460	-	52.8	1.24	16.87	38,300
1931	723-174	193	11	30.7	.722	9.81	22,200	193	12	29.9	.704	9.56	21,700
1932	738-168	434	11	65.8	1.55	21.07	47,800	434	-	66.9	1.57	21.45	48,600
1933	753-169	783	-	64.7	1.52	20.68	46,800	783	-	64.6	1.52	20.65	46,800
1934	768-170	260	-	47.8	1.12	15.28	34,620	260	16	47.7	1.12	15.25	34,550
1935	793-168	341	12	49.9	1.17	15.94	36,130	341	11	49.1	1.16	15.67	35,530
1936	813-207	452	10	53.3	1.25	17.06	38,660	452	-	53.5	1.26	17.14	38,840
1937	833-185	188	-	35.4	.833	11.29	25,610	188	-	36.5	.859	11.64	26,400
1938	863-204	520	-	71.0	1.67	22.67	51,410	520	-	71.7	1.69	22.87	51,880
1939	883-241	220	-	42.4	.998	13.54	30,730	-	-	-	-	-	-

East Fork of South Fork of Salmon River near Yellow Pine, Idaho
(Drainage area, 104 square miles)

1929	693-158	739	27	112	1.08	14.67	81,400	739	29	112	1.08	14.61	81,100
1930	708-164	860	-	140	1.35	18.27	101,000	860	-	141	1.36	18.43	102,000
1931	723-175	555	29	88.5	.851	11.57	64,000	555	29	84.9	.816	11.09	61,400
1932	738-169	1,080	-	171	1.64	22.33	124,000	1,080	-	176	1.69	23.05	128,000
1933	753-170	1,660	-	169	1.62	22.07	122,000	1,660	-	168	1.62	21.94	122,000
1934	768-171	691	-	136	1.31	17.69	98,230	691	-	134	1.29	17.46	96,930
1935	793-169	849	-	127	1.22	16.63	92,240	849	-	125	1.20	16.34	90,630

Summary of yearly discharge, in second-feet, at stations in Salmon River Basin--Continued

East Fork of South Fork of Salmon River near Yellow Pine, Idaho--Continued
(Drainage area, 104 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1936	813-208	1,170	-	140	1.35	18.33	101,600	1,170	-	140	1.35	18.39	102,000
1937	833-186	534	-	97.6	.938	12.73	70,670	534	-	102	.981	13.27	73,630
1938	863-205	1,300	-	185	1.78	24.15	134,000	1,300	-	186	1.79	24.28	134,700
1939	883-242	644	-	120	1.15	15.71	87,020	-	-	-	-	-	-

Johnson Creek at Yellow Pine, Idaho
(Drainage area, 213 square miles)

1929	693-159	1,940	48	229	1.08	14.58	166,000	1,940	33	226	1.06	14.40	164,000
1930	708-165	1,800	33	282	1.32	17.97	204,000	1,800	51	286	1.34	18.19	207,000
1931	723-176	1,300	34	165	.775	10.50	120,000	1,300	34	160	.751	10.16	116,000
1932	738-170	3,100	-	354	1.66	22.61	257,000	3,100	30	361	1.69	23.04	262,000
1933	753-171	4,540	30	317	1.49	20.22	229,000	4,540	40	317	1.49	20.18	229,000
1934	768-172	1,840	40	280	1.31	17.83	202,500	1,840	42	279	1.31	17.78	201,900
1935	793-170	2,100	47	281	1.32	17.94	203,700	2,100	41	276	1.30	17.60	199,900
1936	813-209	3,110	41	319	1.50	20.36	231,500	3,110	38	319	1.50	20.36	231,500
1937	833-187	1,600	-	210	.986	13.37	151,900	1,600	34	217	1.02	13.82	156,900
1938	863-206	3,030	34	404	1.90	25.72	292,200	3,030	58	406	1.91	25.88	294,000
1939	883-243	1,840	51	242	1.14	15.44	175,500	-	-	-	-	-	-

GRANDE RONDE RIVER BASIN

Grande Ronde River at La Grande, Oreg.
(Drainage area, 678 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1905	370-167	-	3	-	-	2,470	3	248	179,200
1906	370-167	2,950	26	333	241,000	2,950	28	352	254,800
1907	370-167	2,920	18	472	338,000	2,920	18	453	328,200
1908	370-167	4,240	12	379	275,000	4,240	12	375	272,200
1909	370-167	1,080	5	251	181,000	1,080	5	277	200,400
1911	312-425	1,370	16	218	158,000	-	-	-	-
1913	362-506	3,870	15	574	415,000	3,870	15	585	423,360
1914	393-224	2,210	15	378	274,000	2,210	15	362	262,000
1915	413-177	1,240	15	154	111,000	-	-	-	-
1919	513-293	3,440	14	347	251,000	3,440	14	398	288,400
1920	513-293	3,450	14	506	367,000	-	-	-	-
1922	553-282	4,750	4	588	426,000	4,750	4	541	392,000
1926	633-229	1,830	22	234	169,000	1,830	22	253	183,500
1927	653-201	2,460	19	396	287,000	2,460	19	480	347,600
1928	673-153	4,330	18	558	405,000	4,330	16	452	328,300
1929	693-160	2,970	15	308	223,000	2,970	10	308	223,300
1930	723-177	1,590	8	216	157,000	1,590	8	218	157,900
1931	723-177	6,150	8	236	171,000	6,150	8	233	168,800
1932	738-171	8,310	13	496	360,000	8,310	12	498	361,300
1933	768-173	2,050	12	369	266,900	2,050	13	390	282,600
1934	768-173	1,230	6	191	138,300	1,230	6	176	127,200
1935	793-171	2,870	7	228	165,200	2,870	7	221	160,100
1936	813-210	3,520	8	325	236,000	3,520	8	325	235,900
1937	833-189	2,860	11	283	205,100	2,860	11	295	213,800
1938	863-209	2,230	12	291	210,400	2,230	12	291	210,600
1939	883-245	3,600	6	307	222,000	-	-	-	-

Grande Ronde River at Rondowa, Oreg.
(Drainage area, 2,555 square miles)

1927	653-202	11,000	466	2,280	1,650,000	11,000	-	2,652	1,920,000
1928	673-154	13,800	470	2,830	2,050,000	13,800	393	2,353	1,708,000
1929	693-161	8,850	353	1,560	1,130,000	8,850	310	1,535	1,111,000
1930	708-166	4,000	310	1,360	977,000	4,000	-	1,350	979,600
1931	723-179	-	254	1,210	876,000	-	254	1,203	871,000
1932	738-172	16,400	301	2,550	1,850,000	16,400	340	2,618	1,901,000
1933	753-173	12,800	424	2,260	1,640,000	12,800	462	2,314	1,673,000
1934	768-175	4,580	300	1,477	1,069,000	4,580	300	1,430	1,036,000
1935	793-172	7,680	304	1,508	1,092,000	7,680	260	1,421	1,029,000
1936	813-211	12,000	256	1,868	1,356,000	12,000	256	1,862	1,352,000
1937	833-190	5,910	230	1,380	999,200	5,910	230	1,478	1,070,000
1938	863-210	9,140	308	1,958	1,418,000	9,140	373	1,931	1,398,000
1939	883-246	9,510	335	1,638	1,186,000	-	-	-	-

Summary of yearly discharge, in second-feet, at stations in Grande Ronde River Basin--Continued

Catherine Creek near Union, Oreg.
(Drainage area, 105 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1912	332-508	1,240	22	187	136,000	1,240	22	188	137,000
1919	513-297	1,110	-	108	77,890	-	-	-	-
1926	633-231	675	8	73.5	53,200	675	13	77.9	56,330
1927	653-204	895	13	141	102,000	895	15	164	118,400
1928	673-155	1,200	24	180	130,000	1,200	15	153	111,100
1929	693-162	1,000	15	127	92,000	1,000	5	124	89,450
1930	708-167	335	5	67.3	48,700	335	4	67.4	48,850
1931	723-180	525	4	79.2	57,400	525	11	81.2	58,920
1932	738-174	915	14	139	101,000	915	14	141	102,500
1933	753-175	1,030	14	144	104,000	1,030	14	145	104,700
1934	768-177	338	15	75.1	54,400	338	15	74.7	54,110
1935	793-174	630	18	105	75,700	630	17	101	73,370
1936	813-212	785	16	97.5	70,770	785	14	97.2	70,570
1937	833-191	520	14	82.4	59,640	520	15	89.1	64,530
1938	863-211	920	20	148	107,100	920	20	146	105,800
1939	883-247	723	18	111	80,070	-	-	-	-

East Fork of Wallowa River near Joseph, Oreg.
(Drainage area, 9.6 square miles)

1925	613-249	109	-	19.2	13,900	109	-	18.8	13,630
1926	633-235	33	1.8	8.68	6,280	33	-	7.98	5,780
1927	653-207	197	.5	19.9	14,400	197	0.5	21.7	15,710
1928	673-157	114	1.0	18.4	13,400	114	1.0	16.9	12,290
1929	693-164	97	-	10.2	7,400	97	-	9.57	6,920
1930	708-169	56	.1	8.57	6,190	56	-	8.60	6,210
1931	723-182	45	-	5.95	4,300	45	-	5.66	4,100
1932	738-176	72	-	10.2	7,400	72	-	10.7	7,810
1933	753-177	114	1.2	12.8	9,230	114	1.2	13.0	9,380
1934	768-178	71	1.9	9.09	6,580	71	1.8	8.87	6,420
1935	793-175	42	.3	8.41	6,090	42	.1	7.96	5,760
1936	813-213	71	.1	7.49	5,440	71	.2	7.31	5,310
1937	833-192	44	-	6.51	4,710	44	-	6.77	4,900
1938	863-212	154	.7	20.7	15,000	154	.7	22.0	15,950
1939	883-248	41	2.2	10.5	7,600	-	-	-	-

Wallowa Falls power plant tailrace near Joseph, Oreg.

1925	613-251	9.4	3.9	5.48	3,960	9.4	3.9	5.66	4,100
1926	633-237	8.9	4.7	6.45	4,670	8.9	4.9	6.56	4,750
1927	653-208	9.9	4.7	6.55	4,740	10	4.7	6.93	5,020
1928	673-158	12	5.4	8.15	5,920	12	5.4	8.02	5,820
1929	693-165	8.7	6.3	7.23	5,230	8.7	6.3	7.16	5,180
1930	708-170	8.7	0	7.45	5,400	10	0	7.73	5,590
1931	723-183	10	0	8.49	6,150	11	0	8.59	6,210
1932	738-177	11	0	8.08	5,860	11	0	7.56	5,490
1933	753-178	8.0	3.4	6.86	4,970	7.9	3.4	6.91	5,010
1934	768-179	8.7	0	7.35	5,320	8.7	0	7.42	5,370
1935	793-176	8.1	5.8	7.47	5,410	8.9	5.8	7.65	5,540
1936	813-214	9.7	6.4	8.09	5,870	9.7	6.4	8.02	5,820
1937	833-193	9.7	0	7.68	5,560	9.7	0	7.67	5,550
1938	863-213	9.1	0	6.55	4,740	8.3	0	6.20	4,490
1939	883-249	8.3	4.0	6.74	4,880	-	-	-	-

Hurricane Creek near Joseph, Oreg.
(Drainage area, 31 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1928	673-159	558	21	89.4	2.88	39.20	64,800	558	19	79.3	2.56	34.85	57,500
1929	693-166	420	12	56.8	1.83	24.84	41,200	420	12	54.6	1.76	23.89	39,570
1930	708-171	300	-	56.7	1.83	24.84	41,000	300	-	58.9	1.90	25.79	42,620
1931	723-184	320	14	49.5	1.60	21.72	35,900	320	13	47.0	1.52	20.63	34,100
1932	738-178	479	11	71.4	2.30	31.31	51,800	479	11	74.0	2.39	32.53	53,680
1933	753-179	530	12	69.9	2.25	30.54	50,600	530	12	70.5	2.27	30.81	51,000
1934	768-180	289	22	63.5	2.05	27.79	45,940	289	17	62.0	2.00	27.13	44,860
1935	793-177	305	12	55.7	1.80	24.35	40,300	305	10	53.8	1.74	23.53	38,940
1936	813-215	394	9	57.5	1.85	25.22	41,720	394	9	56.9	1.84	24.97	41,290
1937	833-194	303	7.0	48.9	1.58	21.43	35,420	303	7.0	52.1	1.68	22.80	37,710
1938	863-214	420	9.0	84.6	2.73	36.98	61,220	420	9.0	85.8	2.77	37.53	62,090
1939	883-250	278	7.3	58.0	1.87	25.40	41,980	-	-	-	-	-	-

Summary of yearly discharge, in second-feet, at stations in Grande Ronde River Basin--Continued

Lostine River near Lostine, Oreg.

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1913	393-228	2,540	26	277	201,000	2,540	22	274	198,600
1929	693-167	1,260	-	144	105,000	1,260	-	142	102,800
1930	708-172	935	-	138	99,800	935	-	144	104,100
1931	723-185	925	19	128	92,500	925	18	124	89,670
1932	738-179	1,550	-	197	143,000	1,550	-	199	144,500
1933	753-180	2,010	21	195	141,000	2,010	21	202	146,400
1934	768-181	845	24	174	126,000	845	24	168	121,400
1935	793-178	1,080	22	156	112,800	1,080	18	151	109,100
1936	813-216	1,570	-	169	122,800	1,570	10	168	121,600
1937	833-195	1,120	10	133	96,140	1,120	20	143	103,500
1938	863-215	1,570	22	218	157,900	1,570	32	217	156,800
1939	883-251	1,040	19	148	107,100	-	-	-	-

Bear Creek near Wallowa, Oreg.

1930	708-173	450	6.9	81.6	59,200	450	6.9	84.3	61,180
1931	723-186	590	7	76.5	55,400	590	7	74.4	53,940
1932	738-180	553	7	98.9	71,900	553	9	100	72,930
1933	753-181	1,200	9	117	84,600	1,200	*10	123	89,140
1934	768-182	436	6	99.8	72,230	436	6	94.8	68,620
1935	793-179	534	6	84.1	60,870	534	6	79.8	57,800
1936	813-217	*1,200	6	109	79,000	*1,200	4	108	78,740
1937	833-196	498	3	70.2	50,800	498	3	76.6	55,440
1938	863-216	820	8	117	84,440	820	8	116	83,950
1939	883-252	547	7	88.7	64,210	-	-	-	-

*Estimated.

Asotin Creek near Asotin, Wash.
(Drainage area, 171 square miles)

*1904	214-118	1,180	-	-	-	1,180	-	-	-
1929	693-169	187	27	49.3	35,700	187	27	49.3	35,700
1930	708-174	157	-	47.2	34,200	157	-	47.0	34,000
1931	723-188	518	20	43.8	31,700	518	20	42.5	30,800
1932	738-182	322	-	72.9	52,800	322	-	75.0	54,400
1933	753-183	323	25	74.7	54,100	500	27	81.7	59,100
1934	768-183	500	24	66.3	48,010	268	24	60.1	43,530
1935	793-180	164	25	53.2	38,490	164	25	50.7	36,690
1936	813-218	372	24	64.0	46,460	372	24	63.8	46,330
1937	833-197	210	16	46.3	33,500	210	16	48.1	34,850
1938	863-217	330	27	66.2	47,910	330	27	66.2	47,940
1939	883-253	244	19	52.8	38,230	-	-	-	-

*Year incomplete.

CLEARWATER RIVER BASIN

Selway River near Lowell, Idaho
(Drainage area, 1,510 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
*1930	708-175	14,600	-	2,740	1.81	24.61	1,980,000	14,600	-	2,800	1.85	25.18	2,030,000
1931	723-189	16,400	382	2,380	1.58	21.38	1,720,000	16,400	300	2,310	1.53	20.74	1,670,000
1932	738-183	27,900	300	3,850	2.55	34.74	2,800,000	27,900	450	3,950	2.62	35.63	2,870,000
1933	753-184	31,200	424	3,970	2.63	35.73	2,880,000	31,200	424	4,390	2.91	39.50	3,190,000
1934	768-184	20,100	350	4,092	2.71	36.81	2,962,000	20,100	350	3,679	2.44	33.09	2,663,000
1935	793-181	21,000	300	3,002	1.99	26.97	2,173,000	21,000	260	2,862	1.90	25.71	2,072,000
1936	813-219	31,100	260	3,598	2.38	32.43	2,613,000	31,100	200	3,593	2.38	32.38	2,609,000
1937	833-198	16,100	-	2,306	1.53	20.75	1,670,000	16,100	-	2,368	1.57	21.30	1,714,000
1938	863-218	29,800	334	3,407	2.26	30.63	2,467,000	29,800	407	3,442	2.28	30.94	2,492,000
1939	883-254	22,700	413	3,154	2.09	28.36	2,283,000	-	-	-	-	-	-

*Yearly figures not previously published; discharge for period of missing record estimated.

Clearwater River at Kamiah, Idaho
(Drainage area, 4,850 square miles)

1911	312-442	36,600	1,380	8,090	1.67	22.63	5,860,000	36,600	1,320	7,680	1.58	21.48	5,560,000
1912	332-517	60,200	1,040	10,300	2.12	28.78	7,440,000	60,200	1,040	10,300	2.12	28.78	7,440,000
1913	362-517	76,600	1,040	10,500	2.16	29.39	7,590,000	76,600	950	10,500	2.16	29.51	7,620,000
1914	393-233	42,200	950	7,330	1.51	20.52	5,300,000	42,200	1,130	7,630	1.57	21.35	5,520,000
1915	413-191	28,200	1,130	5,950	1.23	16.64	4,300,000	28,200	1,130	5,550	1.14	15.51	4,020,000
1916	443-168	56,000	-	9,710	2.00	27.26	7,060,000	56,000	602	9,630	1.99	27.03	6,990,000
1917	513-300	70,500	602	10,700	2.21	29.84	7,720,000	70,500	722	11,300	2.33	31.77	8,220,000
1918	513-300	52,800	1,220	10,400	2.14	29.25	7,560,000	52,800	867	9,790	2.02	27.43	7,090,000
1919	513-300	52,000	867	5,990	1.24	16.79	4,340,000	52,000	-	5,770	1.19	16.17	4,180,000
1920	513-300	43,600	-	7,820	1.61	21.96	5,680,000	43,600	1,320	8,740	1.80	24.54	6,350,000
1921	533-277	69,700	1,210	11,600	2.39	32.35	8,380,000	69,700	1,210	11,100	2.29	30.94	8,010,000
1922	553-283	62,400	980	8,320	1.72	23.28	6,020,000	62,400	-	7,910	1.63	22.12	5,720,000
1923	573-244	49,600	-	7,250	1.49	20.27	5,250,000	49,600	760	7,380	1.52	20.62	5,340,000
1924	593-245	58,900	950	6,310	1.30	17.68	4,580,000	58,900	950	6,510	1.34	18.27	4,730,000

Summary of yearly discharge, in second-feet, at stations in Clearwater River Basin--Continued

Clearwater River at Kamiah, Idaho--Continued
(Drainage area, 4,850 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1925	613-253	59,800	1,220	9,560	1.97	26.77	6,930,000	59,800	1,430	9,560	1.97	26.76	6,930,000
1926	633-247	35,900	1,040	5,860	1.21	16.39	4,250,000	35,900	1,040	6,620	1.36	18.54	4,800,000
1927	653-214	68,600	1,910	10,900	2.25	30.60	7,910,000	68,600	1,910	12,400	2.56	34.79	9,000,000
1928	673-162	72,100	1,280	12,700	2.62	35.61	9,200,000	72,100	840	10,200	2.10	28.72	7,420,000
1929	693-170	50,200	650	6,070	1.25	16.98	4,400,000	50,200	330	6,000	1.24	16.80	4,350,000
1930	708-176	31,000	330	5,880	1.21	16.48	4,250,000	31,000	-	6,000	1.24	16.81	4,340,000
1931	723-190	40,800	735	5,200	1.07	14.57	3,770,000	40,800	735	5,050	1.04	14.14	3,650,000
1932	738-184	72,100	750	8,640	1.78	24.19	6,270,000	72,100	900	8,870	1.83	24.85	6,440,000
1933	753-185	81,400	865	8,970	1.85	25.06	6,500,000	81,400	865	9,890	2.04	27.65	7,170,000
1934	768-185	42,100	750	8,691	1.79	24.32	6,291,000	39,900	750	7,751	1.60	21.69	5,611,000
1935	793-182	41,300	550	6,151	1.27	17.23	4,454,000	41,300	419	5,869	1.21	16.44	4,249,000
1936	813-220	61,500	419	7,365	1.52	20.67	5,347,000	61,500	426	7,339	1.51	20.61	5,328,000
1937	833-199	32,900	200	4,862	1.00	13.62	3,520,000	32,900	200	5,015	1.03	14.04	3,630,000
1938	863-219	58,100	741	7,227	1.49	20.23	5,232,000	58,100	894	7,280	1.50	20.38	5,271,000
1939	883-255	44,000	818	6,258	1.29	17.51	4,531,000	-	-	-	-	-	-

Clearwater River at Spalding, Idaho
(Drainage area, 9,570 square miles)

1927	653-215	106,000	3,670	20,000	2.09	28.42	14,500,000	106,000	3,670	23,200	2.42	32.93	16,800,000
1928	673-163	104,000	2,450	24,200	2.53	34.47	17,600,000	104,000	1,290	19,000	1.99	27.01	13,800,000
1929	693-171	73,300	1,000	10,300	1.08	14.62	7,460,000	73,300	1,000	10,200	1.07	14.46	7,380,000
1930	708-177	51,000	950	10,300	1.08	14.56	7,430,000	51,000	950	10,400	1.09	14.79	7,550,000
1931	723-192	66,100	1,510	9,540	.997	13.52	6,910,000	66,100	1,510	9,330	.975	13.23	6,760,000
1932	738-186	114,000	1,570	16,700	1.75	23.70	12,100,000	114,000	2,000	17,300	1.81	24.54	12,500,000
1933	753-187	128,000	1,900	16,500	1.72	23.31	11,900,000	157,000	1,900	19,600	2.05	27.73	14,200,000
1934	768-187	157,000	1,660	19,170	2.00	27.19	13,880,000	72,400	1,660	15,970	1.67	22.66	11,560,000
1935	793-184	69,400	1,500	12,030	1.26	17.07	8,709,000	69,400	1,000	11,390	1.19	16.17	8,248,000
1936	813-222	101,000	1,000	14,140	1.48	20.12	10,260,000	101,000	944	14,090	1.47	20.04	10,230,000
1937	833-201	50,900	500	9,069	.948	12.86	6,566,000	50,900	500	9,495	.992	13.47	6,874,000
1938	863-221	123,000	1,790	13,970	1.46	19.81	10,110,000	123,000	1,810	13,930	1.46	19.76	10,090,000
1939	883-256	73,400	1,710	11,450	1.20	16.26	8,289,000	-	-	-	-	-	-

Lochsa River near Lowell, Idaho
(Drainage area, 1,180 square miles)

*1930	708-178	11,800	147	2,080	1.76	23.91	1,500,000	11,800	-	2,130	1.81	24.50	1,540,000
1931	723-193	12,600	242	†1,930	†1.64	22.25	1,400,000	12,600	230	1,860	1.58	21.41	1,350,000
1932	738-187	20,000	230	2,930	2.48	33.77	2,120,000	20,000	300	3,040	2.58	35.05	2,200,000
1933	753-188	30,600	342	3,130	2.65	36.00	2,270,000	30,600	350	3,660	3.10	42.08	2,650,000
1934	768-188	20,900	271	3,596	3.05	41.36	2,603,000	15,600	271	3,058	2.59	35.17	2,214,000
1935	793-185	14,900	200	2,263	1.92	26.03	1,638,000	14,900	190	2,138	1.81	24.60	1,548,000
1936	813-223	21,000	190	2,538	2.15	29.28	1,843,000	21,000	150	2,530	2.14	29.18	1,837,000
1937	833-202	11,800	-	1,724	1.46	19.84	1,248,000	11,800	-	1,788	1.52	20.59	1,295,000
1938	863-222	20,500	291	2,612	2.21	30.06	1,891,000	20,500	596	2,623	2.22	30.18	1,899,000
1939	883-257	15,900	277	2,208	1.87	25.40	1,599,000	-	-	-	-	-	-

*Yearly figures not previously published; discharge for period of missing record estimated.
†Corrected figures as published in Water-Supply Paper 863.

South Fork of Clearwater River near Grangeville, Idaho
(Drainage area, 865 square miles)

*1912	332-523	9,630	-	-	-	-	-	9,630	-	-	-	-	-
1913	362-521	7,450	144	1,200	1.39	18.78	867,000	7,450	144	1,190	1.38	18.65	861,000
1914	393-236	4,130	144	860	.994	13.50	623,000	4,130	-	854	.987	13.39	618,000
1915	413-193	4,130	-	729	.843	11.44	528,000	4,130	-	719	.831	11.28	521,000
1916	443-170	5,050	-	1,09[illegible]	1.26	17.18	792,000	-	-	-	-	-	-
1924	593-246	4,300	58	621	.718	9.79	450,000	4,300	58	615	.711	9.69	446,000
1925	613-257	4,010	-	797	.921	12.50	577,000	4,010	103	810	.936	12.72	587,000
1926	633-252	4,140	93	709	.820	11.13	514,000	4,140	93	764	.883	11.98	553,000
1927	653-219	7,370	189	1,200	1.39	18.92	872,000	7,370	189	1,340	1.55	20.98	968,000
1928	673-164	7,180	139	1,310	1.51	20.62	952,000	7,180	61	1,120	1.29	17.58	811,000
1929	693-172	6,090	61	876	1.01	13.74	635,000	6,090	66	867	1.00	13.59	628,000
1930	708-179	2,870	66	608	.703	9.53	440,000	2,870	-	614	.710	9.63	444,000
1931	723-194	3,270	59	533	.616	8.36	386,000	3,270	41	516	.597	8.08	373,000
1932	738-188	6,630	41	922	1.07	14.49	670,000	6,630	63	951	1.10	14.95	691,000
1933	753-189	5,920	63	885	1.02	13.87	640,000	5,920	126	898	1.04	14.09	650,000
1934	768-189	2,270	76	598	.691	9.40	433,100	2,270	76	562	.650	8.82	406,800
1935	793-186	3,000	60	523	.605	8.19	378,400	3,000	60	511	.591	8.01	369,800
1936	813-224	6,090	66	711	.822	11.17	516,200	6,090	62	707	.817	11.10	513,200
1937	833-203	3,550	-	494	.571	7.76	357,800	3,550	-	514	.594	8.08	372,400
1938	863-223	5,830	93	801	.926	12.59	580,300	5,830	93	806	.932	12.66	583,600
1939	883-258	3,910	98	626	.724	9.84	453,300	-	-	-	-	-	-

*Year incomplete.

North Fork of Clearwater River near Ahsahka, Idaho
(Drainage area, 2,440 square miles)

1927	653-221	35,700	1,280	7,240	2.97	40.29	5,240,000	37,200	1,500	8,750	3.59	48.72	6,340,000
1928	673-165	39,600	1,040	9,200	3.77	51.27	6,680,000	39,600	570	7,000	2.87	39.01	5,080,000
1929	693-173	22,100	490	3,610	1.48	20.04	2,610,000	22,100	490	3,580	1.47	19.91	2,590,000
1930	708-180	19,600	-	3,790	1.55	21.07	2,740,000	19,600	-	3,840	1.57	21.34	2,780,000
1931	723-195	22,300	632	3,610	1.48	20.10	2,620,000	22,300	645	3,550	1.45	19.76	2,570,000
1932	738-189	38,400	645	6,270	2.57	34.90	4,540,000	38,400	770	6,520	2.67	36.31	4,730,000
1933	753-190	44,000	830	6,170	2.53	34.38	4,470,000	90,000	830	7,900	3.24	43.94	5,720,000
1934	768-190	90,000	915	8,618	3.53	47.95	6,239,000	37,900	915	6,897	2.83	38.38	4,994,000
1935	793-187	26,700	550	4,887	2.00	27.18	3,538,000	26,700	425	4,578	1.88	26.47	3,314,000

Summary of yearly discharge, in second-feet, at stations in Clearwater River Basin--Continued

North Fork of Clearwater River near Ahsahka, Idaho--Continued
(Drainage area, 2,440 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30						Calendar year					
		Maximum day	Minimum day	Mean	Per square mile	Run-off		Maximum day	Minimum day	Mean	Per square mile	Run-off	
						Inches	Acre-feet					Inches	Acre-feet
1936	813-225	37,200	425	5,196	2.13	28.99	3,772,000	37,200	445	5,179	2.12	28.88	3,759,000
1937	833-204	19,000	-	3,471	1.42	19.29	2,513,000	19,000	-	3,683	1.51	20.47	2,667,000
1938	863-224	53,200	855	5,253	2.15	29.22	3,803,000	53,200	910	5,197	2.13	28.91	3,762,000
1939	883-259	27,000	855	4,208	1.72	23.39	3,046,000	-	-	-	-	-	-

PALOUSE RIVER BASIN

Palouse River at Hooper, Wash.
(Drainage area, 2,210 square miles)

Year	W.S.P. (no. and page)	Water year ending Sept. 30				Calendar year			
		Maximum day	Minimum day	Mean	Run-off in acre-feet	Maximum day	Minimum day	Mean	Run-off in acre-feet
1898	492-308	7,070	20	967	700,000	7,070	20	831	602,000
1899	492-308	4,200	20	583	422,000	4,200	20	638	462,000
1901	75-206	4,890	2	585	424,000	4,890	2	515	369,000
1902	85-203	2,910	7	285	206,000	2,910	60	334	239,000
1905	178-171	802	19	161	117,000	802	19	175	126,000
1906	252-281	2,470	24	334	241,000	6,200	24	459	331,000
1909	272-353	17,200	12	497	360,000	17,200	12	529	382,000
1910	292-448	27,800	0	1,030	748,000	27,800	0	1,020	738,000
1911	312-453	3,530	2.0	297	215,000	3,530	2	279	202,000
1914	413-204	4,760	6	395	286,000	4,760	6	384	278,000
1915	413-204	2,580	6	227	165,000	2,580	6	237	172,000

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